SDG COVER PAGE

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

Lab Code: ACE Case No.: 51495 MA No.: 3208.0 SDG No.: MYD4C6

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MYD4C6	P2836-01	X			
MYD4C7	P2836-02	X			
MYD4C8	P2836-03	X			
MYD4C9	P2836-04	X			
MYD4D0	P2836-05	X			
MYD4D1	P2836-06	X			
MYD4D2	P2836-07	X			
MYD4D3	P2836-08	X			
MYD4D3D	P2836-09	X			
MYD4D3S	P2836-10	X			
MYD4D4	P2836-11	X			
MYD4D5	P2836-12	X			
MYD4D6	P2836-13	X			
MYD4D7	P2836-14	X			
MYD4D8	P2836-15	X			
MYD4D9	P2836-16	X			
MYD4E0	P2836-17	X			
MYD4E1	P2836-18	X			
MYD4E2	P2836-19	X			
MYD4E3	P2836-20	X			
MYD4E4	P2836-21	X			
MYD4E5	P2836-22	X			

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

Signature: _____ Name: _____

Date: _____ Title: _____

68HERH20D0011

SDG # MYD4C6

USEPA CLP COC (LAB COPY)

DateShipped: ~~6/6/2024~~ 6/13/24

CarrierName: FedEx

AirbillNo: 7768 3169 7861

CHAIN OF CUSTODY RECORD

Case #: 51495

Cooler #: 51495-059

No: 9-060524-100849-0059

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-728-3151

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
2119A_2119B-C-00002-01	MYD4C6	Soil/ REAC	Grab	ICP-AES 11(21)	9-3434 (None) (1)	2119A_2119B-C-00002	06/04/2024 09:42	1
2119A_2119B-P-00003-01	MYD4C7	Soil/ REAC	Grab	ICP-AES 11(21)	9-3435 (None) (1)	2119A_2119B-P-00003	06/04/2024 09:41	2
2119A_2119B-R-00009-01	MYD4C8	Soil/ REAC	Grab	ICP-AES 11(21)	9-3436 (None) (1)	2119A_2119B-R-00009	06/04/2024 09:41	3
2119A_2119B-C-00003-01	MYD4C9	Soil/ REAC	Grab	ICP-AES 11(21)	9-3437 (None) (1)	2119A_2119B-C-00003	06/04/2024 09:40	4 X
2119A_2119B-C-00005-01	MYD4D0	Soil/ REAC	Grab	ICP-AES 11(21)	9-3438 (None) (1)	2119A_2119B-C-00005	06/04/2024 09:39	5
2119A_2119B-R-00001-01	MYD4D1	Soil/ REAC	Grab	ICP-AES 11(21)	9-3439 (None) (1)	2119A_2119B-R-00001	06/04/2024 09:38	6
2119A_2119B-S-00002-01	MYD4D2	Soil/ REAC	Grab	ICP-AES 11(21)	9-3440 (None) (1)	2119A_2119B-S-00002	06/04/2024 09:19	7
2119A_2119B-R-00006-03	MYD4D3	Soil/ REAC	Grab	ICP-AES 11(21)	9-3441 (None) (1)	2119A_2119B-R-00006	06/04/2024 09:36	8-MS
2119A_2119B-R-00010-01	MYD4D4	Soil/ REAC	Grab	ICP-AES 11(21)	9-3442 (None) (1)	2119A_2119B-R-00010	06/04/2024 09:46	9
2119A_2119B-R-00012-01	MYD4D5	Soil/ REAC	Grab	ICP-AES 11(21)	9-3443 (None) (1)	2119A_2119B-R-00012	06/04/2024 09:34	10

Sample(s) to be used for Lab QC: 2119A_2119B-R-00006-03 Tag 9-3441 - Special Instructions: ICP-AES 11+ Metals: Ag, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Tl, V, Zn

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-AES 11=ICP-AES 11+Metals

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
SHIP TO LAB	Olin Herren - WESTON	6/13/24 @ 1500		925 6/14/24	IR Gun # 1 23.1°C Custody Seal Intact NO Temp, NO ICE

2

68HERH20D0011

SDG # MYD4C6

USEPA CLP COC (LAB COPY)

DateShipped: ~~6/6/2024~~ 6/13/24

CarrierName: FedEx

AirbillNo: 7768 3169 7861

CHAIN OF CUSTODY RECORD

Case #: 51495

Cooler #: 51495-059

No: 9-060524-100849-0059

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-728-3151

3

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
2119A_2119B-R-00003-01	MYD4D6	Soil/ REAC	Grab	ICP-AES 11(21)	9-3444 (None) (1)	2119A_2119B-R-00003	06/04/2024 09:32	11
2119A_2119B-P-00001-01	MYD4D7	Soil/ REAC	Grab	ICP-AES 11(21)	9-3445 (None) (1)	2119A_2119B-P-00001	06/04/2024 09:31	12
2119A_2119B-R-00011-01	MYD4D8	Soil/ REAC	Grab	ICP-AES 11(21)	9-3446 (None) (1)	2119A_2119B-R-00011	06/04/2024 09:29	13
2119A_2119B-C-00010-01	MYD4D9	Soil/ REAC	Grab	ICP-AES 11(21)	9-3447 (None) (1)	2119A_2119B-C-00010	06/04/2024 09:29	14
2119A_2119B-P-00005-01	MYD4E0	Soil/ REAC	Grab	ICP-AES 11(21)	9-3448 (None) (1)	2119A_2119B-P-00005	06/04/2024 09:27	15
2119A_2119B-T-00005-01	MYD4E1	Soil/ ERT	Grab	ICP-AES 11(21)	9-3449 (None) (1)	2119A_2119B-T-00005	06/04/2024 09:23	16
2119A_2119B-B-00009-01	MYD4E2	Soil/ REAC	Grab	ICP-AES 11(21)	9-3450 (None) (1)	2119A_2119B-B-00009	06/04/2024 09:25	17
2119A_2119B-R-00004-01	MYD4E3	Soil/ REAC	Grab	ICP-AES 11(21)	9-3451 (None) (1)	2119A_2119B-R-00004	06/04/2024 09:24	18
2119A_2119B-B-00008-01	MYD4E4	Soil/ REAC	Grab	ICP-AES 11(21)	9-3452 (None) (1)	2119A_2119B-B-00008	06/04/2024 09:23	19
2119A_2119B-P-00008-02	MYD4E5	Soil/ REAC	Grab	ICP-AES 11(21)	9-3453 (None) (1)	2119A_2119B-P-00008	06/04/2024 09:38	20
90362-B-0004-01	MYD4E6	Soil/ REAC	Grab	ICP-AES 11(21)	9-3454 (None) (1)	90362-B-0004	06/04/2024 14:32	

Special Instructions: ICP-AES 11+ Metals: Ag, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Tl, V, Zn

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-AES 11=ICP-AES 11+Metals

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
SHIP TO LAB	Olin Herren - WESTON	6/13/24 @ 1500		925 6/14/24	IR-Gun #1 23.1°C Custody Seal Intact NO Temp, NO ICE

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 1
Received By (Print Name) Cassandra R		Log-in Date **6/14/2024**
Received By (Signature)		
Case Number 51495	SDG No. MYD4C6	MA No. 3208.0

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	n/a
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	776831697861 1
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	23.1 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	06/14/2024
12.Time Received	09:25

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MYD4C6	N/A	9-3434	P2836-01	Intact
2	MYD4C7	N/A	9-3435	P2836-02	Intact
3	MYD4C8	N/A	9-3436	P2836-03	Intact
4	MYD4C9	N/A	9-3437	P2836-04	Intact
5	MYD4D0	N/A	9-3438	P2836-05	Intact
6	MYD4D1	N/A	9-3439	P2836-06	Intact
7	MYD4D2	N/A	9-3440	P2836-07	Intact
8	MYD4D3	N/A	9-3441	P2836-08	Intact
9	MYD4D3D	N/A	9-3441	P2836-09	Intact
10	MYD4D3S	N/A	9-3441	P2836-10	Intact
11	MYD4D4	N/A	9-3442	P2836-11	Intact
12	MYD4D5	N/A	9-3443	P2836-12	Intact
13	MYD4D6	N/A	9-3444	P2836-13	Intact
14	MYD4D7	N/A	9-3445	P2836-14	Intact
15	MYD4D8	N/A	9-3446	P2836-15	Intact
16	MYD4D9	N/A	9-3447	P2836-16	Intact
17	MYD4E0	N/A	9-3448	P2836-17	Intact
18	MYD4E1	N/A	9-3449	P2836-18	Intact
19	MYD4E2	N/A	9-3450	P2836-19	Intact
20	MYD4E3	N/A	9-3451	P2836-20	Intact
21	MYD4E4	N/A	9-3452	P2836-21	Intact
22	MYD4E5	N/A	9-3453	P2836-22	Intact
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 6/14/24	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.	**51495**	SDG NO.	**MYD4C6**
MA NO.	**3208.0**	SOW NO.	**SFAM01.1**

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

	PAGE NOs: FROM	PAGE NOs: TO	CHECK LAB	CHECK REGION
1. SDG Cover Page	1	1	✓	
2. Traffic Report/Chain of Custody Record(s)	2	3	✓	
3. Sample Log-In Sheet (DC-1)	4	4	✓	
4. CSF Inventory Sheet (DC-2)	5	7	✓	
5. SDG Narrative	8	12	✓	
6. Communication Logs	13	16	✓	
7. Percent Solids Log	17	19	✓	
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	20	39	✓	
9. Instrument raw data by instrument in analysis order	40	389	✓	
Other Data				
10. Standard and Reagent Preparation Logs	390	529	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	530	550	✓	
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	✓	

	PAGE NOs: FROM	PAGE NOs: TO	CHECK LAB	CHECK REGION
22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
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)	551	551	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	552	553	✓	
45. Misc. Shipping/Receiving Records(list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	NA	NA	✓	
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)

CHEMTECH
Alliance Technical Group LLC
284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # MYD4C6
CASE # 51495
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
CHEMTECH PROJECT #P2836
MODIFIED ANALYSIS#3208.0

A. Number of Samples and Date of Receipt

20 Soil samples were delivered to the laboratory intact on 06/14/2024.

B. Parameters

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

C. Cooler Temp

Indicator Bottle**:** Presence/**Absence**

Cooler: 23.1^{o}C

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

Issue 1: A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

Issue 2: The laboratory received samples without ice. The coolers had temperatures 24.2 degrees C, 23.2 degrees C, 23.8 degrees C, 24.1 degrees C, and 26.1 degrees C upon arrival. The laboratory would like to know how to proceed.

E. Corrective Action taken for above:

Resolution 1: 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.

Resolution 2: Per Region 9, Case 51495 is for metals. There are no rinsates in those cooler so they don't require ice. The laboratory should 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 MYD4C6 For Arsenic:

If C = 0.5868672 ppm
Vf = 100 ml
W = 1.11g
S = 0.987(98.7/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.5868672 \times \frac{100}{1.11 \times 0.987} \times 1$$

$$= 53.5672 \text{ mg/kg}$$

$$= 54 \text{ mg/kg (Reported Result with Signification)}$$

CHEMTECH
Alliance Technical Group LLC
284 Sheffield Street
Mountainside, NJ 07092

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 Chromium, Selenium, Silver, Thallium, Zinc. Duplicate sample did meet requirements. Serial Dilution did meet requirements

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

Signature_____ Name: Nimisha Pandya

Date _____ Title: Document Control Officer

Date: 02/14/2024	**MA:** 3208.0	**Title:** ICP-AES Analysis Plus Molybdenum
Method Source: SFAM01.1	**Method:** ICP-AES	
Matrix: Aqueous/Water, Soil/Sediment		

Summary of Modification

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

I. Analyte Modifications **Not applicable** ☐

Analyte	CAS Number	CRQL (µg/L)	CRQL (mg/kg)	Spike (µg/L)	Spike (mg/kg)
Molybdenum (Mo)	7439-98-7	10	5.0	100	50

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

The Laboratory shall:

- Ensure that Method Detection Limits have been determined for Mo in aqueous/water and soil/sediment matrices by the preparation and analysis methods used for the samples that meet all applicable SOW requirements.
- Perform the Initial Calibration with a blank and at least one non-blank standard at or below the modified CRQL adjusted to µg/L as necessary.
- Add Mo to the ICV and CCV at appropriate mid-point concentrations.
- Evaluate the ICB and CCB against the modified aqueous CRQL.
- Evaluate the Preparation Blanks using the appropriate modified CRQL.
- Prepare the Matrix Spikes at the modified levels. Post-Digestion Spike requirements are per the SOW.
- Flag the Duplicates based on the appropriate modified CRQL.
- Add Mo to the LCS at 2 times the appropriate modified CRQL.
- Note that the Laboratory is not required to add Mo to the ICSA/ICSAB solutions. The Laboratory shall use a true value of zero (0) and acceptance windows of +/- 1x the CRQL, unless a non-zero value has been determined for the solutions.

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

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

The Laboratory shall:

- Add Mo to Form 1.
- Report the "J" and "U" qualifiers in accordance with the requirements in Exhibit B, Section 3.4.3.2.4.2, using the modified CRQLs.
- Ensure that the SDG Narrative is updated as stated in the SOW, including any technical and administrative problems encountered and the corrective actions taken. These problems may include interference problems encountered during analysis, dilutions, re-analyses, or re-

	preparations performed, and problems with the analysis of samples. Also include a discussion of any SOW Modified Analyses including a copy of the approved modification with the SDG Narrative.

From: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Sent: Monday, June 10, 2024 3:37 PM
To: Deepak Parmar; Sohil Jodhani; Mohammad Ahmed
Cc: R9RSCC (R9RSCC@epa.gov); carmon.jamie@epa.gov; Spiegel, Michael (he/him/his)
Subject: Region 09 | Case 51495 | Lab ACE | Issue Samples received at an elevated temperature | FINAL

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good afternoon,

Please advise on the issue below.

Issue: The laboratory received samples without ice. The coolers had temperatures 24.2 degrees C, 23.2 degrees C, 23.8 degrees C, 24.1 degrees C, and 26.1 degrees C upon arrival. The laboratory would like to know how to proceed.
Resolution: Per Region 9, Case 51495 is for metals. There are no rinsates in those cooler so they don't require ice. The laboratory should note the issue in the SDG narrative and proceed with the analysis of the samples.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Thanks,
Miles Hairston
Associate Environmental Analyst
Under contract to EPA
QSS Coordinator – EPA Regions 1, 8, and 9

Work Phone: +1 571-454-0346
Miles.Hairston@gdit.com
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com

Leave alert: N/A

GENERAL DYNAMICS
information technology

This electronic message transmission contains information from GDIT that may be attorney-client privileged, proprietary or confidential. The information in this message is intended only for use by the individual(s) to whom it is addressed. If you believe you have received this message in error, please contact me immediately and be aware that any use, disclosure, copying or distribution of the contents of this message is strictly prohibited. NOTE: Regardless of content, this email shall not operate to bind GDIT to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of email for such purpose.

From: R9RSCC <R9RSCC@epa.gov>
Sent: Monday, June 10, 2024 3:23 PM
To: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Cc: R9RSCC <R9RSCC@epa.gov>
Subject: RE: Region 09 | Case 51495 | Lab ACE | Issue Samples received at an elevated temperature

This Message Is From an External Sender

Please use caution with links, attachments, and any requests for credentials.

Hi Miles,

Case 51495 is for metals. The client said there are no rinsates in those cooler so they don't require ice.
Please have the lab proceed with analysis.

Thanks
-Jamie
Jamie Carmon (she/her)
****
Region 9
RSCC (Regional Sample Control Coordinator)
Phone: 510-412-2389
Email: R9RSCC@epa.gov

From: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Sent: Monday, June 10, 2024 11:35 AM
To: R9RSCC <R9RSCC@epa.gov>; Carmon, Jamie (she/her/hers) <Carmon.Jamie@epa.gov>; Spiegel, Michael (he/him/his) <Spiegel.Michael@epa.gov>
Subject: Region 09 | Case 51495 | Lab ACE | Issue Samples received at an elevated temperature

Caution: This email originated from outside EPA, please exercise additional caution when deciding whether to open attachments or click on provided links.

Good afternoon,

Please advise on the issue below.

Issue: The laboratory received samples without ice. The coolers had temperatures 24.2 degrees C, 23.2 degrees C, 23.8 degrees C, 24.1 degrees C, and 26.1 degrees C upon arrival. The laboratory would like to know how to proceed.

Thanks,
Miles Hairston
Associate Environmental Analyst
Under contract to EPA
QSS Coordinator – EPA Regions 1, 8, and 9

Work Phone: +1 571-454-0346
Miles.Hairston@gdit.com
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com

Leave alert: N/A

GENERAL DYNAMICS
information technology

This electronic message transmission contains information from GDIT that may be attorney-client privileged, proprietary or confidential. The information in this message is intended only for use by the individual(s) to whom it is addressed. If you believe you have received this message in error, please contact me immediately and be aware that any use, disclosure, copying or distribution of the contents of this message is strictly prohibited. NOTE:

Regardless of content, this email shall not operate to bind GDIT to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of email for such purpose.

From: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Sent: Monday, June 10, 2024 1:54 PM
To: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Cc: Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>; Mohammad Ahmed <mohammad.ahmed@alliancetg.com>
Subject: RE: Region 09 | Case 51495 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

This Message Is From an External Sender

Please use caution with links, attachments, and any requests for credentials.

Good afternoon,

the temperature of the cooler upon arrival is 24.2,23.2,23.8,24.1,26.1 without ice .

Thanks & Regards,

Deepak Parmar
QA/QC
An Alliance Technical Group Company
Main: 908-789-8900
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Sent: Monday, June 10, 2024 1:46 PM
To: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Cc: Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>; Mohammad Ahmed <mohammad.ahmed@alliancetg.com>
Subject: Region 09 | Case 51495 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good afternoon,

What was the temperature of the cooler upon arrival?

Thanks,
Miles Hairston
Associate Environmental Analyst
Under contract to EPA
QSS Coordinator – EPA Regions 1, 8, and 9

Work Phone: +1 571-454-0346
Miles.Hairston@gdit.com
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com

Leave alert: N/A

GENERAL DYNAMICS
information technology

This electronic message transmission contains information from GDIT that may be attorney-client privileged, proprietary or confidential. The information in this message is intended only for use by the individual(s) to whom it is addressed. If you believe you have received this message in error, please contact me immediately and be aware that any use, disclosure, copying or distribution of the contents of this message is strictly prohibited. NOTE: Regardless of content, this email shall not operate to bind GDIT to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of email for such purpose.

From: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Sent: Monday, June 10, 2024 1:06 PM
To: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Cc: Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>; Mohammad Ahmed <mohammad.ahmed@alliancetg.com>
Subject: Region 09 | Case 51495 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

This Message Is From an External Sender

Please use caution with links, attachments, and any requests for credentials.

Good morning ,

Sample received for Case 51495 without ice ,there for lab like to confirm that can lab proceed with the analysis of the sample ?

Thanks & Regards,

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

Deepak Parmar
QA/QC
An Alliance Technical Group Company
Main: 908-789-8900
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com AST AEM AAS

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 6/17/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 13:15
In Date: 06/15/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 06/16/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB131258

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
P2836-01	MYD4C6	1	1.15	8.34	9.49	9.38	98.7	
P2836-02	MYD4C7	2	1.15	8.44	9.59	9.32	96.8	
P2836-03	MYD4C8	3	1.18	8.57	9.75	9.54	97.5	
P2836-04	MYD4C9	4	1.15	8.62	9.77	9.58	97.8	
P2836-05	MYD4D0	5	1.16	8.40	9.56	8.84	91.4	
P2836-06	MYD4D1	6	1.18	8.35	9.53	9.3	97.2	
P2836-07	MYD4D2	7	1.18	8.59	9.77	9.44	96.2	
P2836-08	MYD4D3	8	1.17	8.65	9.82	9.52	96.5	
P2836-09	MYD4D3D	9	1.17	8.65	9.82	9.52	96.5	
P2836-10	MYD4D3S	10	1.17	8.65	9.82	9.52	96.5	
P2836-11	MYD4D4	11	1.18	8.60	9.78	9.47	96.4	
P2836-12	MYD4D5	12	1.18	8.74	9.92	9.64	96.8	
P2836-13	MYD4D6	13	1.12	8.86	9.98	9.66	96.4	
P2836-14	MYD4D7	14	1.15	8.57	9.72	9.55	98.0	
P2836-15	MYD4D8	15	1.18	8.50	9.68	9.48	97.6	
P2836-16	MYD4D9	16	1.15	8.47	9.62	9.34	96.7	
P2836-17	MYD4E0	17	1.12	8.77	9.89	9.56	96.2	
P2836-18	MYD4E1	18	1.13	8.80	9.93	9.72	97.6	
P2836-19	MYD4E2	19	1.18	8.70	9.88	9.62	97.0	
P2836-20	MYD4E3	20	1.16	8.50	9.66	9.38	96.7	
P2836-21	MYD4E4	21	1.18	8.51	9.69	9.42	96.8	
P2836-22	MYD4E5	22	1.18	8.79	9.97	9.81	98.2	

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

WORKLIST(Hardcopy Internal Chain)

VB 131258

WorkList Name : %1-P2836 **WorkList ID :** 181108 **Department :** Wet-Chemistry **Date :** 06-15-2024 11:44:17

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P2836-01	MYD4C6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/04/2024	Chemtech -SO
P2836-02	MYD4C7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/04/2024	Chemtech -SO
P2836-03	MYD4C8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/04/2024	Chemtech -SO
P2836-04	MYD4C9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/04/2024	Chemtech -SO
P2836-05	MYD4D0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/04/2024	Chemtech -SO
P2836-06	MYD4D1	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/04/2024	Chemtech -SO
P2836-07	MYD4D2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/04/2024	Chemtech -SO
P2836-08	MYD4D3	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/04/2024	Chemtech -SO
P2836-09	MYD4D3D	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/04/2024	Chemtech -SO
P2836-10	MYD4D3S	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/04/2024	Chemtech -SO
P2836-11	MYD4D4	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/04/2024	Chemtech -SO
P2836-12	MYD4D5	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/04/2024	Chemtech -SO
P2836-13	MYD4D6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/04/2024	Chemtech -SO
P2836-14	MYD4D7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/04/2024	Chemtech -SO
P2836-15	MYD4D8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/04/2024	Chemtech -SO
P2836-16	MYD4D9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/04/2024	Chemtech -SO
P2836-17	MYD4E0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/04/2024	Chemtech -SO
P2836-18	MYD4E1	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/04/2024	Chemtech -SO
P2836-19	MYD4E2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/04/2024	Chemtech -SO
P2836-20	MYD4E3	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/04/2024	Chemtech -SO
P2836-21	MYD4E4	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/04/2024	Chemtech -SO

18

Date/Time 06.15.24 12:30

Raw Sample Received by: TD CWC

Raw Sample Relinquished by: [signature]

Date/Time 06.15.24 13:20

Raw Sample Received by: [signature]

Raw Sample Relinquished by: TD CWC

WORKLIST(Hardcopy Internal Chain)

B131258

WorkList Name : %1-P2836 **WorkList ID :** 181108 **Department :** Wet-Chemistry **Date :** 06-15-2024 11:44:17

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P2836-22	MYD4E5	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/04/2024	Chemtech -SO

19

Date/Time 06-15-24 12:30

Raw Sample Received by: JD CWDC

Raw Sample Relinquished by: [signature]

Date/Time 06-15-24 13:20

Raw Sample Received by: [signature]

Raw Sample Relinquished by: JD CWDC

EPA SAMPLE NO.

MYD4C6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51495 MA No. : 3208.0 SDG No.: MYD4C6

Matrix: SOIL Lab Sample ID: P2836-01

% Solids: 98.7 Date Received: 06/14/2024

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
7440-36-0	Antimony	4.9	J	06/30/2024	1711
7440-38-2	Arsenic	54		06/30/2024	1711
7440-39-3	Barium	100		06/30/2024	1711
7440-41-7	Beryllium	0.54		06/30/2024	1711
7440-43-9	Cadmium	0.50		06/30/2024	1711
7440-47-3	Chromium	11	*	06/30/2024	1711
7440-48-4	Cobalt	16		06/30/2024	1711
7440-50-8	Copper	46		06/30/2024	1711
7439-92-1	Lead	31		06/30/2024	1711
7439-96-5	Manganese	590		06/30/2024	1711
7439-98-7	Molybdenum	4.6	U	06/30/2024	1711
7440-02-0	Nickel	20		06/30/2024	1711
7782-49-2	Selenium	3.2	U*	06/30/2024	1711
7440-22-4	Silver	0.91	U*	06/30/2024	1711
7440-28-0	Thallium	2.3	U*	06/30/2024	1711
7440-62-2	Vanadium	70		06/30/2024	1711
7440-66-6	Zinc	130	*	06/30/2024	1711

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

Comments:

EPA SAMPLE NO.

MYD4C7

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51495 MA No. : 3208.0 SDG No.: MYD4C6

Matrix: SOIL Lab Sample ID: P2836-02

% Solids: 96.8 Date Received: 06/14/2024

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
7440-36-0	Antimony	2.6	J	06/30/2024	1715
7440-38-2	Arsenic	43		06/30/2024	1715
7440-39-3	Barium	120		06/30/2024	1715
7440-41-7	Beryllium	0.53		06/30/2024	1715
7440-43-9	Cadmium	0.42	J	06/30/2024	1715
7440-47-3	Chromium	16	*	06/30/2024	1715
7440-48-4	Cobalt	20		06/30/2024	1715
7440-50-8	Copper	48		06/30/2024	1715
7439-92-1	Lead	27		06/30/2024	1715
7439-96-5	Manganese	760		06/30/2024	1715
7439-98-7	Molybdenum	4.7	U	06/30/2024	1715
7440-02-0	Nickel	23		06/30/2024	1715
7782-49-2	Selenium	3.3	U*	06/30/2024	1715
7440-22-4	Silver	0.95	U*	06/30/2024	1715
7440-28-0	Thallium	2.4	U*	06/30/2024	1715
7440-62-2	Vanadium	78		06/30/2024	1715
7440-66-6	Zinc	120	*	06/30/2024	1715

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

Comments:

EPA SAMPLE NO.

MYD4C8

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51495 MA No. : 3208.0 SDG No.: MYD4C6

Matrix: SOIL Lab Sample ID: P2836-03

% Solids: 97.5 Date Received: 06/14/2024

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
7440-36-0	Antimony	2.2	J	06/30/2024	1719
7440-38-2	Arsenic	48		06/30/2024	1719
7440-39-3	Barium	110		06/30/2024	1719
7440-41-7	Beryllium	0.41		06/30/2024	1719
7440-43-9	Cadmium	0.80		06/30/2024	1719
7440-47-3	Chromium	11	*	06/30/2024	1719
7440-48-4	Cobalt	14		06/30/2024	1719
7440-50-8	Copper	62		06/30/2024	1719
7439-92-1	Lead	50		06/30/2024	1719
7439-96-5	Manganese	750		06/30/2024	1719
7439-98-7	Molybdenum	0.28	J	06/30/2024	1719
7440-02-0	Nickel	16		06/30/2024	1719
7782-49-2	Selenium	2.9	U*	06/30/2024	1719
7440-22-4	Silver	0.83	U*	06/30/2024	1719
7440-28-0	Thallium	2.1	U*	06/30/2024	1719
7440-62-2	Vanadium	54		06/30/2024	1719
7440-66-6	Zinc	150	*	06/30/2024	1719

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

Comments:

EPA SAMPLE NO.

MYD4C9

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51495 MA No. : 3208.0 SDG No.: MYD4C6

Matrix: SOIL Lab Sample ID: P2836-04

% Solids: 97.8 Date Received: 06/14/2024

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
7440-36-0	Antimony	1.5	J	06/30/2024	1724
7440-38-2	Arsenic	44		06/30/2024	1724
7440-39-3	Barium	76		06/30/2024	1724
7440-41-7	Beryllium	0.32	J	06/30/2024	1724
7440-43-9	Cadmium	0.61		06/30/2024	1724
7440-47-3	Chromium	9.6	*	06/30/2024	1724
7440-48-4	Cobalt	11		06/30/2024	1724
7440-50-8	Copper	46		06/30/2024	1724
7439-92-1	Lead	39		06/30/2024	1724
7439-96-5	Manganese	470		06/30/2024	1724
7439-98-7	Molybdenum	3.5	U	06/30/2024	1724
7440-02-0	Nickel	15		06/30/2024	1724
7782-49-2	Selenium	2.5	U*	06/30/2024	1724
7440-22-4	Silver	0.70	U*	06/30/2024	1724
7440-28-0	Thallium	1.8	U*	06/30/2024	1724
7440-62-2	Vanadium	36		06/30/2024	1724
7440-66-6	Zinc	130	*	06/30/2024	1724

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

Comments:

EPA SAMPLE NO.

MYD4D0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51495 MA No. : 3208.0 SDG No.: MYD4C6

Matrix: SOIL Lab Sample ID: P2836-05

% Solids: 91.4 Date Received: 06/14/2024

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
7440-36-0	Antimony	1.8	J	06/30/2024	1728
7440-38-2	Arsenic	38		06/30/2024	1728
7440-39-3	Barium	130		06/30/2024	1728
7440-41-7	Beryllium	0.51		06/30/2024	1728
7440-43-9	Cadmium	0.64		06/30/2024	1728
7440-47-3	Chromium	18	*	06/30/2024	1728
7440-48-4	Cobalt	16		06/30/2024	1728
7440-50-8	Copper	53		06/30/2024	1728
7439-92-1	Lead	36		06/30/2024	1728
7439-96-5	Manganese	710		06/30/2024	1728
7439-98-7	Molybdenum	3.9	U	06/30/2024	1728
7440-02-0	Nickel	24		06/30/2024	1728
7782-49-2	Selenium	2.7	U*	06/30/2024	1728
7440-22-4	Silver	0.77	U*	06/30/2024	1728
7440-28-0	Thallium	1.9	U*	06/30/2024	1728
7440-62-2	Vanadium	40		06/30/2024	1728
7440-66-6	Zinc	120	*	06/30/2024	1728

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

Comments:

EPA SAMPLE NO.

MYD4D1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51495 MA No. : 3208.0 SDG No.: MYD4C6

Matrix: SOIL Lab Sample ID: P2836-06

% Solids: 97.2 Date Received: 06/14/2024

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
7440-36-0	Antimony	2.1	J	06/30/2024	1733
7440-38-2	Arsenic	37		06/30/2024	1733
7440-39-3	Barium	78		06/30/2024	1733
7440-41-7	Beryllium	0.37		06/30/2024	1733
7440-43-9	Cadmium	0.61		06/30/2024	1733
7440-47-3	Chromium	14	*	06/30/2024	1733
7440-48-4	Cobalt	14		06/30/2024	1733
7440-50-8	Copper	60		06/30/2024	1733
7439-92-1	Lead	32		06/30/2024	1733
7439-96-5	Manganese	620		06/30/2024	1733
7439-98-7	Molybdenum	3.7	U	06/30/2024	1733
7440-02-0	Nickel	17		06/30/2024	1733
7782-49-2	Selenium	2.6	U*	06/30/2024	1733
7440-22-4	Silver	0.75	U*	06/30/2024	1733
7440-28-0	Thallium	1.9	U*	06/30/2024	1733
7440-62-2	Vanadium	53		06/30/2024	1733
7440-66-6	Zinc	110	*	06/30/2024	1733

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

Comments:

EPA SAMPLE NO.

MYD4D2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51495 MA No. : 3208.0 SDG No.: MYD4C6

Matrix: SOIL Lab Sample ID: P2836-07

% Solids: 96.2 Date Received: 06/14/2024

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
7440-36-0	Antimony	2.7	J	06/30/2024	1737
7440-38-2	Arsenic	43		06/30/2024	1737
7440-39-3	Barium	120		06/30/2024	1737
7440-41-7	Beryllium	0.52		06/30/2024	1737
7440-43-9	Cadmium	0.46		06/30/2024	1737
7440-47-3	Chromium	15	*	06/30/2024	1737
7440-48-4	Cobalt	17		06/30/2024	1737
7440-50-8	Copper	54		06/30/2024	1737
7439-92-1	Lead	32		06/30/2024	1737
7439-96-5	Manganese	620		06/30/2024	1737
7439-98-7	Molybdenum	4.6	U	06/30/2024	1737
7440-02-0	Nickel	19		06/30/2024	1737
7782-49-2	Selenium	3.3	U*	06/30/2024	1737
7440-22-4	Silver	0.93	U*	06/30/2024	1737
7440-28-0	Thallium	2.3	U*	06/30/2024	1737
7440-62-2	Vanadium	74		06/30/2024	1737
7440-66-6	Zinc	100	*	06/30/2024	1737

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

Comments:

EPA SAMPLE NO.

MYD4D3

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51495 MA No. : 3208.0 SDG No.: MYD4C6

Matrix: SOIL Lab Sample ID: P2836-08

% Solids: 96.5 Date Received: 06/14/2024

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
7440-36-0	Antimony	1.8	J	06/30/2024	1741
7440-38-2	Arsenic	40		06/30/2024	1741
7440-39-3	Barium	86		06/30/2024	1741
7440-41-7	Beryllium	0.43		06/30/2024	1741
7440-43-9	Cadmium	0.40	J	06/30/2024	1741
7440-47-3	Chromium	11	*	06/30/2024	1741
7440-48-4	Cobalt	15		06/30/2024	1741
7440-50-8	Copper	51		06/30/2024	1741
7439-92-1	Lead	27		06/30/2024	1741
7439-96-5	Manganese	610		06/30/2024	1741
7439-98-7	Molybdenum	4.2	U	06/30/2024	1741
7440-02-0	Nickel	17		06/30/2024	1741
7782-49-2	Selenium	2.9	U*	06/30/2024	1741
7440-22-4	Silver	0.84	U*	06/30/2024	1741
7440-28-0	Thallium	2.1	U*	06/30/2024	1741
7440-62-2	Vanadium	57		06/30/2024	1741
7440-66-6	Zinc	100	*	06/30/2024	1741

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

Comments:

EPA SAMPLE NO.

MYD4D4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51495 MA No. : 3208.0 SDG No.: MYD4C6

Matrix: SOIL Lab Sample ID: P2836-11

% Solids: 96.4 Date Received: 06/14/2024

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
7440-36-0	Antimony	3.0	J	06/30/2024	1843
7440-38-2	Arsenic	49		06/30/2024	1843
7440-39-3	Barium	150		06/30/2024	1843
7440-41-7	Beryllium	0.69		06/30/2024	1843
7440-43-9	Cadmium	0.65		06/30/2024	1843
7440-47-3	Chromium	17	*	06/30/2024	1843
7440-48-4	Cobalt	25		06/30/2024	1843
7440-50-8	Copper	75		06/30/2024	1843
7439-92-1	Lead	30		06/30/2024	1843
7439-96-5	Manganese	820		06/30/2024	1843
7439-98-7	Molybdenum	5.1	U	06/30/2024	1843
7440-02-0	Nickel	26		06/30/2024	1843
7782-49-2	Selenium	3.6	U*	06/30/2024	1843
7440-22-4	Silver	1.0	U*	06/30/2024	1843
7440-28-0	Thallium	2.6	U*	06/30/2024	1843
7440-62-2	Vanadium	87		06/30/2024	1843
7440-66-6	Zinc	120	*	06/30/2024	1843

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

Comments:

EPA SAMPLE NO.

MYD4D5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51495 MA No. : 3208.0 SDG No.: MYD4C6

Matrix: SOIL Lab Sample ID: P2836-12

% Solids: 96.8 Date Received: 06/14/2024

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
7440-36-0	Antimony	2.3	J	06/30/2024	1848
7440-38-2	Arsenic	47		06/30/2024	1848
7440-39-3	Barium	120		06/30/2024	1848
7440-41-7	Beryllium	0.50		06/30/2024	1848
7440-43-9	Cadmium	0.63		06/30/2024	1848
7440-47-3	Chromium	14	*	06/30/2024	1848
7440-48-4	Cobalt	18		06/30/2024	1848
7440-50-8	Copper	61		06/30/2024	1848
7439-92-1	Lead	38		06/30/2024	1848
7439-96-5	Manganese	740		06/30/2024	1848
7439-98-7	Molybdenum	4.7	U	06/30/2024	1848
7440-02-0	Nickel	20		06/30/2024	1848
7782-49-2	Selenium	3.3	U*	06/30/2024	1848
7440-22-4	Silver	0.95	U*	06/30/2024	1848
7440-28-0	Thallium	2.4	U*	06/30/2024	1848
7440-62-2	Vanadium	74		06/30/2024	1848
7440-66-6	Zinc	130	*	06/30/2024	1848

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

Comments:

EPA SAMPLE NO.

MYD4D6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51495 MA No. : 3208.0 SDG No.: MYD4C6

Matrix: SOIL Lab Sample ID: P2836-13

% Solids: 96.4 Date Received: 06/14/2024

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
7440-36-0	Antimony	2.8	J	06/30/2024	1852
7440-38-2	Arsenic	53		06/30/2024	1852
7440-39-3	Barium	120		06/30/2024	1852
7440-41-7	Beryllium	0.57		06/30/2024	1852
7440-43-9	Cadmium	0.94		06/30/2024	1852
7440-47-3	Chromium	17	*	06/30/2024	1852
7440-48-4	Cobalt	19		06/30/2024	1852
7440-50-8	Copper	110		06/30/2024	1852
7439-92-1	Lead	47		06/30/2024	1852
7439-96-5	Manganese	700		06/30/2024	1852
7439-98-7	Molybdenum	4.5	U	06/30/2024	1852
7440-02-0	Nickel	24		06/30/2024	1852
7782-49-2	Selenium	3.2	U*	06/30/2024	1852
7440-22-4	Silver	0.90	U*	06/30/2024	1852
7440-28-0	Thallium	2.3	U*	06/30/2024	1852
7440-62-2	Vanadium	71		06/30/2024	1852
7440-66-6	Zinc	130	*	06/30/2024	1852

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

Comments:

EPA SAMPLE NO.

MYD4D7

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51495 MA No. : 3208.0 SDG No.: MYD4C6

Matrix: SOIL Lab Sample ID: P2836-14

% Solids: 98 Date Received: 06/14/2024

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
7440-36-0	Antimony	2.5	J	06/30/2024	1856
7440-38-2	Arsenic	89		06/30/2024	1856
7440-39-3	Barium	98		06/30/2024	1856
7440-41-7	Beryllium	0.37	J	06/30/2024	1856
7440-43-9	Cadmium	1.0		06/30/2024	1856
7440-47-3	Chromium	11	*	06/30/2024	1856
7440-48-4	Cobalt	13		06/30/2024	1856
7440-50-8	Copper	64		06/30/2024	1856
7439-92-1	Lead	88		06/30/2024	1856
7439-96-5	Manganese	610		06/30/2024	1856
7439-98-7	Molybdenum	4.1	U	06/30/2024	1856
7440-02-0	Nickel	16		06/30/2024	1856
7782-49-2	Selenium	2.8	U*	06/30/2024	1856
7440-22-4	Silver	0.81	U*	06/30/2024	1856
7440-28-0	Thallium	2.0	U*	06/30/2024	1856
7440-62-2	Vanadium	54		06/30/2024	1856
7440-66-6	Zinc	240	*	06/30/2024	1856

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

Comments:

EPA SAMPLE NO.

MYD4D8

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51495 MA No. : 3208.0 SDG No.: MYD4C6

Matrix: SOIL Lab Sample ID: P2836-15

% Solids: 97.6 Date Received: 06/14/2024

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
7440-36-0	Antimony	1.8	J	06/30/2024	1901
7440-38-2	Arsenic	48		06/30/2024	1901
7440-39-3	Barium	74		06/30/2024	1901
7440-41-7	Beryllium	0.33	J	06/30/2024	1901
7440-43-9	Cadmium	0.65		06/30/2024	1901
7440-47-3	Chromium	9.0	*	06/30/2024	1901
7440-48-4	Cobalt	11		06/30/2024	1901
7440-50-8	Copper	54		06/30/2024	1901
7439-92-1	Lead	53		06/30/2024	1901
7439-96-5	Manganese	580		06/30/2024	1901
7439-98-7	Molybdenum	3.7	U	06/30/2024	1901
7440-02-0	Nickel	13		06/30/2024	1901
7782-49-2	Selenium	2.6	U*	06/30/2024	1901
7440-22-4	Silver	0.75	U*	06/30/2024	1901
7440-28-0	Thallium	1.9	U*	06/30/2024	1901
7440-62-2	Vanadium	48		06/30/2024	1901
7440-66-6	Zinc	140	*	06/30/2024	1901

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

Comments:

EPA SAMPLE NO.

MYD4D9

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51495 MA No. : 3208.0 SDG No.: MYD4C6

Matrix: SOIL Lab Sample ID: P2836-16

% Solids: 96.7 Date Received: 06/14/2024

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
7440-36-0	Antimony	1.6	J	06/30/2024	1905
7440-38-2	Arsenic	47		06/30/2024	1905
7440-39-3	Barium	100		06/30/2024	1905
7440-41-7	Beryllium	0.42		06/30/2024	1905
7440-43-9	Cadmium	0.65		06/30/2024	1905
7440-47-3	Chromium	12	*	06/30/2024	1905
7440-48-4	Cobalt	13		06/30/2024	1905
7440-50-8	Copper	47		06/30/2024	1905
7439-92-1	Lead	46		06/30/2024	1905
7439-96-5	Manganese	560		06/30/2024	1905
7439-98-7	Molybdenum	3.5	U	06/30/2024	1905
7440-02-0	Nickel	17		06/30/2024	1905
7782-49-2	Selenium	2.5	U*	06/30/2024	1905
7440-22-4	Silver	0.70	U*	06/30/2024	1905
7440-28-0	Thallium	1.8	U*	06/30/2024	1905
7440-62-2	Vanadium	34		06/30/2024	1905
7440-66-6	Zinc	140	*	06/30/2024	1905

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

Comments:

EPA SAMPLE NO.

MYD4E0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51495 MA No. : 3208.0 SDG No.: MYD4C6

Matrix: SOIL Lab Sample ID: P2836-17

% Solids: 96.2 Date Received: 06/14/2024

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
7440-36-0	Antimony	2.0	J	06/30/2024	1909
7440-38-2	Arsenic	28		06/30/2024	1909
7440-39-3	Barium	100		06/30/2024	1909
7440-41-7	Beryllium	0.50		06/30/2024	1909
7440-43-9	Cadmium	0.12	J	06/30/2024	1909
7440-47-3	Chromium	13	*	06/30/2024	1909
7440-48-4	Cobalt	16		06/30/2024	1909
7440-50-8	Copper	36		06/30/2024	1909
7439-92-1	Lead	16		06/30/2024	1909
7439-96-5	Manganese	550		06/30/2024	1909
7439-98-7	Molybdenum	4.6	U	06/30/2024	1909
7440-02-0	Nickel	19		06/30/2024	1909
7782-49-2	Selenium	3.2	U*	06/30/2024	1909
7440-22-4	Silver	0.91	U*	06/30/2024	1909
7440-28-0	Thallium	2.3	U*	06/30/2024	1909
7440-62-2	Vanadium	58		06/30/2024	1909
7440-66-6	Zinc	63	*	06/30/2024	1909

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

Comments:

EPA SAMPLE NO.

MYD4E1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51495 MA No. : 3208.0 SDG No.: MYD4C6

Matrix: SOIL Lab Sample ID: P2836-18

% Solids: 97.6 Date Received: 06/14/2024

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
7440-36-0	Antimony	1.3	J	06/30/2024	1914
7440-38-2	Arsenic	30		06/30/2024	1914
7440-39-3	Barium	57		06/30/2024	1914
7440-41-7	Beryllium	0.29	J	06/30/2024	1914
7440-43-9	Cadmium	0.49		06/30/2024	1914
7440-47-3	Chromium	7.0	*	06/30/2024	1914
7440-48-4	Cobalt	10		06/30/2024	1914
7440-50-8	Copper	52		06/30/2024	1914
7439-92-1	Lead	34		06/30/2024	1914
7439-96-5	Manganese	440		06/30/2024	1914
7439-98-7	Molybdenum	4.2	U	06/30/2024	1914
7440-02-0	Nickel	10		06/30/2024	1914
7782-49-2	Selenium	2.9	U*	06/30/2024	1914
7440-22-4	Silver	0.84	U*	06/30/2024	1914
7440-28-0	Thallium	2.1	U*	06/30/2024	1914
7440-62-2	Vanadium	39		06/30/2024	1914
7440-66-6	Zinc	94	*	06/30/2024	1914

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

Comments:

EPA SAMPLE NO.

MYD4E2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51495 MA No. : 3208.0 SDG No.: MYD4C6

Matrix: SOIL Lab Sample ID: P2836-19

% Solids: 97 Date Received: 06/14/2024

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
7440-36-0	Antimony	2.6	J	06/30/2024	2322
7440-38-2	Arsenic	75		06/30/2024	2322
7440-39-3	Barium	100		06/30/2024	2322
7440-41-7	Beryllium	0.48	J	06/30/2024	2322
7440-43-9	Cadmium	0.67		06/30/2024	2322
7440-47-3	Chromium	15	*	06/30/2024	2322
7440-48-4	Cobalt	13		06/30/2024	2322
7440-50-8	Copper	58		06/30/2024	2322
7439-92-1	Lead	60		06/30/2024	2322
7439-96-5	Manganese	470		06/30/2024	2322
7439-98-7	Molybdenum	5.0	U	06/30/2024	2322
7440-02-0	Nickel	18		06/30/2024	2322
7782-49-2	Selenium	3.5	U*	06/30/2024	2322
7440-22-4	Silver	1.0	U*	06/30/2024	2322
7440-28-0	Thallium	2.5	U*	06/30/2024	2322
7440-62-2	Vanadium	42		06/30/2024	2322
7440-66-6	Zinc	160	*	06/30/2024	2322

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

Comments:

EPA SAMPLE NO.

MYD4E3

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51495 MA No. : 3208.0 SDG No.: MYD4C6

Matrix: SOIL Lab Sample ID: P2836-20

% Solids: 96.7 Date Received: 06/14/2024

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
7440-36-0	Antimony	1.9	J	06/30/2024	2326
7440-38-2	Arsenic	40		06/30/2024	2326
7440-39-3	Barium	87		06/30/2024	2326
7440-41-7	Beryllium	0.40	J	06/30/2024	2326
7440-43-9	Cadmium	0.47		06/30/2024	2326
7440-47-3	Chromium	9.5	*	06/30/2024	2326
7440-48-4	Cobalt	12		06/30/2024	2326
7440-50-8	Copper	48		06/30/2024	2326
7439-92-1	Lead	35		06/30/2024	2326
7439-96-5	Manganese	540		06/30/2024	2326
7439-98-7	Molybdenum	4.3	U	06/30/2024	2326
7440-02-0	Nickel	14		06/30/2024	2326
7782-49-2	Selenium	3.0	U*	06/30/2024	2326
7440-22-4	Silver	0.86	U*	06/30/2024	2326
7440-28-0	Thallium	2.2	U*	06/30/2024	2326
7440-62-2	Vanadium	46		06/30/2024	2326
7440-66-6	Zinc	110	*	06/30/2024	2326

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

Comments:

EPA SAMPLE NO.

MYD4E4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51495 MA No. : 3208.0 SDG No.: MYD4C6

Matrix: SOIL Lab Sample ID: P2836-21

% Solids: 96.8 Date Received: 06/14/2024

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
7440-36-0	Antimony	1.2	J	06/30/2024	2330
7440-38-2	Arsenic	23		06/30/2024	2330
7440-39-3	Barium	100		06/30/2024	2330
7440-41-7	Beryllium	0.47		06/30/2024	2330
7440-43-9	Cadmium	0.15	J	06/30/2024	2330
7440-47-3	Chromium	13	*	06/30/2024	2330
7440-48-4	Cobalt	11		06/30/2024	2330
7440-50-8	Copper	24		06/30/2024	2330
7439-92-1	Lead	15		06/30/2024	2330
7439-96-5	Manganese	510		06/30/2024	2330
7439-98-7	Molybdenum	3.9	U	06/30/2024	2330
7440-02-0	Nickel	16		06/30/2024	2330
7782-49-2	Selenium	2.7	U*	06/30/2024	2330
7440-22-4	Silver	0.78	U*	06/30/2024	2330
7440-28-0	Thallium	2.0	U*	06/30/2024	2330
7440-62-2	Vanadium	33		06/30/2024	2330
7440-66-6	Zinc	54	*	06/30/2024	2330

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

Comments:

EPA SAMPLE NO.

MYD4E5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51495 MA No. : 3208.0 SDG No.: MYD4C6

Matrix: SOIL Lab Sample ID: P2836-22

% Solids: 98.2 Date Received: 06/14/2024

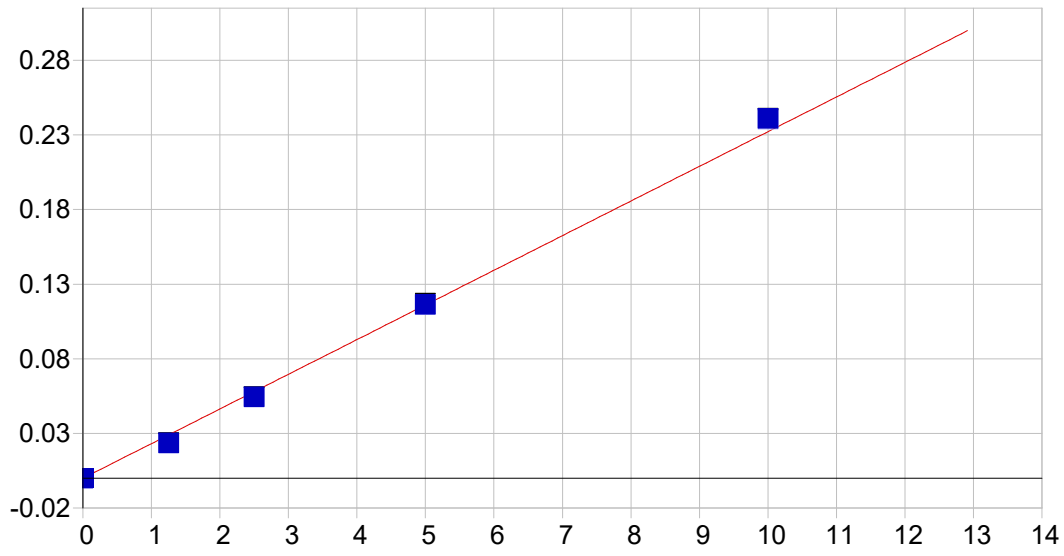
Analytical Method: ICP_AES

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
7440-36-0	Antimony	3.4	J	06/30/2024	2335
7440-38-2	Arsenic	100		06/30/2024	2335
7440-39-3	Barium	93		06/30/2024	2335
7440-41-7	Beryllium	0.47	J	06/30/2024	2335
7440-43-9	Cadmium	1.1		06/30/2024	2335
7440-47-3	Chromium	15	*	06/30/2024	2335
7440-48-4	Cobalt	18		06/30/2024	2335
7440-50-8	Copper	77		06/30/2024	2335
7439-92-1	Lead	95		06/30/2024	2335
7439-96-5	Manganese	590		06/30/2024	2335
7439-98-7	Molybdenum	4.8	U	06/30/2024	2335
7440-02-0	Nickel	21		06/30/2024	2335
7782-49-2	Selenium	3.3	U*	06/30/2024	2335
7440-22-4	Silver	0.95	U*	06/30/2024	2335
7440-28-0	Thallium	2.4	U*	06/30/2024	2335
7440-62-2	Vanadium	67		06/30/2024	2335
7440-66-6	Zinc	250	*	06/30/2024	2335

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

Comments:



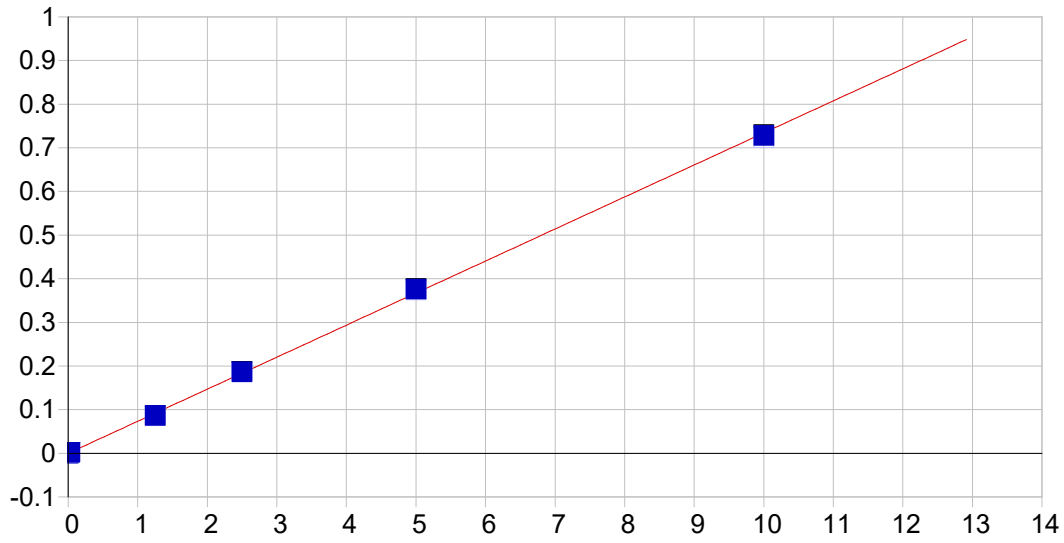
As 189.042 {479}

Date of Fit:	06/30/2024 14:49:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000088	Re-Slope:	1.000000
A1 (Gain):	0.023230	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998177	Status:	OK.
Std Error of Est:	0.000024		
Predicted MDL:	0.004997		
Predicted MQL:	0.016658		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00009	.000	1
S1	.01000	.01085	.001	8.48	.00016	.000	1
S2	1.2500	1.0138	-.236	-18.9	.02341	.000	1
S3	2.5000	2.3457	-.154	-6.17	.05429	.000	1
S4	5.0000	5.0151	.015	.301	.11619	.001	1
S5	10.000	10.375	.375	3.75	.24047	.000	1

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5



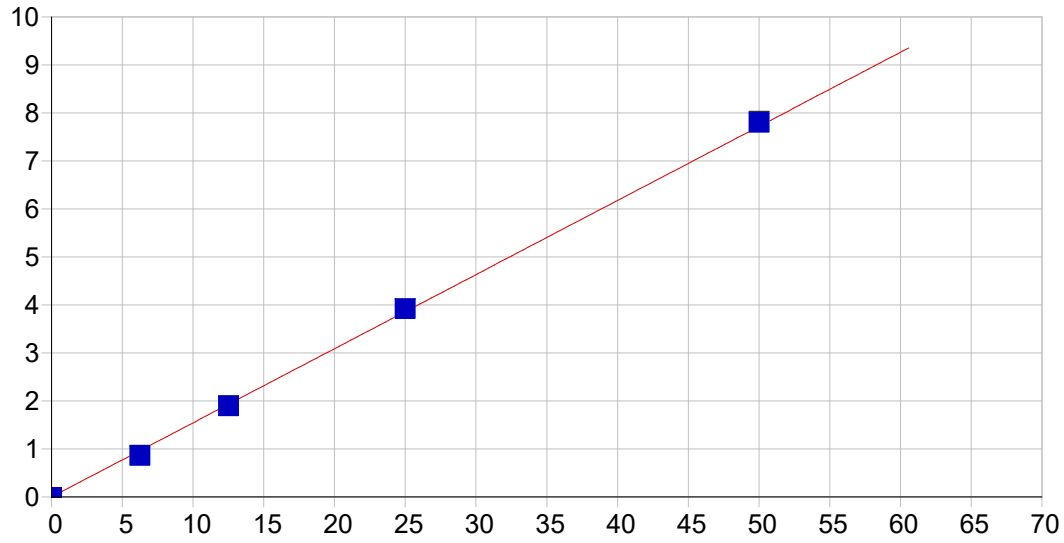
Tl 190.856 {477}

Date of Fit:	06/30/2024 14:49:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000008	Re-Slope:	1.000000
A1 (Gain):	0.073420	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999743	Status:	OK.
Std Error of Est:	0.000044		
Predicted MDL:	0.002118		
Predicted MQL:	0.007060		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00001	.000	1
S1	.02500	.02359	-.001	-5.66	.00168	.000	1
S2	1.2500	1.1706	-.079	-6.36	.08530	.000	1
S3	2.5000	2.5406	.041	1.62	.18526	.001	1
S4	5.0000	5.1233	.123	2.47	.37362	.001	1
S5	10.000	9.9169	-.083	-.831	.72303	.002	1

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

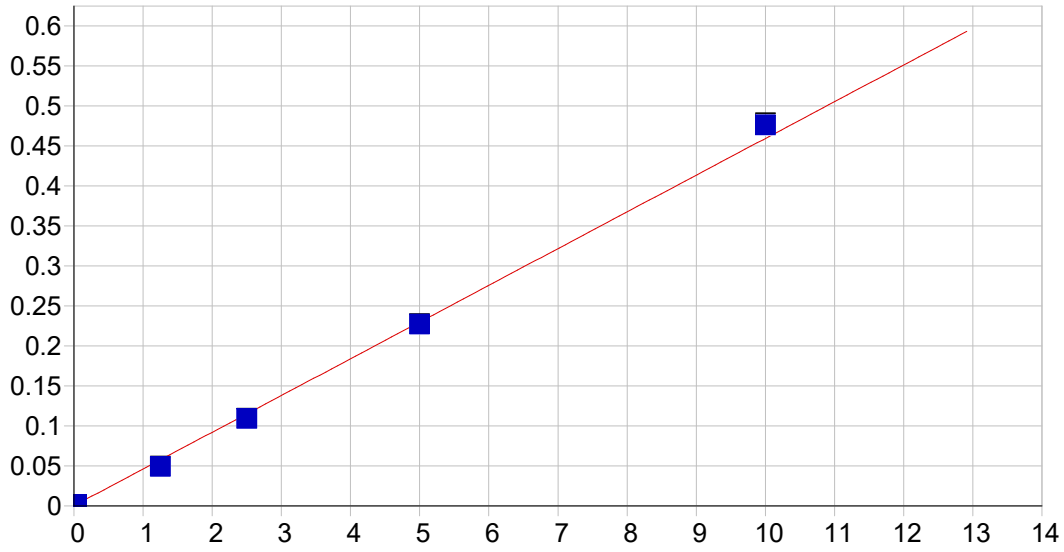


Pb 220.353 {453}

Date of Fit:	06/30/2024 14:49:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000134	Re-Slope:	1.000000
A1 (Gain):	0.154380	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999522	Status:	OK.
Std Error of Est:	0.000179		
Predicted MDL:	0.002016		
Predicted MQL:	0.006719		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00013	.000	1
S1	.01000	.00838	-.002	-16.2	.00143	.000	1
S2	6.2500	5.5692	-.681	-10.9	.86041	.004	1
S3	12.500	12.276	-.224	-1.79	1.8963	.008	1
S4	25.000	25.378	.378	1.51	3.9200	.008	1
S5	50.000	50.529	.529	1.06	7.8048	.022	1



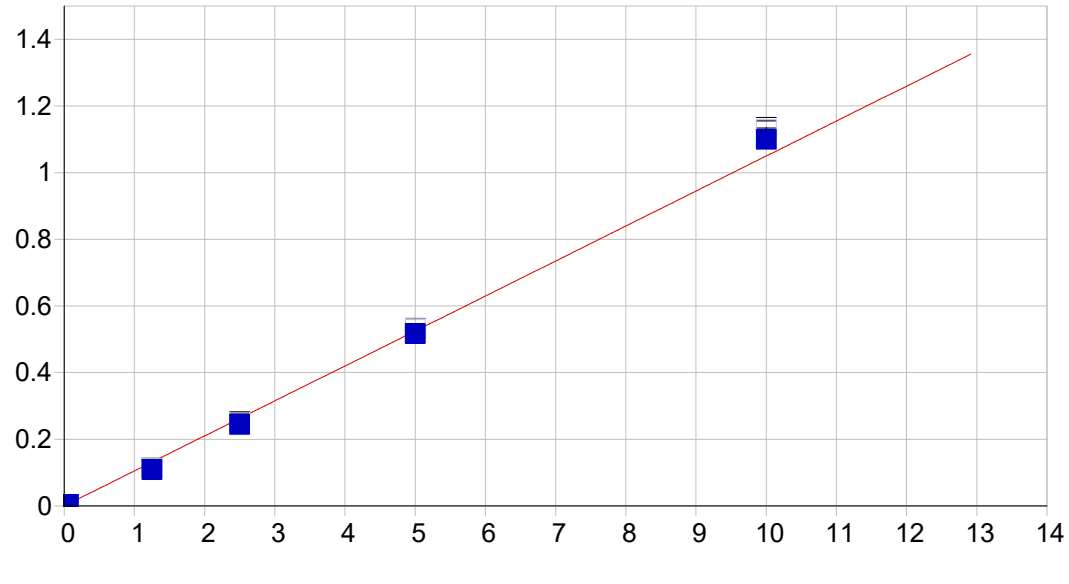
Se 196.090 {472}

Date of Fit:	06/30/2024 14:49:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000286	Re-Slope:	1.000000
A1 (Gain):	0.045919	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998712	Status:	OK.
Std Error of Est:	0.000073		
Predicted MDL:	0.005073		
Predicted MQL:	0.016910		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00029	.000	1
S1	.03500	.03541	.000	1.17	.00191	.000	1
S2	1.2500	1.0655	-.184	-14.8	.04911	.001	1
S3	2.5000	2.3685	-.131	-5.26	.10883	.001	1
S4	5.0000	4.9468	-.053	-1.06	.22700	.000	1
S5	10.000	10.369	.369	3.69	.47553	.002	1

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5



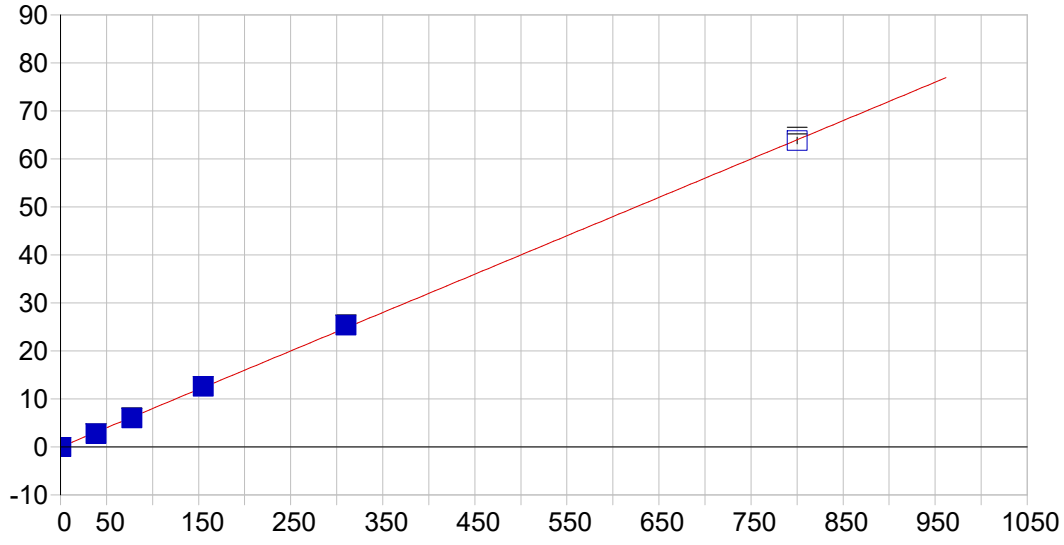
Sb 206.833 {463}

Date of Fit:	06/30/2024 14:49:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000117	Re-Slope:	1.000000
A1 (Gain):	0.104967	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998148	Status:	OK.
Std Error of Est:	0.000271		
Predicted MDL:	0.002567		
Predicted MQL:	0.008557		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.00012	.000	1
S1	.06000	.05490	-.005	-8.51	.00588	.000	1
S2	1.2500	1.0343	-.216	-17.3	.11256	.000	1
S3	2.5000	2.3221	-.178	-7.11	.25161	.002	1
S4	5.0000	4.9237	-.076	-1.53	.53243	.001	1
S5	10.000	10.475	.475	4.75	1.1306	.005	1

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5



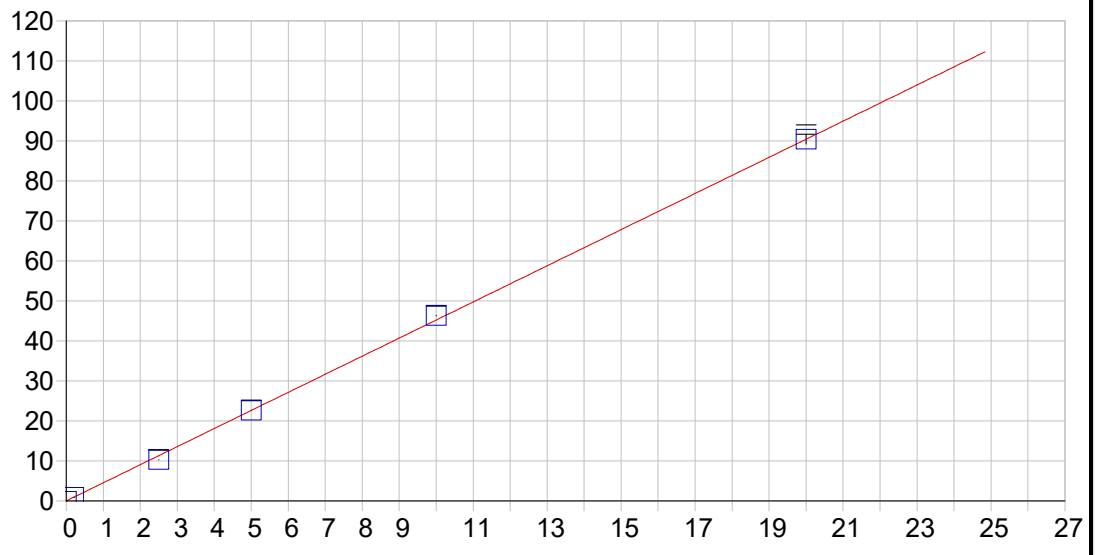
Al 396.152 { 85}

Date of Fit:	06/30/2024 14:54:32	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001562	Re-Slope:	1.000000
A1 (Gain):	0.079978	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999701	Status:	OK.
Std Error of Est:	0.001217		
Predicted MDL:	0.013915		
Predicted MQL:	0.046383		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00004	.000	.000	-.00156	.000	1
S1	.20000	.18593	-.014	-7.04	.01334	.000	1
S2	38.750	34.145	-4.61	-11.9	2.7330	.017	1
S3	77.500	74.865	-2.63	-3.40	5.9935	.041	1
S4	155.00	157.25	2.25	1.45	12.590	.028	1
S5	310.00	316.90	6.90	2.22	25.373	.099	1
S6	800.00	798.11	-1.89	-.237	63.830	.706	1

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5



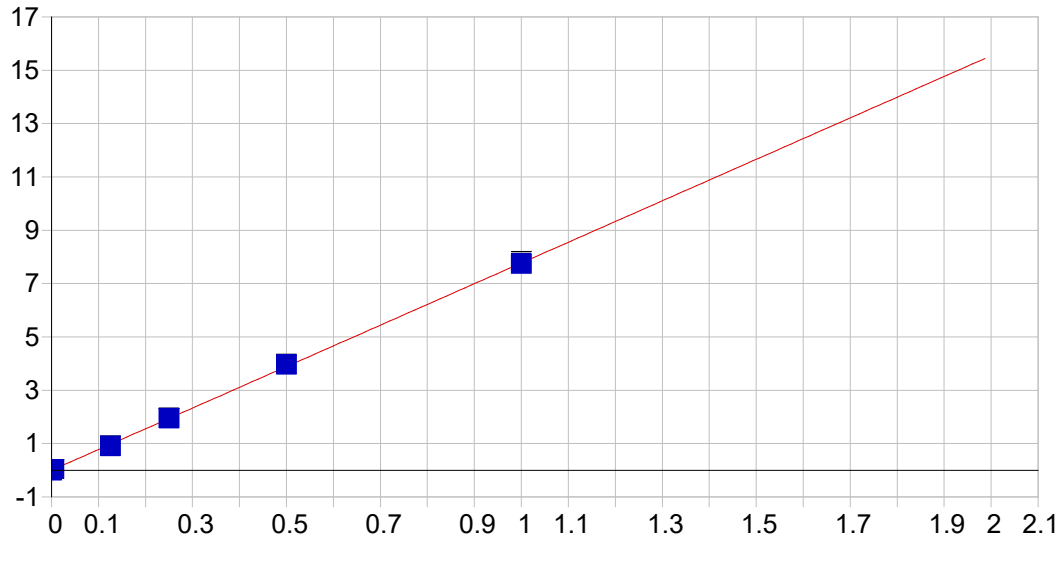
Ba 493.409 { 68}

Date of Fit:	06/30/2024 14:49:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.012028	Re-Slope:	1.000000
A1 (Gain):	4.520304	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999655	Status:	OK.
Std Error of Est:	0.012627		
Predicted MDL:	0.000605		
Predicted MQL:	0.002016		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	.01210	.002	1
S1	.20000	.19684	-.003	-1.58	.90181	.002	1
S2	2.5000	2.2757	-.224	-8.97	10.299	.034	1
S3	5.0000	4.9982	-.002	-.036	22.605	.075	1
S4	10.000	10.242	.242	2.42	46.309	.085	1
S5	20.000	19.987	-.013	-.064	90.361	1.12	1

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5



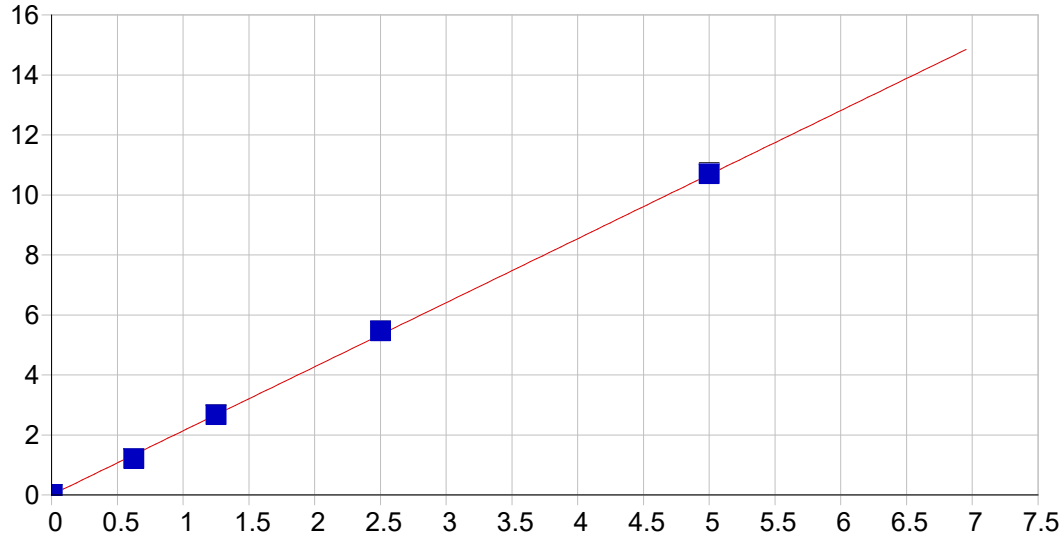
Be 234.861 {144}

Date of Fit:	06/30/2024 14:49:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000211	Re-Slope:	1.000000
A1 (Gain):	7.772098	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999776	Status:	OK.
Std Error of Est:	0.000616		
Predicted MDL:	0.000086		
Predicted MQL:	0.000288		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00021	.000	1
S1	.00500	.00518	.000	3.62	.04003	.000	1
S2	.12500	.11636	-.009	-6.92	.90255	.011	1
S3	.25000	.25049	.000	.198	1.9435	.007	1
S4	.50000	.51062	.011	2.12	3.9621	.007	1
S5	1.0000	.99735	-.003	-.265	7.7388	.083	1

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5



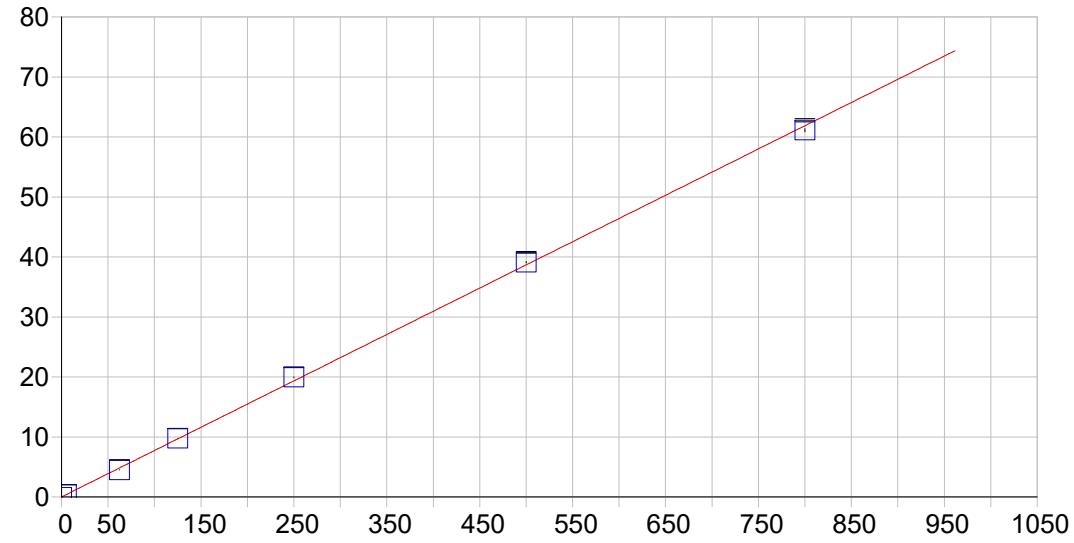
Cd 214.438 {457}

Date of Fit:	06/30/2024 14:49:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000549	Re-Slope:	1.000000
A1 (Gain):	2.135300	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999627	Status:	OK.
Std Error of Est:	0.000490		
Predicted MDL:	0.000100		
Predicted MQL:	0.000334		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00055	.000	1
S1	.00500	.00484	-.000	-3.25	.01089	.000	1
S2	.62500	.56481	-.060	-9.63	1.2098	.006	1
S3	1.2500	1.2465	-.003	-.278	2.6687	.008	1
S4	2.5000	2.5551	.055	2.20	5.4693	.008	1
S5	5.0000	5.0087	.009	.174	10.721	.020	1

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5



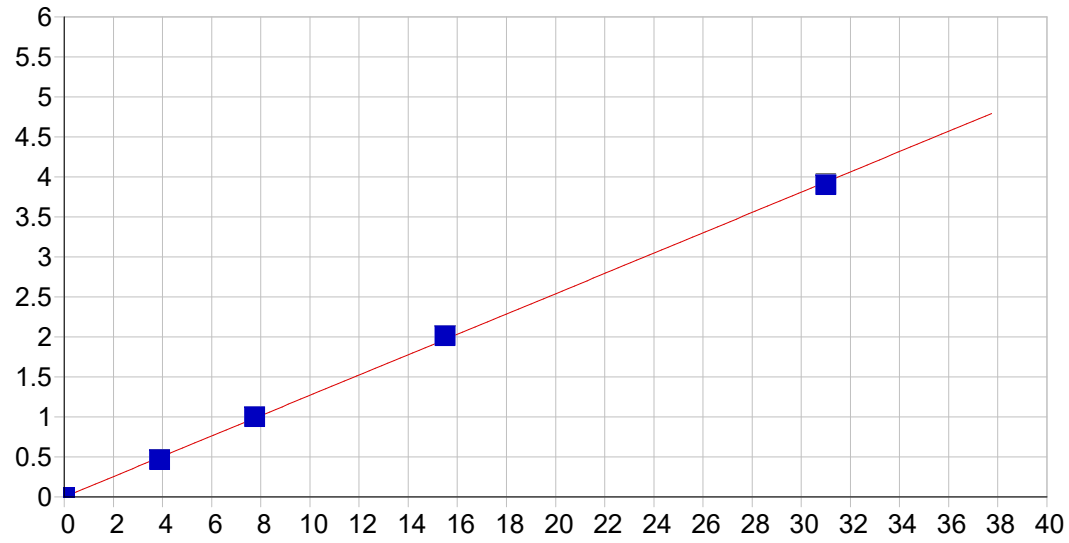
Ca 373.690 { 90}

Date of Fit:	06/30/2024 14:54:32	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.005126	Re-Slope:	1.000000
A1 (Gain):	0.077331	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999778	Status:	OK.
Std Error of Est:	0.005685		
Predicted MDL:	0.013754		
Predicted MQL:	0.045846		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00008	.000	.000	.00513	.001	1
S1	5.0000	5.0991	.099	1.98	.39945	.003	1
S2	62.500	57.961	-4.54	-7.26	4.4873	.024	1
S3	125.00	125.82	.822	.658	9.7351	.050	1
S4	250.00	257.90	7.90	3.16	19.949	.035	1
S5	500.00	505.63	5.63	1.13	39.106	.125	1
S6	800.00	790.09	-9.91	-1.24	61.104	.274	1

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5



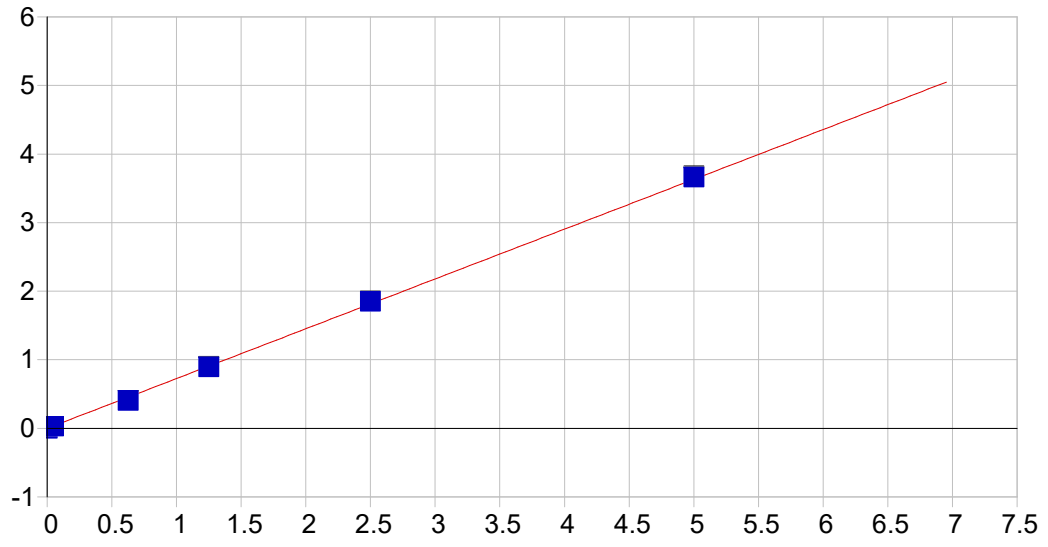
Cr 267.716 {126}

Date of Fit:	06/30/2024 14:49:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000057	Re-Slope:	1.000000
A1 (Gain):	0.126969	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999774	Status:	OK.
Std Error of Est:	0.000080		
Predicted MDL:	0.001104		
Predicted MQL:	0.003680		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00006	.000	1
S1	.01000	.01015	.000	1.54	.00135	.000	1
S2	3.8750	3.6506	-.224	-5.79	.46388	.001	1
S3	7.7500	7.8907	.141	1.82	1.0026	.001	1
S4	15.500	15.859	.359	2.32	2.0150	.003	1
S5	31.000	30.724	-.276	-.890	3.9036	.008	1

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5



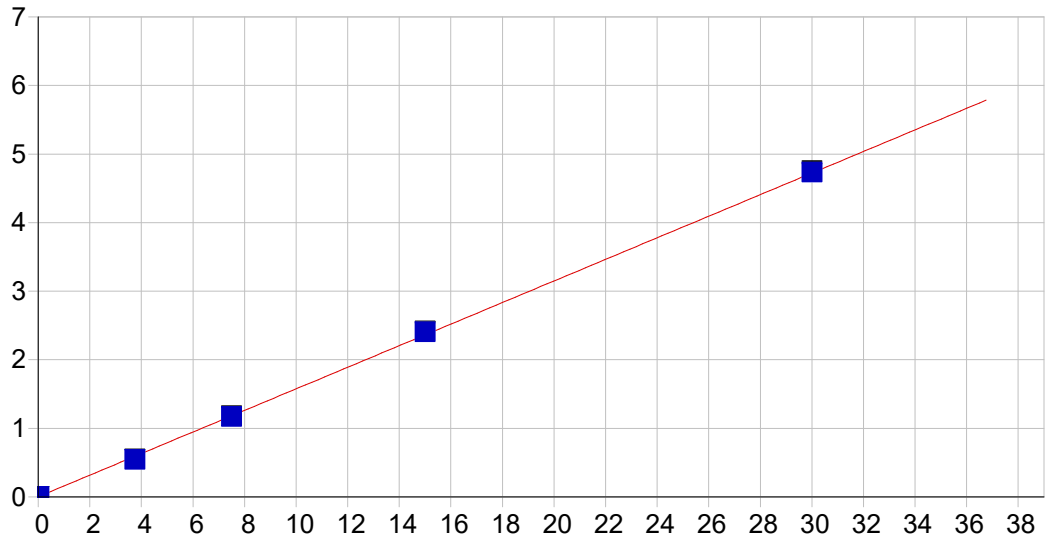
Co 228.616 {448}

Date of Fit:	06/30/2024 14:49:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000198	Re-Slope:	1.000000
A1 (Gain):	0.726224	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999488	Status:	OK.
Std Error of Est:	0.000618		
Predicted MDL:	0.000302		
Predicted MQL:	0.001008		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	-.00019	.000	1
S1	.05000	.04532	-.005	-9.35	.03284	.000	1
S2	.62500	.55537	-.070	-11.1	.40368	.001	1
S3	1.2500	1.2334	-.017	-1.32	.89666	.005	1
S4	2.5000	2.5469	.047	1.88	1.8516	.003	1
S5	5.0000	5.0440	.044	.880	3.6673	.011	1

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5



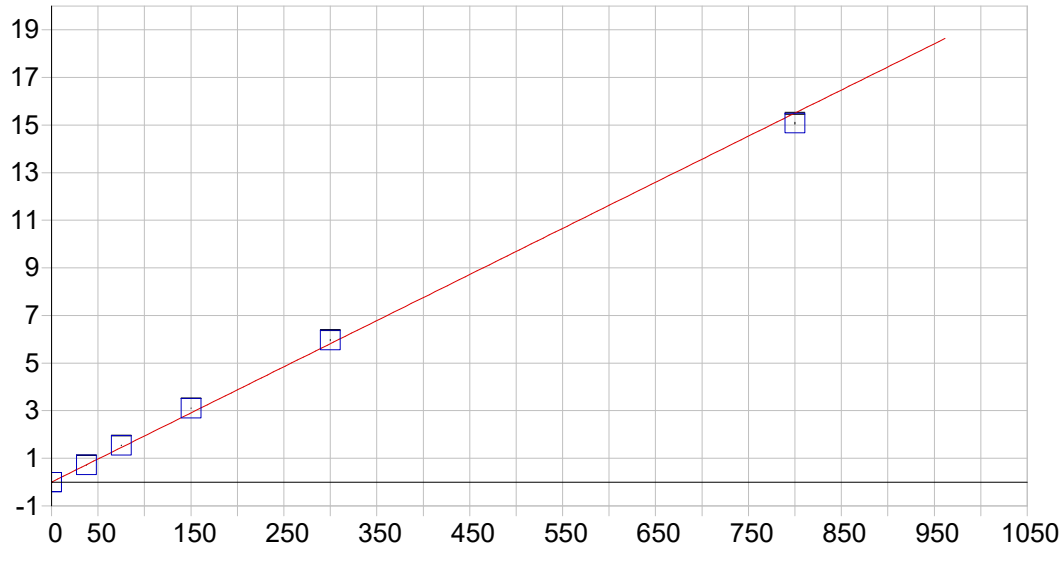
Cu 324.754 {104}

Date of Fit:	06/30/2024 14:49:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.002634	Re-Slope:	1.000000
A1 (Gain):	0.157335	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999713	Status:	OK.
Std Error of Est:	0.000173		
Predicted MDL:	0.003730		
Predicted MQL:	0.012432		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.00263	.000	1
S1	.02500	.03172	.007	26.9	.00762	.000	1
S2	3.7500	3.4481	-.302	-8.05	.54477	.004	1
S3	7.5000	7.4270	-.073	-.974	1.1704	.009	1
S4	15.000	15.278	.278	1.85	2.4049	.012	1
S5	30.000	30.090	.090	.301	4.7339	.019	1

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5



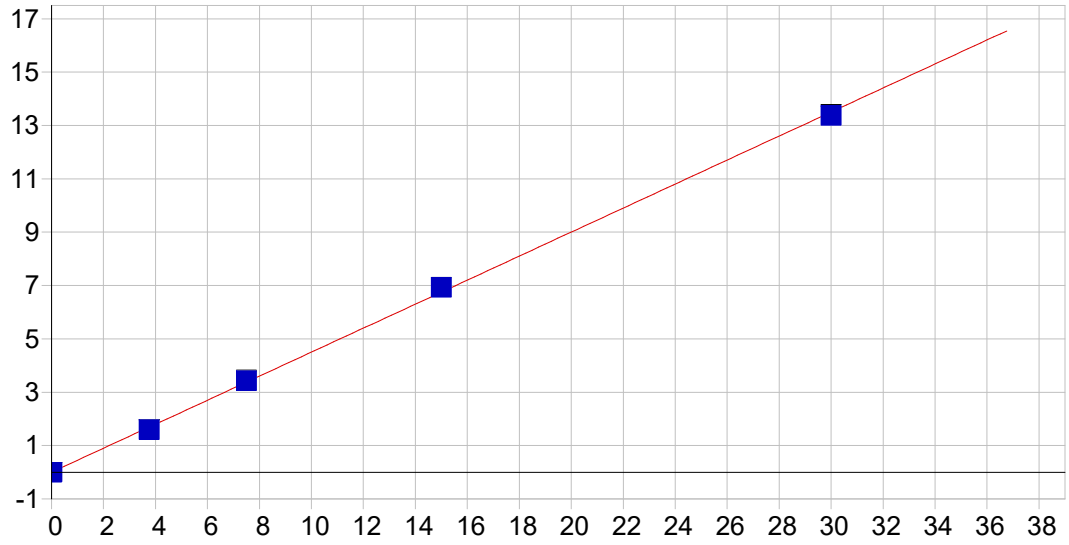
Fe 259.837 {130}

Date of Fit:	06/30/2024 14:54:32	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000107	Re-Slope:	1.000000
A1 (Gain):	0.019381	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999349	Status:	OK.
Std Error of Est:	0.000305		
Predicted MDL:	0.016409		
Predicted MQL:	0.054696		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	.00011	.001	1
S1	.10000	.11360	.014	13.6	.00231	.000	1
S2	37.500	36.886	-.614	-1.64	.71498	.006	1
S3	75.000	79.378	4.38	5.84	1.5385	.010	1
S4	150.00	160.22	10.2	6.81	3.1052	.003	1
S5	300.00	307.95	7.95	2.65	5.9684	.020	1
S6	800.00	778.06	-21.9	-2.74	15.079	.043	1

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

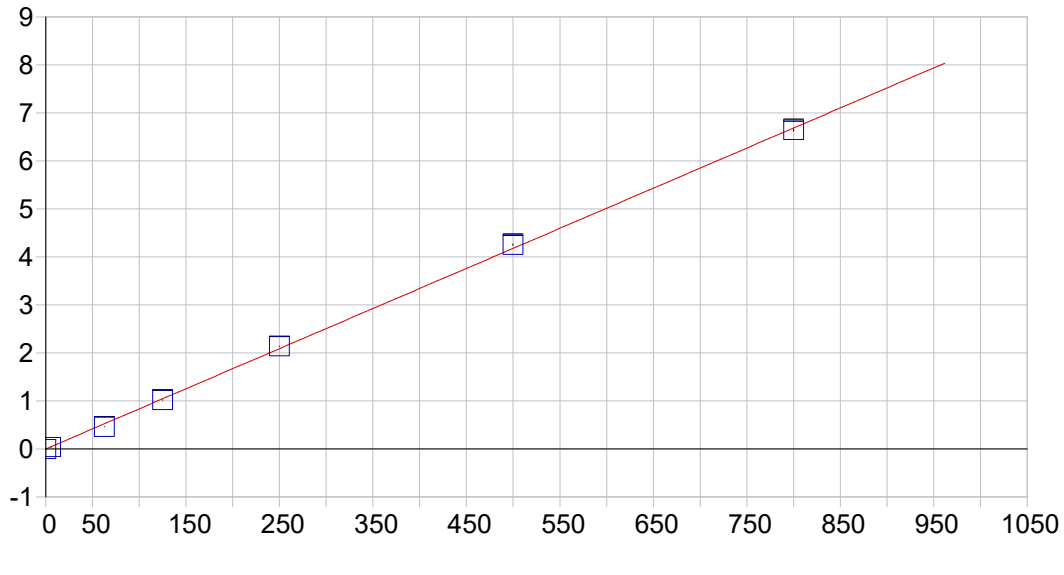


Mn 257.610 {131}

Date of Fit:	06/30/2024 14:49:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000133	Re-Slope:	1.000000
A1 (Gain):	0.450150	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999770	Status:	OK.
Std Error of Est:	0.000344		
Predicted MDL:	0.000714		
Predicted MQL:	0.002380		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00013	.000	1
S1	.01500	.01553	.001	3.52	.00714	.000	1
S2	3.7500	3.5463	-.204	-5.43	1.5968	.008	1
S3	7.5000	7.6219	.122	1.62	3.4316	.018	1
S4	15.000	15.384	.384	2.56	6.9261	.010	1
S5	30.000	29.698	-.302	-1.01	13.371	.036	1

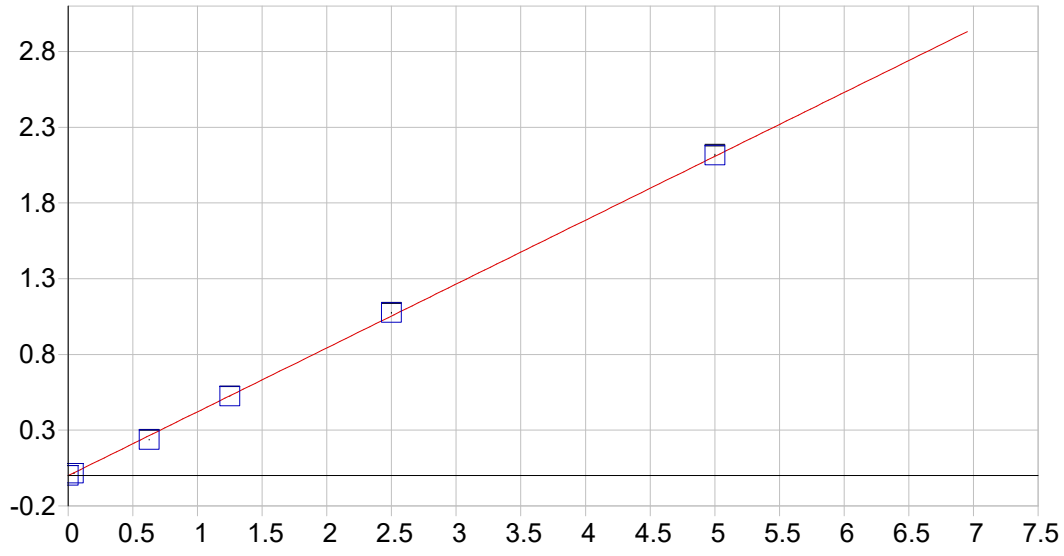


Mg 279.079 {121}

Date of Fit:	06/30/2024 14:54:32	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000294	Re-Slope:	1.000000
A1 (Gain):	0.008357	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999656	Status:	OK.
Std Error of Est:	0.000765		
Predicted MDL:	0.045628		
Predicted MQL:	0.152092		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00061	.001	.000	-.00029	.000	1
S1	5.0000	4.8924	-.108	-2.15	.04059	.000	1
S2	62.500	55.429	-7.07	-11.3	.46292	.003	1
S3	125.00	122.19	-2.81	-2.25	1.0208	.006	1
S4	250.00	255.83	5.83	2.33	2.1377	.004	1
S5	500.00	509.13	9.13	1.83	4.2545	.017	1
S6	800.00	795.02	-4.98	-.622	6.6436	.025	1



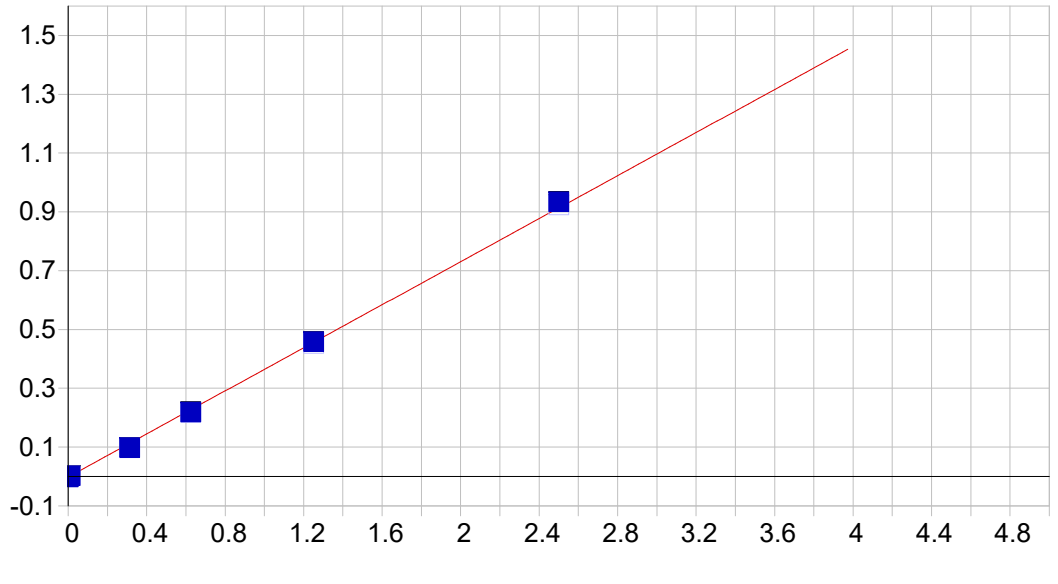
Ni 231.604 {446}

Date of Fit:	06/30/2024 14:49:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000192	Re-Slope:	1.000000
A1 (Gain):	0.421590	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999600	Status:	OK.
Std Error of Est:	0.000283		
Predicted MDL:	0.000551		
Predicted MQL:	0.001835		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00019	.000	1
S1	.04000	.03838	-.002	-4.04	.01599	.000	1
S2	.62500	.56209	-.063	-10.1	.23678	.002	1
S3	1.2500	1.2434	-.007	-.528	.52401	.001	1
S4	2.5000	2.5506	.051	2.03	1.0751	.003	1
S5	5.0000	5.0205	.020	.410	2.1164	.006	1

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5



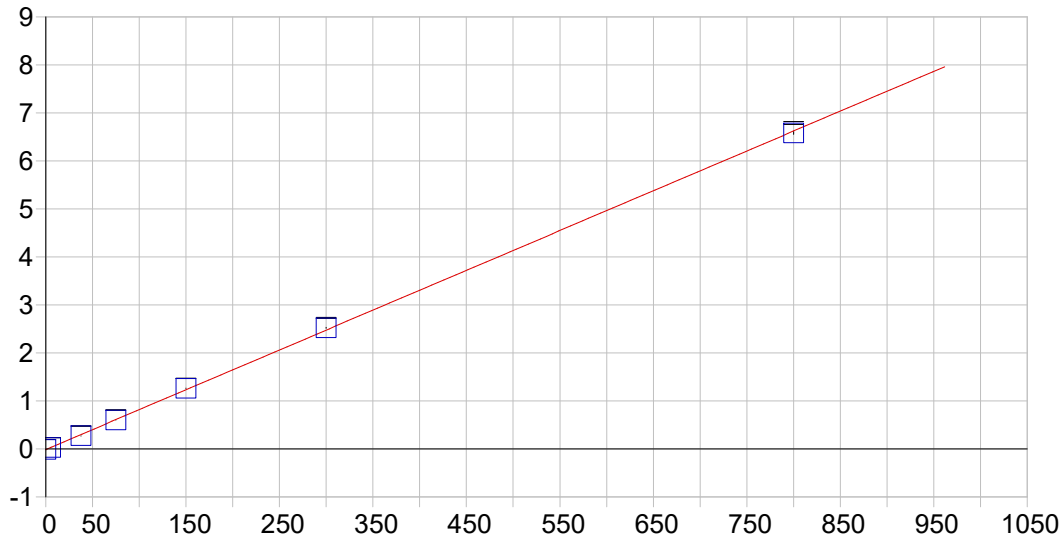
Ag 328.068 {103}

Date of Fit:	06/30/2024 14:49:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001525	Re-Slope:	1.000000
A1 (Gain):	0.366008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999210	Status:	OK.
Std Error of Est:	0.000121		
Predicted MDL:	0.000478		
Predicted MQL:	0.001593		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00152	.000	1
S1	.01000	.00978	-.000	-2.24	.00203	.000	1
S2	.31250	.27237	-.040	-12.8	.09679	.000	1
S3	.62500	.60317	-.022	-3.49	.21649	.001	1
S4	1.2500	1.2550	.005	.400	.45231	.001	1
S5	2.5000	2.5572	.057	2.29	.92342	.001	1

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5



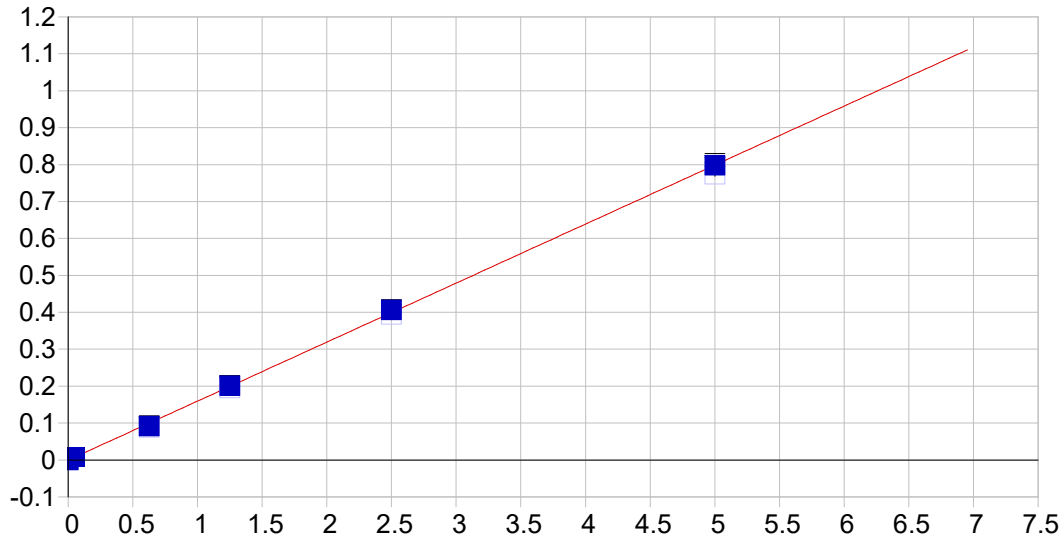
Na 818.326 { 41}

Date of Fit:	06/30/2024 14:54:32	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.011842	Re-Slope:	1.000000
A1 (Gain):	0.008292	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999799	Status:	OK.
Std Error of Est:	0.000514		
Predicted MDL:	0.278706		
Predicted MQL:	0.929021		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00039	.000	.000	-.01184	.001	1
S1	5.0000	4.9536	-.046	-.928	.02923	.002	1
S2	37.500	33.992	-3.51	-9.35	.27003	.001	1
S3	75.000	74.170	-.830	-1.11	.60319	.003	1
S4	150.00	153.52	3.52	2.35	1.2612	.003	1
S5	300.00	305.53	5.53	1.84	2.5217	.009	1
S6	800.00	795.33	-4.67	-.584	6.5832	.033	1

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5



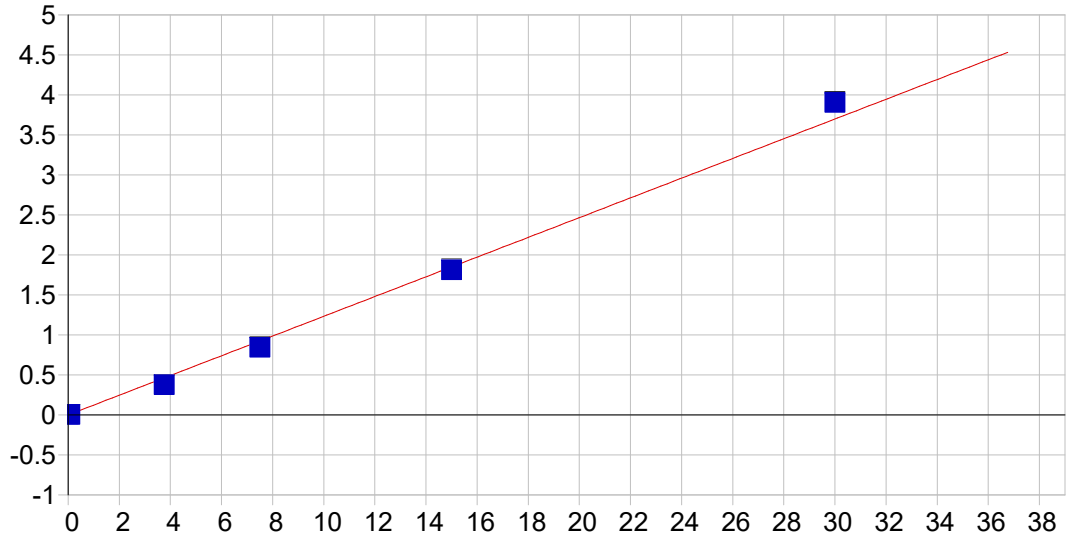
V 292.402 {115}

Date of Fit:	06/30/2024 14:49:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000373	Re-Slope:	1.000000
A1 (Gain):	0.159807	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999711	Status:	OK.
Std Error of Est:	0.000099		
Predicted MDL:	0.003158		
Predicted MQL:	0.010528		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00037	.000	1
S1	.05000	.05357	.004	7.13	.00817	.000	1
S2	.62500	.57472	-.050	-8.04	.08840	.001	1
S3	1.2500	1.2573	.007	.580	.19441	.001	1
S4	2.5000	2.5441	.044	1.76	.39391	.001	1
S5	5.0000	4.9953	-.005	-.094	.77336	.005	1

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5



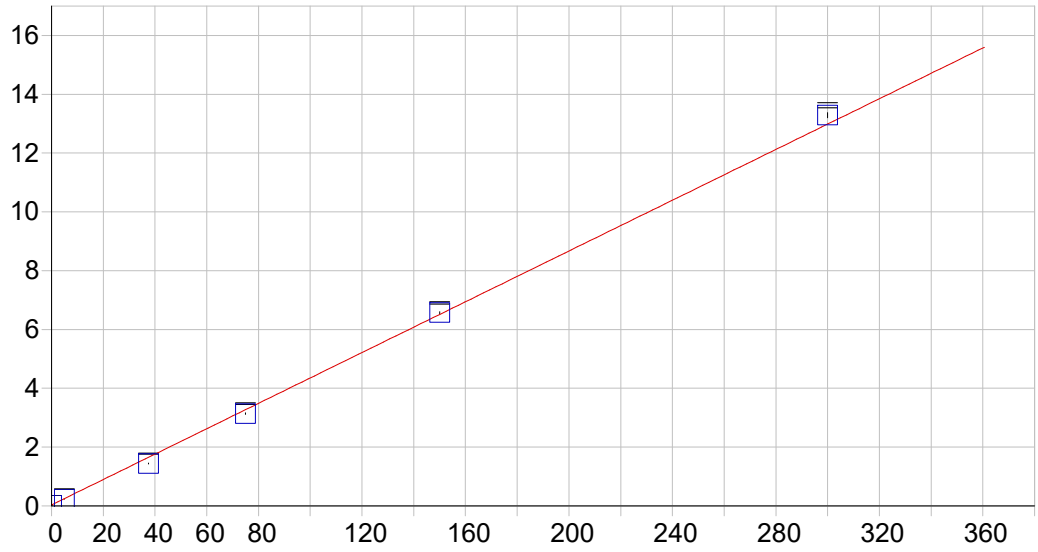
Zn 213.856 {158}

Date of Fit:	06/30/2024 14:49:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000294	Re-Slope:	1.000000
A1 (Gain):	0.123315	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.997438	Status:	OK.
Std Error of Est:	0.000630		
Predicted MDL:	0.006566		
Predicted MQL:	0.021887		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00003	.000	.000	-.00029	.001	1
S1	.06000	.04696	-.013	-21.7	.00553	.000	1
S2	3.7500	3.0409	-.709	-18.9	.37525	.005	1
S3	7.5000	6.8509	-.649	-8.65	.84565	.003	1
S4	15.000	14.712	-.288	-1.92	1.8162	.007	1
S5	30.000	31.659	1.66	5.53	3.9082	.007	1

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5



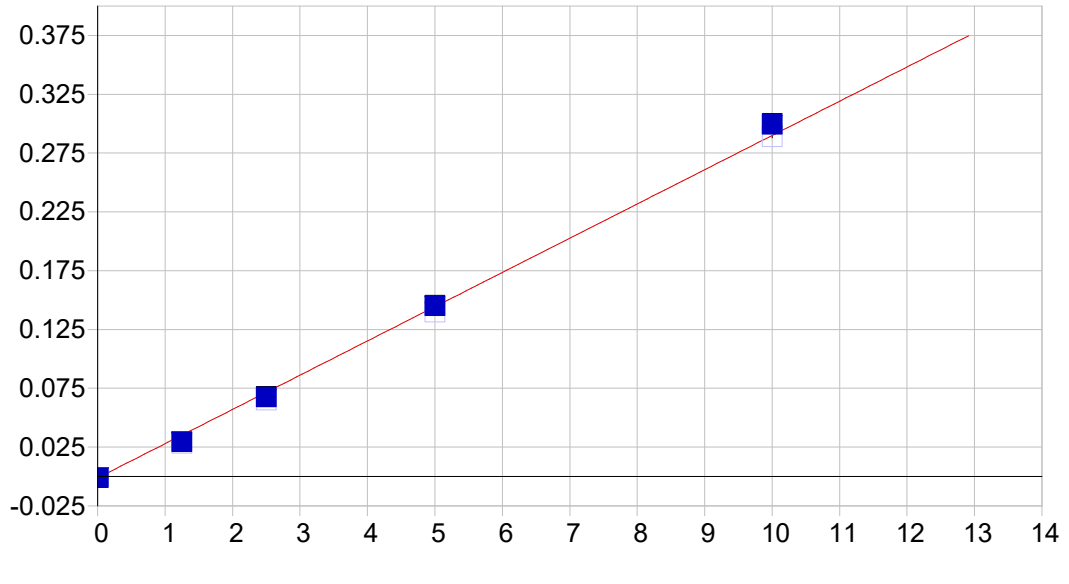
K 769.896 { 44}

Date of Fit:	06/30/2024 14:49:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.034802	Re-Slope:	1.000000
A1 (Gain):	0.043171	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999116	Status:	OK.
Std Error of Est:	0.003745		
Predicted MDL:	0.088026		
Predicted MQL:	0.293420		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00111	.001	.000	.03485	.002	1
S1	5.0000	4.5945	-.406	-8.11	.23315	.002	1
S2	37.500	32.545	-4.96	-13.2	1.4398	.014	1
S3	75.000	71.819	-3.18	-4.24	3.1353	.027	1
S4	150.00	151.44	1.44	.962	6.5727	.037	1
S5	300.00	307.10	7.10	2.37	13.292	.087	1

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5



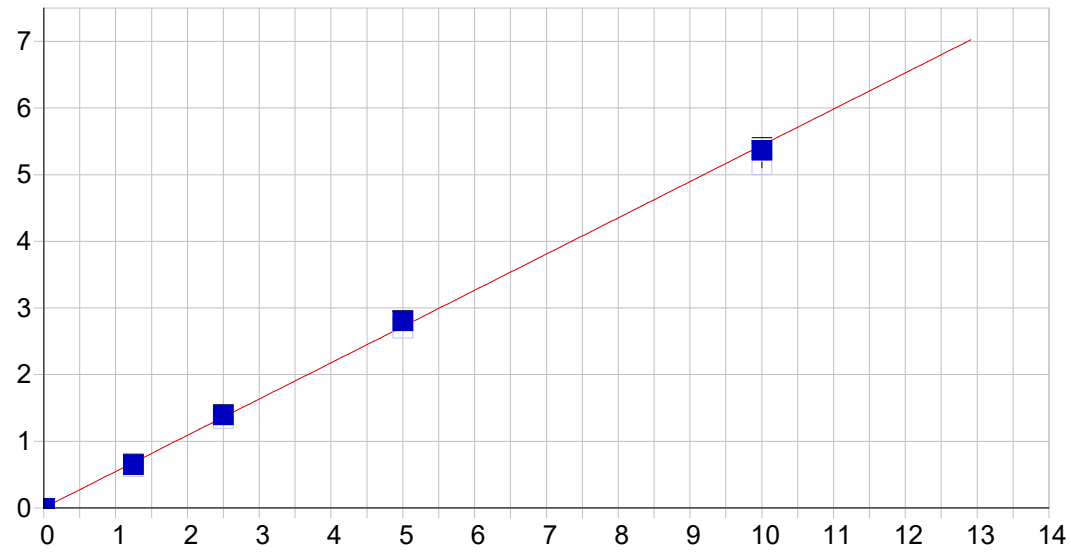
P 177.495 {490}

Date of Fit:	06/30/2024 14:49:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001219	Re-Slope:	1.000000
A1 (Gain):	0.029120	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998545	Status:	OK.
Std Error of Est:	0.000025		
Predicted MDL:	0.004029		
Predicted MQL:	0.013431		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00122	.000	1
S1	.01000	.00992	-.000	-.837	-.00094	.000	1
S2	1.2500	1.0475	-.203	-16.2	.02795	.000	1
S3	2.5000	2.3622	-.138	-5.51	.06489	.000	1
S4	5.0000	5.0194	.019	.389	.13959	.001	1
S5	10.000	10.321	.321	3.21	.28862	.001	1

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5



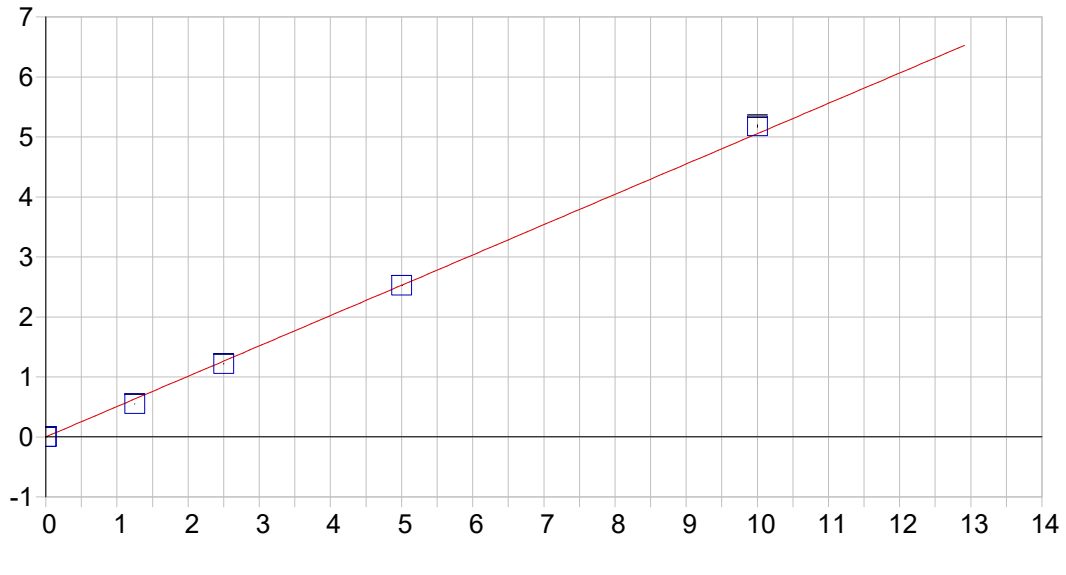
B 249.678 {135}

Date of Fit:	06/30/2024 14:49:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001885	Re-Slope:	1.000000
A1 (Gain):	0.543844	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999353	Status:	OK.
Std Error of Est:	0.000315		
Predicted MDL:	0.001157		
Predicted MQL:	0.003856		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00189	.000	1
S1	.01000	-.00074	-.011	-107.	.00143	.000	1
S2	1.2500	1.1891	-.061	-4.87	.62111	.008	1
S3	2.5000	2.5569	.057	2.28	1.3376	.005	1
S4	5.0000	5.1528	.153	3.06	2.6944	.003	1
S5	10.000	9.8623	-.138	-1.38	5.1460	.042	1

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5



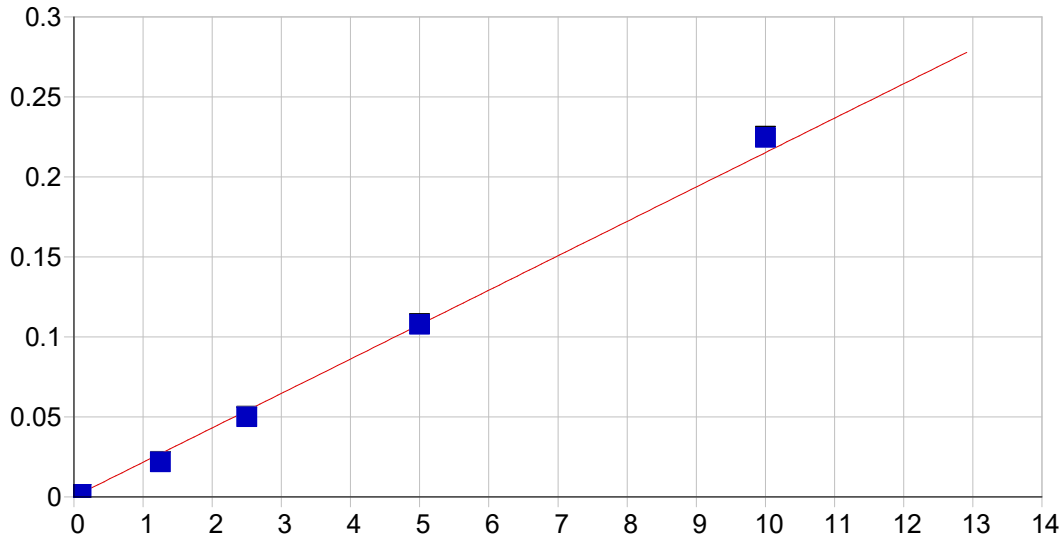
Mo 202.030 {467}

Date of Fit:	06/30/2024 14:49:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000185	Re-Slope:	1.000000
A1 (Gain):	0.505375	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999198	Status:	OK.
Std Error of Est:	0.000340		
Predicted MDL:	0.000476		
Predicted MQL:	0.001586		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00019	.000	1
S1	.01000	.00927	-.001	-7.29	.00487	.000	1
S2	1.2500	1.0903	-.160	-12.8	.55120	.003	1
S3	2.5000	2.4106	-.089	-3.58	1.2184	.006	1
S4	5.0000	4.9954	-.005	-.093	2.5247	.001	1
S5	10.000	10.254	.254	2.54	5.1825	.020	1

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

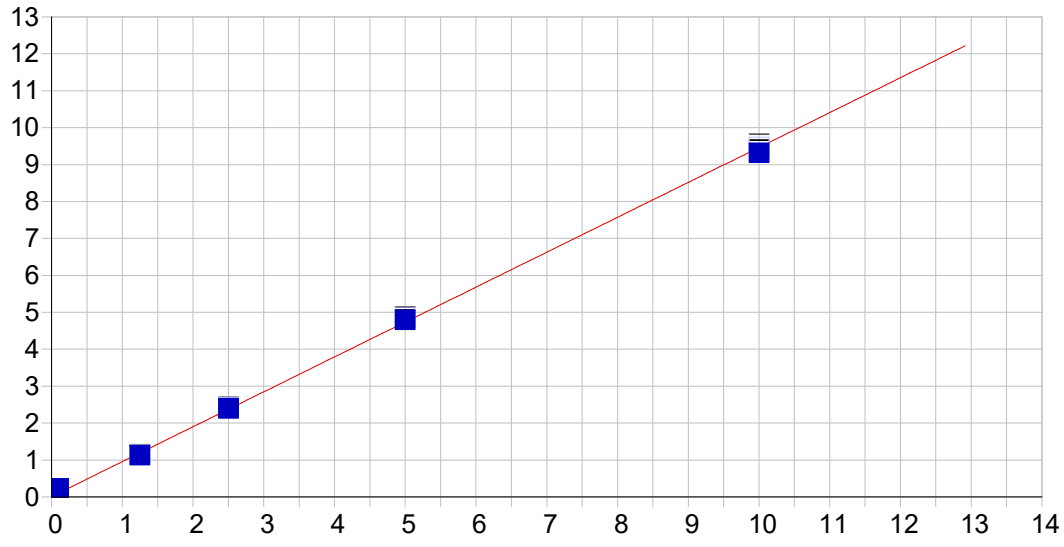


S 182.034 {485}

Date of Fit:	06/30/2024 14:49:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000138	Re-Slope:	1.000000
A1 (Gain):	0.021506	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.997827	Status:	OK.
Std Error of Est:	0.000075		
Predicted MDL:	0.005602		
Predicted MQL:	0.018675		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00004	.000	.000	.00014	.000	1
S1	.10000	.08026	-.020	-19.7	.00186	.000	1
S2	1.2500	1.0102	-.240	-19.2	.02187	.000	1
S3	2.5000	2.3175	-.182	-7.30	.04998	.000	1
S4	5.0000	5.0068	.007	.135	.10782	.000	1
S5	10.000	10.435	.435	4.35	.22458	.001	1



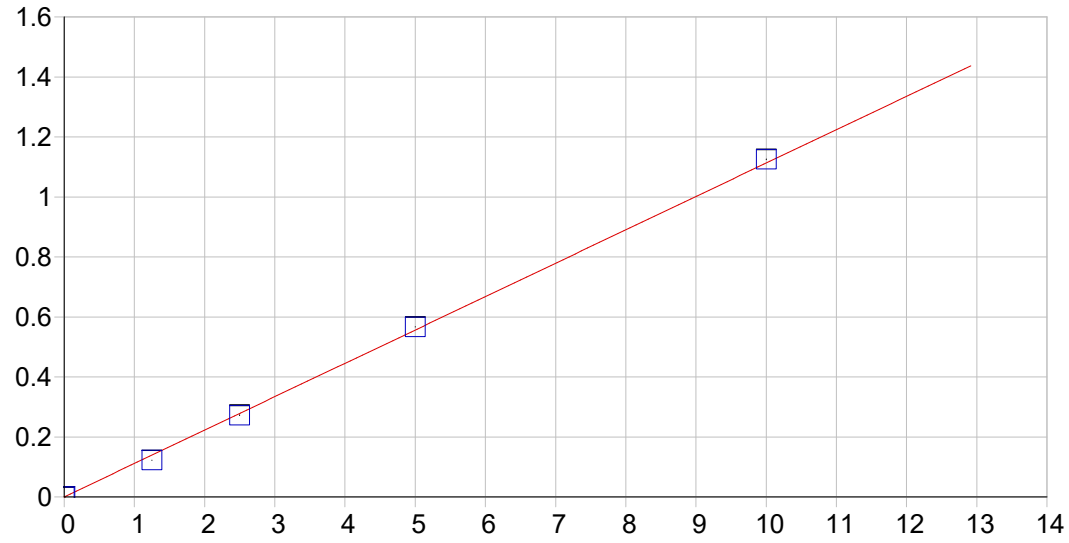
Si 251.611 {134}

Date of Fit:	06/30/2024 14:49:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.009451	Re-Slope:	1.000000
A1 (Gain):	0.945357	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.994552	Status:	OK.
Std Error of Est:	0.005350		
Predicted MDL:	0.000639		
Predicted MQL:	0.002131		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00014	-.000	.000	.00932	.000	1
S1	.10000	.24368	.144	144.	.24045	.003	1
S2	1.2500	1.1798	-.070	-5.61	1.1439	.012	1
S3	2.5000	2.5179	.018	.717	2.4280	.008	1
S4	5.0000	5.0616	.062	1.23	4.8709	.011	1
S5	10.000	9.8483	-.152	-1.52	9.4725	.087	1

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5



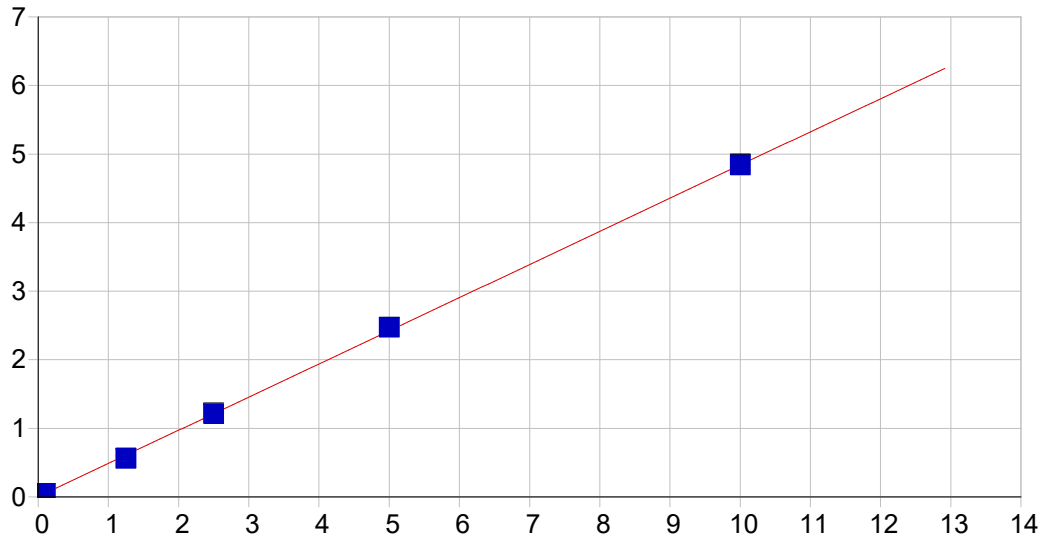
Sn 189.989 {478}

Date of Fit:	06/30/2024 14:49:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000185	Re-Slope:	1.000000
A1 (Gain):	0.111251	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999387	Status:	OK.
Std Error of Est:	0.000055		
Predicted MDL:	0.001238		
Predicted MQL:	0.004127		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00018	.000	1
S1	.00700	.00661	-.000	-5.51	.00092	.000	1
S2	1.2500	1.0966	-.153	-12.3	.12218	.000	1
S3	2.5000	2.4469	-.053	-2.12	.27240	.001	1
S4	5.0000	5.0937	.094	1.87	.56687	.001	1
S5	10.000	10.113	.113	1.13	1.1253	.001	1

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

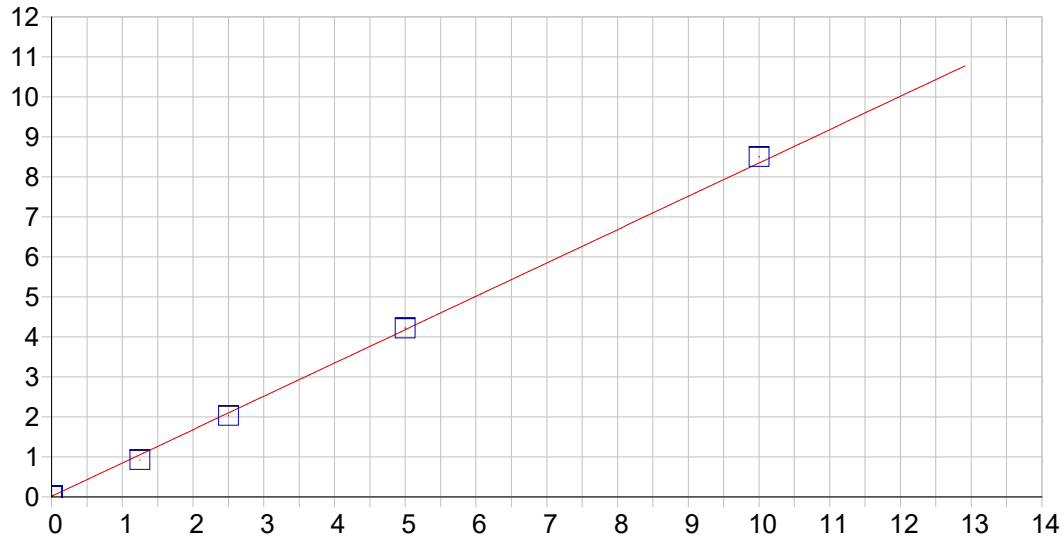


Ti 336.121 {100}

Date of Fit:	06/30/2024 14:49:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004536	Re-Slope:	1.000000
A1 (Gain):	0.483534	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999736	Status:	OK.
Std Error of Est:	0.000590		
Predicted MDL:	0.001396		
Predicted MQL:	0.004652		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00454	.000	1
S1	.10000	.09822	-.002	-1.78	.05201	.000	1
S2	1.2500	1.1511	-.099	-7.92	.56081	.004	1
S3	2.5000	2.5004	.000	.016	1.2130	.009	1
S4	5.0000	5.1017	.102	2.03	2.4702	.002	1
S5	10.000	9.9986	-.001	-.014	4.8368	.015	1

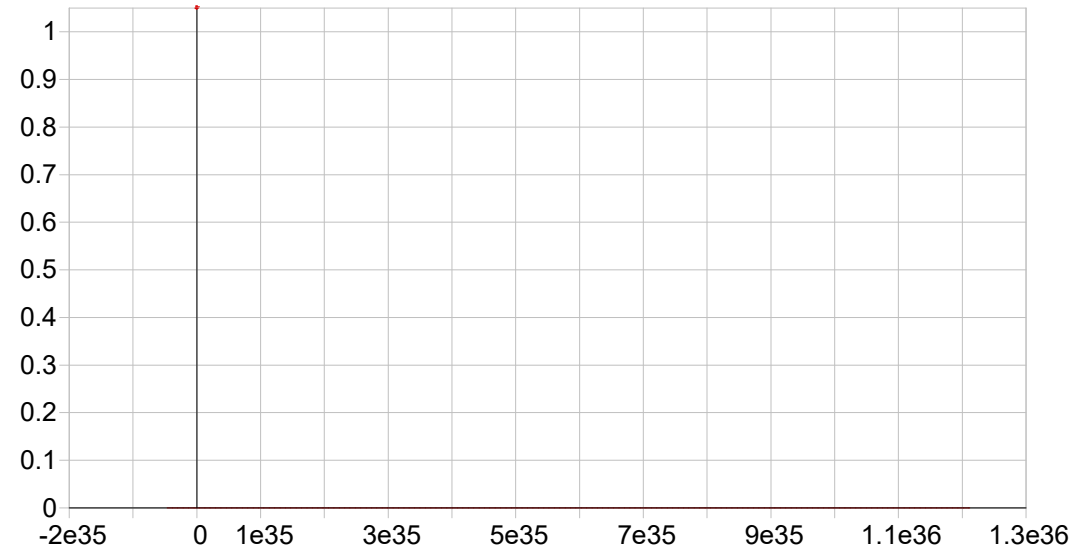


Li 670.784 { 50}

Date of Fit:	06/30/2024 14:49:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.014736	Re-Slope:	1.000000
A1 (Gain):	0.833392	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999038	Status:	OK.
Std Error of Est:	0.000751		
Predicted MDL:	0.002906		
Predicted MQL:	0.009686		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	.01473	.000	1
S5	10.000	10.184	.184	1.84	8.5019	.009	1
S4	5.0000	5.0452	.045	.904	4.2194	.014	1
S3	2.5000	2.4160	-.084	-3.36	2.0283	.004	1
S2	1.2500	1.0928	-.157	-12.6	.92543	.002	1
S1	.01500	.02711	.012	80.7	.03733	.000	1

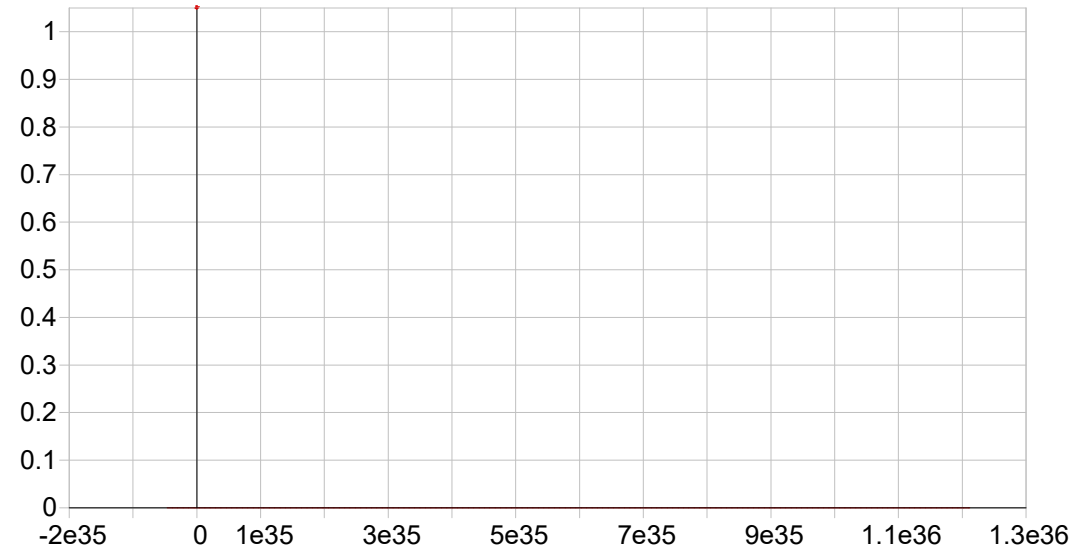


Y 224.306 {450}*

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

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

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



Y 360.073 { 94}*

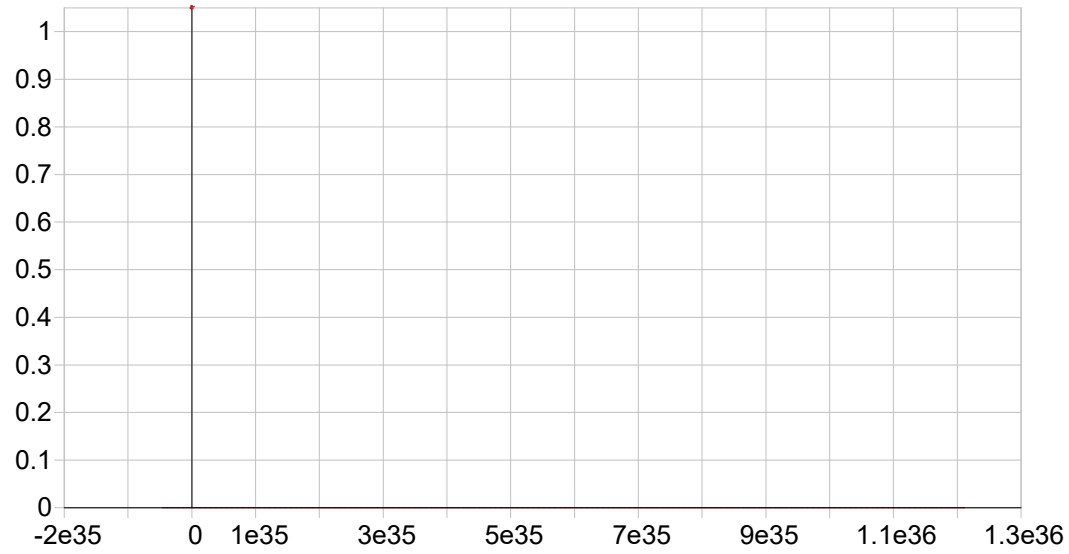
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

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

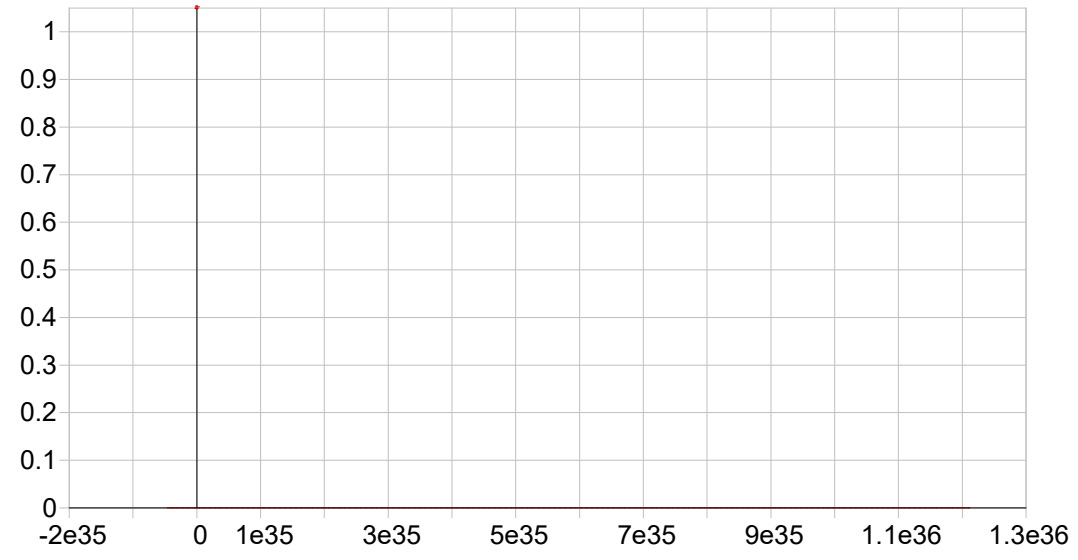
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



Y 371.030 { 91}*

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

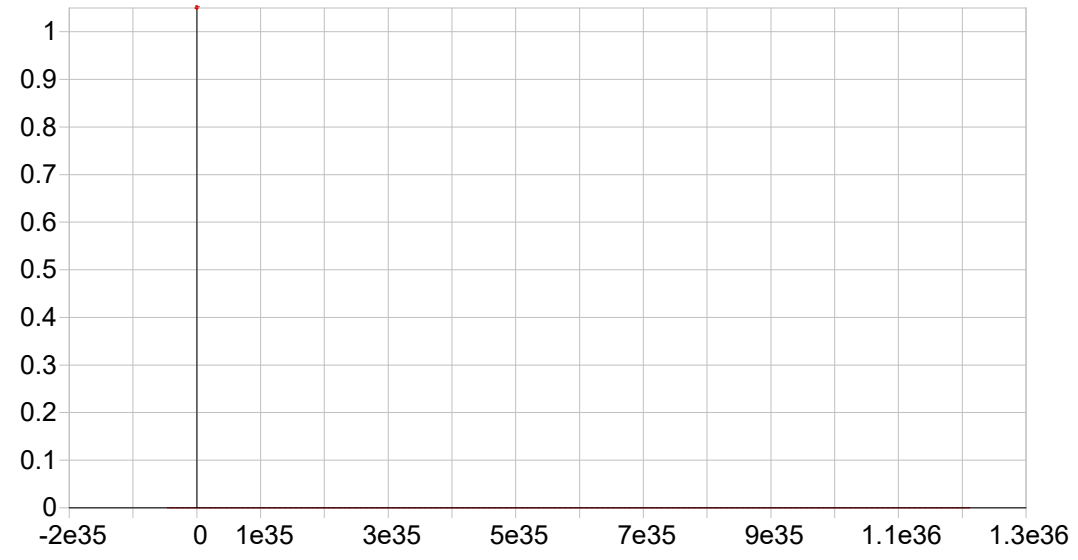
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis



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



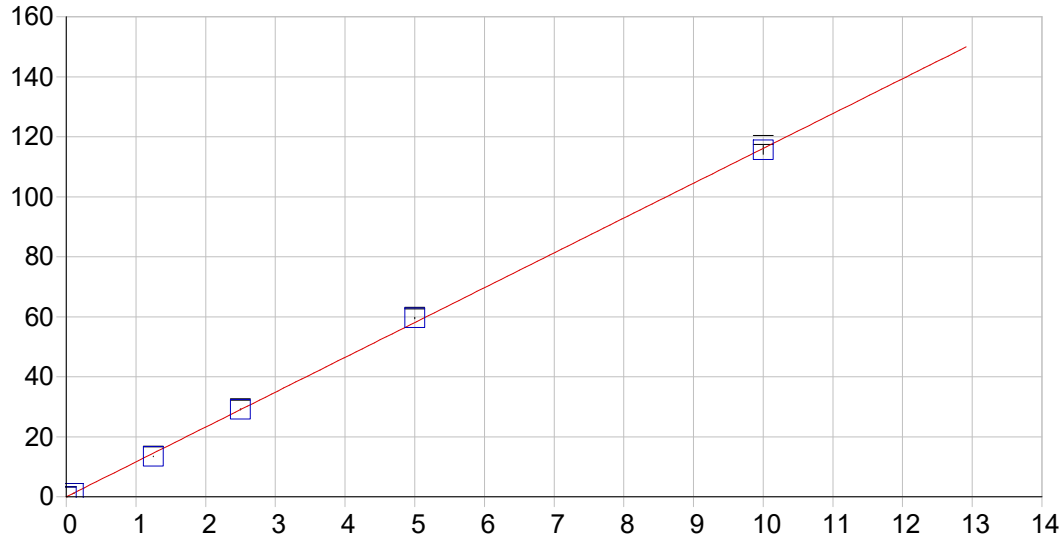
In 230.606 {446}*

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:6/30/2024 8:11:46 PM
Inst Id :P5

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

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



Sr 407.771 { 83}

Date of Fit:	06/30/2024 14:49:50	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000725	Re-Slope:	1.000000
A1 (Gain):	11.611461	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999703	Status:	OK.
Std Error of Est:	0.015049		
Predicted MDL:	0.000095		
Predicted MQL:	0.000316		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00078	.000	1
S1	.10000	.10089	.001	.894	1.1723	.011	1
S2	1.2500	1.1535	-.097	-7.72	13.394	.110	1
S3	2.5000	2.5079	.008	.315	29.121	.225	1
S4	5.0000	5.1327	.133	2.65	59.599	.248	1
S5	10.000	9.9550	-.045	-.450	115.59	1.48	1

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: S0 Acquired: 06/30/2024 14:22:52 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00009**	**-.00001**	**.00013**	**.00029**	**.00012**	**-.00156**	**.01210**	**-.00021**
Stddev	.00007	.00006	.00003	.00019	.00011	.00004	.00214	.00031
%RSD	81.478	735.15	25.490	66.619	90.868	2.8860	17.714	147.92
#1	-.00017	.00006	.00013	.00051	.00005	-.00154	.01063	-.00032
#2	-.00004	-.00003	.00017	.00016	.00024	-.00153	.01456	.00014
#3	-.00005	-.00006	.00010	.00019	.00006	-.00161	.01112	-.00045

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	**.00055**	**.00513**	**.00006**	**-.00019**	**.00263**	**.00011**	**.00013**	**-.00029**
Stddev	.00005	.00088	.00003	.00014	.00044	.00050	.00033	.00044
%RSD	8.9732	17.098	44.485	75.763	16.653	470.03	247.33	150.79
#1	.00061	.00570	.00003	-.00018	.00314	.00056	.00009	-.00063
#2	.00051	.00412	.00007	-.00005	.00234	-.00043	-.00017	-.00044
#3	.00053	.00558	.00007	-.00034	.00242	.00019	.00048	.00020

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	**-.00019**	**-.00152**	**-.01184**	**-.00037**	**-.00029**	**.03485**	**-.00122**	**.00189**
Stddev	.00006	.00007	.00053	.00022	.00066	.00203	.00007	.00037
%RSD	33.949	4.6157	4.5142	58.114	226.06	5.8325	6.0367	19.747
#1	-.00024	-.00159	-.01232	-.00062	-.00103	.03508	-.00124	.00209
#2	-.00012	-.00154	-.01193	-.00024	-.00006	.03676	-.00114	.00212
#3	-.00021	-.00145	-.01127	-.00025	.00022	.03271	-.00128	.00146

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	**.00019**	**.00014**	**.00932**	**.00018**	**.00454**	**.01473**	**.00078**
Stddev	.00027	.00006	.00017	.00004	.00024	.00023	.00047
%RSD	143.33	43.943	1.8668	19.971	5.3691	1.5892	60.566
#1	.00046	.00007	.00930	.00021	.00459	.01498	.00118
#2	-.00007	.00018	.00950	.00014	.00428	.01452	.00089
#3	.00017	.00017	.00916	.00020	.00476	.01469	.00026

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: S0 Acquired: 06/30/2024 14:22:52 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) 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	1710.9	29630.	3886.7	939.44	2755.9
Stddev	6.3	28.	6.0	8.11	9.1
%RSD	.36907	.09476	.15362	.86312	.33038
#1	1713.7	29642.	3879.8	941.62	2760.1
#2	1715.3	29650.	3890.3	946.24	2762.1
#3	1703.6	29598.	3889.9	930.47	2745.4

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: S1 Acquired: 06/30/2024 14:27:31 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S01 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934	Be2348
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00016**	**.00168**	**.00143**	**.00191**	**.00588**	**.01334**	**.90181**	**.04003**
Stddev	.00009	.00002	.00013	.00023	.00019	.00032	.00163	.00012
%RSD	55.763	1.1151	8.8649	11.796	3.2377	2.4248	.18117	.28818
#1	.00013	.00167	.00158	.00167	.00566	.01371	.90172	.03991
#2	.00027	.00170	.00139	.00212	.00602	.01312	.90023	.04013
#3	.00009	.00167	.00133	.00193	.00595	.01318	.90349	.04006

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	**.01089**	**.39945**	**.00135**	**.03284**	**.00762**	**.00231**	**.00714**	**.04059**
Stddev	.00010	.00267	.00014	.00009	.00036	.00011	.00007	.00021
%RSD	.88398	.66792	10.290	.28056	4.7080	4.7556	1.0309	.52781
#1	.01099	.40141	.00151	.03295	.00746	.00229	.00715	.04057
#2	.01080	.39641	.00126	.03278	.00804	.00221	.00721	.04039
#3	.01087	.40053	.00128	.03280	.00738	.00243	.00706	.04081

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	**.01599**	**.00203**	**.02923**	**.00817**	**.00553**	**.23315**	**-.00094**	**.00143**
Stddev	.00018	.00013	.00159	.00020	.00023	.00206	.00006	.00048
%RSD	1.1493	6.4469	5.4222	2.4292	4.2007	.88431	6.7994	33.412
#1	.01610	.00190	.02864	.00826	.00529	.23427	-.00100	.00198
#2	.01609	.00204	.02803	.00794	.00576	.23440	-.00094	.00114
#3	.01578	.00216	.03103	.00830	.00555	.23077	-.00087	.00117

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	**.00487**	**.00186**	**.24045**	**.00092**	**.05201**	**.03733**	**1.1723**
Stddev	.00009	.00003	.00282	.00010	.00044	.00032	.0113
%RSD	1.9021	1.4280	1.1735	10.706	.84494	.85958	.96007
#1	.00498	.00188	.24241	.00082	.05245	.03715	1.1833
#2	.00483	.00188	.24173	.00102	.05157	.03770	1.1727
#3	.00480	.00183	.23722	.00092	.05201	.03713	1.1608

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: S1 Acquired: 06/30/2024 14:27:31 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) 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	1709.0	29443.	3918.7	942.59	2733.0
Stddev	5.2	44.	19.9	4.81	5.4
%RSD	.30172	.14892	.50844	.51001	.19648
#1	1713.7	29426.	3911.5	947.80	2738.7
#2	1709.9	29493.	3903.3	941.63	2732.3
#3	1703.5	29410.	3941.2	938.34	2728.0

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: S2 Acquired: 06/30/2024 14:32:08 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) 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	**.02341**	**.08530**	**.86041**	**.04911**	**.11256**	**2.7330**	**10.299**	**.90255**
Stddev	.00020	.00043	.00437	.00056	.00035	.0169	.034	.01125
%RSD	.87576	.50823	.50829	1.1404	.30903	.61762	.33359	1.2470
#1	.02319	.08498	.85852	.04888	.11263	2.7317	10.299	.89467
#2	.02344	.08513	.85730	.04870	.11218	2.7505	10.333	.91544
#3	.02359	.08579	.86541	.04974	.11286	2.7168	10.265	.89754

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.2098**	**4.4873**	**.46388**	**.40368**	**.54477**	**.71498**	**1.5968**	**.46292**
Stddev	.0056	.0235	.00098	.00090	.00449	.00563	.0078	.00266
%RSD	.46180	.52456	.21049	.22303	.82398	.78700	.49116	.57539
#1	1.2050	4.4799	.46351	.40327	.54374	.71331	1.5938	.46249
#2	1.2084	4.5137	.46499	.40306	.54969	.72125	1.6057	.46578
#3	1.2159	4.4683	.46315	.40471	.54089	.71037	1.5909	.46050

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	**.23678**	**.09679**	**.27003**	**.08840**	**.37525**	**1.4398**	**.02795**	**.62111**
Stddev	.00167	.00040	.00134	.00082	.00498	.0142	.00015	.00784
%RSD	.70343	.41732	.49780	.92587	1.3270	.98716	.54160	1.2615
#1	.23543	.09648	.27018	.08877	.37607	1.4380	.02792	.61678
#2	.23626	.09664	.27129	.08897	.36992	1.4548	.02781	.63016
#3	.23864	.09724	.26861	.08746	.37977	1.4265	.02811	.61641

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	**.55120**	**.02187**	**1.1439**	**.12218**	**.56081**	**.92543**	**13.394**
Stddev	.00304	.00034	.0116	.00049	.00415	.00177	.110
%RSD	.55077	1.5460	1.0175	.40401	.74054	.19076	.82262
#1	.54999	.02148	1.1360	.12197	.55978	.92616	13.400
#2	.54896	.02204	1.1573	.12184	.56538	.92672	13.502
#3	.55466	.02208	1.1384	.12275	.55726	.92342	13.282

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: S2 Acquired: 06/30/2024 14:32:08 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) 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	1632.5	28392.	3859.0	896.96	2457.1
Stddev	6.7	106.	25.4	7.13	9.1
%RSD	.40964	.37246	.65724	.79499	.37122
#1	1631.0	28348.	3872.0	897.17	2460.4
#2	1639.8	28512.	3829.8	903.98	2464.1
#3	1626.7	28315.	3875.2	889.72	2446.8

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: S3 Acquired: 06/30/2024 14:36:32 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) 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	.05429	.18526	1.8963	.10883	.25161	5.9935	22.605	1.9435
Stddev	.00006	.00125	.0078	.00051	.00170	.0411	.075	.0074
%RSD	.11669	.67589	.40963	.46507	.67545	.68608	.33382	.37972
#1	.05433	.18550	1.8950	.10863	.25121	6.0409	22.691	1.9498
#2	.05422	.18390	1.8893	.10845	.25015	5.9719	22.547	1.9453
#3	.05432	.18637	1.9047	.10940	.25348	5.9676	22.578	1.9354

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	2.6687	9.7351	1.0026	.89666	1.1704	1.5385	3.4316	1.0208
Stddev	.0076	.0495	.0012	.00531	.0093	.0100	.0177	.0059
%RSD	.28525	.50868	.12192	.59185	.79347	.64655	.51548	.57450
#1	2.6676	9.7921	1.0012	.89616	1.1807	1.5499	3.4512	1.0274
#2	2.6616	9.7105	1.0031	.89163	1.1679	1.5342	3.4168	1.0189
#3	2.6767	9.7027	1.0034	.90220	1.1626	1.5315	3.4268	1.0162

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	.52401	.21649	.60319	.19441	.84565	3.1353	.06489	1.3376
Stddev	.00150	.00062	.00272	.00110	.00290	.0268	.00035	.0048
%RSD	.28612	.28663	.45036	.56368	.34245	.85338	.54358	.36148
#1	.52385	.21580	.60554	.19567	.84231	3.1652	.06476	1.3421
#2	.52260	.21668	.60022	.19380	.84735	3.1269	.06463	1.3381
#3	.52559	.21699	.60380	.19375	.84730	3.1136	.06529	1.3325

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	1.2184	.04998	2.4280	.27240	1.2130	2.0283	29.121
Stddev	.0055	.00035	.0084	.00147	.0093	.0040	.225
%RSD	.45224	.70061	.34710	.53804	.76350	.19473	.77206
#1	1.2168	.05005	2.4293	.27185	1.2234	2.0306	29.372
#2	1.2139	.04961	2.4357	.27129	1.2098	2.0237	29.051
#3	1.2246	.05030	2.4190	.27406	1.2057	2.0305	28.939

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: S3 Acquired: 06/30/2024 14:36:32 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) 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	1552.4	27373.	3825.4	850.98	2293.4
Stddev	5.8	41.	26.9	2.91	7.5
%RSD	.37095	.14813	.70279	.34195	.32917
#1	1554.3	27348.	3795.3	849.68	2294.3
#2	1557.0	27419.	3833.9	854.32	2300.4
#3	1546.0	27351.	3847.0	848.95	2285.4

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: S4 Acquired: 06/30/2024 14:40:53 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) 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	**.11619**	**.37362**	**3.9200**	**.22700**	**.53243**	**12.590**	**46.309**	**3.9621**
Stddev	.00087	.00119	.0080	.00039	.00079	.028	.085	.0069
%RSD	.74846	.31771	.20397	.16981	.14769	.22413	.18456	.17380
#1	.11520	.37395	3.9203	.22674	.53193	12.586	46.306	3.9700
#2	.11651	.37230	3.9118	.22682	.53202	12.564	46.396	3.9576
#3	.11685	.37460	3.9278	.22744	.53334	12.620	46.225	3.9587

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5.4693**	**19.949**	**2.0150**	**1.8516**	**2.4049**	**3.1052**	**6.9261**	**2.1377**
Stddev	.0084	.035	.0030	.0029	.0122	.0033	.0095	.0043
%RSD	.15414	.17514	.14767	.15697	.50907	.10518	.13765	.20354
#1	5.4649	19.945	2.0126	1.8532	2.4060	3.1034	6.9334	2.1426
#2	5.4639	19.986	2.0140	1.8483	2.3921	3.1033	6.9295	2.1344
#3	5.4790	19.916	2.0183	1.8534	2.4165	3.1090	6.9153	2.1360

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	**1.0751**	**.45231**	**1.2612**	**.39391**	**1.8162**	**6.5727**	**.13959**	**2.6944**
Stddev	.0026	.00070	.0026	.00060	.0073	.0373	.00054	.0032
%RSD	.23968	.15425	.20450	.15226	.40035	.56726	.38879	.11680
#1	1.0746	.45223	1.2594	.39422	1.8223	6.5945	.13897	2.6959
#2	1.0728	.45166	1.2600	.39429	1.8181	6.5296	.13992	2.6966
#3	1.0779	.45305	1.2642	.39322	1.8082	6.5939	.13990	2.6908

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	**2.5247**	**.10782**	**4.8709**	**.56687**	**2.4702**	**4.2194**	**59.599**
Stddev	.0012	.00029	.0110	.00059	.0017	.0138	.248
%RSD	.04600	.26854	.22541	.10458	.06721	.32688	.41652
#1	2.5245	.10767	4.8831	.56654	2.4683	4.2202	59.575
#2	2.5237	.10765	4.8619	.56651	2.4714	4.2328	59.364
#3	2.5260	.10816	4.8678	.56755	2.4709	4.2052	59.859

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: S4 Acquired: 06/30/2024 14:40:53 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) 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	**1444.4**	**26306.**	**3728.8**	**787.38**	**2117.5**
Stddev	.5	17.	12.1	4.79	1.6
%RSD	.03320	.06492	.32481	.60816	.07781
#1	1443.9	26289.	3715.2	784.28	2116.8
#2	1444.9	26323.	3738.5	784.98	2119.4
#3	1444.4	26304.	3732.7	792.90	2116.4

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: S5 Acquired: 06/30/2024 14:45:21 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) 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	**.24047**	**.72303**	**7.8048**	**.47553**	**1.1306**	**25.373**	**90.361**	**7.7388**
Stddev	.00023	.00203	.0218	.00244	.0051	.099	1.124	.0831
%RSD	.09631	.28080	.27930	.51207	.45307	.38887	1.2439	1.0743
#1	.24033	.72253	7.8048	.47278	1.1257	25.304	90.039	7.7039
#2	.24033	.72129	7.7830	.47637	1.1302	25.486	91.610	7.8337
#3	.24073	.72526	7.8266	.47742	1.1359	25.329	89.432	7.6788

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10.721**	**39.106**	**3.9036**	**3.6673**	**4.7339**	**5.9684**	**13.371**	**4.2545**
Stddev	.020	.125	.0081	.0111	.0189	.0198	.036	.0167
%RSD	.18609	.31933	.20739	.30129	.39949	.33215	.26689	.39166
#1	10.720	39.120	3.9035	3.6665	4.7173	5.9606	13.366	4.2459
#2	10.702	39.223	3.9117	3.6567	4.7545	5.9909	13.408	4.2737
#3	10.742	38.975	3.8955	3.6787	4.7299	5.9536	13.338	4.2438

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.1164**	**.92342**	**2.5217**	**.77336**	**3.9082**	**13.292**	**.28862**	**5.1460**
Stddev	.0055	.00075	.0092	.00503	.0075	.087	.00070	.0421
%RSD	.26178	.08089	.36418	.64992	.19057	.65348	.24369	.81838
#1	2.1170	.92355	2.5175	.77448	3.9157	13.210	.28911	5.1299
#2	2.1106	.92262	2.5322	.77773	3.9008	13.383	.28781	5.1937
#3	2.1216	.92410	2.5153	.76787	3.9080	13.284	.28893	5.1143

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5.1825**	**.22458**	**9.4725**	**1.1253**	**4.8368**	**8.5019**	**115.59**
Stddev	.0205	.00085	.0867	.0008	.0145	.0091	1.48
%RSD	.39526	.37660	.91528	.06926	.30049	.10710	1.2771
#1	5.1627	.22428	9.4497	1.1255	4.8351	8.5022	115.01
#2	5.1813	.22392	9.5683	1.1244	4.8521	8.5109	117.27
#3	5.2036	.22553	9.3994	1.1260	4.8232	8.4927	114.50

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: S5 Acquired: 06/30/2024 14:45:21 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) 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	**1289.3**	**24963.**	**3651.3**	**697.39**	**1927.1**
Stddev	5.8	13.	29.1	2.03	5.1
%RSD	.45156	.05189	.79612	.29075	.26711
#1	1295.6	24976.	3666.2	695.40	1930.7
#2	1288.2	24964.	3617.8	697.33	1929.4
#3	1284.1	24950.	3669.9	699.45	1921.2

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: S6 Acquired: 06/30/2024 14:49:54 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S06 Custom ID2: Custom ID3:
Comment:

Elem	Al3961	Ca3736	Fe2598	Mg2790	Na8183
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**63.830**	**61.104**	**15.079**	**6.6436**	**6.5832**
Stddev	.706	.274	.043	.0246	.0329
%RSD	1.1066	.44919	.28513	.36971	.50008
#1	64.606	61.395	15.128	6.6717	6.6165
#2	63.225	61.066	15.063	6.6331	6.5824
#3	63.658	60.850	15.047	6.6260	6.5506

Int. Std.	Y_3710
Units	Cts/S
Avg	**3551.1**
Stddev	15.8
%RSD	.44456
#1	3532.9
#2	3561.2
#3	3559.2

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: ICV013 Acquired: 06/30/2024 14:54:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV013 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9480615**	**1.022870**	**.9550679**	**.9447690**	**.9824059**	**2.509881**
Stddev	.0142978	.004868	.0027865	.0088194	.0072858	.046354
%RSD	1.508112	.4758767	.2917623	.9334993	.7416264	1.846861
#1	.9445890	1.018588	.9577150	.9445729	.9821420	2.518265
#2	.9358197	1.021859	.9521602	.9360492	.9752557	2.551471
#3	.9637757	1.028164	.9553285	.9536848	.9898200	2.459907

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4961855**	**.5104946**	**.4872601**	**10.04348**	**.5457095**	**.4744259**
Stddev	.0064052	.0063496	.0017624	.14862	.0011171	.0022066
%RSD	1.290881	1.243806	.3616952	1.479762	.2047134	.4651045
#1	.4940386	.5056709	.4866161	10.03823	.5451304	.4737521
#2	.5033883	.5176883	.4859102	10.19466	.5450009	.4726348
#3	.4911296	.5081246	.4892539	9.89756	.5469973	.4768908

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5216864**	**10.86438**	**.5296485**	**5.854266**	**.4846539**	**.2324942**
Stddev	.0093841	.10891	.0083736	.105217	.0026028	.0003863
%RSD	1.798805	1.002423	1.580974	1.797269	.5370505	.1661486
#1	.5187210	10.85536	.5268323	5.757579	.4819426	.2326411
#2	.5321950	10.97752	.5390672	5.966322	.4848863	.2327855
#3	.5141432	10.76026	.5230460	5.838897	.4871327	.2320561

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.963071**	**.5109039**	**.9261577**	**10.61791**	F **.0066823**	F **.0144296**
Stddev	.206996	.0117465	.0066645	.08972	.0025586	.0007733
%RSD	2.077634	2.299168	.7195905	.8450171	38.28928	5.359071
#1	10.16686	.5036233	.9204180	10.62353	.0095780	.0152898
#2	9.96934	.5244551	.9245881	10.70468	.0057420	.0137921
#3	9.75301	.5046334	.9334669	10.52550	.0047269	.0142069

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: ICV013 Acquired: 06/30/2024 14:54:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV013 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.892019	F .0076557	F -.021024	F -.000919	F .0015539	F .0053520
Stddev	.017926	.0016609	.001182	.001007	.0011329	.0003498
%RSD	.3664310	21.69499	5.620338	109.5046	72.90784	6.535846
#1	4.887601	.0088857	-.022291	.000085	.0025416	.0049996
#2	4.876715	.0057664	-.020830	-.001929	.0018031	.0053573
#3	4.911740	.0083151	-.019951	-.000914	.0003172	.0056991

Elem	Sr4077
Units	ppm
Avg	F .0015231
Stddev	.0000636
%RSD	4.174878
#1	.0015609
#2	.0015587
#3	.0014497

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1693.761	29308.20	3894.959	932.0851	2660.494
Stddev	3.176	127.54	41.287	3.3495	4.190
%RSD	.1875051	.4351666	1.060013	.3593610	.1574893
#1	1694.992	29167.62	3913.719	929.2425	2662.747
#2	1696.138	29340.45	3847.623	931.2350	2663.076
#3	1690.154	29416.51	3923.536	935.7778	2655.660

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: ICB013 Acquired: 06/30/2024 14:59:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB013 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012315	.0011414	-.001320	-.000790	.0014029	.0171835	.0005786
Stddev	.0025708	.0011903	.001303	.004665	.0010660	.0036249	.0004285
%RSD	208.7490	104.2881	98.70045	590.3750	75.98372	21.09544	74.06289
#1	.0027061	.0023045	-.000844	.001128	.0001948	.0168180	.0010320
#2	.0027254	-.000074	-.002793	-.006108	.0022111	.0137552	.0005234
#3	-.001737	.001194	-.000322	.002610	.0018028	.0209774	.0001804

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000621	-.000083	.0198144	-.000145	.0000967	.0008853	.0298778
Stddev	.0001461	.000046	.0037406	.000837	.0001548	.0003089	.0171151
%RSD	235.1500	55.30591	18.87830	575.7430	160.0890	34.88975	57.28388
#1	.0002271	-.000030	.0241283	-.000544	.0000727	.0005758	.0412763
#2	.0000099	-.000104	.0178435	.000817	.0002622	.0008865	.0381600
#3	-.000051	-.000114	.0174712	-.000709	-.000045	.0011935	.0101970

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000394	.0314964	-.000015	.0003470	.0911587	.0007292	-.002686
Stddev	.000353	.0255915	.000067	.0002583	.0779857	.0026559	.002504
%RSD	89.61573	81.25219	448.6925	74.45865	85.54931	364.2331	93.22472
#1	-.000079	.0085737	.000052	.0000550	.1693107	.0008933	-.003782
#2	-.000776	.0268074	-.000082	.0004401	.0908251	.0032992	.000179
#3	-.000328	.0591083	-.000015	.0005458	.0133405	-.002005	-.004456

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1377686	.0042096	.0106353	.0001394	.0034767	.0006332	.0003282
Stddev	.0514755	.0033750	.0009813	.0009316	.0032983	.0006563	.0009762
%RSD	37.36371	80.17347	9.227103	668.3522	94.86819	103.6522	297.4211
#1	.1300722	.0003349	.0114290	.0011315	.0060730	.0008192	.0004257
#2	.1926590	.0065084	.0109387	-.000717	.0045918	-.000096	-.000693
#3	.0905747	.0057854	.0095380	.000003	-.000235	.001177	.001252

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: ICB013 Acquired: 06/30/2024 14:59:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB013 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0002647	.0041365	.0000428
Stddev	.0008439	.0041765	.0000394
%RSD	318.8547	100.9676	92.05076
#1	.0012101	.0025076	.0000714
#2	-.000413	.0088821	.0000592
#3	-.000003	.0010199	-.000002

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1710.202	29634.37	3884.977	946.5326	2756.279
Stddev	7.319	153.06	8.389	4.3278	7.218
%RSD	.4279883	.5165027	.2159368	.4572262	.2618755
#1	1712.874	29566.99	3883.220	945.2595	2759.635
#2	1715.810	29809.56	3877.605	951.3542	2761.208
#3	1701.922	29526.56	3894.105	942.9842	2747.994

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: ICSA013 Acquired: 06/30/2024 15:03:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA013 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001357**	**-.003221**	**.0014559**	**-.012661**	**.0094421**	**255.4997**
Stddev	.008985	.004811	.0018020	.003054	.0017967	.7545
%RSD	662.2678	149.3521	123.7769	24.11990	19.02884	.2953123
#1	.007458	-.002552	.0016208	-.010230	.0092324	254.7912
#2	-.010503	-.008332	.0031698	-.016089	.0113344	256.2931
#3	-.001025	.001220	-.000423	-.011664	.0077593	255.4149

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0065787**	**-.000084**	**-.000814**	**248.4227**	**.0522095**	**-.000957**
Stddev	.0006554	.000136	.000210	.4140	.0013593	.000089
%RSD	9.962053	162.2458	25.79232	.1666472	2.603549	9.287488
#1	.0060461	-.000126	-.001020	247.9679	.0515569	-.000872
#2	.0073105	.000068	-.000601	248.7776	.0537720	-.000952
#3	.0063794	-.000194	-.000820	248.5226	.0512995	-.001049

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000322**	**104.1742**	**.0116573**	**240.4194**	**.0074140**	**-.002712**
Stddev	.002480	.1531	.0007781	.4476	.0004253	.000176
%RSD	770.1904	.1469706	6.674412	.1861900	5.736670	6.493362
#1	.000732	104.1402	.0123977	240.3966	.0072809	-.002780
#2	.001456	104.3415	.0108464	240.8780	.0078900	-.002512
#3	-.003154	104.0410	.0117278	239.9836	.0070712	-.002844

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1096732**	**.0009417**	**.0126502**	**.0011177**	F **.0121915**	F **.0510999**
Stddev	.1332365	.0021626	.0039003	.0747897	.0062028	.0018044
%RSD	121.4851	229.6381	30.83178	6691.445	50.87794	3.531181
#1	.2586195	.0003938	.0124242	.0677411	.0109422	.0505436
#2	.0018354	-.000894	.0088679	-.079781	.0067085	.0496392
#3	.0685646	.003326	.0166587	.015393	.0189239	.0531170

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: ICSA013 Acquired: 06/30/2024 15:03:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA013 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001379	-.009540	.0021881	-.002548	.0006871	.0045965
Stddev	.000395	.008038	.0006884	.000355	.0004998	.0001571
%RSD	28.65607	84.24855	31.46271	13.94216	72.74429	3.418476
#1	-.001797	-.008660	.0023726	-.002194	.0007844	.0046127
#2	-.001326	-.001979	.0014262	-.002904	.0011311	.0044319
#3	-.001013	-.017982	.0027654	-.002547	.0001458	.0047449

Elem	Sr4077
Units	ppm
Avg	F .1029990
Stddev	.0005704
%RSD	.5537607
#1	.1027799
#2	.1036464
#3	.1025706

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1553.091	26724.04	3799.569	858.3818	2234.071
Stddev	2.214	97.71	6.573	4.8111	6.675
%RSD	.1425797	.3656373	.1729949	.5604824	.2987994
#1	1552.858	26833.93	3792.494	863.8473	2239.184
#2	1555.412	26646.94	3800.724	854.7871	2236.510
#3	1551.002	26691.26	3805.487	856.5111	2226.519

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: ICSAB013 Acquired: 06/30/2024 15:08:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB013 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0982722	.1080034	.0499078	.0329846	.5814955	255.8197
Stddev	.0023531	.0014470	.0013930	.0014904	.0062004	1.2161
%RSD	2.394509	1.339725	2.791211	4.518363	1.066291	.4753919
#1	.0956576	.1094317	.0485635	.0312873	.5786345	255.5934
#2	.0989388	.1080399	.0498149	.0335871	.5772422	254.7327
#3	.1002201	.1065385	.0513449	.0340793	.5886099	257.1332

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5229492	.5222153	1.028538	248.5263	.6031464	.4973371
Stddev	.0019412	.0030310	.003224	1.1094	.0024899	.0015437
%RSD	.3711986	.5804053	.3135019	.4463975	.4128179	.3103966
#1	.5221182	.5256123	1.027725	248.5197	.6059411	.4964493
#2	.5215618	.5212465	1.025798	247.4202	.6011642	.4964423
#3	.5251676	.5197872	1.032091	249.6390	.6023339	.4991196

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5132857	104.2116	.5407190	240.5847	1.006841	.1833237
Stddev	.0038140	.4998	.0037417	1.1513	.003750	.0007080
%RSD	.7430472	.4796329	.6919892	.4785453	.3724502	.3862102
#1	.5088830	104.4125	.5396280	240.4450	1.004230	.1836791
#2	.5153923	103.6426	.5376441	239.5096	1.005154	.1825084
#3	.5155817	104.5798	.5448850	241.7995	1.011138	.1837836

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.102003	.5063835	.9486266	-.044452	.0070139	F .0491048
Stddev	.116596	.0063892	.0082612	.029503	.0022288	.0009844
%RSD	114.3055	1.261734	.8708545	66.37019	31.77751	2.004733
#1	-.120954	.5110461	.9404008	-.074065	.0079307	.0480485
#2	-.207963	.4991007	.9485564	-.015060	.0086381	.0492693
#3	.022906	.5090037	.9569226	-.044231	.0044729	.0499966

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: ICSAB013 Acquired: 06/30/2024 15:08:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB013 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000608	.0030987	.0010119	-.004462	.0001379	.0035905
Stddev	.000968	.0065604	.0003570	.001504	.0010120	.0004128
%RSD	159.2851	211.7124	35.28276	33.69977	733.8425	11.49786
#1	.000428	-.003291	.0012581	-.004754	.0009309	.0035069
#2	-.000761	.009818	.0011751	-.002833	-.001002	.0040387
#3	-.001489	.002769	.0006024	-.005798	.000485	.0032259

Elem	Sr4077
Units	ppm
Avg	F .1038720
Stddev	.0007041
%RSD	.6779010
#1	.1036094
#2	.1033369
#3	.1046697

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1551.876	26803.42	3807.068	853.3873	2240.302
Stddev	2.784	219.58	15.810	5.1575	4.591
%RSD	.1793894	.8192250	.4152745	.6043515	.2049256
#1	1551.607	26824.08	3795.823	853.5059	2243.213
#2	1554.785	27011.93	3825.145	858.4845	2242.683
#3	1549.237	26574.23	3800.235	848.1716	2235.009

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: CCV002 Acquired: 06/30/2024 15:23:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV002 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.016386**	**4.837791**	**24.41099**	**4.771990**	**4.859894**	**415.9235**	**10.05222**
Stddev	.027350	.009390	.07132	.018677	.014312	2.3301	.04710
%RSD	.5452174	.1941063	.2921478	.3913911	.2944914	.5602256	.4686006
#1	5.000117	4.832945	24.35858	4.759992	4.861535	416.2559	10.06607
#2	5.001079	4.831814	24.38219	4.762469	4.844833	418.0695	10.09085
#3	5.047962	4.848615	24.49220	4.793509	4.873315	413.4450	9.99975

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4943736**	**2.463921**	**401.4464**	**15.30882**	**2.473452**	**14.80461**	**409.3501**
Stddev	.0027018	.005037	1.3200	.00796	.007457	.06530	1.2254
%RSD	.5465020	.2044378	.3288122	.0520225	.3014887	.4411019	.2993555
#1	.4917345	2.460562	402.3936	15.31481	2.470374	14.79251	409.8664
#2	.4971339	2.461489	402.0070	15.31186	2.468026	14.87512	410.2329
#3	.4942526	2.469713	399.9386	15.29978	2.481955	14.74621	407.9511

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.74789**	**400.6581**	**2.490875**	**1.254058**	**401.3030**	**2.482354**	**14.34677**
Stddev	.04872	1.1381	.007047	.006017	2.0250	.012646	.09770
%RSD	.3303531	.2840588	.2828938	.4797965	.5045970	.5094483	.6810023
#1	14.77974	401.4743	2.484491	1.260650	401.6466	2.481521	14.45585
#2	14.77214	401.1421	2.489698	1.252661	403.1342	2.495397	14.26730
#3	14.69181	399.3580	2.498436	1.248862	399.1282	2.470146	14.31716

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**152.0273**	**4.968979**	**4.987586**	**4.802582**	**5.009330**	**4.909302**	**4.934506**
Stddev	.6433	.017469	.034336	.015049	.031596	.038248	.027913
%RSD	.4231412	.3515688	.6884342	.3133553	.6307447	.7790904	.5656703
#1	151.7950	4.949307	4.953014	4.809514	4.992136	4.867213	4.908584
#2	152.7544	4.974951	5.021682	4.785316	4.990061	4.941935	4.930879
#3	151.5323	4.982680	4.988061	4.812915	5.045795	4.918758	4.964056

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: CCV002 Acquired: 06/30/2024 15:23:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV002 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.927871	5.029863	4.940830
Stddev	.033966	.024101	.025321
%RSD	.6892570	.4791528	.5124903
#1	4.937200	5.036872	4.928800
#2	4.956197	5.049682	4.923767
#3	4.890215	5.003035	4.969924

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1366.534	24996.22	3646.419	747.9332	1960.558
Stddev	2.845	115.31	5.343	3.3443	2.782
%RSD	.2081616	.4613282	.1465376	.4471406	.1418945
#1	1364.473	24863.09	3649.417	744.6941	1962.058
#2	1369.780	25064.93	3640.250	751.3736	1962.268
#3	1365.350	25060.64	3649.591	747.7318	1957.348

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: CCB002 Acquired: 06/30/2024 15:27:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) 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	.0003279	.0019590	.0007152	.0015346	.0007392	.0466856	.0009940
Stddev	.0056962	.0024165	.0014933	.0028509	.0010057	.0198472	.0001287
%RSD	1737.043	123.3522	208.8137	185.7803	136.0564	42.51250	12.94379
#1	.0057978	.0046201	-.000245	-.000762	.0015123	.0655958	.0011413
#2	-.005570	-.000099	-.000046	.000641	.0011031	.0260183	.0009372
#3	.000756	.001356	.002436	.004725	-.000398	.0484427	.0009036

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000486	.0000272	.0342159	.0008022	-.000242	.0021615	.0551940
Stddev	.0000181	.0000452	.0156128	.0013264	.000105	.0046225	.0109310
%RSD	37.15764	166.2134	45.63012	165.3418	43.34075	213.8578	19.80468
#1	.0000463	-.000023	.0409541	.0001448	-.000215	.0014812	.0672933
#2	.0000318	.000065	.0453280	.0023290	-.000153	-.002083	.0460313
#3	.0000677	.000039	.0163656	-.000067	-.000358	.007086	.0522574

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014443	.0524321	-.000044	.0005307	-.100928	.0018527	-.001021
Stddev	.0004126	.0528443	.000259	.0000327	.025946	.0007849	.007398
%RSD	28.57119	100.7862	591.7069	6.151980	25.70706	42.36773	724.2721
#1	.0018329	.0867089	.000246	.0005642	-.124328	.0027370	-.008945
#2	.0010112	-.008425	-.000124	.0005291	-.105431	.0012384	.005704
#3	.0014888	.079013	-.000253	.0004990	-.073026	.0015826	.000176

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3389846	.0002009	.0187248	.0001941	-.000894	.0001949	.0017419
Stddev	.1123959	.0017015	.0007625	.0003422	.003394	.0001756	.0003002
%RSD	33.15665	846.8047	4.072288	176.3223	379.7595	90.10214	17.23135
#1	.4221405	-.001764	.0193580	-.000027	-.002573	.0003567	.0014048
#2	.3837007	.001180	.0178784	.000588	-.003121	.0002197	.0019803
#3	.2111126	.001187	.0189382	.000021	.003013	.0000082	.0018405

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: CCB002 Acquired: 06/30/2024 15:27:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) 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	.0009347	.0031158	.0003550
Stddev	.0010028	.0004019	.0000608
%RSD	107.2797	12.89962	17.12636
#1	.0020275	.0034665	.0002876
#2	.0000569	.0026772	.0003718
#3	.0007198	.0032038	.0004057

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1700.791	29665.02	3901.025	940.6668	2745.764
Stddev	6.775	251.32	6.133	9.3977	5.320
%RSD	.3983255	.8471992	.1572148	.9990430	.1937709
#1	1706.486	29938.05	3895.240	951.2974	2747.917
#2	1702.589	29443.33	3900.380	933.4649	2749.671
#3	1693.299	29613.68	3907.455	937.2382	2739.705

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161768BL Acquired: 06/30/2024 15:32:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS768 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015427	.0006926	.0000638	.0017061	-.001168	.0102414	.0001726
Stddev	.0012148	.0011932	.0009279	.0019774	.000260	.0102432	.0007657
%RSD	78.74109	172.2684	1454.752	115.8981	22.27964	100.0177	443.5741
#1	.0015931	-.000062	-.000996	.0030115	-.001396	.0034223	.0005635
#2	.0003036	.000072	.000727	.0026759	-.000884	.0052815	.0006639
#3	.0027316	.002068	.000460	-.000569	-.001224	.0220204	-.000710

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000066	-.000132	.0038698	-.000017	.0001380	.0033368	-.003115
Stddev	.000059	.000033	.0088653	.000446	.0002300	.0019249	.010377
%RSD	89.22844	24.79748	229.0866	2679.858	166.6245	57.68519	333.1054
#1	-.000059	-.000131	-.005763	.000376	.0001831	.0041192	-.014608
#2	-.000011	-.000165	.011685	-.000502	-.000111	.0011440	.005566
#3	-.000128	-.000099	.005687	.000076	.000342	.0047473	-.000304

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001761	-.002474	-.000214	.0001542	-.214431	.0010467	-.000336
Stddev	.0007826	.040870	.000344	.0003778	.273031	.0010689	.010056
%RSD	444.4111	1652.062	160.8428	245.0640	127.3281	102.1302	2989.505
#1	.0006369	-.034925	-.000305	-.000208	-.058386	.0022663	-.009255
#2	.0006190	.043426	.000167	.000124	-.529695	.0002728	-.002316
#3	-.000728	-.015922	-.000503	.000546	-.055212	.0006009	.010562

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0817799	.0035997	.0085786	-.000227	-.000136	.0040578	.0005259
Stddev	.0514707	.0014956	.0003361	.000499	.001763	.0007443	.0009895
%RSD	62.93816	41.54834	3.918229	219.8823	1299.762	18.34378	188.1483
#1	.1310321	.0025288	.0082428	-.000635	-.001491	.0049167	.0010416
#2	.0283457	.0053085	.0089151	-.000376	-.000774	.0036013	-.000615
#3	.0859618	.0029618	.0085778	.000330	.001858	.0036554	.001151

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161768BL Acquired: 06/30/2024 15:32:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS768 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0003386	.0016552	-.000090
Stddev	.0018729	.0019009	.000038
%RSD	553.1565	114.8455	42.54808
#1	.0005962	.0038415	-.000073
#2	.0020694	.0007311	-.000134
#3	-.001650	.0003930	-.000063

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1703.134	29670.90	3902.645	948.4445	2752.578
Stddev	.246	83.99	20.171	4.9993	2.378
%RSD	.0144641	.2830862	.5168604	.5271030	.0864017
#1	1703.063	29616.47	3890.365	943.0000	2751.439
#2	1702.931	29767.64	3891.645	952.8283	2755.311
#3	1703.408	29628.60	3925.925	949.5053	2750.983

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161768BS Acquired: 06/30/2024 15:36:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS768 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0151582	.0503971	.0181214	.0681507	.1077810	.3864447
Stddev	.0018192	.0005786	.0020249	.0032647	.0012475	.0133949
%RSD	12.00164	1.148091	11.17401	4.790409	1.157444	3.466182
#1	.0130850	.0506245	.0178607	.0718787	.1092140	.3960965
#2	.0159018	.0497394	.0202641	.0658022	.1069373	.3920855
#3	.0164878	.0508275	.0162396	.0667712	.1071917	.3711520

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3915488	.0102619	.0098823	10.17594	.0215656	.0909578
Stddev	.0007086	.0000805	.0001161	.07188	.0008163	.0003176
%RSD	.1809795	.7846600	1.175042	.7064061	3.785106	.3491819
#1	.3923234	.0103206	.0099431	10.25217	.0209966	.0909541
#2	.3909333	.0101701	.0097484	10.16626	.0211992	.0906420
#3	.3913896	.0102949	.0099554	10.10939	.0225008	.0912772

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0518917	.2276677	.0314122	9.615234	.0776373	.0191695
Stddev	.0020479	.0077652	.0004447	.046178	.0006255	.0004460
%RSD	3.946476	3.410754	1.415724	.4802540	.8056238	2.326859
#1	.0536093	.2344145	.0316706	9.659066	.0782402	.0187337
#2	.0524406	.2294089	.0308987	9.619613	.0769915	.0196252
#3	.0496253	.2191798	.0316673	9.567023	.0776800	.0191496

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.565034	.1026165	.1042093	9.308964	.0223726	F .0072323
Stddev	.095934	.0024932	.0023327	.058777	.0023130	.0014583
%RSD	1.002967	2.429591	2.238480	.6313973	10.33853	20.16394
#1	9.633159	.1051937	.1066738	9.376578	.0209652	.0084557
#2	9.455324	.1002169	.1020357	9.270064	.0211104	.0076228
#3	9.606620	.1024390	.1039185	9.280251	.0250421	.0056185

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161768BS Acquired: 06/30/2024 15:36:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS768 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0188718	.1652579	F .4832778	.0126814	.1944512	F .0596685
Stddev	.0001852	.0071347	.0021915	.0002503	.0009698	.0007376
%RSD	.9815695	4.317311	.4534641	1.973711	.4987360	1.236221
#1	.0186583	.1711352	.4838169	.0126655	.1946050	.0588309
#2	.0189904	.1573196	.4851495	.0129392	.1953348	.0602211
#3	.0189665	.1673189	.4808671	.0124394	.1934136	.0599535

Elem	Sr4077
Units	ppm
Avg	.2000777
Stddev	.0008164
%RSD	.4080289
#1	.2007293
#2	.2003418
#3	.1991620

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1685.583	29292.46	3914.405	934.4463	2672.635
Stddev	4.695	73.76	14.052	3.1465	6.854
%RSD	.2785608	.2518091	.3589725	.3367229	.2564481
#1	1687.431	29321.43	3906.982	934.8641	2677.054
#2	1689.073	29208.61	3905.621	937.3630	2676.110
#3	1680.245	29347.33	3930.611	931.1118	2664.739

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161766BL Acquired: 06/30/2024 15:41:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS766 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004458	-.000360	-.000580	.0030784	.0017279	.0080631
Stddev	.0034053	.001926	.001248	.0015072	.0013115	.0065180
%RSD	763.8720	534.2685	215.3609	48.96112	75.90173	80.83797
#1	.0040726	.001670	.000420	.0048181	.0004941	.0122979
#2	-.000052	-.002161	-.000180	.0022478	.0031053	.0113340
#3	-.002683	-.000590	-.001979	.0021691	.0015843	.0005573

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000419	-.000065	-.000095	.0066418	-.000778	-.000052
Stddev	.0002374	.000084	.000031	.0127122	.000720	.000185
%RSD	566.6628	128.9520	32.36061	191.3969	92.51362	353.7750
#1	-.000170	.000025	-.000127	-.007990	-.001128	.000151
#2	.000299	-.000080	-.000066	.014977	.000050	-.000097
#3	-.000003	-.000140	-.000093	.012938	-.001257	-.000210

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013654	.0103778	-.000051	.0070151	-.000033	.0002602
Stddev	.0012139	.0091062	.000783	.0416927	.000074	.0006197
%RSD	88.90331	87.74730	1530.917	594.3301	225.4551	238.1631
#1	.0008161	.0197737	-.000933	-.025302	.000052	.0004494
#2	.0005233	.0015919	.000218	-.007730	-.000084	.0007633
#3	.0027568	.0097677	.000562	.054077	-.000066	-.000432

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.055187	-.000756	-.008539	-.004790	F .0158832	.0031495
Stddev	.294350	.000444	.005311	.010465	.0030609	.0003427
%RSD	533.3643	58.78302	62.19579	218.4667	19.27120	10.88204
#1	.149383	-.001266	-.009171	-.013255	.0130145	.0028194
#2	-.392537	-.000450	-.013506	.006911	.0191056	.0035036
#3	.077591	-.000552	-.002941	-.008026	.0155296	.0031255

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161766BL Acquired: 06/30/2024 15:41:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS766 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000344	.0075492	.0034532	-.000169	.0009368	-.002336
Stddev	.000283	.0026219	.0001610	.000192	.0007660	.001343
%RSD	82.10723	34.73059	4.662592	113.3780	81.76782	57.50745
#1	-.000061	.0099234	.0034509	-.000289	.0016965	-.003746
#2	-.000627	.0079890	.0032933	.000052	.0009495	-.001071
#3	-.000346	.0047353	.0036153	-.000271	.0001646	-.002190

Elem	Sr4077
Units	ppm
Avg	-.000081
Stddev	.000019
%RSD	23.34834
#1	-.000087
#2	-.000060
#3	-.000097

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1706.836	29757.03	3920.090	948.2874	2748.536
Stddev	3.900	161.26	9.657	1.3333	6.882
%RSD	.2285027	.5419180	.2463446	.1406009	.2503851
#1	1710.333	29602.83	3913.240	947.7500	2754.945
#2	1707.545	29924.52	3915.895	949.8055	2749.400
#3	1702.630	29743.75	3931.135	947.3066	2741.263

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161766BS Acquired: 06/30/2024 15:45:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS766 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0180328	.0502142	.0178651	.0621962	.1086017	.3825004
Stddev	.0031485	.0020895	.0010442	.0038346	.0006010	.0039234
%RSD	17.45980	4.161197	5.844689	6.165293	.5534001	1.025735
#1	.0146696	.0505790	.0182182	.0629444	.1082359	.3832904
#2	.0185187	.0520973	.0186870	.0656016	.1092953	.3859687
#3	.0209101	.0479663	.0166902	.0580427	.1082739	.3782421

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3911806	.0102158	.0097076	10.11574	.0211401	.0909531
Stddev	.0011310	.0000842	.0000837	.05872	.0004116	.0000845
%RSD	.2891158	.8243343	.8623617	.5804652	1.947042	.0929049
#1	.3904173	.0102989	.0097185	10.10908	.0206670	.0908806
#2	.3906446	.0101305	.0096189	10.06063	.0213373	.0909327
#3	.3924799	.0102179	.0097853	10.17750	.0214161	.0910459

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0512164	.2100898	.0308907	9.576937	.0771501	.0192315
Stddev	.0011048	.0023164	.0002118	.067005	.0004329	.0003127
%RSD	2.157162	1.102586	.6856470	.6996543	.5610924	1.625810
#1	.0500442	.2109205	.0308086	9.536563	.0766882	.0195696
#2	.0513668	.2118764	.0307323	9.654284	.0772157	.0189527
#3	.0522384	.2074726	.0311313	9.539966	.0775465	.0191722

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.634873	.1007195	.1038989	9.202087	.0187712	F .0028098
Stddev	.109713	.0038716	.0070301	.070147	.0017836	.0000798
%RSD	1.138710	3.843979	6.766331	.7622972	9.501859	2.841585
#1	9.721614	.0991393	.1099979	9.283079	.0167191	.0028086
#2	9.511540	.1051313	.1054888	9.162470	.0199492	.0027305
#3	9.671466	.0978879	.0962099	9.160711	.0196451	.0028902

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161766BS Acquired: 06/30/2024 15:45:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS766 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1059044	.1597968	F .4803490	.0111304	.1938715	F .0548490
Stddev	.0008152	.0077831	.0023976	.0009759	.0010676	.0006465
%RSD	.7697095	4.870641	.4991477	8.768065	.5506916	1.178695
#1	.1059718	.1649716	.4825660	.0103678	.1927454	.0543422
#2	.1050576	.1635728	.4778043	.0122302	.1940000	.0546276
#3	.1066838	.1508460	.4806766	.0107932	.1948690	.0555771

Elem	Sr4077
Units	ppm
Avg	.1979331
Stddev	.0005134
%RSD	.2593629
#1	.1982776
#2	.1973431
#3	.1981787

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1683.568	29298.42	3940.077	932.5357	2667.225
Stddev	3.561	51.23	12.512	.9931	5.437
%RSD	.2115117	.1748419	.3175539	.1064970	.2038349
#1	1685.679	29240.46	3935.442	931.3912	2670.374
#2	1685.569	29317.18	3954.245	933.1703	2670.355
#3	1679.457	29337.62	3930.544	933.0455	2660.948

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161770BL Acquired: 06/30/2024 15:50:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS770 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0040324**	**-.000082**	**-.001714**	**-.000719**	**.0011344**	**-.002063**	**-.000058**
Stddev	.0031244	.001038	.001819	.004856	.0000825	.006013	.001187
%RSD	77.48369	1266.292	106.1021	675.5525	7.271379	291.4714	2042.586
#1	.0012503	.001033	-.003145	.004781	.0012072	.004229	.000995
#2	.0074126	-.000257	.000333	-.002527	.0010448	-.007752	.000174
#3	.0034342	-.001022	-.002330	-.004411	.0011511	-.002666	-.001344

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000034**	**-.000180**	**-.011873**	**-.000337**	**-.000227**	**.0001596**	**.0152211**
Stddev	.000033	.000084	.006884	.000029	.000274	.0020549	.0231009
%RSD	96.03065	46.80129	57.97527	8.610217	120.4130	1287.228	151.7689
#1	-.000055	-.000274	-.005950	-.000349	-.000116	.0020724	-.011211
#2	.000004	-.000152	-.010244	-.000304	-.000027	-.002013	.025328
#3	-.000051	-.000113	-.019425	-.000358	-.000539	.000419	.031546

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000344**	**-.036632**	**-.000512**	**.0002529**	**-.302309**	**-.001278**	**-.004482**
Stddev	.000752	.022387	.000403	.0001270	.247422	.004293	.006107
%RSD	218.7429	61.11242	78.59921	50.21682	81.84402	335.8537	136.2594
#1	-.000956	-.055796	-.000076	.0003781	-.346116	.003596	-.004269
#2	-.000571	-.042074	-.000869	.0002564	-.524902	-.004497	-.010693
#3	.000496	-.012026	-.000593	.0001242	-.035909	-.002934	.001516

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.022952**	**.0006937**	**.0009812**	**-.000404**	**-.000850**	**.0027914**	**.0006055**
Stddev	.069971	.0005400	.0014596	.000446	.001637	.0002781	.0008066
%RSD	304.8603	77.84722	148.7517	110.4041	192.4602	9.963536	133.2096
#1	.031756	.0000856	.0022982	-.000839	.000495	.0026012	-.000112
#2	.001184	.0011172	.0012337	-.000424	-.002672	.0031106	.001479
#3	-.101795	.0008784	-.000588	.000052	-.000374	.0026624	.000449

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161770BL Acquired: 06/30/2024 15:50:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS770 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0001916	.0014943	-.000123
Stddev	.0017737	.0008955	.000076
%RSD	925.5696	59.92630	61.68841
#1	-.000560	.0010142	-.000198
#2	.002217	.0025275	-.000047
#3	-.001082	.0009412	-.000122

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1700.799	29719.40	3934.312	940.9722	2747.485
Stddev	3.476	109.63	18.056	7.1032	3.928
%RSD	.2043756	.3688872	.4589351	.7548746	.1429698
#1	1701.023	29701.85	3946.300	933.8500	2749.589
#2	1704.157	29619.60	3913.545	948.0562	2749.914
#3	1697.216	29836.75	3943.090	941.0104	2742.953

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161770BS Acquired: 06/30/2024 15:54:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS770 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0154999**	**.0486987**	**.0165609**	**.0651530**	**.1054235**	**.3698897**
Stddev	.0026509	.0009058	.0001888	.0024761	.0028724	.0045045
%RSD	17.10262	1.860022	1.140186	3.800397	2.724644	1.217807
#1	.0185366	.0478532	.0165691	.0624292	.1083450	.3736657
#2	.0143147	.0496547	.0163681	.0657622	.1026028	.3649037
#3	.0136484	.0485884	.0167455	.0672676	.1053226	.3710996

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3800558**	**.0098765**	**.0095259**	**9.837095**	**.0204049**	**.0885656**
Stddev	.0004455	.0000575	.0001201	.034371	.0005970	.0004795
%RSD	.1172282	.5816360	1.260896	.3493990	2.925842	.5414253
#1	.3803003	.0098512	.0093923	9.797730	.0206385	.0882175
#2	.3795416	.0098361	.0095606	9.852404	.0208499	.0883669
#3	.3803256	.0099423	.0096249	9.861151	.0197264	.0891126

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0528522**	**.2160310**	**.0305219**	**9.332373**	**.0752860**	**.0185280**
Stddev	.0047015	.0182958	.0001531	.046596	.0001106	.0003217
%RSD	8.895644	8.469073	.5016106	.4992944	.1468554	1.736489
#1	.0492785	.2351498	.0303580	9.321400	.0753262	.0181615
#2	.0581783	.1986876	.0305464	9.292243	.0751610	.0187640
#3	.0510999	.2142555	.0306613	9.383476	.0753709	.0186585

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.380379**	**.0969821**	**.0984079**	**8.949624**	**.0184497**	F **.0016953**
Stddev	.118748	.0012120	.0086358	.155244	.0016369	.0004950
%RSD	1.265915	1.249743	8.775527	1.734645	8.872227	29.19582
#1	9.245530	.0981640	.1083354	9.082934	.0202788	.0012635
#2	9.469317	.0957421	.0942576	8.779180	.0179478	.0015869
#3	9.426289	.0970403	.0926308	8.986758	.0171226	.0022355

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161770BS Acquired: 06/30/2024 15:54:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS770 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0183445	.1539373	F .4674062	.0117425	.1877230	F .0569487
Stddev	.0001737	.0053196	.0020475	.0002772	.0005537	.0011473
%RSD	.9468809	3.455713	.4380559	2.360471	.2949785	2.014650
#1	.0185447	.1567638	.4696299	.0116566	.1870932	.0559660
#2	.0182345	.1572470	.4669897	.0120525	.1881333	.0582095
#3	.0182542	.1478010	.4655990	.0115185	.1879426	.0566705

Elem	Sr4077
Units	ppm
Avg	.1935683
Stddev	.0006990
%RSD	.3611081
#1	.1934573
#2	.1929315
#3	.1943162

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1690.745	29183.17	3936.663	927.8091	2681.076
Stddev	2.431	101.56	9.230	.5745	7.505
%RSD	.1437795	.3479979	.2344672	.0619198	.2799072
#1	1692.612	29194.51	3943.760	927.1687	2688.648
#2	1691.626	29278.57	3940.001	927.9796	2680.941
#3	1687.996	29076.41	3926.228	928.2791	2673.640

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161771BL Acquired: 06/30/2024 15:59:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS771 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0034789**	**-.000851**	**-.001267**	**-.001188**	**.0008711**	**-.010024**	**.0001152**
Stddev	.0028384	.001147	.001044	.004292	.0014929	.007685	.0006018
%RSD	81.58750	134.7649	82.34076	361.1884	171.3755	76.66877	522.5394
#1	.0065815	-.002167	-.002315	.003737	.0000213	-.015915	-.000083
#2	.0010128	-.000057	-.000228	-.004134	-.000003	-.001331	.000791
#3	.0028425	-.000330	-.001259	-.003168	.002595	-.012825	-.000362

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000097**	**-.000116**	**.0035276**	**-.000456**	**-.000124**	**.0028207**	**-.001351**
Stddev	.0000401	.000055	.0057935	.000816	.000146	.0018912	.014995
%RSD	414.4047	47.40597	164.2333	178.7718	118.0033	67.04447	1110.154
#1	-.000037	-.000112	-.003154	.000481	-.000112	.0030889	-.005889
#2	.000032	-.000063	.006582	-.001004	.000016	.0008098	-.013553
#3	.000034	-.000172	.007154	-.000846	-.000275	.0045635	.015389

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000501**	**.0167934**	**.0001502**	**.0004296**	**-.013208**	**.0011685**	**-.002062**
Stddev	.000842	.0465350	.0002851	.0001019	.132672	.0040235	.005612
%RSD	167.9298	277.1032	189.7874	23.71789	1004.470	344.3173	272.1526
#1	-.000262	-.023594	-.000005	.0003599	.099769	.0046913	.002388
#2	-.001437	.006292	-.000023	.0003822	-.159302	.0020304	-.000208
#3	.000195	.067682	.000479	.0005465	.019908	-.003216	-.008366

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.120748**	**.0024842**	**-.000532**	**.0000385**	**-.001013**	**.0026773**	**.0007003**
Stddev	.066299	.0015216	.000601	.0001730	.003234	.0004081	.0004024
%RSD	54.90693	61.25160	112.8115	448.7260	319.3817	15.24130	57.45892
#1	-.047971	.0009930	-.000029	-.000153	-.004676	.0022227	.0002539
#2	-.177708	.0040345	-.000372	.000085	.001446	.0030121	.0008119
#3	-.136563	.0024250	-.001197	.000183	.000192	.0027970	.0010351

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161771BL Acquired: 06/30/2024 15:59:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS771 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0013916	.0003205	-.000165
Stddev	.0003457	.0014148	.000042
%RSD	24.84566	441.4949	25.33002
#1	.0017311	.0019457	-.000134
#2	.0010399	-.000636	-.000213
#3	.0014037	-.000349	-.000149

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1707.525	29758.08	3924.473	938.5407	2755.842
Stddev	.630	81.95	5.428	1.2241	2.909
%RSD	.0368853	.2753987	.1383226	.1304253	.1055678
#1	1707.514	29804.62	3930.495	938.5479	2756.855
#2	1708.161	29663.45	3919.955	937.3130	2752.562
#3	1706.901	29806.17	3922.970	939.7611	2758.110

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161771BS Acquired: 06/30/2024 16:04:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS771 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0185754**	**.0475805**	**.0167608**	**.0627084**	**.1066316**	**.3849141**
Stddev	.0021068	.0013520	.0014561	.0026141	.0005548	.0153044
%RSD	11.34204	2.841477	8.687758	4.168667	.5203362	3.976054
#1	.0197027	.0460277	.0181162	.0656887	.1066509	.3866926
#2	.0198788	.0482176	.0152214	.0616330	.1060674	.3687981
#3	.0161448	.0484962	.0169448	.0608036	.1071766	.3992515

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3831220**	**.0100272**	**.0096239**	**9.906399**	**.0213570**	**.0889257**
Stddev	.0002130	.0001588	.0000451	.022174	.0012664	.0001291
%RSD	.0555924	1.583483	.4689454	.2238392	5.929453	.1451700
#1	.3828763	.0098475	.0096529	9.888656	.0224635	.0888812
#2	.3832540	.0101485	.0095719	9.931258	.0199758	.0890712
#3	.3832357	.0100856	.0096470	9.899283	.0216315	.0888248

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0480814**	**.2167766**	**.0304977**	**9.395577**	**.0752135**	**.0191666**
Stddev	.0032675	.0112927	.0001239	.075040	.0006686	.0001711
%RSD	6.795803	5.209354	.4061714	.7986757	.8889173	.8924462
#1	.0452609	.2037378	.0304573	9.321925	.0746775	.0193517
#2	.0516620	.2231659	.0303990	9.392872	.0750002	.0190143
#3	.0473215	.2234261	.0306367	9.471932	.0759627	.0191339

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.525925**	**.0994141**	**.0877615**	**8.970823**	**.0191506**	F **.0005142**
Stddev	.109384	.0033554	.0063491	.077693	.0014050	.0008190
%RSD	1.148275	3.375169	7.234470	.8660579	7.336697	159.2534
#1	9.430765	.0958479	.0867200	8.906247	.0206813	.0013847
#2	9.501580	.1025088	.0819975	8.949181	.0179196	-.000241
#3	9.645430	.0998856	.0945669	9.057042	.0188509	.000399

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161771BS Acquired: 06/30/2024 16:04:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS771 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0184964	.1552656	F .4726708	.0113717	.1894335	F .0559077
Stddev	.0002502	.0048993	.0021296	.0004464	.0019334	.0024321
%RSD	1.352513	3.155448	.4505513	3.925267	1.020627	4.350269
#1	.0185888	.1496773	.4702720	.0117875	.1872091	.0545088
#2	.0186872	.1588223	.4743387	.0109000	.1903809	.0544982
#3	.0182132	.1572972	.4734018	.0114275	.1907105	.0587161

Elem	Sr4077
Units	ppm
Avg	.1959691
Stddev	.0012660
%RSD	.6459998
#1	.1948402
#2	.1957294
#3	.1973378

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1694.869	29255.26	3925.393	934.0543	2683.844
Stddev	1.529	85.90	17.467	9.5838	1.420
%RSD	.0902303	.2936068	.4449844	1.026044	.0528923
#1	1696.475	29191.73	3936.219	929.1343	2682.533
#2	1694.701	29221.08	3905.242	927.9297	2683.647
#3	1693.430	29352.99	3934.717	945.0988	2685.352

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161772BL Acquired: 06/30/2024 16:08:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS772 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000564**	**.0011686**	**-.000900**	**.0006121**	**.0010256**	**.0046869**	**-.000310**
Stddev	.002296	.0007330	.001967	.0053475	.0016379	.0068820	.000323
%RSD	407.0997	62.72775	218.5223	873.6670	159.7023	146.8368	104.0695
#1	-.003026	.0009573	-.001869	.0051924	.0022961	-.002315	-.000255
#2	.001521	.0019841	-.002195	-.005264	.0016038	.011442	-.000657
#3	-.000187	.0005644	.001363	.001908	-.000823	.004934	-.000019

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000034**	**-.000181**	**-.001667**	**-.000844**	**-.000084**	**.0020906**	**.0087680**
Stddev	.0000476	.000076	.015203	.000560	.000177	.0022113	.0118918
%RSD	1405.243	42.15044	911.9115	66.36037	210.7028	105.7702	135.6272
#1	-.000050	-.000149	-.019208	-.000199	.000064	.0021010	.0170560
#2	.000041	-.000126	.006515	-.001127	-.000280	.0042967	.0141053
#3	.000019	-.000268	.007692	-.001208	-.000036	-.000126	-.004857

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000078**	**-.042457**	**-.000069**	**.0006866**	**-.159030**	**-.000784**	**-.002804**
Stddev	.000966	.030923	.000423	.0002288	.106295	.001130	.007128
%RSD	1235.964	72.83322	616.2101	33.32638	66.83935	144.2259	254.2173
#1	-.001185	-.047126	-.000457	.0004301	-.247612	.000389	-.003300
#2	.000593	-.070781	.000382	.0008697	-.041163	-.001866	-.009670
#3	.000357	-.009465	-.000130	.0007600	-.188317	-.000873	.004559

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.030250**	**.0020890**	**-.000592**	**-.000713**	**-.003124**	**.0033012**	**.0006941**
Stddev	.052274	.0027083	.000746	.000108	.001570	.0000899	.0008818
%RSD	172.8104	129.6457	125.8896	15.13831	50.25949	2.723776	127.0494
#1	-.058038	-.000379	.000185	-.000721	-.003950	.0032089	-.000189
#2	-.062761	.004986	-.001302	-.000816	-.004108	.0033885	.001575
#3	.030050	.001660	-.000660	-.000601	-.001313	.0033062	.000696

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161772BL Acquired: 06/30/2024 16:08:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS772 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.001765	-.000359	-.000235
Stddev	.001240	.002903	.000112
%RSD	70.24945	809.3829	47.66325
#1	-.001733	-.003177	-.000163
#2	-.000541	.002622	-.000364
#3	-.003019	-.000521	-.000179

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1706.071	29805.96	3930.310	943.7016	2753.413
Stddev	4.664	215.51	4.699	2.5089	6.567
%RSD	.2733657	.7230438	.1195491	.2658596	.2384883
#1	1704.664	29816.54	3935.390	942.7894	2751.249
#2	1711.277	29585.35	3926.120	941.7764	2760.789
#3	1702.274	30015.98	3929.420	946.5390	2748.202

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161772BS Acquired: 06/30/2024 16:13:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS772 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0150857**	**.0486654**	**.0171455**	**.0626799**	**.1063964**	**.3707030**
Stddev	.0025645	.0003854	.0010096	.0020614	.0006385	.0094436
%RSD	16.99952	.7919471	5.888572	3.288813	.6001405	2.547498
#1	.0166296	.0485865	.0163045	.0632913	.1056597	.3742588
#2	.0121254	.0490842	.0182652	.0643666	.1067383	.3599977
#3	.0165022	.0483256	.0168669	.0603820	.1067911	.3778526

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3843683**	**.0100335**	**.0095871**	**9.905699**	**.0202716**	**.0888943**
Stddev	.0008475	.0001172	.0000294	.027133	.0007687	.0002586
%RSD	.2205005	1.167883	.3069558	.2739124	3.792125	.2908746
#1	.3847956	.0099012	.0096167	9.903785	.0203287	.0890783
#2	.3849170	.0100750	.0095867	9.933738	.0194759	.0890059
#3	.3833921	.0101243	.0095578	9.879573	.0210102	.0885987

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0505464**	**.2094382**	**.0315342**	**9.441147**	**.0749489**	**.0187065**
Stddev	.0020478	.0060489	.0009456	.081829	.0007495	.0002118
%RSD	4.051307	2.888142	2.998789	.8667240	1.000009	1.132437
#1	.0503913	.2164204	.0326259	9.514006	.0754619	.0184771
#2	.0485806	.2057872	.0309699	9.456819	.0740888	.0187475
#3	.0526673	.2061069	.0310068	9.352615	.0752960	.0188948

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.525451**	**.1011017**	**.0970738**	**8.974202**	**.0159213**	F **.0001098**
Stddev	.150114	.0024984	.0030595	.032887	.0027704	.0013834
%RSD	1.575929	2.471202	3.151749	.3664576	17.40080	1260.567
#1	9.640014	.0989953	.0961045	8.977407	.0136287	-.001237
#2	9.580823	.1038621	.1005005	9.005369	.0189997	.001527
#3	9.355516	.1004478	.0946163	8.939830	.0151355	.000039

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161772BS Acquired: 06/30/2024 16:13:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS772 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0182139	.1552386	F .4735413	.0114704	.1907580	F .0569665
Stddev	.0001149	.0009843	.0008028	.0010711	.0011625	.0040034
%RSD	.6308440	.6340259	.1695217	9.337898	.6094324	7.027667
#1	.0180836	.1563626	.4744638	.0111546	.1913467	.0524365
#2	.0183009	.1548225	.4730017	.0105927	.1915084	.0584337
#3	.0182570	.1545308	.4731583	.0126639	.1894189	.0600293

Elem	Sr4077
Units	ppm
Avg	.1960738
Stddev	.0012730
%RSD	.6492358
#1	.1956139
#2	.1975129
#3	.1950948

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1690.419	29413.32	3914.673	934.9996	2679.800
Stddev	3.044	131.11	9.566	4.7049	4.424
%RSD	.1800708	.4457670	.2443722	.5032014	.1650793
#1	1693.596	29420.03	3923.166	935.1935	2684.098
#2	1690.133	29540.94	3904.309	939.6045	2680.041
#3	1687.528	29278.97	3916.544	930.2006	2675.260

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161774BL Acquired: 06/30/2024 16:17:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS774 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004730**	**-.001473**	**-.001103**	**-.000269**	**.0011591**	**-.001043**	**-.000081**
Stddev	.0028111	.000375	.000878	.001964	.0005221	.008841	.000275
%RSD	594.3181	25.42750	79.62353	731.1894	45.04113	847.9746	339.0478
#1	-.002418	-.001598	-.000805	.001890	.0007961	.008376	-.000160
#2	.003197	-.001052	-.000413	-.000744	.0017574	-.009161	-.000308
#3	.000640	-.001768	-.002092	-.001952	.0009237	-.002343	.000225

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000569**	**-.000169**	**-.008599**	**-.000194**	**-.000097**	**-.000055**	**.0001853**
Stddev	.0000744	.000054	.010417	.000408	.000140	.002903	.0149671
%RSD	130.6697	32.10744	121.1486	210.5702	144.1983	5243.634	8078.802
#1	-.000019	-.000124	-.009684	-.000243	-.000259	-.001847	-.006545
#2	.000130	-.000229	.002319	-.000575	-.000027	-.001614	.017336
#3	.000060	-.000154	-.018431	.000237	-.000006	.003294	-.010235

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000592**	**.0234139**	**.0001214**	**.0003227**	**-.208461**	**.0000871**	**-.008254**
Stddev	.000584	.0373890	.0000863	.0000247	.187034	.0010643	.004139
%RSD	98.70293	159.6872	71.09119	7.663139	89.72133	1222.563	50.13994
#1	-.000104	.0173901	.0000301	.0003188	-.088423	.0008529	-.003480
#2	-.000433	-.010597	.0002017	.0003492	-.112998	-.001128	-.010828
#3	-.001240	.063449	.0001324	.0003002	-.423964	.000536	-.010455

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.110174**	**.0000800**	**-.000272**	**-.000538**	**.0001502**	**.0024295**	**.0012052**
Stddev	.009180	.0028780	.000554	.000312	.0041730	.0003357	.0006057
%RSD	8.332013	3599.622	203.7886	58.08473	2777.847	13.81644	50.26230
#1	-.115904	-.001900	-.000852	-.000182	.0015137	.0021488	.0018970
#2	-.115032	-.001241	.000252	-.000766	.0034709	.0028013	.0007701
#3	-.099586	.003381	-.000215	-.000666	-.004534	.0023383	.0009484

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161774BL Acquired: 06/30/2024 16:17:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS774 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000078	-.001194	-.000184
Stddev	.001482	.003712	.000069
%RSD	1898.134	310.8247	37.50005
#1	.001554	.002732	-.000125
#2	-.000447	-.001667	-.000167
#3	-.001341	-.004648	-.000260

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1714.685	29753.67	3928.330	946.7872	2761.474
Stddev	2.498	119.30	15.667	3.4908	3.148
%RSD	.1456802	.4009452	.3988269	.3686978	.1139894
#1	1715.935	29665.30	3931.400	945.5500	2763.566
#2	1716.311	29706.34	3911.355	950.7281	2763.002
#3	1711.808	29889.37	3942.235	944.0835	2757.854

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161774BS Acquired: 06/30/2024 16:22:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS774 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0146892**	**.0484089**	**.0185289**	**.0624733**	**.1084406**	**.3712950**
Stddev	.0047939	.0008873	.0005655	.0009662	.0015222	.0096212
%RSD	32.63564	1.832857	3.052000	1.546546	1.403743	2.591250
#1	.0118669	.0473853	.0179040	.0618395	.1067181	.3660785
#2	.0202243	.0489589	.0190053	.0635853	.1089985	.3654087
#3	.0119763	.0488824	.0186776	.0619950	.1096051	.3823979

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3828721**	**.0099396**	**.0097011**	**9.884968**	**.0208379**	**.0889465**
Stddev	.0007097	.0000742	.0000368	.052819	.0014464	.0002661
%RSD	.1853534	.7467124	.3797588	.5343364	6.941324	.2992162
#1	.3820713	.0098743	.0096941	9.881798	.0201477	.0890249
#2	.3831216	.0100203	.0096682	9.833805	.0225001	.0891646
#3	.3834233	.0099243	.0097409	9.939300	.0198658	.0886499

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0498583**	**.2144704**	**.0305520**	**9.360569**	**.0760247**	**.0187648**
Stddev	.0019881	.0123892	.0009916	.094596	.0007028	.0001558
%RSD	3.987512	5.776636	3.245794	1.010580	.9244571	.8303263
#1	.0502833	.2022410	.0302523	9.253966	.0765531	.0189342
#2	.0476921	.2270134	.0297447	9.393251	.0752271	.0187327
#3	.0515996	.2141568	.0316589	9.434492	.0762939	.0186275

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.268856**	**.0978127**	**.1016395**	**8.801425**	**.0195515**	F **-.000097**
Stddev	.145780	.0013590	.0054670	.029357	.0027972	.001086
%RSD	1.572799	1.389342	5.378853	.3335512	14.30706	1115.323
#1	9.101875	.0974200	.1079169	8.775460	.0175909	.001008
#2	9.333908	.0993248	.0979225	8.833281	.0183088	-.001163
#3	9.370784	.0966934	.0990790	8.795535	.0227548	-.000137

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161774BS Acquired: 06/30/2024 16:22:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS774 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0187462	.1588617	F .4704593	.0110541	.1888242	F .0554454
Stddev	.0004064	.0059270	.0007238	.0002256	.0012465	.0031021
%RSD	2.167999	3.730893	.1538454	2.040568	.6601141	5.594854
#1	.0186813	.1596381	.4700250	.0110502	.1875476	.0585400
#2	.0183762	.1525847	.4700581	.0108305	.1888868	.0523359
#3	.0191812	.1643621	.4712948	.0112816	.1900381	.0554604

Elem	Sr4077
Units	ppm
Avg	.1926850
Stddev	.0015054
%RSD	.7812584
#1	.1909684
#2	.1937798
#3	.1933070

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1691.493	29250.92	3942.458	935.8328	2673.922
Stddev	.327	135.04	5.302	4.7876	2.756
%RSD	.0193337	.4616587	.1344933	.5115827	.1030693
#1	1691.142	29146.42	3942.474	931.1291	2673.138
#2	1691.789	29202.95	3937.148	935.6695	2676.985
#3	1691.549	29403.40	3947.753	940.7000	2671.643

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161775BL Acquired: 06/30/2024 16:26:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS775 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015351	-.001617	-.001227	-.001727	.0006575	-.004701	-.000226
Stddev	.0041979	.002936	.000721	.001605	.0018799	.008906	.000362
%RSD	273.4567	181.5648	58.75961	92.93214	285.8978	189.4594	160.5015
#1	-.001326	-.000578	-.001191	-.002947	.0022258	-.002453	-.000631
#2	-.000423	.000658	-.001965	-.002324	-.001426	-.014515	.000068
#3	.006354	-.004931	-.000524	.000091	.001173	.002866	-.000114

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000009	-.000135	.0045803	-.000743	-.000150	.0002625	.0068237
Stddev	.000069	.000066	.0029742	.001395	.000205	.0027289	.0123511
%RSD	769.3645	48.78771	64.93462	187.6607	136.1263	1039.459	181.0022
#1	-.000003	-.000203	.0019874	-.002340	.000085	-.001680	.0210459
#2	.000056	-.000130	.0039265	-.000126	-.000251	.003383	.0006333
#3	-.000081	-.000071	.0078271	.000237	-.000285	-.000915	-.001208

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000360	-.048382	-.000356	.0001457	-.063353	-.002127	-.000540
Stddev	.000511	.049736	.000356	.0004437	.103451	.002581	.005482
%RSD	142.1726	102.8000	100.0789	304.5437	163.2918	121.3106	1014.483
#1	.000200	-.012296	.000033	-.000366	-.018927	-.002444	-.005799
#2	-.000478	-.105116	-.000433	.000429	.010464	.000597	-.000962
#3	-.000802	-.027733	-.000668	.000374	-.181596	-.004535	.005140

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.106741	.0015602	-.001148	-.000312	-.002251	.0028134	-.000306
Stddev	.037029	.0031472	.000098	.000242	.005297	.0003704	.000330
%RSD	34.69023	201.7132	8.550456	77.60880	235.3275	13.16487	107.8471
#1	-.077783	-.001223	-.001200	-.000218	.003328	.0029952	-.000378
#2	-.148464	.000929	-.001210	-.000132	-.007212	.0023872	.000054
#3	-.093978	.004975	-.001035	-.000588	-.002869	.0030576	-.000594

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161775BL Acquired: 06/30/2024 16:26:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS775 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0007463	-.000970	-.000165
Stddev	.0011331	.000651	.000076
%RSD	151.8206	67.09006	45.98847
#1	-.000337	-.001338	-.000080
#2	.001923	-.000219	-.000227
#3	.000652	-.001353	-.000189

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1714.144	29757.40	3932.730	943.8838	2760.564
Stddev	.767	111.89	5.195	3.9804	3.073
%RSD	.0447403	.3760170	.1321009	.4217072	.1113004
#1	1713.410	29630.14	3933.945	939.3962	2760.806
#2	1714.082	29840.37	3927.035	945.2673	2763.508
#3	1714.941	29801.69	3937.210	946.9878	2757.377

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161775BS Acquired: 06/30/2024 16:31:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS775 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0172174	.0513322	.0207689	.0632545	.1105002	.3783964
Stddev	.0014515	.0004051	.0006698	.0036535	.0014325	.0025915
%RSD	8.430517	.7892569	3.224911	5.775925	1.296359	.6848534
#1	.0156759	.0517980	.0209993	.0665980	.1114900	.3796473
#2	.0174183	.0510625	.0212932	.0593547	.1111529	.3754168
#3	.0185581	.0511359	.0200144	.0638108	.1088576	.3801251

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3937959	.0102517	.0098251	10.19620	.0213223	.0918010
Stddev	.0014783	.0001464	.0000263	.01818	.0005326	.0003406
%RSD	.3754066	1.428405	.2675781	.1782707	2.497684	.3709979
#1	.3950010	.0101204	.0098530	10.20658	.0209519	.0918371
#2	.3921463	.0102250	.0098008	10.17521	.0210824	.0914438
#3	.3942405	.0104096	.0098215	10.20681	.0219326	.0921221

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0552457	.2198828	.0312108	9.700063	.0775242	.0198432
Stddev	.0027182	.0042445	.0006397	.054776	.0002330	.0002862
%RSD	4.920240	1.930334	2.049559	.5646938	.3005931	1.442280
#1	.0531101	.2181471	.0317459	9.691821	.0777883	.0195151
#2	.0543215	.2247200	.0313843	9.649876	.0774370	.0199728
#3	.0583056	.2167812	.0305023	9.758493	.0773473	.0200416

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.557391	.1023140	.0976520	9.223421	.0200740	F .0000017
Stddev	.183445	.0002409	.0108308	.085105	.0017599	.0013345
%RSD	1.919407	.2354328	11.09120	.9227101	8.766967	78066.40
#1	9.354275	.1021230	.0879540	9.308943	.0182447	-.000701
#2	9.606893	.1025846	.1093397	9.138738	.0202224	.001541
#3	9.711006	.1022344	.0956622	9.222582	.0217550	-.000835

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161775BS Acquired: 06/30/2024 16:31:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS775 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0188352	.1613272	F .4873044	.0119144	.1960154	F .0574403
Stddev	.0005473	.0002496	.0016006	.0010953	.0002210	.0024885
%RSD	2.905814	.1547427	.3284677	9.192858	.1127671	4.332231
#1	.0182271	.1611847	.4856512	.0118041	.1960027	.0594691
#2	.0189902	.1611815	.4888467	.0130607	.1962425	.0581881
#3	.0192884	.1616155	.4874152	.0108785	.1958010	.0546637

Elem	Sr4077
Units	ppm
Avg	.2010788
Stddev	.0009404
%RSD	.4676707
#1	.2020812
#2	.2002161
#3	.2009389

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1697.279	29404.46	3905.392	941.7197	2679.970
Stddev	3.711	435.89	9.935	10.7322	5.475
%RSD	.2186511	1.482403	.2543958	1.139636	.2043058
#1	1693.859	29902.80	3900.269	953.8201	2681.456
#2	1701.225	29094.12	3899.063	933.3533	2684.550
#3	1696.755	29216.45	3916.843	937.9856	2673.905

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161777BL Acquired: 06/30/2024 16:35:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS777 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001605**	**-.001029**	**-.001113**	**.0003826**	**.0019480**	**.0019195**	**-.000359**
Stddev	.001823	.001608	.000959	.0027715	.0022616	.0086328	.000297
%RSD	113.5832	156.3229	86.12638	724.4096	116.0982	449.7342	82.69970
#1	-.001931	-.001422	-.002215	-.002371	.0010692	-.007281	-.000082
#2	.000359	.000740	-.000477	.003172	.0002577	.009843	-.000322
#3	-.003242	-.002403	-.000647	.000347	.0045171	.003196	-.000674

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000052**	**-.000141**	**-.015508**	**.0001433**	**-.000236**	**-.000629**	**-.002033**
Stddev	.0000520	.000105	.001726	.0009629	.000242	.001799	.010409
%RSD	1004.881	74.51632	11.12931	672.0309	102.6981	286.2123	512.1215
#1	.0000222	-.000163	-.013694	.0012432	-.000161	-.000373	-.000414
#2	-.000053	-.000233	-.017130	-.000548	-.000507	.001029	-.013156
#3	.000047	-.000027	-.015700	-.000266	-.000040	-.002542	.007472

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.000476**	**-.029061**	**-.000236**	**.0004409**	**-.206603**	**.0013841**	**-.004475**
Stddev	.000246	.038892	.000223	.0002567	.189007	.0032341	.002502
%RSD	51.74267	133.8306	94.41339	58.23664	91.48292	233.6646	55.91899
#1	-.000637	-.024915	-.000121	.0001718	-.404639	.0049920	-.003262
#2	-.000192	-.069860	-.000493	.0006832	-.028151	-.001254	-.007353
#3	-.000599	.007593	-.000094	.0004676	-.187020	.000415	-.002810

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.119601**	**.0009411**	**-.001624**	**-.000254**	**-.003761**	**.0010557**	**-.000785**
Stddev	.040172	.0019522	.000644	.000445	.000942	.0006017	.000274
%RSD	33.58805	207.4493	39.68545	175.2092	25.04414	57.00032	34.93313
#1	-.165948	-.000928	-.000979	.000067	-.004547	.0013253	-.000472
#2	-.098077	.002967	-.001625	-.000761	-.004020	.0003663	-.000985
#3	-.094778	.000784	-.002267	-.000067	-.002717	.0014754	-.000898

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161777BL Acquired: 06/30/2024 16:35:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS777 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0002470	-.002212	-.000235
Stddev	.0008885	.001230	.000042
%RSD	359.7307	55.61526	17.89238
#1	.0011613	-.001346	-.000186
#2	-.000613	-.003620	-.000262
#3	.000193	-.001669	-.000256

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1712.613	29739.46	3937.952	944.8368	2754.458
Stddev	3.700	247.38	7.178	10.1968	1.868
%RSD	.2160576	.8318118	.1822777	1.079215	.0678101
#1	1711.266	29559.08	3938.400	935.1500	2752.326
#2	1716.798	29637.84	3930.560	943.8837	2755.244
#3	1709.774	30021.46	3944.895	955.4767	2755.805

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161777BS Acquired: 06/30/2024 16:40:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS777 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0166453**	**.0508938**	**.0183877**	**.0636645**	**.1099257**	**.3853981**
Stddev	.0039698	.0004916	.0001353	.0009730	.0014519	.0122629
%RSD	23.84905	.9659290	.7359959	1.528350	1.320830	3.181865
#1	.0211354	.0505631	.0182673	.0634727	.1106902	.3994494
#2	.0136014	.0506597	.0183617	.0647191	.1108357	.3798880
#3	.0151991	.0514587	.0185341	.0628016	.1082513	.3768568

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3900251**	**.0100937**	**.0097793**	**10.08503**	**.0205602**	**.0911669**
Stddev	.0016465	.0000286	.0000811	.01580	.0006673	.0003705
%RSD	.4221430	.2838033	.8297898	.1566583	3.245717	.4064073
#1	.3892315	.0100784	.0098368	10.06727	.0208064	.0909164
#2	.3919181	.0101267	.0098146	10.09754	.0198047	.0909919
#3	.3889257	.0100759	.0096865	10.09027	.0210694	.0915925

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0535878**	**.2127750**	**.0312057**	**9.619719**	**.0768397**	**.0191608**
Stddev	.0029154	.0198736	.0002728	.083646	.0007013	.0002969
%RSD	5.440455	9.340196	.8743046	.8695293	.9126713	1.549798
#1	.0510012	.1926124	.0315163	9.600564	.0771312	.0194892
#2	.0530152	.2323464	.0310048	9.547311	.0760397	.0190821
#3	.0567471	.2133661	.0310959	9.711281	.0773483	.0189112

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.455577**	**.0989398**	**.0994888**	**9.167733**	**.0176201**	F **-.000107**
Stddev	.103176	.0021552	.0017303	.029580	.0036452	.000987
%RSD	1.091165	2.178281	1.739191	.3226486	20.68796	922.7653
#1	9.337021	.0967297	.0986978	9.162526	.0173948	.000766
#2	9.504677	.0990542	.1014732	9.141103	.0140927	.000091
#3	9.525033	.1010355	.0982953	9.199571	.0213728	-.001178

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: PB161777BS Acquired: 06/30/2024 16:40:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS777 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0192004	.1585440	F .4778968	.0122142	.1925462	F .0539637
Stddev	.0003964	.0043538	.0012806	.0004586	.0017091	.0008359
%RSD	2.064483	2.746112	.2679616	3.754322	.8876523	1.549010
#1	.0194164	.1634338	.4764730	.0120793	.1931463	.0548908
#2	.0187429	.1550878	.4789543	.0127250	.1906180	.0532676
#3	.0194418	.1571103	.4782630	.0118382	.1938744	.0537327

Elem	Sr4077
Units	ppm
Avg	.1975639
Stddev	.0006438
%RSD	.3258560
#1	.1979201
#2	.1968208
#3	.1979509

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1694.682	29329.37	3944.228	934.6052	2683.448
Stddev	1.962	30.33	13.739	3.6313	3.936
%RSD	.1157653	.1034035	.3483286	.3885403	.1466646
#1	1694.307	29342.91	3936.593	931.5280	2684.432
#2	1696.804	29350.57	3960.089	938.6105	2686.798
#3	1692.935	29294.63	3936.003	933.6770	2679.114

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2817-11 Acquired: 06/30/2024 16:44:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD576 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1921760**	**-.014120**	**2.048060**	**-.043400**	**.0130778**	**84.91439**
Stddev	.0045161	.004413	.010958	.003256	.0028334	.22732
%RSD	2.350005	31.25574	.5350405	7.503295	21.66549	.2677081
#1	.1892135	-.019071	2.058176	-.039847	.0118750	84.97448
#2	.1973738	-.010599	2.036420	-.046243	.0110442	84.66307
#3	.1899405	-.012689	2.049585	-.044110	.0163141	85.10564

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.390515**	**.0038848**	**.0250458**	**91.02335**	**.3462896**	**.1094192**
Stddev	.000477	.0000097	.0001469	.06520	.0008978	.0000509
%RSD	.0343115	.2499070	.5865534	.0716321	.2592737	.0464900
#1	1.390017	.0038801	.0250047	91.08813	.3473259	.1094767
#2	1.390968	.0038783	.0249239	91.02421	.3457450	.1094007
#3	1.390561	.0038960	.0252089	90.95773	.3457979	.1093802

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.686842**	**198.1018**	**7.187668**	**42.71492**	**.2871842**	**.0034705**
Stddev	.027331	.1697	.004692	.06825	.0009973	.0002455
%RSD	.7413208	.0856557	.0652774	.1597782	.3472863	7.073227
#1	3.695526	198.0763	7.187018	42.72364	.2882954	.0036572
#2	3.656224	197.9462	7.183335	42.77840	.2868908	.0031925
#3	3.708776	198.2827	7.192651	42.64274	.2863665	.0035619

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6961410**	**.2770195**	**2.931652**	**29.64979**	F **13.91337**	**.1166016**
Stddev	.3226235	.0012651	.026921	.11678	.01290	.0025758
%RSD	46.34456	.4566668	.9182818	.3938755	.0927433	2.209039
#1	1.033053	.2768577	2.937105	29.64730	13.91399	.1151455
#2	.390013	.2758432	2.902423	29.53427	13.90017	.1150836
#3	.665357	.2783577	2.955430	29.76779	13.92595	.1195756

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2817-11 Acquired: 06/30/2024 16:44:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD576 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044621	4.458729	8.535887	.1450853	1.093055	.1164903
Stddev	.0005263	.029721	.041361	.0010809	.005824	.0012670
%RSD	11.79470	.6665698	.4845509	.7449945	.5327934	1.087602
#1	.0041745	4.443871	8.571172	.1447701	1.095470	.1159074
#2	.0041424	4.439367	8.546119	.1441971	1.086412	.1156197
#3	.0050695	4.492948	8.490371	.1462888	1.097282	.1179438

Elem	Sr4077
Units	ppm
Avg	.2764015
Stddev	.0016860
%RSD	.6099865
#1	.2761285
#2	.2748686
#3	.2782073

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1825.794	31794.36	4418.827	1005.365	2483.258
Stddev	6.797	76.63	17.901	2.292	4.926
%RSD	.3722655	.2410154	.4051035	.2279912	.1983763
#1	1823.800	31722.61	4398.161	1003.169	2482.159
#2	1833.365	31875.08	4429.493	1007.742	2488.641
#3	1820.217	31785.39	4428.828	1005.184	2478.974

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2814-19DLX3 Acquired: 06/30/2024 16:49:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD522 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.429432**	**-.008445**	**.4411721**	**-.025677**	**.0082969**	**47.66956**	**.4676164**
Stddev	.012681	.001655	.0019495	.001561	.0018884	.10017	.0005549
%RSD	.5219819	19.59438	.4418850	6.080412	22.76080	.2101412	.1186653
#1	2.429355	-.010353	.4389920	-.026555	.0072449	47.68569	.4679918
#2	2.416789	-.007581	.4417765	-.026602	.0104770	47.76069	.4678784
#3	2.442151	-.007401	.4427478	-.023875	.0071687	47.56230	.4669791

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0018816**	**.0023393**	**21.92689**	**.0473803**	**.0585820**	**.3954892**	**128.1476**
Stddev	.0000225	.0000346	.03826	.0008426	.0005910	.0005074	.1798
%RSD	1.197079	1.476826	.1744675	1.778393	1.008933	.1282829	.1403424
#1	.0019007	.0023262	21.97100	.0474750	.0587075	.3957564	128.3118
#2	.0018567	.0023132	21.90692	.0464944	.0579383	.3958071	128.1755
#3	.0018874	.0023785	21.90275	.0481716	.0591003	.3949041	127.9554

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.948271**	**22.85102**	**.0697612**	**-.002222**	**.2651655**	**.1933475**	**.5944823**
Stddev	.003669	.05538	.0001907	.000380	.1176224	.0024236	.0109778
%RSD	.1244329	.2423403	.2733714	17.09212	44.35811	1.253484	1.846619
#1	2.944143	22.89915	.0696792	-.002078	.1605804	.1942649	.5930083
#2	2.949509	22.79049	.0696252	-.001936	.2424148	.1951785	.5843159
#3	2.951160	22.86342	.0699792	-.002653	.3925014	.1905992	.6061226

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.06252**	**4.566548**	**.0560266**	**-.001466**	**.7156458**	**4.061947**	**.0026184**
Stddev	.02757	.032637	.0010496	.000272	.0081897	.026614	.0014649
%RSD	.2285797	.7146958	1.873460	18.54388	1.144381	.6552057	55.94772
#1	12.09058	4.563899	.0559474	-.001654	.7213761	4.056275	.0009386
#2	12.06150	4.535317	.0571136	-.001155	.7062657	4.038626	.0036305
#3	12.03546	4.600429	.0550188	-.001590	.7192956	4.090940	.0032861

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2814-19DLX3 Acquired: 06/30/2024 16:49:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD522 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.8341656	.0633593	.0869275
Stddev	.0043779	.0014312	.0003228
%RSD	.5248227	2.258819	.3713495
#1	.8380103	.0626015	.0871789
#2	.8350856	.0650101	.0870402
#3	.8294008	.0624664	.0865635

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1778.082	30419.52	4178.505	971.4936	2578.468
Stddev	5.484	283.02	16.501	5.5616	8.342
%RSD	.3084363	.9304020	.3949106	.5724809	.3235121
#1	1780.589	30466.70	4172.571	973.9500	2583.755
#2	1781.864	30675.99	4197.152	975.4041	2582.797
#3	1771.792	30115.87	4165.791	965.1267	2568.851

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-21 Acquired: 06/30/2024 16:53:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4E4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3031964	-.020056	.1914738	-.065353	.0177985	121.7871	1.340521
Stddev	.0041075	.003390	.0052795	.007064	.0019564	.2817	.002717
%RSD	1.354743	16.90404	2.757285	10.80952	10.99187	.2313094	.2026487
#1	.2989056	-.020315	.1859646	-.071309	.0179348	121.9372	1.339942
#2	.3070921	-.016544	.1919679	-.057548	.0157775	121.4621	1.338141
#3	.3035914	-.023310	.1964888	-.067201	.0196832	121.9619	1.343480

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057794	.0021909	53.16473	.1606523	.1414906	.3037518	265.0463
Stddev	.0001366	.0002632	.06888	.0014783	.0003089	.0045419	.4521
%RSD	2.364465	12.01493	.1295592	.9202049	.2183325	1.495279	.1705814
#1	.0058762	.0019107	53.18488	.1622777	.1411341	.3078014	265.4856
#2	.0056231	.0022291	53.08802	.1593880	.1416783	.2988409	264.5824
#3	.0058389	.0024330	53.22129	.1602912	.1416595	.3046132	265.0711

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.590818	46.86976	.2088327	-.006714	.9706453	.4221586	.7392047
Stddev	.001810	.13755	.0006574	.000056	.0309649	.0018035	.0126172
%RSD	.0274624	.2934716	.3147871	.8309947	3.190139	.4271971	1.706864
#1	6.591617	46.99389	.2094429	-.006708	1.003197	.4214616	.7292586
#2	6.588746	46.72188	.2081366	-.006662	.941559	.4208077	.7349582
#3	6.592092	46.89351	.2089187	-.006773	.967180	.4242066	.7533973

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	31.03816	9.403906	.1283450	-.000128	1.316692	5.277486	-.000302
Stddev	.14085	.034016	.0026779	.000439	.024409	.040698	.000453
%RSD	.4537825	.3617222	2.086490	342.6458	1.853809	.7711592	150.0682
#1	31.02229	9.395799	.1276508	.000257	1.319885	5.295843	-.000812
#2	30.90592	9.374676	.1260826	-.000035	1.290844	5.305772	-.000149
#3	31.18627	9.441243	.1313017	-.000606	1.339348	5.230843	.000055

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-21 Acquired: 06/30/2024 16:53:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4E4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.972076	.1453832	.2120842
Stddev	.009338	.0034178	.0007122
%RSD	.2350872	2.350890	.3358062
#1	3.980782	.1414947	.2127873
#2	3.962214	.1467432	.2113632
#3	3.973233	.1479116	.2121022

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1933.238	33271.48	4635.734	1060.728	2437.765
Stddev	4.146	80.35	8.191	8.721	6.998
%RSD	.2144560	.2414995	.1766948	.8221292	.2870559
#1	1933.510	33266.72	4626.842	1066.417	2442.096
#2	1937.241	33354.11	4637.388	1065.080	2441.507
#3	1928.962	33193.62	4642.972	1050.689	2429.692

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2814-19DL2X2 Acquired: 06/30/2024 16:57:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD522 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.854292**	**-.015066**	**.8703704**	**-.053481**	**.0119950**	**90.18402**	**.8785486**
Stddev	.012420	.002433	.0017891	.004413	.0015534	.09724	.0011242
%RSD	.2558578	16.15210	.2055535	8.252228	12.95007	.1078270	.1279556
#1	4.862845	-.015459	.8723636	-.054066	.0137019	90.28128	.8796525
#2	4.859986	-.017278	.8698440	-.057573	.0106642	90.08679	.8774053
#3	4.840046	-.012460	.8689035	-.048804	.0116190	90.18398	.8785881

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0035397**	**.0052559**	**41.13802**	**.0872341**	**.1163213**	**.7318782**	**237.5864**
Stddev	.0001138	.0001198	.10633	.0006517	.0004199	.0042916	.6607
%RSD	3.215534	2.280084	.2584665	.7470787	.3609683	.5863864	.2780946
#1	.0034262	.0051510	41.22285	.0865094	.1167826	.7286545	238.1140
#2	.0035390	.0052301	41.01874	.0874209	.1162197	.7302307	236.8454
#3	.0036538	.0053865	41.17248	.0877721	.1159615	.7367495	237.7999

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.475485**	**42.96236**	**.1387464**	**-.004230**	**.4398488**	**.3591900**	**1.082373**
Stddev	.020174	.18519	.0003129	.000077	.0308025	.0025630	.006148
%RSD	.3684332	.4310512	.2255392	1.831373	7.002981	.7135353	.5679653
#1	5.491452	43.16377	.1388692	-.004190	.4422459	.3603345	1.088033
#2	5.452813	42.79943	.1389794	-.004181	.4079177	.3562542	1.083252
#3	5.482191	42.92389	.1383908	-.004320	.4693827	.3609813	1.075833

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.95300**	**9.062089**	**.1035153**	**-.000857**	**1.435752**	**7.763930**	**.0035715**
Stddev	.04059	.017109	.0031683	.000099	.007033	.009745	.0007268
%RSD	.1768226	.1887955	3.060749	11.50246	.4898405	.1255109	20.34947
#1	22.92793	9.078101	.1065250	-.000743	1.442142	7.761903	.0032717
#2	22.93123	9.064104	.1002092	-.000909	1.436897	7.774529	.0044002
#3	22.99982	9.044062	.1038119	-.000918	1.428217	7.755359	.0030425

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2814-19DL2X2 Acquired: 06/30/2024 16:57:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD522 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.579462	.1246768	.1620805
Stddev	.003070	.0024696	.0001730
%RSD	.1943550	1.980793	.1067527
#1	1.579486	.1231787	.1622803
#2	1.576381	.1275272	.1619802
#3	1.582520	.1233246	.1619810

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1844.690	31889.36	4366.859	1020.872	2497.443
Stddev	.863	148.35	9.446	5.330	.524
%RSD	.0467968	.4651949	.2163040	.5221441	.0209887
#1	1845.531	31734.78	4356.354	1014.746	2497.321
#2	1844.733	32030.57	4369.573	1023.427	2496.991
#3	1843.806	31902.74	4374.651	1024.445	2498.017

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: CCV003 Acquired: 06/30/2024 17:02:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV003 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.946520**	**4.805636**	**24.20830**	**4.726002**	**4.802205**	**402.5326**	**9.847466**
Stddev	.026367	.021545	.06816	.010694	.018733	1.1331	.024025
%RSD	.5330324	.4483211	.2815769	.2262902	.3900988	.2815023	.2439698
#1	4.916907	4.791671	24.17338	4.724235	4.781472	401.3672	9.844816
#2	4.955201	4.794789	24.16467	4.716300	4.817915	403.6305	9.872706
#3	4.967451	4.830449	24.28685	4.737469	4.807226	402.6001	9.824876

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4834545**	**2.434636**	**392.6770**	**15.15500**	**2.441906**	**14.36526**	**398.5703**
Stddev	.0017665	.003869	1.3404	.01518	.003350	.08073	1.5970
%RSD	.3653899	.1589109	.3413377	.1001596	.1371951	.5619776	.4006843
#1	.4837841	2.431518	391.8616	15.14975	2.439930	14.27207	397.6924
#2	.4815465	2.433425	394.2239	15.14314	2.440014	14.41393	400.4137
#3	.4850331	2.438966	391.9454	15.17211	2.445774	14.40978	397.6048

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.43135**	**389.9416**	**2.462903**	**1.251451**	**390.9952**	**2.412106**	**14.50610**
Stddev	.05280	1.2293	.002444	.005444	1.0069	.010331	.14488
%RSD	.3658904	.3152592	.0992291	.4350004	.2575331	.4282864	.9987441
#1	14.39942	389.3353	2.460193	1.245166	390.6978	2.403230	14.34692
#2	14.49229	391.3563	2.463577	1.254514	392.1174	2.423446	14.63027
#3	14.40232	389.1332	2.464939	1.254673	390.1705	2.409643	14.54109

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**147.7050**	**4.940155**	**4.872200**	**4.763497**	**4.965932**	**4.810689**	**4.884764**
Stddev	1.1872	.013418	.027049	.006308	.033657	.030006	.019348
%RSD	.8037580	.2716106	.5551681	.1324274	.6777639	.6237360	.3960880
#1	146.4805	4.932309	4.869323	4.756218	4.927321	4.809396	4.878736
#2	147.7834	4.932506	4.846705	4.767357	4.989075	4.781351	4.869148
#3	148.8510	4.955648	4.900573	4.766917	4.981400	4.841321	4.906409

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: CCV003 Acquired: 06/30/2024 17:02:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV003 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.793223**	**4.924398**	**4.784292**
Stddev	.029042	.013975	.017871
%RSD	.6059009	.2837943	.3735259
#1	4.768847	4.922810	4.788293
#2	4.825356	4.939099	4.799823
#3	4.785466	4.911284	4.764760

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1380.563**	**25012.76**	**3710.738**	**751.4861**	**1981.848**
Stddev	.141	142.81	4.866	6.8165	3.144
%RSD	.0102247	.5709660	.1311278	.9070659	.1586420
#1	1380.724	25112.79	3716.349	758.5442	1981.594
#2	1380.457	24849.20	3708.182	744.9402	1985.111
#3	1380.509	25076.27	3707.682	750.9740	1978.838

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: CCB003 Acquired: 06/30/2024 17:06:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) 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	.0029354	-.000107	-.000505	.0005955	.0018825	-.001471	.0006690
Stddev	.0009264	.000990	.001052	.0026110	.0014091	.008093	.0005572
%RSD	31.55957	922.0208	208.4215	438.4298	74.85119	550.0918	83.29521
#1	.0020806	-.001156	-.001704	.0011350	.0012723	-.010716	.0000975
#2	.0039197	.000023	-.000068	-.002243	.0034938	.004338	.0006987
#3	.0028057	.000811	.000259	.002895	.0008814	.001964	.0012108

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000219	-.000031	.0011456	-.000482	-.000249	.0048535	.0149543
Stddev	.0000808	.000098	.0063608	.001010	.000040	.0031299	.0266034
%RSD	369.3547	314.6126	555.2177	209.7719	16.11274	64.48781	177.8973
#1	-.000040	-.000066	-.000212	-.001176	-.000287	.0067249	.0449866
#2	.000113	-.000106	.008076	-.000946	-.000251	.0065956	.0055315
#3	-.000007	.000079	-.004427	.000677	-.000207	.0012402	-.005655

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007933	.0113759	-.000005	.0002901	-.329177	.0006197	-.000941
Stddev	.0003762	.0257534	.000417	.0000383	.136622	.0008216	.003074
%RSD	47.42447	226.3859	8643.601	13.19250	41.50394	132.5704	326.6242
#1	.0010287	-.014609	-.000115	.0002660	-.188953	.0000930	-.002730
#2	.0003594	.036892	.000456	.0002700	-.336693	.0001998	.002608
#3	.0009919	.011845	-.000356	.0003342	-.461886	.0015664	-.002701

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1647591	-.000922	.0083692	-.000299	.0015062	.0010666	.0011031
Stddev	.0940969	.002297	.0006239	.000184	.0021288	.0011263	.0004241
%RSD	57.11179	249.1685	7.454917	61.67093	141.3305	105.6006	38.44471
#1	.1110734	-.003544	.0088259	-.000090	.0028874	.0000956	.0006584
#2	.2734103	.000048	.0086232	-.000438	.0025767	.0008027	.0015030
#3	.1097935	.000731	.0076583	-.000369	-.000945	.0023013	.0011479

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: CCB003 Acquired: 06/30/2024 17:06:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) 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	**-.000449**	**-.001987**	**.0000080**
Stddev	.001057	.001127	.0000609
%RSD	235.4455	56.73997	760.2955
#1	-.001350	-.001495	.0000151
#2	.000715	-.001189	.0000651
#3	-.000712	-.003277	-.000056

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1713.148**	**29629.61**	**3931.017**	**938.1338**	**2766.088**
Stddev	.579	15.17	14.143	1.5753	1.257
%RSD	.0337875	.0511967	.3597803	.1679171	.0454424
#1	1712.832	29616.60	3940.925	939.9500	2766.850
#2	1712.796	29625.95	3937.305	937.3130	2766.778
#3	1713.816	29646.27	3914.820	937.1384	2764.638

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-01 Acquired: 06/30/2024 17:11:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4C6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5868672	-.034425	.3353920	-.107367	.0539073	123.6714
Stddev	.0081916	.001945	.0028184	.005356	.0030287	.9600
%RSD	1.395822	5.651011	.8403230	4.988733	5.618370	.7762109
#1	.5778417	-.034813	.3366737	-.103248	.0532211	124.0356
#2	.5889287	-.036148	.3321606	-.113422	.0512806	122.5827
#3	.5938311	-.032315	.3373418	-.105430	.0572203	124.3960

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.134700	.0058622	.0055266	52.23006	.1162875	.1707484
Stddev	.003061	.0000731	.0001893	.22446	.0008410	.0007573
%RSD	.2697954	1.247471	3.424704	.4297507	.7232222	.4434984
#1	1.134222	.0058075	.0053218	52.33222	.1170493	.1698763
#2	1.131906	.0059452	.0056951	51.97269	.1164281	.1711296
#3	1.137973	.0058338	.0055630	52.38526	.1153850	.1712393

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5083147	430.4419	6.481693	60.50094	.2139666	-.010758
Stddev	.0030384	2.2661	.021154	.43871	.0010317	.000797
%RSD	.5977303	.5264543	.3263701	.7251239	.4821653	7.411730
#1	.5071848	431.4172	6.487498	60.77937	.2150921	-.010379
#2	.5060031	427.8515	6.458243	59.99522	.2130659	-.011675
#3	.5117561	432.0570	6.499339	60.72822	.2137417	-.010222

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.426347	.7644717	1.391552	27.52577	F 17.52855	.1884538
Stddev	.160754	.0021897	.013808	.21999	.02789	.0025602
%RSD	11.27031	.2864395	.9922510	.7992273	.1591343	1.358514
#1	1.355855	.7647751	1.393839	27.64058	17.56036	.1913806
#2	1.312883	.7621461	1.404073	27.27212	17.51701	.1866303
#3	1.610304	.7664939	1.376743	27.66461	17.50828	.1873504

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-01 Acquired: 06/30/2024 17:11:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4C6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003509	2.861961	4.752368	.0014654	3.259219	.1669886
Stddev	.0000487	.010280	.023338	.0003187	.030837	.0004092
%RSD	13.87417	.3592055	.4910882	21.74867	.9461412	.2450298
#1	.0003342	2.873404	4.744726	.0014164	3.271865	.1671873
#2	.0004057	2.853505	4.733808	.0011740	3.224069	.1665181
#3	.0003127	2.858973	4.778569	.0018058	3.281723	.1672605

Elem	Sr4077
Units	ppm
Avg	.1827677
Stddev	.0017364
%RSD	.9500349
#1	.1838652
#2	.1807658
#3	.1836721

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1947.134	33537.76	4697.418	1069.262	2419.751
Stddev	2.201	86.34	11.542	9.078	3.154
%RSD	.1130634	.2574447	.2457032	.8489737	.1303577
#1	1945.323	33469.30	4693.034	1061.753	2416.125
#2	1949.585	33509.22	4710.509	1066.683	2421.862
#3	1946.494	33634.75	4688.709	1079.350	2421.267

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-02 Acquired: 06/30/2024 17:15:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4C7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4533991	-.035607	.2840043	-.112352	.0272466	177.7477
Stddev	.0064437	.001543	.0017194	.004429	.0056534	1.0445
%RSD	1.421186	4.333302	.6054001	3.942319	20.74887	.5876325
#1	.4460780	-.035219	.2834799	-.112124	.0328992	176.9021
#2	.4559099	-.037307	.2859248	-.116891	.0272482	178.9153
#3	.4582094	-.034296	.2826082	-.108041	.0215924	177.4256

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.240529	.0055615	.0043808	81.68574	.1655768	.2150335
Stddev	.004126	.0001159	.0002599	.26917	.0001854	.0016645
%RSD	.3325947	2.083498	5.933293	.3295155	.1119490	.7740448
#1	1.236922	.0055573	.0043206	81.49839	.1655682	.2146564
#2	1.245028	.0056795	.0041563	81.99418	.1653959	.2135899
#3	1.239638	.0054478	.0046656	81.56464	.1657663	.2168541

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5044892	450.0029	8.059198	74.23576	.2428128	-.011988
Stddev	.0047809	1.8704	.028063	.59149	.0002310	.000867
%RSD	.9476727	.4156312	.3482047	.7967702	.0951287	7.231867
#1	.5047261	448.3835	8.049773	73.77146	.2427063	-.012852
#2	.5091472	452.0501	8.090760	74.90170	.2430778	-.011118
#3	.4995942	449.5750	8.037062	74.03411	.2426543	-.011992

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.525087	.8199359	1.212173	20.85533	F 15.28900	.1904822
Stddev	.335289	.0062519	.020726	.17870	.08484	.0005473
%RSD	21.98493	.7624835	1.709831	.8568339	.5549190	.2873456
#1	1.771855	.8128604	1.206776	20.81433	15.29824	.1902712
#2	1.143347	.8222331	1.235063	21.05096	15.19992	.1911037
#3	1.660061	.8247142	1.194679	20.70070	15.36884	.1900718

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-02 Acquired: 06/30/2024 17:15:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4C7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.002622	2.119054	4.731486	.0003661	4.206651	.2066719
Stddev	.000536	.015629	.010449	.0025910	.034945	.0027494
%RSD	20.44421	.7375308	.2208312	707.8003	.8307013	1.330304
#1	-.002911	2.107067	4.719670	.0029043	4.181625	.2096968
#2	-.002951	2.113366	4.735280	-.002275	4.246576	.2059940
#3	-.002003	2.136731	4.739507	.000469	4.191753	.2043250

Elem	Sr4077
Units	ppm
Avg	.3031317
Stddev	.0025070
%RSD	.8270455
#1	.3011576
#2	.3059525
#3	.3022851

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1923.383	33169.32	4650.838	1053.676	2375.353
Stddev	1.598	13.73	6.094	6.000	8.719
%RSD	.0830867	.0413828	.1310275	.5694052	.3670585
#1	1924.177	33159.82	4656.721	1054.443	2376.717
#2	1924.428	33185.06	4644.553	1047.330	2383.310
#3	1921.543	33163.09	4651.239	1059.255	2366.033

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-03 Acquired: 06/30/2024 17:19:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4C8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5787427	-.029127	.6062323	-.087814	.0268260	153.8720
Stddev	.0058581	.003498	.0053970	.011020	.0025752	1.4219
%RSD	1.012215	12.01085	.8902521	12.54918	9.599653	.9240575
#1	.5737606	-.025098	.6013709	-.078468	.0243098	155.4640
#2	.5772711	-.030896	.6052863	-.099966	.0294564	153.4236
#3	.5851963	-.031388	.6120398	-.085009	.0267118	152.7283

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.271800	.0048941	.0096829	72.05853	.1369651	.1671554
Stddev	.008206	.0000813	.0002519	.52842	.0012266	.0006420
%RSD	.6452552	1.660596	2.601867	.7333245	.8955181	.3840501
#1	1.281266	.0049868	.0095774	72.63760	.1355806	.1664165
#2	1.266710	.0048603	.0099704	71.93555	.1373990	.1674735
#3	1.267422	.0048352	.0095009	71.60244	.1379158	.1675763

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7523609	387.4780	9.081217	60.32676	.1930342	-.007846
Stddev	.0075531	2.8599	.069123	.37792	.0015792	.000705
%RSD	1.003926	.7380706	.7611618	.6264599	.8181075	8.979044
#1	.7605065	390.7117	9.160778	60.76277	.1912820	-.007843
#2	.7509877	386.4412	9.046960	60.12451	.1934730	-.007143
#3	.7455886	385.2812	9.035912	60.09300	.1943476	-.008552

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.238291	.6516843	1.838830	28.22788	F 11.44924	.1788476
Stddev	.069347	.0040033	.009718	.19982	.05114	.0067949
%RSD	5.600194	.6143038	.5284656	.7078960	.4466451	3.799278
#1	1.218529	.6544960	1.839937	28.44972	11.39361	.1861448
#2	1.180971	.6534561	1.847948	28.06201	11.45990	.1727022
#3	1.315374	.6471008	1.828607	28.17191	11.49420	.1776958

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-03 Acquired: 06/30/2024 17:19:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4C8 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033392	3.749751	5.013296	.0011890	4.695644	.1659563
Stddev	.0002428	.011877	.036799	.0005638	.048825	.0021837
%RSD	7.272281	.3167344	.7340272	47.41598	1.039787	1.315848
#1	.0031815	3.740199	5.054120	.0011888	4.748207	.1645317
#2	.0032173	3.746005	4.982677	.0006253	4.687017	.1684704
#3	.0036188	3.763049	5.003091	.0017528	4.651708	.1648667

Elem	Sr4077
Units	ppm
Avg	.2638182
Stddev	.0025031
%RSD	.9487819
#1	.2666684
#2	.2628082
#3	.2619779

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1843.210	31684.83	4440.912	1007.285	2391.545
Stddev	1.789	210.30	24.588	3.567	6.289
%RSD	.0970498	.6637168	.5536683	.3541565	.2629775
#1	1842.937	31875.40	4412.657	1010.906	2398.766
#2	1845.119	31719.88	4452.633	1007.174	2387.265
#3	1841.573	31459.21	4457.447	1003.774	2388.605

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-04 Acquired: 06/30/2024 17:24:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4C9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6208572	-.025833	.5528239	-.080836	.0216105	128.1982
Stddev	.0032657	.000716	.0032149	.001535	.0021233	.8094
%RSD	.5259954	2.771843	.5815434	1.899507	9.825505	.6313915
#1	.6171468	-.025061	.5563709	-.079410	.0220393	127.3786
#2	.6232950	-.026476	.5519988	-.080636	.0234868	128.9971
#3	.6221297	-.025963	.5501019	-.082461	.0193055	128.2189

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.090739	.0045024	.0086798	103.1199	.1368579	.1513296
Stddev	.003561	.0001780	.0000609	.5713	.0006777	.0003039
%RSD	.3264670	3.954500	.7014975	.5539941	.4951838	.2007950
#1	1.086790	.0046434	.0086372	102.5255	.1366178	.1516662
#2	1.093706	.0043024	.0086527	103.6649	.1376229	.1512474
#3	1.091722	.0045616	.0087495	103.1693	.1363329	.1510754

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6495719	333.2356	6.764838	65.81095	.2145971	-.006436
Stddev	.0013680	1.9532	.033398	.40261	.0011511	.000624
%RSD	.2105975	.5861435	.4936967	.6117631	.5363807	9.700516
#1	.6480400	331.2359	6.731881	65.37273	.2157815	-.007155
#2	.6500042	335.1388	6.798660	66.16448	.2145273	-.006030
#3	.6506716	333.3319	6.763975	65.89562	.2134825	-.006124

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.114317	.5076337	1.802791	26.65645	F 14.71293	.1568959
Stddev	.247890	.0054100	.009083	.10274	.06154	.0015468
%RSD	22.24596	1.065720	.5038175	.3854363	.4182925	.9858727
#1	.836670	.5013870	1.796309	26.62413	14.77204	.1569569
#2	1.313423	.5107093	1.813173	26.77146	14.71755	.1584112
#3	1.192856	.5108046	1.798893	26.57374	14.64921	.1553195

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-04 Acquired: 06/30/2024 17:24:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4C9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005468	7.832154	5.235835	.0002176	3.175503	.1823186
Stddev	.0001372	.035962	.003633	.0015050	.028607	.0008200
%RSD	25.08923	.4591611	.0693855	691.5609	.9008742	.4497651
#1	.0006674	7.870859	5.239709	-.001470	3.146732	.1823808
#2	.0003975	7.825830	5.232504	.000701	3.203944	.1814693
#3	.0005754	7.799774	5.235293	.001422	3.175834	.1831057

Elem	Sr4077
Units	ppm
Avg	.1785862
Stddev	.0012807
%RSD	.7171190
#1	.1774676
#2	.1799832
#3	.1783079

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1875.460	32349.47	4515.302	1025.885	2388.776
Stddev	7.431	62.42	8.513	4.034	12.619
%RSD	.3962182	.1929441	.1885328	.3931775	.5282533
#1	1872.081	32398.86	4524.520	1026.345	2377.110
#2	1870.318	32279.31	4507.737	1021.641	2387.048
#3	1883.980	32370.23	4513.649	1029.669	2402.169

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-05 Acquired: 06/30/2024 17:28:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4D0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4884125	-.026990	.4666678	-.084981	.0231598	189.7830
Stddev	.0057490	.003726	.0050191	.001970	.0030570	1.0067
%RSD	1.177069	13.80403	1.075525	2.318698	13.19957	.5304573
#1	.4918504	-.030298	.4693434	-.086584	.0262740	190.0047
#2	.4817756	-.027718	.4608777	-.082781	.0201634	190.6605
#3	.4916114	-.022954	.4697822	-.085578	.0230418	188.6840

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.692978	.0065727	.0083581	161.0900	.2325972	.2040918
Stddev	.005751	.0001221	.0001948	.7021	.0006411	.0005259
%RSD	.3397227	1.857034	2.330691	.4358541	.2756423	.2576707
#1	1.695751	.0067085	.0081533	161.3330	.2319286	.2036538
#2	1.696818	.0065373	.0083799	161.6384	.2332068	.2039467
#3	1.686365	.0064723	.0085410	160.2987	.2326563	.2046751

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6932724	355.3283	9.170741	80.40129	.3048401	-.007138
Stddev	.0032708	1.3411	.031900	.38180	.0015176	.000148
%RSD	.4717873	.3774307	.3478499	.4748674	.4978181	2.076746
#1	.6935164	355.9712	9.179043	80.44280	.3045990	-.007071
#2	.6964143	356.2268	9.197669	80.76064	.3034575	-.007036
#3	.6898864	353.7867	9.135510	80.00043	.3064637	-.007308

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.433857	.5238883	1.589306	37.71979	F 12.64557	.1718848
Stddev	.114712	.0050967	.013652	.33318	.04025	.0019148
%RSD	8.000215	.9728685	.8589949	.8833144	.3183071	1.113988
#1	1.554117	.5243458	1.575093	37.69454	12.66213	.1711596
#2	1.421808	.5287409	1.602318	38.06488	12.59968	.1740563
#3	1.325645	.5185782	1.590506	37.39994	12.67491	.1704386

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-05 Acquired: 06/30/2024 17:28:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4D0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000382	5.101517	6.924712	.0010691	3.204501	.2425827
Stddev	.000322	.013226	.020691	.0017926	.021769	.0010058
%RSD	84.12021	.2592532	.2987923	167.6759	.6793121	.4146330
#1	-.000668	5.100952	6.904908	.0025932	3.209065	.2417929
#2	-.000034	5.088583	6.923041	-.000906	3.223625	.2422401
#3	-.000445	5.115016	6.946187	.001520	3.180812	.2437150

Elem	Sr4077
Units	ppm
Avg	.3272087
Stddev	.0024077
%RSD	.7358418
#1	.3278538
#2	.3292282
#3	.3245442

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1902.561	32786.18	4658.241	1042.189	2298.487
Stddev	5.854	135.10	11.691	4.754	9.148
%RSD	.3076648	.4120576	.2509793	.4561478	.3980041
#1	1901.363	32699.55	4654.662	1045.284	2296.961
#2	1908.920	32717.15	4648.758	1036.715	2308.302
#3	1897.398	32941.85	4671.304	1044.566	2290.198

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-06 Acquired: 06/30/2024 17:33:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4D1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5010733**	**-.032892**	**.4312803**	**-.102706**	**.0279408**	**166.2032**
Stddev	.0058320	.006071	.0025450	.004870	.0024582	.5386
%RSD	1.163901	18.45843	.5900949	4.741867	8.797995	.3240457
#1	.4963364	-.034196	.4287632	-.108026	.0279431	166.8221
#2	.5075871	-.038204	.4312255	-.098467	.0303979	165.9465
#3	.4992965	-.026274	.4338522	-.101624	.0254814	165.8411

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.049402**	**.0049042**	**.0081896**	**61.10725**	**.1927282**	**.1867414**
Stddev	.001525	.0001082	.0000585	.05502	.0009265	.0002118
%RSD	.1452728	2.205756	.7145121	.0900374	.4807337	.1134416
#1	1.051004	.0049881	.0081487	61.15825	.1920910	.1865132
#2	1.049232	.0049425	.0082566	61.11455	.1923025	.1869319
#3	1.047969	.0047821	.0081635	61.04894	.1937910	.1867790

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8095639**	**423.0120**	**8.285224**	**73.28905**	**.2307869**	**-.009252**
Stddev	.0059381	1.0753	.015884	.13211	.0008123	.000575
%RSD	.7334995	.2542100	.1917171	.1802524	.3519826	6.214863
#1	.8157477	424.2532	8.294676	73.43362	.2298967	-.009120
#2	.8090376	422.3615	8.294110	73.25892	.2314880	-.009881
#3	.8039065	422.4213	8.266885	73.17461	.2309761	-.008754

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.207582**	**.7114848**	**1.524343**	**32.14640**	F **12.29416**	**.1780027**
Stddev	.209190	.0054794	.005085	.18024	.04336	.0048230
%RSD	17.32308	.7701355	.3335778	.5606790	.3526810	2.709504
#1	1.414123	.7142776	1.518526	32.32847	12.32314	.1762571
#2	.995840	.7150051	1.526561	32.14268	12.31503	.1742955
#3	1.212782	.7051717	1.527942	31.96805	12.24431	.1834554

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-06 Acquired: 06/30/2024 17:33:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4D1 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.001653**	**1.873139**	**4.232905**	**.0003792**	**4.226215**	**.1817618**
Stddev	.000427	.005564	.025320	.0018773	.012435	.0015820
%RSD	25.80903	.2970505	.5981671	495.1109	.2942250	.8703496
#1	-.001199	1.878393	4.246757	-.000783	4.240501	.1814890
#2	-.002045	1.867309	4.248276	.002545	4.220319	.1834624
#3	-.001717	1.873714	4.203681	-.000624	4.217825	.1803339

Elem	Sr4077
Units	ppm
Avg	**.2367891**
Stddev	.0015521
%RSD	.6554847
#1	.2385566
#2	.2356487
#3	.2361619

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1862.914**	**32105.34**	**4485.990**	**1018.928**	**2397.921**
Stddev	4.018	153.18	32.191	1.523	4.578
%RSD	.2156831	.4771221	.7175898	.1494844	.1909308
#1	1860.122	31980.28	4459.994	1020.219	2396.016
#2	1861.102	32059.55	4475.979	1017.248	2394.603
#3	1867.519	32276.20	4521.997	1019.317	2403.144

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-07 Acquired: 06/30/2024 17:37:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4D2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4616908	-.036227	.3402029	-.098477	.0295154	152.6929	1.255505
Stddev	.0057111	.003215	.0034760	.006609	.0020579	.2774	.002341
%RSD	1.237004	8.874931	1.021737	6.711235	6.972277	.1816391	.1864336
#1	.4665950	-.034405	.3364565	-.098010	.0290310	153.0032	1.257687
#2	.4554205	-.034336	.3408286	-.105307	.0277430	152.6064	1.255797
#3	.4630569	-.039939	.3433235	-.092114	.0317723	152.4691	1.253033

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055553	.0049296	55.97917	.1638582	.1863623	.5806681	415.8163
Stddev	.0001895	.0004215	.16249	.0023636	.0005534	.0042525	.1361
%RSD	3.411974	8.549733	.2902739	1.442473	.2969600	.7323485	.0327356
#1	.0056418	.0045775	56.14291	.1616055	.1861071	.5773484	415.9693
#2	.0053379	.0048148	55.81795	.1636502	.1859825	.5854614	415.7086
#3	.0056861	.0053966	55.97666	.1663189	.1869973	.5791945	415.7711

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.668114	57.92818	.2012329	-.010237	1.216063	.7982765	1.113739
Stddev	.012702	.22871	.0010297	.000088	.255910	.0025343	.016107
%RSD	.1904839	.3948195	.5117160	.8619478	21.04413	.3174652	1.446226
#1	6.679613	57.78903	.2000626	-.010282	1.505664	.8010037	1.106465
#2	6.670248	57.80337	.2020002	-.010135	1.122137	.7978318	1.132200
#3	6.654480	58.19214	.2016359	-.010294	1.020387	.7959941	1.102552

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.23212	8.551232	.1711083	-.000372	1.166835	3.226114	.0004321
Stddev	.13188	.012559	.0019781	.000709	.008242	.025486	.0013143
%RSD	.8658146	.1468647	1.156026	190.5900	.7063655	.7900035	304.1823
#1	15.09410	8.544995	.1731735	-.000842	1.157402	3.212992	.0004977
#2	15.24541	8.543013	.1692308	-.000718	1.172646	3.209863	-.000914
#3	15.35686	8.565689	.1709206	.000444	1.170458	3.255488	.001712

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-07 Acquired: 06/30/2024 17:37:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4D2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	**4.647986**	**.1623200**	**.2460875**
Stddev	.008313	.0006127	.0005250
%RSD	.1788557	.3774496	.2133435
#1	4.654662	.1616262	.2464154
#2	4.650622	.1627867	.2454819
#3	4.638675	.1625472	.2463651

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1879.090**	**32407.98**	**4508.215**	**1026.326**	**2412.963**
Stddev	2.883	154.54	8.224	6.855	4.464
%RSD	.1534036	.4768588	.1824247	.6679579	.1850141
#1	1882.355	32430.20	4510.743	1020.468	2417.329
#2	1876.896	32243.53	4514.878	1024.645	2413.153
#3	1878.019	32550.20	4499.024	1033.866	2408.407

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-08 Acquired: 06/30/2024 17:41:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4D3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4743987	-.029784	.3261089	-.099134	.0212061	163.7958
Stddev	.0140915	.000754	.0011492	.006564	.0003407	.8304
%RSD	2.970397	2.531335	.3524022	6.620867	1.606364	.5069584
#1	.4581350	-.029093	.3252136	-.105608	.0214966	164.0581
#2	.4820967	-.030588	.3257082	-.092485	.0208312	164.4633
#3	.4829646	-.029671	.3274048	-.099310	.0212906	162.8659

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.023109	.0051935	.0047332	60.74744	.1352050	.1827144
Stddev	.007591	.0000494	.0001332	.36196	.0008461	.0010303
%RSD	.7419245	.9516334	2.813611	.5958439	.6257651	.5638653
#1	1.021698	.0052505	.0046083	60.70053	.1357161	.1817832
#2	1.031307	.0051619	.0047180	61.13057	.1356706	.1825389
#3	1.016323	.0051682	.0048733	60.41123	.1342284	.1838212

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6077169	410.3745	7.341811	65.70276	.1991115	-.009149
Stddev	.0026814	1.8898	.042547	.22762	.0022979	.001193
%RSD	.4412220	.4604997	.5795124	.3464351	1.154082	13.04280
#1	.6099000	410.3827	7.329291	65.71056	.1967667	-.009386
#2	.6085267	412.2601	7.389213	65.92638	.1992083	-.007855
#3	.6047239	408.4806	7.306930	65.47135	.2013595	-.010205

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.100494	.6841040	1.229077	24.39844	F 10.66611	.1717130
Stddev	.150696	.0081506	.012400	.19416	.05829	.0034220
%RSD	13.69350	1.191423	1.008850	.7957870	.5465110	1.992843
#1	.940771	.6919478	1.231111	24.62191	10.60981	.1752021
#2	1.240153	.6846864	1.215786	24.30228	10.66230	.1683624
#3	1.120558	.6756779	1.240334	24.27113	10.72621	.1715746

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-08 Acquired: 06/30/2024 17:41:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4D3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001517	1.195088	5.711753	.0016998	3.755526	.1816486
Stddev	.000938	.004446	.050438	.0013444	.017887	.0014600
%RSD	61.83941	.3720006	.8830547	79.09169	.4762946	.8037336
#1	-.001717	1.191640	5.676255	.0022385	3.761495	.1803047
#2	-.000495	1.193518	5.769488	.0026912	3.769665	.1832021
#3	-.002340	1.200105	5.689515	.0001696	3.735417	.1814391

Elem	Sr4077
Units	ppm
Avg	.2318349
Stddev	.0009231
%RSD	.3981860
#1	.2326973
#2	.2319461
#3	.2308611

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1892.588	32612.13	4505.088	1038.348	2418.436
Stddev	7.542	31.92	28.970	3.378	10.237
%RSD	.3984834	.0978815	.6430482	.3253616	.4233039
#1	1900.580	32647.83	4522.926	1038.197	2429.161
#2	1891.586	32586.34	4471.662	1041.800	2417.378
#3	1885.597	32602.23	4520.677	1035.048	2408.769

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-09 Acquired: 06/30/2024 17:46:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4D3D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4447804	-.028207	.3071754	-.098368	.0225590	167.6396
Stddev	.0067030	.004492	.0032628	.001479	.0030957	.7629
%RSD	1.507038	15.92387	1.062200	1.503715	13.72258	.4551043
#1	.4470358	-.030523	.3109068	-.097977	.0196240	168.5195
#2	.4500648	-.031069	.3057608	-.100003	.0222593	167.2374
#3	.4372406	-.023030	.3048586	-.097123	.0257936	167.1620

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.034165	.0052872	.0045727	60.69039	.1321235	.1862975
Stddev	.003456	.0000818	.0001886	.21096	.0004325	.0004681
%RSD	.3341818	1.547060	4.125339	.3475994	.3273373	.2512360
#1	1.038156	.0052671	.0044973	60.92967	.1316484	.1862969
#2	1.032176	.0053772	.0044335	60.61030	.1324942	.1858297
#3	1.032164	.0052174	.0047874	60.53122	.1322279	.1867658

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5972110	412.3013	7.348202	66.78485	.2031305	-.009584
Stddev	.0020720	1.9648	.035538	.32188	.0009285	.000157
%RSD	.3469433	.4765480	.4836269	.4819674	.4570701	1.642516
#1	.5977611	414.5397	7.386911	67.15307	.2032147	-.009644
#2	.5949195	410.8620	7.317052	66.55696	.2021628	-.009405
#3	.5989524	411.5020	7.340643	66.64451	.2040140	-.009702

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.310442	.6843692	1.195397	24.97973	F 10.22067	.1732813
Stddev	.183476	.0061496	.004700	.15115	.06392	.0017030
%RSD	14.00104	.8985723	.3931522	.6051047	.6253940	.9827716
#1	1.337061	.6900346	1.190703	25.15295	10.22492	.1752462
#2	1.115111	.6778291	1.195386	24.91167	10.15473	.1723670
#3	1.479155	.6852440	1.200102	24.87458	10.28236	.1722309

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-09 Acquired: 06/30/2024 17:46:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4D3D Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.002493**	**1.098460**	**4.842273**	**.0001197**	**4.164758**	**.1805797**
Stddev	.000317	.005735	.010812	.0008770	.023842	.0012853
%RSD	12.72975	.5221273	.2232873	732.9149	.5724732	.7117717
#1	-.002476	1.100428	4.847322	-.000772	4.192109	.1810532
#2	-.002184	1.092000	4.849637	.000981	4.148359	.1815611
#3	-.002818	1.102952	4.829860	.000149	4.153807	.1791248

Elem	Sr4077
Units	ppm
Avg	**.2337068**
Stddev	.0011376
%RSD	.4867545
#1	.2350188
#2	.2331054
#3	.2329961

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1887.113**	**32463.42**	**4490.926**	**1028.827**	**2405.986**
Stddev	7.058	71.85	14.188	4.900	9.755
%RSD	.3740053	.2213312	.3159234	.4763113	.4054434
#1	1880.563	32461.95	4476.611	1033.840	2398.465
#2	1894.588	32535.99	4491.185	1028.594	2417.008
#3	1886.189	32392.31	4504.983	1024.047	2402.485

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-08LX5 Acquired: 06/30/2024 18:26:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4D3L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0896902	-.007309	.0626541	-.023103	.0038696	35.37479	.2246306
Stddev	.0028160	.000251	.0034549	.000660	.0008459	.13102	.0007064
%RSD	3.139711	3.432432	5.514309	2.856924	21.85934	.3703782	.3144912
#1	.0915894	-.007524	.0589587	-.022942	.0036312	35.52590	.2252297
#2	.0864549	-.007033	.0632000	-.022538	.0031686	35.29286	.2238516
#3	.0910265	-.007369	.0658035	-.023829	.0048091	35.30562	.2248106

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011725	.0002341	13.47650	.0303219	.0348928	.1353369	93.05610
Stddev	.0001042	.0000693	.05102	.0005224	.0001054	.0011506	.21511
%RSD	8.890636	29.60576	.3785898	1.722969	.3019440	.8501595	.2311601
#1	.0012644	.0001615	13.48218	.0297956	.0349998	.1342884	93.30053
#2	.0010592	.0002413	13.42287	.0308404	.0347892	.1351546	92.97214
#3	.0011939	.0002996	13.52444	.0303296	.0348894	.1365678	92.89563

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.648442	14.23285	.0388808	-.001615	.0599008	.1474059	.2513765
Stddev	.005738	.04280	.0004343	.000071	.0892430	.0006698	.0080594
%RSD	.3480635	.3007309	1.117107	4.378222	148.9847	.4544011	3.206100
#1	1.654628	14.20218	.0389260	-.001557	.1407731	.1480659	.2511271
#2	1.643294	14.21462	.0384257	-.001595	.0747736	.1467267	.2434447
#3	1.647404	14.28175	.0392909	-.001694	-.035844	.1474252	.2595576

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.268956	2.034936	.0372538	-.001327	.2187094	1.293488	.0007487
Stddev	.068446	.008176	.0010298	.000267	.0077013	.015525	.0008073
%RSD	1.299046	.4017879	2.764352	20.14145	3.521255	1.200269	107.8221
#1	5.201096	2.043408	.0360974	-.001621	.2166864	1.309959	.0015209
#2	5.267799	2.034309	.0380721	-.001259	.2122215	1.279123	-.000090
#3	5.337974	2.027092	.0375920	-.001100	.2272203	1.291383	.000815

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-08LX5 Acquired: 06/30/2024 18:26:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4D3L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.8287962	.0387041	.0512151
Stddev	.0014245	.0020163	.0001179
%RSD	.1718720	5.209457	.2301623
#1	.8300877	.0369393	.0511870
#2	.8272683	.0409016	.0513445
#3	.8290326	.0382716	.0511138

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1748.683	30211.55	4043.886	959.2079	2617.036
Stddev	3.465	230.07	24.278	7.9516	1.979
%RSD	.1981372	.7615158	.6003641	.8289713	.0756213
#1	1751.176	30476.22	4020.407	967.7476	2619.311
#2	1750.145	30099.08	4068.891	952.0169	2615.720
#3	1744.726	30059.36	4042.359	957.8593	2616.075

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-10 Acquired: 06/30/2024 18:30:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4D3S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5218522	.0648571	.3555784	-.015802	.1719341	162.7458
Stddev	.0067085	.0037230	.0027776	.004252	.0024785	.7725
%RSD	1.285514	5.740245	.7811358	26.90559	1.441543	.4746434
#1	.5192101	.0649180	.3552284	-.011211	.1716992	163.4903
#2	.5168670	.0685492	.3585144	-.019604	.1745217	161.9481
#3	.5294794	.0611041	.3529925	-.016592	.1695814	162.7990

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.369331	.0880291	.1009533	60.95415	.6477383	1.119378
Stddev	.006870	.0002354	.0004338	.08208	.0024847	.004383
%RSD	.1572255	.2674468	.4297289	.1346588	.3835976	.3915586
#1	4.376906	.0882955	.1012095	61.04155	.6449305	1.117298
#2	4.363503	.0879427	.1011980	60.87869	.6496531	1.124414
#3	4.367585	.0878490	.1004524	60.94222	.6486313	1.116423

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.015244	394.1666	7.956843	60.74909	1.221797	.0593174
Stddev	.006700	1.1009	.014838	.11827	.004261	.0001745
%RSD	.6599253	.2793048	.1864847	.1946845	.3487385	.2942553
#1	1.020706	395.3870	7.973961	60.74125	1.223744	.0594777
#2	1.007768	393.2483	7.948912	60.63494	1.224736	.0591314
#3	1.017259	393.8643	7.947655	60.87109	1.216910	.0593431

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.418546	1.495432	1.869455	23.82369	F 10.66979	.1655107
Stddev	.163959	.008887	.012926	.10974	.01452	.0018223
%RSD	11.55825	.5943092	.6914304	.4606355	.1360437	1.100995
#1	1.234738	1.505580	1.884346	23.91287	10.68072	.1673091
#2	1.471164	1.491686	1.862900	23.70113	10.67533	.1636654
#3	1.549737	1.489031	1.861121	23.85706	10.65332	.1655576

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-10 Acquired: 06/30/2024 18:30:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4D3S Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4450413	1.973395	5.088199	.0065204	4.571178	.1713143
Stddev	.0021567	.004928	.011088	.0034279	.028746	.0009794
%RSD	.4846126	.2497417	.2179192	52.57181	.6288580	.5717035
#1	.4458190	1.975925	5.087048	.0025799	4.601598	.1724074
#2	.4467012	1.967716	5.099818	.0081665	4.544466	.1710191
#3	.4426035	1.976544	5.077732	.0088148	4.567470	.1705165

Elem	Sr4077
Units	ppm
Avg	.2335806
Stddev	.0011031
%RSD	.4722427
#1	.2347327
#2	.2325342
#3	.2334748

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1872.434	32404.58	4493.162	1020.860	2389.550
Stddev	3.146	69.39	5.875	4.418	5.438
%RSD	.1680021	.2141229	.1307648	.4327476	.2275849
#1	1870.193	32480.90	4499.491	1021.594	2388.957
#2	1871.078	32387.53	4487.882	1024.865	2384.432
#3	1876.030	32345.31	4492.114	1016.122	2395.260

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: CCV004 Acquired: 06/30/2024 18:34:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV004 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.949040	4.810438	24.27927	4.668987	4.792379	406.7212	9.876962
Stddev	.019003	.017092	.06314	.010821	.006024	3.4251	.040354
%RSD	.3839743	.3553159	.2600626	.2317594	.1257014	.8421338	.4085683
#1	4.948465	4.790888	24.22042	4.663624	4.793576	410.6756	9.923402
#2	4.930331	4.822558	24.27143	4.661895	4.785846	404.8010	9.857060
#3	4.968324	4.817868	24.34597	4.681442	4.797714	404.6869	9.850425

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4888353	2.452450	395.5628	15.18203	2.454752	14.50506	402.2265
Stddev	.0015559	.007005	1.8549	.05017	.008272	.15535	2.2162
%RSD	.3182817	.2856365	.4689180	.3304282	.3369940	1.071023	.5509786
#1	.4885996	2.445085	397.6909	15.12486	2.447380	14.68294	404.7807
#2	.4874108	2.453235	394.7081	15.21869	2.453177	14.43618	401.0868
#3	.4904956	2.459030	394.2894	15.20256	2.463699	14.39605	400.8122

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.51082	393.4081	2.471407	1.248084	394.5969	2.426930	14.11719
Stddev	.05820	2.3374	.009510	.002853	2.5978	.019056	.09273
%RSD	.4010894	.5941538	.3847845	.2285805	.6583532	.7851943	.6568398
#1	14.57683	395.9801	2.462536	1.247967	397.5904	2.448820	14.22278
#2	14.48874	392.8309	2.470239	1.245292	393.2670	2.414043	14.07977
#3	14.46688	391.4133	2.481447	1.250994	392.9332	2.417927	14.04902

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	148.9708	4.949047	4.934319	4.758126	4.942794	4.881590	4.917318
Stddev	1.4878	.018398	.012665	.013386	.018506	.018488	.017319
%RSD	.9987288	.3717456	.2566802	.2813238	.3743965	.3787223	.3521950
#1	150.6369	4.933093	4.941300	4.760376	4.955763	4.883224	4.902677
#2	147.7750	4.944875	4.919699	4.743758	4.951017	4.862340	4.912841
#3	148.5004	4.969173	4.941958	4.770244	4.921602	4.899206	4.936435

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: CCV004 Acquired: 06/30/2024 18:34:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV004 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.824151	4.944989	4.880071
Stddev	.034673	.006023	.037179
%RSD	.7187453	.1217950	.7618470
#1	4.864185	4.951881	4.921074
#2	4.803650	4.940742	4.848553
#3	4.804619	4.942342	4.870587

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1382.827	24948.67	3649.860	742.9973	1976.646
Stddev	3.373	45.16	20.229	2.5527	3.094
%RSD	.2439159	.1810312	.5542427	.3435648	.1565051
#1	1379.828	24931.13	3635.255	740.8147	1979.692
#2	1386.478	24999.97	3672.950	745.8042	1976.739
#3	1382.174	24914.91	3641.376	742.3729	1973.507

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: CCB004 Acquired: 06/30/2024 18:39:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) 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	.0003435	.0017732	.0026043	-.000029	.0012630	.0788936	.0021488
Stddev	.0029041	.0010597	.0007658	.002705	.0010477	.0056441	.0002474
%RSD	845.3909	59.76125	29.40523	9241.575	82.94747	7.154073	11.51392
#1	.0011261	.0009340	.0020035	.001039	.0010272	.0737307	.0018893
#2	.0027762	.0029641	.0023428	.001978	.0024085	.0849195	.0021752
#3	-.002872	.0014217	.0034666	-.003105	.0003534	.0780307	.0023820

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000616	.0003684	.0709412	.0028839	.0005251	.0040592	.0969222
Stddev	.0000207	.0000778	.0070444	.0007777	.0001594	.0049571	.0101560
%RSD	33.59319	21.12432	9.929861	26.96594	30.35571	122.1197	10.47847
#1	.0000645	.0002791	.0786118	.0025571	.0006925	-.001653	.0885274
#2	.0000808	.0004043	.0694500	.0037717	.0003751	.006602	.1082110
#3	.0000397	.0004218	.0647619	.0023230	.0005077	.007229	.0940281

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025899	.0551168	.0001795	.0004406	.0097104	.0022101	.0023435
Stddev	.0003031	.0428938	.0000387	.0001455	.2808178	.0034147	.0054912
%RSD	11.70279	77.82349	21.57736	33.01601	2891.937	154.5015	234.3176
#1	.0026993	.0065938	.0001698	.0002771	-.273357	.0005424	.0020528
#2	.0022473	.0707750	.0002221	.0004891	.014265	-.000050	.0079742
#3	.0028230	.0879816	.0001465	.0005557	.288223	.006138	-.002997

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2842013	.0013055	.0092708	.0005697	-.001383	.0011971	.0015832
Stddev	.0498728	.0015415	.0009049	.0001848	.000513	.0001910	.0005485
%RSD	17.54842	118.0784	9.760228	32.44414	37.11642	15.95241	34.64637
#1	.2383951	-.000463	.0102960	.0003950	-.001875	.0011927	.0011000
#2	.2768778	.002015	.0085836	.0005510	-.000851	.0010084	.0014701
#3	.3373310	.002364	.0089329	.0007633	-.001422	.0013903	.0021794

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: CCB004 Acquired: 06/30/2024 18:39:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) 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	.0007694	.0018808	.0007299
Stddev	.0017789	.0020879	.0000708
%RSD	231.2156	111.0154	9.699686
#1	.0025879	.0035739	.0008037
#2	-.000967	.0025205	.0007235
#3	.000687	-.000452	.0006625

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1716.997	29470.83	3896.205	941.9414	2760.314
Stddev	3.763	149.46	13.455	9.4767	6.126
%RSD	.2191346	.5071393	.3453396	1.006085	.2219301
#1	1715.403	29298.30	3889.665	931.2500	2758.387
#2	1721.293	29553.69	3887.270	949.3068	2767.172
#3	1714.293	29560.52	3911.680	945.2673	2755.384

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-11 Acquired: 06/30/2024 18:43:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4D4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4774485	-.043317	.2941713	-.116133	.0287911	196.8308	1.500997
Stddev	.0029885	.003144	.0008861	.003036	.0020318	.5862	.002079
%RSD	.6259343	7.257088	.3012304	2.614430	7.056924	.2978280	.1385337
#1	.4767392	-.039707	.2950817	-.119536	.0310470	196.8430	1.502660
#2	.4748784	-.044791	.2933116	-.113700	.0271051	196.2386	1.498665
#3	.4807278	-.045453	.2941204	-.115164	.0282213	197.4109	1.501664

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0067043	.0063669	70.77031	.1622765	.2414163	.7264782	468.8574
Stddev	.0001604	.0003457	.19571	.0010773	.0010298	.0027115	1.2700
%RSD	2.392305	5.430413	.2765435	.6638511	.4265787	.3732387	.2708629
#1	.0066155	.0059679	70.71814	.1634986	.2406351	.7255018	467.8991
#2	.0066079	.0065559	70.60598	.1618664	.2410304	.7243901	468.3753
#3	.0068894	.0065770	70.98682	.1614645	.2425833	.7295427	470.2979

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.978661	75.41720	.2496354	-.011557	1.987609	.8443361	1.139730
Stddev	.012056	.43626	.0026630	.000322	.146112	.0047945	.003777
%RSD	.1510979	.5784643	1.066742	2.785162	7.351121	.5678394	.3313988
#1	7.980804	75.03966	.2473919	-.011285	2.013611	.8423607	1.142781
#2	7.965678	75.31715	.2489362	-.011474	2.118974	.8408449	1.135505
#3	7.989502	75.89480	.2525783	-.011912	1.830242	.8498026	1.140903

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.94451	9.639900	.1993527	-.002204	1.221840	5.081595	.0045275
Stddev	.08681	.046601	.0019444	.000166	.002079	.046304	.0021166
%RSD	.4144816	.4834149	.9753426	7.520684	.1701220	.9112164	46.74931
#1	20.98703	9.622663	.2013023	-.002207	1.219596	5.040365	.0066262
#2	20.84464	9.604373	.1993420	-.002037	1.223700	5.072729	.0045629
#3	21.00188	9.692663	.1974136	-.002368	1.222224	5.131691	.0023935

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-11 Acquired: 06/30/2024 18:43:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4D4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.038829	.2049228	.2952392
Stddev	.016981	.0009440	.0018465
%RSD	.4204328	.4606583	.6254263
#1	4.031589	.2047585	.2954114
#2	4.026668	.2040718	.2933127
#3	4.058229	.2059382	.2969937

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1912.656	32884.41	4587.305	1041.379	2357.250
Stddev	2.769	116.90	23.785	4.861	5.454
%RSD	.1447940	.3554966	.5185016	.4667771	.2313787
#1	1914.426	32759.96	4608.219	1036.454	2361.266
#2	1914.078	32901.35	4592.265	1041.509	2359.443
#3	1909.465	32991.92	4561.430	1046.173	2351.040

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-12 Acquired: 06/30/2024 18:48:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4D5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4965311	-.032632	.3976191	-.105743	.0245917	160.5112
Stddev	.0016054	.003493	.0019764	.001447	.0027903	.3422
%RSD	.3233158	10.70413	.4970586	1.367932	11.34666	.2131834
#1	.4950426	-.031696	.3998942	-.106673	.0255099	160.7033
#2	.4982322	-.036497	.3966370	-.106480	.0268073	160.7142
#3	.4963185	-.029702	.3963260	-.104077	.0214580	160.1162

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.211461	.0052304	.0066109	58.41462	.1498561	.1923662
Stddev	.001780	.0001921	.0001090	.09701	.0021274	.0009146
%RSD	.1468897	3.671837	1.649498	.1660638	1.419632	.4754551
#1	1.213513	.0050633	.0065561	58.52654	.1474118	.1921992
#2	1.210535	.0051876	.0067364	58.36252	.1512899	.1915466
#3	1.210336	.0054402	.0065400	58.35480	.1508666	.1933528

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6454976	426.5054	7.852553	61.49919	.2084705	-.009423
Stddev	.0044216	.6140	.017995	.19021	.0009675	.000225
%RSD	.6849936	.1439720	.2291642	.3092806	.4640964	2.384011
#1	.6497346	426.9137	7.866115	61.71881	.2094927	-.009168
#2	.6458461	426.8033	7.859406	61.39113	.2083500	-.009512
#3	.6409120	425.7992	7.832138	61.38762	.2075689	-.009589

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.678850	.7820375	1.398853	23.18902	F 10.61741	.1836201
Stddev	.072599	.0045122	.002691	.17190	.01379	.0012032
%RSD	4.324354	.5769762	.1923673	.7412786	.1298596	.6552541
#1	1.685945	.7859610	1.396599	23.01888	10.63035	.1839072
#2	1.602964	.7771069	1.401832	23.36262	10.61897	.1822994
#3	1.747641	.7830446	1.398128	23.18556	10.60291	.1846538

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-12 Acquired: 06/30/2024 18:48:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4D5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001957	1.270221	6.417726	.0052868	5.357007	.1778566
Stddev	.000892	.008969	.009358	.0004781	.011692	.0013754
%RSD	45.57299	.7061315	.1458164	9.042940	.2182561	.7732893
#1	-.000942	1.274531	6.428404	.0058359	5.368874	.1771370
#2	-.002613	1.259910	6.410953	.0050612	5.356650	.1794424
#3	-.002317	1.276222	6.413822	.0049632	5.345498	.1769903

Elem	Sr4077
Units	ppm
Avg	.2376623
Stddev	.0006815
%RSD	.2867721
#1	.2380626
#2	.2380489
#3	.2368753

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1887.605	32459.63	4461.184	1027.633	2398.373
Stddev	2.668	128.71	13.080	4.029	4.311
%RSD	.1413193	.3965112	.2931891	.3920831	.1797312
#1	1884.613	32497.21	4446.499	1025.100	2394.392
#2	1889.733	32316.31	4465.470	1025.520	2402.952
#3	1888.471	32565.36	4471.583	1032.279	2397.776

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-13 Acquired: 06/30/2024 18:52:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4D6 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5827697	-.037718	.5220752	-.111127	.0308540	190.9402
Stddev	.0155290	.001402	.0064770	.003066	.0021554	2.2551
%RSD	2.664685	3.716629	1.240622	2.759052	6.985829	1.181034
#1	.5983368	-.036283	.5266981	-.112963	.0324372	193.0410
#2	.5826932	-.037787	.5146723	-.107587	.0283993	191.2222
#3	.5672791	-.039084	.5248552	-.112830	.0317256	188.5574

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.353881	.0063219	.0104265	85.24896	.1851670	.2128517
Stddev	.010012	.0001249	.0003026	.54552	.0013873	.0015712
%RSD	.7394724	1.975466	2.902480	.6399145	.7492276	.7381528
#1	1.361481	.0063432	.0104601	85.57921	.1840385	.2143888
#2	1.357624	.0064348	.0101085	85.54837	.1847466	.2129177
#3	1.342537	.0061878	.0107110	84.61930	.1867158	.2112486

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.215502	458.6428	7.758751	74.47361	.2631871	-.011221
Stddev	.022615	4.2798	.056503	.54391	.0021045	.000702
%RSD	1.860521	.9331403	.7282487	.7303390	.7996268	6.252975
#1	1.241092	462.0302	7.796360	74.78797	.2652077	-.010566
#2	1.207212	460.0652	7.786117	74.78731	.2633459	-.011136
#3	1.198203	453.8329	7.693775	73.84556	.2610076	-.011962

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.875258	.7916527	1.480166	31.40863	F 14.68482	.2108774
Stddev	.130565	.0060088	.027385	.52333	.10515	.0034829
%RSD	6.962487	.7590266	1.850108	1.666185	.7160449	1.651627
#1	2.021686	.7975726	1.511786	31.90714	14.79992	.2146803
#2	1.833131	.7918267	1.464099	31.45516	14.66077	.2101091
#3	1.770958	.7855587	1.464613	30.86360	14.59378	.2078428

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-13 Acquired: 06/30/2024 18:52:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4D6 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001669	5.476657	4.351479	.0046119	4.088937	.2063373
Stddev	.000901	.038194	.032221	.0029607	.047856	.0020807
%RSD	53.96603	.6974003	.7404705	64.19715	1.170377	1.008406
#1	-.001574	5.516499	4.327928	.0012005	4.135233	.2072392
#2	-.002613	5.440357	4.388199	.0065116	4.091917	.2078148
#3	-.000819	5.473117	4.338309	.0061236	4.039660	.2039577

Elem	Sr4077
Units	ppm
Avg	.3123491
Stddev	.0057380
%RSD	1.837044
#1	.3177016
#2	.3130548
#3	.3062909

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1963.360	33935.70	4735.787	1077.465	2341.620
Stddev	8.234	128.48	29.305	2.665	13.723
%RSD	.4193622	.3785952	.6187998	.2473391	.5860624
#1	1954.355	33874.38	4746.155	1074.626	2326.081
#2	1965.221	33849.37	4702.707	1077.857	2346.703
#3	1970.503	34083.35	4758.498	1079.912	2352.077

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-14 Acquired: 06/30/2024 18:56:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4D7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.101127	-.030567	1.088345	-.092961	.0312218	137.9807
Stddev	.016117	.003674	.004114	.003996	.0035320	1.6742
%RSD	1.463697	12.01820	.3780443	4.298239	11.31260	1.213367
#1	1.083959	-.026339	1.086066	-.097476	.0278067	137.3148
#2	1.115932	-.032381	1.085874	-.089879	.0309986	139.8853
#3	1.103490	-.032980	1.093095	-.091529	.0348601	136.7418

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.213080	.0045874	.0123906	73.03178	.1344692	.1605974
Stddev	.015722	.0002004	.0002041	.95363	.0013239	.0011470
%RSD	1.296020	4.368733	1.647188	1.305773	.9845483	.7142085
#1	1.202533	.0044926	.0126247	72.49473	.1334997	.1601791
#2	1.231149	.0044519	.0122500	74.13283	.1339304	.1597181
#3	1.205557	.0048176	.0122970	72.46778	.1359776	.1618948

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7921270	396.8999	7.491085	58.65079	.1922742	-.006170
Stddev	.0119958	4.6546	.095390	.80422	.0005433	.000975
%RSD	1.514375	1.172747	1.273379	1.371199	.2825379	15.80400
#1	.7963562	394.8655	7.450580	58.20270	.1921738	-.005517
#2	.8014353	402.2254	7.600043	59.57923	.1917882	-.005703
#3	.7785894	393.6087	7.422632	58.17043	.1928606	-.007291

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.418002	.6657853	2.905957	30.91633	F 13.76476	.1903712
Stddev	.205940	.0074700	.027900	.36724	.03691	.0024718
%RSD	14.52329	1.121982	.9601110	1.187839	.2681510	1.298425
#1	1.438574	.6676631	2.894343	30.89561	13.75480	.1883355
#2	1.202547	.6721372	2.885739	31.29348	13.73385	.1896564
#3	1.612883	.6575555	2.937788	30.55989	13.80562	.1931216

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-14 Acquired: 06/30/2024 18:56:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4D7 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000686	16.63644	6.505749	.0031651	4.256947	.1649837
Stddev	.000493	.02491	.071067	.0004703	.052822	.0012111
%RSD	71.86802	.1497544	1.092367	14.85707	1.240844	.7340438
#1	-.000175	16.62615	6.483178	.0026595	4.238646	.1640443
#2	-.000724	16.61831	6.585361	.0035893	4.316485	.1663505
#3	-.001159	16.66485	6.448709	.0032466	4.215708	.1645564

Elem	Sr4077
Units	ppm
Avg	.2763260
Stddev	.0034334
%RSD	1.242531
#1	.2769148
#2	.2794269
#3	.2726362

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1858.371	32002.98	4395.956	1024.434	2412.041
Stddev	5.704	154.47	53.597	7.422	2.076
%RSD	.3069603	.4826870	1.219224	.7245015	.0860623
#1	1856.561	32079.18	4392.490	1025.473	2412.881
#2	1864.761	32104.55	4344.177	1031.281	2413.564
#3	1853.790	31825.21	4451.202	1016.547	2409.676

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-15 Acquired: 06/30/2024 19:01:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4D8 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6422800	-.028125	.7045103	-.086232	.0242149	124.1005	.9878790
Stddev	.0072446	.003701	.0041811	.007072	.0007001	.8872	.0034932
%RSD	1.127947	13.15879	.5934833	8.201485	2.891298	.7149136	.3536022
#1	.6442797	-.024943	.7085246	-.078563	.0238280	124.9475	.9907396
#2	.6342456	-.032186	.7001802	-.087638	.0237936	123.1779	.9839860
#3	.6483147	-.027245	.7048260	-.092496	.0250231	124.1760	.9889115

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043747	.0086689	59.03995	.1200733	.1485602	.7174512	364.9695
Stddev	.0000620	.0002881	.28706	.0034165	.0007144	.0025756	1.4638
%RSD	1.417329	3.323967	.4862050	2.845353	.4809044	.3589942	.4010722
#1	.0043090	.0087526	59.23823	.1186401	.1486794	.7176364	366.4740
#2	.0043831	.0083481	58.71078	.1239729	.1477936	.7147879	363.5501
#3	.0044322	.0089059	59.17084	.1176067	.1492075	.7199291	364.8845

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.750543	51.20971	.1702800	-.008800	1.049231	.6398551	1.804596
Stddev	.028218	.10629	.0009104	.000965	.280800	.0037822	.040247
%RSD	.3640835	.2075563	.5346710	10.96431	26.76249	.5910950	2.230263
#1	7.780577	51.28062	.1713271	-.008331	1.366448	.6416735	1.788874
#2	7.724583	51.08750	.1696751	-.009910	.832493	.6355072	1.850331
#3	7.746468	51.26100	.1698377	-.008159	.948753	.6423846	1.774583

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.00740	9.806076	.1730986	-.000681	2.055600	6.456715	.0024744
Stddev	.19971	.058795	.0013530	.000246	.009806	.042488	.0020608
%RSD	.9074565	.5995774	.7816333	36.19989	.4770292	.6580470	83.28586
#1	22.14151	9.805832	.1736428	-.000556	2.066626	6.488774	.0008636
#2	21.77789	9.747404	.1715582	-.000965	2.052318	6.408523	.0047967
#3	22.10281	9.864993	.1740947	-.000522	2.047856	6.472849	.0017629

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-15 Acquired: 06/30/2024 19:01:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4D8 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.185529	.1482760	.2170162
Stddev	.025952	.0016936	.0025895
%RSD	.6200305	1.142162	1.193216
#1	4.208676	.1477616	.2189123
#2	4.157474	.1468992	.2140659
#3	4.190437	.1501671	.2180705

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1842.162	31458.52	4346.658	999.1974	2441.304
Stddev	7.914	316.97	35.564	8.1403	11.845
%RSD	.4295994	1.007594	.8181817	.8146794	.4851965
#1	1838.547	31503.84	4322.399	1004.308	2434.849
#2	1851.238	31121.33	4387.483	989.810	2454.974
#3	1836.701	31750.40	4330.093	1003.474	2434.088

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-16 Acquired: 06/30/2024 19:05:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4D9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6667277	-.028257	.6585583	-.084381	.0224842	147.0773
Stddev	.0088550	.000789	.0039894	.008421	.0022236	1.4181
%RSD	1.328125	2.793190	.6057736	9.979470	9.889463	.9641925
#1	.6755664	-.029068	.6605302	-.092975	.0199487	146.1767
#2	.6667601	-.028212	.6611777	-.084024	.0234014	148.7119
#3	.6578565	-.027491	.6539670	-.076145	.0241025	146.3431

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.456923	.0059742	.0092838	63.34006	.1759451	.1868196
Stddev	.008532	.0001620	.0003302	.49627	.0030193	.0004084
%RSD	.5856384	2.712016	3.557140	.7834971	1.716046	.2185898
#1	1.450405	.0058308	.0095022	62.95068	.1778164	.1869323
#2	1.466580	.0061500	.0089039	63.89885	.1724619	.1863667
#3	1.453783	.0059418	.0094454	63.17064	.1775569	.1871598

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6660836	340.9574	8.023558	59.95057	.2403651	-.007325
Stddev	.0080621	3.3509	.079533	.58061	.0008388	.000550
%RSD	1.210370	.9827978	.9912430	.9684799	.3489850	7.509136
#1	.6631735	338.1789	7.951010	59.35493	.2413080	-.007728
#2	.6751967	344.6787	8.108597	60.51488	.2400857	-.006699
#3	.6598806	340.0146	8.011067	59.98189	.2397016	-.007549

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.211315	.4814568	1.960974	40.32972	F 13.20867	.1674652
Stddev	.138676	.0020924	.016679	.54799	.03355	.0031609
%RSD	11.44839	.4345911	.8505451	1.358769	.2539984	1.887477
#1	1.347044	.4806218	1.970672	40.04063	13.18546	.1675880
#2	1.069869	.4838377	1.970536	40.96171	13.19341	.1705629
#3	1.217031	.4799108	1.941715	39.98681	13.24714	.1642447

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-16 Acquired: 06/30/2024 19:05:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4D9 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005731	2.300971	6.337983	.0020346	4.109400	.1813006
Stddev	.0001130	.012426	.064466	.0007461	.038683	.0037646
%RSD	19.71841	.5400374	1.017138	36.67226	.9413339	2.076457
#1	.0006071	2.294176	6.264015	.0021315	4.098082	.1789998
#2	.0006651	2.293424	6.367733	.0027275	4.152480	.1856450
#3	.0004470	2.315313	6.382202	.0012447	4.077639	.1792568

Elem	Sr4077
Units	ppm
Avg	.2422159
Stddev	.0031788
%RSD	1.312400
#1	.2408765
#2	.2458452
#3	.2399259

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1955.281	33443.67	4649.011	1062.616	2402.402
Stddev	3.432	232.39	43.135	10.731	2.178
%RSD	.1755434	.6948701	.9278287	1.009894	.0906418
#1	1953.041	33425.05	4686.545	1057.884	2399.979
#2	1959.233	33221.16	4601.889	1055.064	2404.194
#3	1953.570	33684.82	4658.599	1074.900	2403.034

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-17 Acquired: 06/30/2024 19:09:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4E0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3084071	-.030199	.1776972	-.093552	.0216215	159.8501
Stddev	.0076746	.002883	.0010698	.000663	.0014847	1.3158
%RSD	2.488453	9.546785	.6020127	.7081734	6.866929	.8231753
#1	.3031392	-.029665	.1764682	-.094118	.0199104	161.0641
#2	.3172124	-.027621	.1784189	-.092823	.0223858	158.4518
#3	.3048697	-.033312	.1782045	-.093714	.0225684	160.0346

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.131271	.0055234	.0012957	72.17610	.1379701	.1759086
Stddev	.009824	.0000395	.0000988	.51817	.0020876	.0005165
%RSD	.8683831	.7144506	7.621564	.7179237	1.513066	.2936267
#1	1.140724	.0054853	.0012792	72.56086	.1403789	.1753171
#2	1.121114	.0055641	.0014017	71.58689	.1368446	.1761383
#3	1.131975	.0055206	.0012063	72.38053	.1366869	.1762704

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3948244	375.7954	6.019201	60.15650	.2048089	-.011026
Stddev	.0016832	2.9406	.036004	.50608	.0011126	.000862
%RSD	.4263203	.7825007	.5981504	.8412675	.5432584	7.820010
#1	.3962680	378.3459	6.044576	60.61183	.2040409	-.010278
#2	.3929756	372.5789	5.977994	59.61163	.2060849	-.011969
#3	.3952297	376.4614	6.035033	60.24605	.2043009	-.010831

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.325052	.6340379	.6891676	25.10602	F 10.35472	.1741690
Stddev	.123557	.0133865	.0077492	.24795	.02059	.0051622
%RSD	9.324686	2.111311	1.124428	.9876124	.1988417	2.963897
#1	1.434085	.6448662	.6942386	25.36939	10.33532	.1707310
#2	1.190847	.6190707	.6802474	24.87709	10.37632	.1716709
#3	1.350225	.6381767	.6930167	25.07159	10.35253	.1801050

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-17 Acquired: 06/30/2024 19:09:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4E0 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001521	1.620088	4.661147	-.000194	3.977896	.1698629
Stddev	.000308	.008976	.048844	.001462	.038920	.0023672
%RSD	20.24346	.5540660	1.047890	755.0923	.9784120	1.393593
#1	-.001803	1.627139	4.715327	-.000810	4.013312	.1723758
#2	-.001568	1.623142	4.620488	-.001246	3.936229	.1676749
#3	-.001192	1.609983	4.647626	.001475	3.984147	.1695381

Elem	Sr4077
Units	ppm
Avg	.2982393
Stddev	.0029084
%RSD	.9751915
#1	.3012948
#2	.2955046
#3	.2979184

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1934.491	33108.06	4594.543	1055.854	2398.649
Stddev	3.798	120.55	24.399	2.396	1.099
%RSD	.1963054	.3641191	.5310420	.2269634	.0458202
#1	1935.494	32998.68	4567.599	1053.343	2399.099
#2	1937.686	33088.18	4615.146	1056.102	2397.397
#3	1930.292	33237.31	4600.883	1058.117	2399.452

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-18 Acquired: 06/30/2024 19:14:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4E1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3529531	-.020551	.4048348	-.063216	.0159785	92.69299	.6809207
Stddev	.0016992	.001034	.0003243	.007486	.0023892	1.75669	.0118449
%RSD	.4814104	5.029723	.0801069	11.84229	14.95252	1.895173	1.739534
#1	.3531148	-.021583	.4051814	-.067136	.0179503	94.65579	.6944108
#2	.3545656	-.019515	.4045388	-.067928	.0166637	91.26829	.6722228
#3	.3511789	-.020556	.4047842	-.054584	.0133216	92.15488	.6761285

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034184	.0058714	35.71469	.0831631	.1218572	.6235663	278.9818
Stddev	.0000697	.0004347	.58845	.0012467	.0004210	.0106407	4.5906
%RSD	2.039778	7.403451	1.647645	1.499138	.3454618	1.706425	1.645474
#1	.0034335	.0054176	36.39113	.0825818	.1218983	.6344456	284.2424
#2	.0033424	.0059124	35.32078	.0845943	.1214172	.6131815	275.7878
#3	.0034794	.0062840	35.43216	.0823132	.1222561	.6230719	276.9152

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.206589	41.83590	.1218259	-.005824	.8755298	.4636928	1.121050
Stddev	.086752	.69783	.0014634	.000780	.2127840	.0103597	.020330
%RSD	1.666201	1.668011	1.201256	13.38621	24.30346	2.234174	1.813443
#1	5.305886	42.63703	.1209772	-.004924	.6712452	.4755175	1.131118
#2	5.145493	41.36048	.1209847	-.006256	1.095900	.4562131	1.097651
#3	5.168389	41.51020	.1235157	-.006291	.859444	.4593480	1.134381

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.75898	6.687320	.1237663	-.001681	.6635496	4.699939	.0014059
Stddev	.35411	.039191	.0029497	.000758	.0106470	.049930	.0008028
%RSD	1.887696	.5860457	2.383282	45.11743	1.604548	1.062348	57.10178
#1	19.12031	6.673031	.1269290	-.000938	.6722124	4.757241	.0010309
#2	18.41255	6.657278	.1210901	-.001650	.6516634	4.665781	.0008593
#3	18.74408	6.731650	.1232798	-.002454	.6667731	4.676795	.0023276

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-18 Acquired: 06/30/2024 19:14:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4E1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.698099	.0998395	.1478809
Stddev	.070665	.0008472	.0029398
%RSD	1.910840	.8485813	1.987929
#1	3.778419	.1006750	.1511363
#2	3.645487	.0998625	.1454201
#3	3.670392	.0989810	.1470862

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1801.888	30822.27	4192.686	987.0751	2503.912
Stddev	1.888	48.65	62.310	8.0888	7.929
%RSD	.1047940	.1578523	1.486164	.8194671	.3166662
#1	1802.587	30767.11	4121.367	977.7639	2506.242
#2	1803.326	30859.06	4236.572	991.0946	2510.415
#3	1799.749	30840.65	4220.121	992.3668	2495.079

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-19RE Acquired: 06/30/2024 19:18:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4E2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7613934	-.022041	.5987452	-.067014	.0252758	106.3420
Stddev	.0117205	.000817	.0045615	.004908	.0009424	.1811
%RSD	1.539347	3.707419	.7618392	7.323785	3.728465	.1703245
#1	.7692212	-.021923	.6015636	-.071220	.0257445	106.2116
#2	.7479185	-.021290	.5934825	-.068201	.0241909	106.2657
#3	.7670406	-.022911	.6011895	-.061621	.0258919	106.5488

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.023379	.0046151	.0064904	49.49921	.1514156	.1290996
Stddev	.002662	.0000292	.0001171	.01935	.0001622	.0011094
%RSD	.2600788	.6330210	1.804646	.0390863	.1071056	.8593466
#1	1.025829	.0046355	.0066217	49.50462	.1512338	.1289435
#2	1.023759	.0046282	.0064530	49.47774	.1514675	.1280764
#3	1.020547	.0045816	.0063966	49.51528	.1515455	.1302787

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5908756	297.1370	4.758496	44.48261	.1817231	-.005370
Stddev	.0010747	.0587	.004592	.15704	.0018173	.000236
%RSD	.1818799	.0197544	.0964907	.3530369	1.000055	4.396501
#1	.5916617	297.1406	4.762489	44.31035	.1826340	-.005624
#2	.5896510	297.0766	4.759519	44.61780	.1796305	-.005326
#3	.5913140	297.1939	4.753479	44.51966	.1829048	-.005158

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.069634	.4221350	1.742858	27.84721	F 11.31588	.1421183
Stddev	.082217	.0052692	.015381	.09751	.05006	.0006889
%RSD	7.686504	1.248215	.8825135	.3501524	.4423525	.4847153
#1	1.161027	.4275312	1.760236	27.74726	11.34295	.1425390
#2	1.046190	.4218709	1.737344	27.85228	11.25811	.1413233
#3	1.001684	.4170028	1.730995	27.94208	11.34656	.1424927

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-19RE Acquired: 06/30/2024 19:18:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4E2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008214	2.534603	6.399054	.0045812	3.569894	.1296660
Stddev	.0006932	.001819	.020296	.0011625	.008349	.0027831
%RSD	84.39093	.0717583	.3171694	25.37467	.2338804	2.146369
#1	.0005181	2.533696	6.384458	.0032460	3.572535	.1264684
#2	.0016145	2.536697	6.390472	.0051301	3.560544	.1309875
#3	.0003316	2.533417	6.422230	.0053677	3.576604	.1315422

Elem	Sr4077
Units	ppm
Avg	.1840008
Stddev	.0008199
%RSD	.4455890
#1	.1833182
#2	.1837739
#3	.1849102

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1884.318	32478.60	4434.262	1032.390	2455.936
Stddev	4.348	163.45	11.231	2.045	9.493
%RSD	.2307393	.5032657	.2532776	.1980474	.3865296
#1	1879.314	32430.58	4444.329	1032.097	2449.366
#2	1887.170	32344.54	4436.309	1030.508	2466.820
#3	1886.470	32660.69	4422.149	1034.565	2451.623

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: CCV005 Acquired: 06/30/2024 19:23:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV005 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.929146	4.776688	24.25044	4.659702	4.780601	406.1010	9.854583
Stddev	.034359	.026933	.09323	.013195	.022942	.9814	.020915
%RSD	.6970617	.5638418	.3844639	.2831700	.4798926	.2416591	.2122350
#1	4.889661	4.754319	24.16353	4.648050	4.766244	405.1027	9.844715
#2	4.945538	4.769163	24.23886	4.657027	4.768499	407.0645	9.840427
#3	4.952240	4.806584	24.34892	4.674030	4.807060	406.1359	9.878606

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4963681	2.447481	395.4017	15.22291	2.453863	14.45230	401.6731
Stddev	.0029189	.011236	1.1106	.22576	.012515	.09510	.7452
%RSD	.5880444	.4590798	.2808781	1.483026	.5099952	.6580005	.1855351
#1	.4936337	2.437425	394.6202	15.26649	2.443204	14.37648	400.8616
#2	.4960288	2.445409	394.9119	14.97854	2.450744	14.55900	401.8310
#3	.4994418	2.459609	396.6730	15.42370	2.467642	14.42142	402.3268

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.49297	393.7413	2.463752	1.252678	394.6583	2.428823	14.09845
Stddev	.03618	1.1578	.015778	.021292	1.0934	.012549	.21530
%RSD	.2496579	.2940553	.6404135	1.699683	.2770452	.5166495	1.527133
#1	14.46518	392.5087	2.448740	1.257877	393.4408	2.414711	14.16227
#2	14.47986	393.9093	2.462318	1.229268	394.9775	2.433036	13.85846
#3	14.53389	394.8060	2.480199	1.270888	395.5565	2.438724	14.27463

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	148.8148	4.935216	4.991009	4.740293	4.921858	4.948741	4.912234
Stddev	.3372	.026724	.022888	.019010	.030626	.025371	.024541
%RSD	.2266106	.5414881	.4585840	.4010223	.6222410	.5126674	.4995845
#1	148.4387	4.910317	4.970242	4.729758	4.889823	4.921962	4.893530
#2	149.0902	4.931879	4.987238	4.728882	4.924905	4.951841	4.903150
#3	148.9155	4.963451	5.015549	4.762237	4.950847	4.972418	4.940022

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: CCV005 Acquired: 06/30/2024 19:23:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV005 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.805664	4.944009	4.893527
Stddev	.013716	.012504	.031624
%RSD	.2854041	.2529068	.6462329
#1	4.789847	4.948663	4.876014
#2	4.814272	4.929846	4.874535
#3	4.812872	4.953519	4.930033

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1389.268	25018.11	3625.322	753.1059	1987.043
Stddev	4.560	463.73	15.916	17.3075	7.703
%RSD	.3282394	1.853575	.4390155	2.298153	.3876634
#1	1390.239	24822.14	3624.980	746.4557	1993.661
#2	1393.266	25547.65	3641.406	772.7523	1988.881
#3	1384.301	24684.54	3609.580	740.1099	1978.588

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: CCB005 Acquired: 06/30/2024 19:27:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) 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	.0007645	.0006111	.0009751	.0005188	.0000497	.0093029	.0005356
Stddev	.0032791	.0012709	.0013646	.0048519	.0019375	.0147797	.0004468
%RSD	428.9083	207.9774	139.9525	935.2770	3895.350	158.8721	83.42119
#1	.0044156	-.000598	.0012926	.0034954	.0013317	.0127607	.0010128
#2	-.000192	.001935	-.000520	.0031409	.0009966	.0220472	.0004666
#3	-.001930	.000496	.002153	-.005080	-.002179	-.006899	.0001273

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000334	-.000075	.0072590	.0000540	-.000027	.0019107	.0203797
Stddev	.0000314	.000027	.0064837	.0002197	.000229	.0013380	.0121126
%RSD	93.86250	36.34785	89.31940	406.8056	834.6127	70.02861	59.43462
#1	.0000136	-.000092	.0092346	.0002338	-.000074	.0030591	.0174803
#2	.0000171	-.000089	.0000173	-.000191	-.000229	.0022316	.0099798
#3	.0000696	-.000043	.0125252	.000119	.000221	.0004414	.0336788

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001180	.0214241	.0001220	-.000027	-.091462	-.000422	-.002630
Stddev	.0004171	.0424414	.0001154	.000139	.135893	.002815	.006801
%RSD	353.4463	198.1012	94.59063	519.7643	148.5795	667.0028	258.6349
#1	.0001396	.0023060	.0002141	.000125	.041001	-.003243	-.009155
#2	.0005239	.0700618	-.000007	-.000147	-.084842	-.000410	-.003150
#3	-.000309	-.008096	.000159	-.000057	-.230544	.002387	.004417

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2429017	.0003252	.0098737	-.000143	-.002155	.0002471	.0004493
Stddev	.0600545	.0025216	.0007931	.000475	.002118	.0007970	.0006058
%RSD	24.72379	775.2932	8.032785	332.0904	98.29672	322.5075	134.8396
#1	.2828087	.0016844	.0090137	-.000479	.000291	-.000577	-.000190
#2	.2720616	-.002584	.0105764	-.000350	-.003414	.000304	.000522
#3	.1738349	.001876	.0100311	.000400	-.003341	.001014	.001016

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: CCB005 Acquired: 06/30/2024 19:27:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) 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	.0003282	-.000636	-.000013
Stddev	.0006134	.001495	.000069
%RSD	186.8970	235.0682	536.7935
#1	.0007694	-.001625	.000007
#2	-.000372	.001084	.000044
#3	.000588	-.001366	-.000090

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1720.451	29688.15	3918.465	952.5942	2767.269
Stddev	3.564	19.26	27.523	1.0706	5.999
%RSD	.2071396	.0648852	.7023852	.1123849	.2167754
#1	1722.136	29671.55	3894.815	953.8250	2773.368
#2	1716.357	29683.64	3948.675	951.8789	2761.376
#3	1722.859	29709.27	3911.905	952.0788	2767.062

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2900-19RE Acquired: 06/30/2024 19:32:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZWF1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1487687	-.009189	.5048433	-.044883	.0075359	63.13623	.6810638
Stddev	.0051335	.001476	.0025093	.007621	.0022815	.34887	.0040285
%RSD	3.450643	16.05966	.4970383	16.97857	30.27566	.5525743	.5915011
#1	.1448996	-.007755	.5071635	-.049460	.0100196	62.85454	.6782011
#2	.1545924	-.009110	.5021802	-.036086	.0055332	63.02766	.6793199
#3	.1468143	-.010703	.5051861	-.049104	.0070549	63.52648	.6856705

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0079251	.0019601	31.41567	.0825774	.0822620	.3646382	196.5340
Stddev	.0000990	.0001083	.11583	.0010859	.0002142	.0033978	1.0073
%RSD	1.248623	5.525916	.3686940	1.315053	.2603853	.9318277	.5125163
#1	.0079350	.0020461	31.30266	.0818139	.0821467	.3652930	195.6744
#2	.0078215	.0018384	31.41021	.0838206	.0821302	.3609606	196.2854
#3	.0080187	.0019956	31.53412	.0820978	.0825092	.3676608	197.6424

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.626831	9.817637	.1518156	-.004021	.8124308	.2637439	.7113396
Stddev	.017837	.053678	.0012068	.000217	.1284149	.0036000	.0068095
%RSD	.4918206	.5467469	.7948944	5.390723	15.80625	1.364960	.9572789
#1	3.606780	9.771537	.1512401	-.004257	.8834895	.2599324	.7056527
#2	3.632777	9.804807	.1510044	-.003975	.6641922	.2670864	.7188856
#3	3.640936	9.876567	.1532024	-.003831	.8896107	.2642129	.7094806

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.793445	3.885487	.1451314	.0257810	1.513408	4.610571	.0165544
Stddev	.039271	.017309	.0027835	.0002712	.012131	.029249	.0015684
%RSD	.8192578	.4454869	1.917927	1.051977	.8015730	.6343793	9.473934
#1	4.830310	3.879930	.1427458	.0260705	1.501892	4.581275	.0181022
#2	4.752145	3.871639	.1444588	.0255329	1.512259	4.610666	.0149662
#3	4.797879	3.904893	.1481896	.0257395	1.526072	4.639772	.0165949

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2900-19RE Acquired: 06/30/2024 19:32:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZWF1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.066149	.1006194	.1263233
Stddev	.001159	.0010677	.0005357
%RSD	.1087466	1.061098	.4240709
#1	1.064849	.1013257	.1258322
#2	1.066521	.1011412	.1262430
#3	1.067076	.0993911	.1268945

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1869.728	32152.37	4321.626	1031.936	2642.485
Stddev	10.348	393.85	16.864	12.234	13.631
%RSD	.5534297	1.224943	.3902280	1.185497	.5158256
#1	1875.433	32242.61	4340.629	1037.824	2645.493
#2	1875.966	31721.23	4315.805	1017.871	2654.360
#3	1857.783	32493.26	4308.443	1040.112	2627.602

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2900-21RE Acquired: 06/30/2024 19:36:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZWF1S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1567230	.0824699	1.758456	.0431315	.1262349	51.15690	4.326591
Stddev	.0072097	.0029239	.013855	.0024185	.0036659	.25896	.011493
%RSD	4.600254	3.545444	.7879127	5.607307	2.904029	.5062024	.2656354
#1	.1498420	.0791563	1.744145	.0453444	.1221383	51.00660	4.315014
#2	.1561054	.0835659	1.771805	.0435004	.1273598	51.00818	4.326761
#3	.1642216	.0846875	1.759420	.0405498	.1292065	51.45592	4.337998

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0951184	.0963928	21.29355	.4592476	.9660019	.6491193	169.1023
Stddev	.0003775	.0007983	.07311	.0009591	.0074480	.0066354	.7303
%RSD	.3968296	.8281500	.3433408	.2088497	.7710160	1.022219	.4318412
#1	.0951486	.0955773	21.23916	.4591629	.9575900	.6507751	168.9360
#2	.0947268	.0971726	21.26484	.4602463	.9717583	.6418128	168.4696
#3	.0954799	.0964285	21.37666	.4583336	.9686573	.6547700	169.9014

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.608174	8.879125	1.049035	.0811138	.7808760	1.077095	1.861395
Stddev	.023812	.076490	.009663	.0002222	.1880327	.009098	.009724
%RSD	.5167392	.8614584	.9211168	.2739547	24.07971	.8446910	.5224200
#1	4.603790	8.892784	1.037947	.0812613	.8777877	1.068140	1.868871
#2	4.586857	8.796726	1.055662	.0812219	.9006829	1.076816	1.850401
#3	4.633873	8.947866	1.053495	.0808582	.5641573	1.086330	1.864912

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.949497	6.427194	.0995826	.4538027	3.684015	3.925990	.0726927
Stddev	.027631	.062264	.0005009	.0024740	.043194	.018381	.0010642
%RSD	.4644188	.9687509	.5029926	.5451682	1.172464	.4681872	1.463923
#1	5.937103	6.356559	.0990183	.4515858	3.634328	3.906469	.0725477
#2	5.930234	6.474118	.0997547	.4564715	3.712608	3.942965	.0717084
#3	5.981155	6.450906	.0999748	.4533509	3.705110	3.928537	.0738219

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2900-21RE Acquired: 06/30/2024 19:36:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZWF1S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.014486	.0820205	.0721885
Stddev	.010556	.0037741	.0006104
%RSD	1.040573	4.601354	.8455772
#1	1.011320	.0810508	.0715969
#2	1.005875	.0788259	.0721525
#3	1.026263	.0861847	.0728161

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1902.126	32605.64	4350.167	1045.550	2698.289
Stddev	12.428	99.02	15.825	4.213	21.159
%RSD	.6533652	.3036773	.3637867	.4029726	.7841591
#1	1915.530	32606.23	4357.749	1041.675	2722.359
#2	1890.986	32506.33	4360.775	1050.035	2682.625
#3	1899.862	32704.36	4331.977	1044.939	2689.883

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-02 Acquired: 06/30/2024 19:40:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C64 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0208860	-.002868	.6459419	-.007905	.0033615	26.59068	.2229941
Stddev	.0033838	.000249	.0015306	.001609	.0017383	.09722	.0014216
%RSD	16.20119	8.673326	.2369629	20.35142	51.71184	.3656211	.6375127
#1	.0215661	-.003047	.6467585	-.006780	.0028640	26.70186	.2246271
#2	.0172139	-.002974	.6441762	-.007188	.0052943	26.52163	.2223216
#3	.0238781	-.002584	.6468912	-.009748	.0019262	26.54855	.2220334

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019978	.0006505	10.78325	.1669835	.0145309	.1738324	55.74589
Stddev	.0000616	.0001075	.03485	.0005613	.0002122	.0012698	.21416
%RSD	3.082511	16.52351	.3231935	.3361342	1.460597	.7304562	.3841717
#1	.0019372	.0006897	10.81005	.1669817	.0147734	.1735659	55.99027
#2	.0020603	.0005290	10.74386	.1675457	.0143790	.1727170	55.59093
#3	.0019959	.0007330	10.79585	.1664231	.0144404	.1752142	55.65648

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6494890	9.098910	.0469360	-.000297	.8936638	.1333118	.2266031
Stddev	.0032762	.036271	.0003114	.000117	.1515285	.0012839	.0073639
%RSD	.5044235	.3986342	.6634916	39.48723	16.95587	.9630675	3.249703
#1	.6524619	9.137947	.0472951	-.000308	1.022853	.1321762	.2324923
#2	.6459765	9.092532	.0467402	-.000174	.726876	.1347049	.2183467
#3	.6500287	9.066251	.0467727	-.000408	.931262	.1330543	.2289703

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.538868	2.683591	.0285112	.0019708	4.265294	2.381486	.0297700
Stddev	.048474	.018604	.0015482	.0002597	.016474	.019364	.0009333
%RSD	3.149951	.6932569	5.430130	13.17740	.3862401	.8131123	3.134959
#1	1.590417	2.673025	.0289371	.0020552	4.281093	2.394627	.0302468
#2	1.531982	2.672676	.0298018	.0016794	4.248219	2.390583	.0286946
#3	1.494206	2.705073	.0267946	.0021778	4.266571	2.359248	.0303686

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-02 Acquired: 06/30/2024 19:40:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C64 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.377935	.0584085	.0841831
Stddev	.004529	.0004906	.0000898
%RSD	.3287109	.8400161	.1067011
#1	1.379031	.0578443	.0841874
#2	1.372959	.0586461	.0840912
#3	1.381816	.0587351	.0842707

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1804.516	31047.84	4130.668	997.9548	2727.903
Stddev	4.822	42.10	17.386	4.9333	6.257
%RSD	.2672041	.1355867	.4209115	.4943411	.2293760
#1	1803.008	31000.75	4115.030	992.4152	2725.827
#2	1809.912	31081.82	4127.584	1001.874	2734.935
#3	1800.629	31060.96	4149.390	999.575	2722.948

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-03 Acquired: 06/30/2024 19:45:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C64D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0158877	-.004073	.6070957	-.014644	.0037512	25.10159	.2035485
Stddev	.0021562	.000725	.0047903	.005541	.0023312	.15150	.0002144
%RSD	13.57174	17.79042	.7890524	37.83583	62.14470	.6035519	.1053217
#1	.0149511	-.004710	.6122891	-.017836	.0035712	25.03538	.2034760
#2	.0183539	-.004224	.6061479	-.017851	.0015152	25.27493	.2033798
#3	.0143582	-.003285	.6028502	-.008246	.0061671	24.99446	.2037898

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019222	.0005491	10.07912	.1539844	.0141396	.1635037	53.13504
Stddev	.0000454	.0001318	.01409	.0012094	.0002401	.0022973	.30411
%RSD	2.360792	23.99620	.1397845	.7854270	1.698068	1.405038	.5723384
#1	.0018765	.0006890	10.07115	.1551224	.0144163	.1645204	52.83017
#2	.0019229	.0005307	10.09539	.1541164	.0140153	.1608735	53.43839
#3	.0019672	.0004274	10.07084	.1527144	.0139871	.1651173	53.13655

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6134755	8.732213	.0447858	-.000545	.7187005	.1271683	.2218636
Stddev	.0018781	.088461	.0006276	.000400	.1865997	.0021210	.0079743
%RSD	.3061340	1.013038	1.401321	73.29930	25.96348	1.667896	3.594219
#1	.6126623	8.636385	.0447792	-.000692	.5747982	.1292489	.2195304
#2	.6156231	8.810754	.0441616	-.000093	.9295348	.1250090	.2153161
#3	.6121411	8.749499	.0454167	-.000851	.6517686	.1272469	.2307442

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.421819	2.572922	.0262853	.0028696	3.855949	2.296089	.0280479
Stddev	.096302	.011032	.0007071	.0007564	.035350	.011757	.0000705
%RSD	6.773171	.4287868	2.690252	26.35873	.9167639	.5120508	.2514465
#1	1.383780	2.580330	.0258922	.0037025	3.875668	2.293235	.0280174
#2	1.531331	2.560243	.0271016	.0022255	3.815138	2.309010	.0279977
#3	1.350347	2.578193	.0258620	.0026808	3.877040	2.286021	.0281285

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-03 Acquired: 06/30/2024 19:45:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C64D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.334358	.0531332	.0772351
Stddev	.004623	.0028122	.0009543
%RSD	.3464256	5.292662	1.235612
#1	1.329199	.0520433	.0763029
#2	1.338124	.0563271	.0782101
#3	1.335752	.0510291	.0771925

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1796.725	31060.23	4128.743	990.3312	2728.932
Stddev	4.744	305.16	22.204	9.3190	7.479
%RSD	.2640632	.9824660	.5378015	.9409939	.2740614
#1	1792.991	31047.73	4148.638	992.9641	2721.633
#2	1802.064	31371.45	4104.789	998.0504	2736.579
#3	1795.120	30761.52	4132.803	979.9790	2728.583

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-02LX5 Acquired: 06/30/2024 19:49:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C64L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0084758	-.002617	.1253902	-.001990	.0014659	5.278159	.0448926
Stddev	.0010372	.002690	.0003132	.005459	.0022122	.043095	.0002520
%RSD	12.23724	102.7894	.2497862	274.3126	150.9055	.8164742	.5612181
#1	.0096662	-.001924	.1251087	-.003710	-.000660	5.326601	.0451728
#2	.0077665	-.000341	.1257276	-.006382	.003755	5.244079	.0446847
#3	.0079948	-.005587	.1253342	.004122	.001303	5.263798	.0448203

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003782	.0000394	2.139404	.0326183	.0027633	.0374515	11.13020
Stddev	.0000965	.0000893	.003581	.0008246	.0002148	.0015419	.04469
%RSD	25.50321	226.8169	.1674000	2.527905	7.774190	4.117179	.4015627
#1	.0004785	.0001222	2.143537	.0325931	.0025540	.0365912	11.16442
#2	.0002861	-.000055	2.137434	.0318066	.0029832	.0365316	11.07963
#3	.0003700	.000051	2.137239	.0334551	.0027528	.0392316	11.14655

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1308896	1.816377	.0092399	-.000172	.0953554	.0290263	.0462406
Stddev	.0003225	.058846	.0004905	.000322	.2111500	.0007616	.0022876
%RSD	.2463608	3.239752	5.308982	187.5112	221.4347	2.623758	4.947141
#1	.1306250	1.873639	.0087100	.000186	-.131662	.0281473	.0442848
#2	.1307951	1.819427	.0096781	-.000438	.285881	.0294886	.0456809
#3	.1312488	1.756065	.0093316	-.000264	.131847	.0294429	.0487561

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3262223	.5292006	.0050069	.0000317	.8307510	.4803275	.0050661
Stddev	.0729925	.0049983	.0003873	.0005823	.0048750	.0065900	.0012150
%RSD	22.37507	.9444974	7.734279	1834.990	.5868148	1.371986	23.98341
#1	.3692967	.5236815	.0050355	-.000545	.8270308	.4748870	.0061769
#2	.2419448	.5304982	.0053791	.000021	.8289524	.4876553	.0037685
#3	.3674256	.5334222	.0046061	.000619	.8362697	.4784403	.0052530

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-02LX5 Acquired: 06/30/2024 19:49:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C64L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.2725337	.0111189	.0164900
Stddev	.0018447	.0010315	.0001766
%RSD	.6768614	9.276777	1.071164
#1	.2745424	.0121794	.0166932
#2	.2721428	.0101191	.0163728
#3	.2709158	.0110583	.0164042

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1744.292	29915.36	3967.353	954.9466	2762.011
Stddev	5.480	83.29	6.947	4.4562	8.441
%RSD	.3141472	.2784160	.1750985	.4666389	.3055957
#1	1739.864	29860.29	3961.970	949.8803	2768.112
#2	1750.420	30011.18	3964.895	958.2586	2765.544
#3	1742.591	29874.63	3975.195	956.7010	2752.378

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-04 Acquired: 06/30/2024 19:54:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C64S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0730971	.0825288	.7658379	.0636753	.1566722	31.08042	3.760371
Stddev	.0017098	.0003366	.0026291	.0035981	.0026732	.05762	.003754
%RSD	2.339104	.4079006	.3433024	5.650730	1.706248	.1853954	.0998198
#1	.0713928	.0828668	.7641706	.0600531	.1586574	31.12296	3.761940
#2	.0748124	.0825260	.7644745	.0637240	.1536326	31.01484	3.756088
#3	.0730860	.0821935	.7688687	.0672488	.1577266	31.10345	3.763087

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0896596	.0878469	13.33450	.5594994	.8785585	.6508517	60.97488
Stddev	.0006873	.0002298	.04765	.0030385	.0033023	.0026598	.12014
%RSD	.7665947	.2616352	.3573598	.5430727	.3758754	.4086578	.1970394
#1	.0898064	.0879571	13.35034	.5563126	.8788010	.6535850	61.01792
#2	.0889108	.0875827	13.28094	.5598218	.8751417	.6506982	60.83914
#3	.0902617	.0880009	13.37222	.5623638	.8817329	.6482721	61.06758

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.616874	9.097707	.9336574	.0684020	.9548652	1.025017	1.058253
Stddev	.006082	.050263	.0014671	.0002720	.3086408	.003733	.015784
%RSD	.3761795	.5524804	.1571391	.3976331	32.32297	.3641753	1.491486
#1	1.611828	9.054090	.9325369	.0683002	1.144430	1.024822	1.047738
#2	1.615167	9.086355	.9331173	.0681957	1.121441	1.021386	1.076402
#3	1.623628	9.152675	.9353180	.0687103	.598725	1.028844	1.050618

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.720753	2.884453	.0326893	.4765545	4.766243	3.830254	.0359355
Stddev	.034517	.009046	.0010013	.0014374	.021576	.025694	.0016662
%RSD	2.005903	.3136170	3.063130	.3016146	.4526861	.6708088	4.636548
#1	1.736441	2.877680	.0316726	.4755889	4.742037	3.811639	.0355457
#2	1.681179	2.880952	.0327209	.4758683	4.783451	3.819554	.0344988
#3	1.744639	2.894726	.0336745	.4782064	4.773242	3.859569	.0377620

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-04 Acquired: 06/30/2024 19:54:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C64S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.466448	.0571365	.1039623
Stddev	.000377	.0015630	.0002713
%RSD	.0257363	2.735633	.2609393
#1	1.466038	.0569348	.1042653
#2	1.466527	.0587906	.1037420
#3	1.466780	.0556840	.1038797

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1786.022	30752.54	4104.180	976.1251	2695.136
Stddev	4.397	98.13	20.613	.7975	2.992
%RSD	.2461815	.3190883	.5022471	.0817014	.1110101
#1	1785.407	30856.46	4108.725	977.0164	2693.509
#2	1790.694	30739.70	4122.142	975.4789	2698.588
#3	1781.965	30661.47	4081.674	975.8798	2693.310

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-05 Acquired: 06/30/2024 19:58:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C46 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0577379	-.004239	1.136523	-.016054	.0084221	50.80510	.3640534
Stddev	.0070414	.001417	.009510	.002968	.0022334	.10463	.0010731
%RSD	12.19552	33.42962	.8367518	18.48963	26.51862	.2059481	.2947751
#1	.0625222	-.002605	1.135667	-.013341	.0061967	50.73310	.3641330
#2	.0610391	-.004988	1.127470	-.019224	.0106635	50.75709	.3650845
#3	.0496524	-.005125	1.146432	-.015597	.0084063	50.92513	.3629426

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025450	.0001304	8.674299	.7099743	.0377965	.5119418	82.18543
Stddev	.0000969	.0000548	.030840	.0078402	.0005086	.0055763	.18530
%RSD	3.807330	42.05707	.3555371	1.104296	1.345539	1.089251	.2254655
#1	.0026497	.0000859	8.708516	.7189887	.0381547	.5055067	81.97443
#2	.0025268	.0001917	8.665736	.7061914	.0372144	.5153522	82.26020
#3	.0024585	.0001136	8.648645	.7047429	.0380203	.5149666	82.32166

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.238034	14.96889	.0716358	-.000124	.2828153	.2115743	.2623483
Stddev	.006154	.04407	.0004762	.000499	.2008044	.0058055	.0023079
%RSD	.4970887	.2944305	.6647459	401.8747	71.00196	2.743961	.8796997
#1	1.231168	14.92457	.0716151	.000426	.3125048	.2057671	.2645722
#2	1.239882	14.96938	.0711703	-.000249	.4671220	.2173781	.2599647
#3	1.243053	15.01271	.0721220	-.000550	.0688191	.2115778	.2625080

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.707028	4.552536	.0354436	.0033061	1.781272	3.542404	.1127798
Stddev	.046045	.036337	.0005206	.0003383	.012384	.011889	.0015056
%RSD	2.697382	.7981798	1.468927	10.23254	.6952342	.3356292	1.334985
#1	1.704798	4.557149	.0351807	.0036021	1.771858	3.534380	.1143262
#2	1.662139	4.514112	.0360433	.0029373	1.776656	3.536769	.1113187
#3	1.754148	4.586346	.0351069	.0033790	1.795300	3.556063	.1126946

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-05 Acquired: 06/30/2024 19:58:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C46 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.431404	.0930120	.0414312
Stddev	.007882	.0022956	.0003603
%RSD	.3241780	2.468025	.8695441
#1	2.425894	.0905490	.0412078
#2	2.427886	.0933950	.0412390
#3	2.440433	.0950919	.0418468

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1839.019	31245.26	4204.109	998.4592	2706.896
Stddev	9.050	452.00	8.633	17.0559	13.600
%RSD	.4921286	1.446619	.2053453	1.708227	.5024290
#1	1842.043	30723.35	4194.294	978.9090	2708.994
#2	1846.170	31503.55	4207.512	1010.296	2719.325
#3	1828.844	31508.90	4210.523	1006.173	2692.368

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-06 Acquired: 06/30/2024 20:02:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C47 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0318099	-.006836	.5805401	-.018085	.0074302	51.27054	.3376477
Stddev	.0048350	.001621	.0023659	.005820	.0013050	.27791	.0012266
%RSD	15.19952	23.71881	.4075292	32.17995	17.56342	.5420545	.3632893
#1	.0358967	-.005025	.5830547	-.024617	.0088028	51.54795	.3389186
#2	.0264726	-.008152	.5783582	-.016188	.0062054	50.99213	.3375540
#3	.0330605	-.007330	.5802074	-.013451	.0072825	51.27154	.3364707

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022195	.0000764	12.77208	.3868836	.0460609	.3372621	82.25509
Stddev	.0000403	.0000563	.02676	.0024193	.0004748	.0035103	.40156
%RSD	1.817089	73.73871	.2094887	.6253330	1.030851	1.040824	.4881930
#1	.0022509	.0000213	12.78402	.3847710	.0457230	.3411620	82.71711
#2	.0022336	.0001338	12.74143	.3895228	.0458558	.3343554	81.98999
#3	.0021740	.0000740	12.79078	.3863568	.0466037	.3362689	82.05819

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.105821	21.38814	.0908609	-.000924	.4806728	.1842273	.2711675
Stddev	.003334	.20480	.0004124	.000416	.1143119	.0051158	.0034023
%RSD	.3015124	.9575329	.4539079	45.04997	23.78164	2.776920	1.254677
#1	1.109491	21.58916	.0913123	-.000973	.6066184	.1784079	.2709508
#2	1.102979	21.17977	.0905037	-.001313	.4519124	.1862580	.2678787
#3	1.104992	21.39550	.0907668	-.000485	.3834877	.1880161	.2746729

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.299362	5.139406	.0361419	.0014816	.8144333	3.297102	.0457442
Stddev	.035891	.025971	.0013600	.0010203	.0082067	.019002	.0009619
%RSD	1.560926	.5053403	3.762995	68.86306	1.007654	.5763344	2.102687
#1	2.306587	5.150674	.0367552	.0004795	.8060043	3.318418	.0458734
#2	2.331092	5.109703	.0370873	.0014463	.8148977	3.281938	.0447243
#3	2.260408	5.157840	.0345832	.0025191	.8223979	3.290951	.0466350

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-06 Acquired: 06/30/2024 20:02:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C47 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.936639	.1081096	.0489005
Stddev	.017331	.0019445	.0002738
%RSD	.5901520	1.798663	.5599919
#1	2.953169	.1068507	.0492103
#2	2.918606	.1071288	.0486906
#3	2.938141	.1103492	.0488006

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1806.737	30878.23	4143.899	982.6563	2659.899
Stddev	3.453	29.46	32.542	2.3337	6.626
%RSD	.1911336	.0953925	.7852904	.2374874	.2490971
#1	1810.725	30892.36	4110.846	980.4890	2665.430
#2	1804.742	30897.96	4175.904	985.1268	2661.710
#3	1804.746	30844.37	4144.947	982.3532	2652.555

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-07 Acquired: 06/30/2024 20:07:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C48 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0236262	-.006301	.3854871	-.014354	.0035505	46.02007	.2738896
Stddev	.0073373	.002380	.0021419	.004140	.0012975	.09463	.0004072
%RSD	31.05553	37.76677	.5556395	28.83926	36.54398	.2056252	.1486545
#1	.0255131	-.008616	.3841137	-.010166	.0029988	46.03716	.2734208
#2	.0155298	-.003862	.3843924	-.014453	.0050326	46.10500	.2740934
#3	.0298357	-.006425	.3879551	-.018443	.0026200	45.91807	.2741547

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020036	.0000825	9.954627	.2856172	.0581637	.2587812	73.70665
Stddev	.0000319	.0000682	.023748	.0005734	.0003803	.0071067	.27690
%RSD	1.589609	82.61156	.2385588	.2007425	.6538398	2.746209	.3756767
#1	.0020176	.0001116	9.966611	.2857726	.0582172	.2615121	73.90179
#2	.0020260	.0000046	9.969995	.2860969	.0577595	.2641173	73.82842
#3	.0019671	.0001313	9.927275	.2849822	.0585144	.2507142	73.38973

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.295831	17.22436	.0753300	-.001463	.2711772	.1562667	.2509998
Stddev	.003520	.06119	.0004175	.000193	.0305308	.0052389	.0033900
%RSD	.2716763	.3552619	.5542100	13.15865	11.25863	3.352547	1.350607
#1	1.296936	17.25386	.0752435	-.001368	.2913717	.1521284	.2500601
#2	1.298666	17.26521	.0749626	-.001337	.2360546	.1545146	.2481787
#3	1.291890	17.15401	.0757840	-.001685	.2861052	.1621571	.2547605

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.428201	3.902797	.0315614	.0013398	.5726795	3.030094	.0389713
Stddev	.059300	.024220	.0012638	.0006717	.0064084	.034802	.0006425
%RSD	2.442139	.6205733	4.004295	50.13837	1.119011	1.148532	1.648662
#1	2.496557	3.891517	.0324707	.0011470	.5767838	3.061540	.0396008
#2	2.397504	3.886275	.0320953	.0007855	.5652951	3.036041	.0389967
#3	2.390542	3.930600	.0301183	.0020868	.5759596	2.992703	.0383165

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-07 Acquired: 06/30/2024 20:07:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C48 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.389477	.1007805	.0389477
Stddev	.004322	.0017584	.0002162
%RSD	.1808957	1.744744	.5550319
#1	2.389182	.1006693	.0391849
#2	2.393940	.0990804	.0388963
#3	2.385310	.1025918	.0387619

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1806.814	30998.89	4144.182	990.7629	2671.530
Stddev	8.879	83.01	29.294	3.3371	14.706
%RSD	.4914355	.2677965	.7068714	.3368249	.5504853
#1	1807.761	31049.83	4113.707	993.9741	2675.659
#2	1815.182	31043.74	4146.707	991.0020	2683.731
#3	1797.499	30903.10	4172.132	987.3127	2655.201

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-08 Acquired: 06/30/2024 20:11:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C53 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0151909	-.005274	.2177753	-.011052	.0020604	38.68774	.1632349
Stddev	.0029979	.000244	.0027087	.004487	.0027741	.44315	.0018795
%RSD	19.73469	4.617243	1.243825	40.60289	134.6437	1.145445	1.151403
#1	.0141733	-.005548	.2146514	-.012394	-.000441	38.33603	.1622324
#2	.0185651	-.005084	.2194729	-.014715	.005044	38.54172	.1620694
#3	.0128342	-.005189	.2192015	-.006046	.001578	39.18547	.1654032

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016691	-.000497	7.541341	.1111399	.0316541	.1447407	67.94091
Stddev	.0000975	.000080	.070452	.0007486	.0002410	.0047005	.63369
%RSD	5.839499	16.20363	.9342102	.6735271	.7613667	3.247534	.9327085
#1	.0016164	-.000411	7.479880	.1103100	.0315847	.1477003	67.36984
#2	.0016094	-.000570	7.525915	.1117642	.0314554	.1393207	67.83025
#3	.0017816	-.000509	7.618227	.1113455	.0319222	.1472012	68.62265

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.011334	13.82155	.0666361	-.001278	.3238954	.1296359	.1574226
Stddev	.011350	.17478	.0005015	.000268	.0394533	.0031574	.0101496
%RSD	1.122293	1.264578	.7526381	20.94589	12.18087	2.435563	6.447373
#1	1.003303	13.78743	.0665057	-.001287	.2921718	.1283599	.1489822
#2	1.006380	13.66634	.0662127	-.001005	.3680727	.1273162	.1546012
#3	1.024319	14.01088	.0671900	-.001540	.3114416	.1332315	.1686845

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.107480	3.044903	.0267309	.0006302	.5125945	2.348500	.0029398
Stddev	.029048	.006810	.0002828	.0003539	.0029697	.021007	.0001861
%RSD	2.622854	.2236487	1.058048	56.16017	.5793501	.8944889	6.330005
#1	1.074772	3.046740	.0270449	.0004708	.5091746	2.332653	.0030484
#2	1.117400	3.037363	.0264962	.0010359	.5145218	2.340520	.0027250
#3	1.130268	3.050606	.0266517	.0003841	.5140871	2.372328	.0030462

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-08 Acquired: 06/30/2024 20:11:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C53 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.106868	.0760875	.0380707
Stddev	.024387	.0019579	.0004191
%RSD	1.157482	2.573176	1.100959
#1	2.089175	.0741586	.0377522
#2	2.096743	.0760308	.0379144
#3	2.134686	.0780731	.0385455

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1836.459	31503.59	4176.437	1010.445	2764.506
Stddev	6.085	85.50	25.885	1.127	6.400
%RSD	.3313276	.2714077	.6197813	.1115637	.2314941
#1	1842.114	31434.76	4199.131	1009.412	2768.578
#2	1837.243	31476.71	4181.935	1010.275	2767.810
#3	1830.021	31599.31	4148.245	1011.648	2757.130

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-09 Acquired: 06/30/2024 20:16:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C57 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0552442	-.007749	1.202695	-.017989	.0077116	49.74822	.3861584
Stddev	.0060365	.000857	.001379	.004443	.0009174	.15469	.0006220
%RSD	10.92690	11.06415	.1146505	24.69893	11.89615	.3109468	.1610599
#1	.0543678	-.008200	1.203802	-.016121	.0080026	49.92378	.3864023
#2	.0496938	-.006760	1.201151	-.014786	.0066839	49.63194	.3854514
#3	.0616710	-.008286	1.203133	-.023062	.0084481	49.68894	.3866214

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026272	.0001906	7.422567	.7198855	.0386176	.5327119	83.98799
Stddev	.0000172	.0000863	.032727	.0025307	.0006052	.0078043	.56120
%RSD	.6559212	45.29625	.4409072	.3515435	1.567219	1.465008	.6681853
#1	.0026337	.0001111	7.460267	.7170697	.0380918	.5400730	84.62347
#2	.0026402	.0002824	7.405975	.7219701	.0392792	.5335333	83.78009
#3	.0026077	.0001782	7.401460	.7206166	.0384818	.5245294	83.56042

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.257781	14.85089	.0715049	-.000323	.4320329	.2187205	.2515113
Stddev	.003250	.08458	.0006234	.000415	.2366571	.0032691	.0021539
%RSD	.2584097	.5695267	.8718274	128.6489	54.77758	1.494647	.8563799
#1	1.261026	14.93617	.0707930	-.000781	.5438110	.2221483	.2511075
#2	1.254526	14.84947	.0719531	.000028	.1601905	.2156374	.2538385
#3	1.257792	14.76703	.0717687	-.000215	.5920971	.2183759	.2495879

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.859688	4.142970	.0371141	.0040275	1.880719	2.913203	.1261245
Stddev	.080218	.010754	.0004953	.0003724	.006561	.024544	.0018021
%RSD	4.313531	.2595776	1.334654	9.247477	.3488748	.8425134	1.428844
#1	1.896410	4.141796	.0373781	.0041192	1.888281	2.941468	.1259735
#2	1.914973	4.132852	.0374214	.0036177	1.876535	2.900865	.1244027
#3	1.767682	4.154264	.0365426	.0043454	1.877340	2.897275	.1279974

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-09 Acquired: 06/30/2024 20:16:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C57 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.250339	.0951738	.0391176
Stddev	.008105	.0007915	.0001469
%RSD	.3601596	.8316830	.3754355
#1	2.258914	.0944414	.0392871
#2	2.249300	.0950665	.0390305
#3	2.242804	.0960135	.0390351

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1820.404	31374.35	4197.892	998.6484	2690.287
Stddev	5.371	69.64	50.367	5.0276	10.599
%RSD	.2950215	.2219524	1.199809	.5034415	.3939553
#1	1818.153	31382.01	4139.755	994.1913	2688.053
#2	1826.534	31439.84	4228.327	997.6556	2701.825
#3	1816.526	31301.20	4225.594	1004.098	2680.984

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-10 Acquired: 06/30/2024 20:20:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4CN4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0419527	-.005141	2.996116	-.012690	.0096811	48.93300	.1599803
Stddev	.0044752	.001460	.012396	.004561	.0023365	.09963	.0005918
%RSD	10.66731	28.40285	.4137267	35.94100	24.13477	.2036097	.3699128
#1	.0444927	-.005878	2.993542	-.014724	.0123782	48.82557	.1596736
#2	.0445801	-.003460	2.985209	-.015881	.0082724	48.95107	.1606625
#3	.0367854	-.006087	3.009596	-.007466	.0083927	49.02237	.1596048

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027157	.0052327	5.849363	.4333678	.0209262	1.638816	65.32712
Stddev	.0001838	.0001736	.037128	.0030039	.0002273	.000635	.18932
%RSD	6.768024	3.317334	.6347377	.6931620	1.085994	.0387767	.2897987
#1	.0028859	.0052262	5.842788	.4306982	.0207231	1.639235	65.21130
#2	.0027404	.0050625	5.889339	.4327845	.0208839	1.639129	65.54560
#3	.0025208	.0054095	5.815961	.4366206	.0211717	1.638085	65.22447

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6996564	7.949636	.0567059	.0008692	1.030422	.1444062	.5330682
Stddev	.0031991	.073359	.0004351	.0003053	.153446	.0010048	.0083949
%RSD	.4572336	.9228026	.7673550	35.12235	14.89156	.6957969	1.574821
#1	.7026046	7.915161	.0564381	.0007183	1.160522	.1434022	.5369717
#2	.7001098	7.899863	.0564717	.0012205	.861203	.1444046	.5388006
#3	.6962549	8.033882	.0572080	.0006687	1.069539	.1454118	.5234323

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.232072	4.836962	.0322176	.0066558	4.428637	3.621341	.0658825
Stddev	.021285	.014899	.0002132	.0001423	.014372	.015422	.0013124
%RSD	1.727609	.3080140	.6617558	2.138364	.3245143	.4258631	1.992066
#1	1.221900	4.822365	.0321345	.0065311	4.413816	3.605415	.0649523
#2	1.217780	4.836375	.0320585	.0066256	4.429582	3.636204	.0673837
#3	1.256534	4.852145	.0324598	.0068109	4.442513	3.622404	.0653115

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-10 Acquired: 06/30/2024 20:20:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4CN4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.389922	.0490269	.0338665
Stddev	.003719	.0015616	.0000364
%RSD	.2675834	3.185184	.1073831
#1	1.386034	.0505876	.0338584
#2	1.393446	.0474644	.0339062
#3	1.390286	.0490288	.0338348

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1862.365	31834.86	4302.880	1007.267	2699.851
Stddev	6.219	311.05	14.497	11.342	10.049
%RSD	.3339490	.9770737	.3369152	1.126038	.3721894
#1	1863.724	31862.44	4305.353	1002.423	2703.446
#2	1867.793	32131.21	4287.306	1020.227	2707.607
#3	1855.579	31510.95	4315.982	999.150	2688.499

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-11 Acquired: 06/30/2024 20:25:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4CN5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038460	-.002466	.5141841	-.002659	.0028572	23.83963	.1634051
Stddev	.0060173	.002007	.0032703	.002235	.0015902	.15082	.0006352
%RSD	156.4547	81.36751	.6360120	84.04531	55.65392	.6326248	.3887233
#1	.0009427	-.002370	.5105619	-.005010	.0012510	24.00600	.1640342
#2	.0107644	-.000509	.5150711	-.000562	.0028899	23.71188	.1627640
#3	-.000169	-.004519	.5169195	-.002406	.0044308	23.80100	.1634171

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017787	.0037619	2.490619	.1037973	.0058569	.3518426	15.04139
Stddev	.0000848	.0001044	.015154	.0013984	.0002450	.0033186	.04447
%RSD	4.765319	2.775760	.6084453	1.347254	4.182669	.9432112	.2956581
#1	.0017167	.0036714	2.506186	.1035025	.0055941	.3544753	15.06703
#2	.0017442	.0037382	2.489757	.1053196	.0058976	.3481148	14.99004
#3	.0018753	.0038762	2.475915	.1025698	.0060789	.3529378	15.06711

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1822590	1.633480	.0167649	.0000180	.7699319	.0443337	.3750951
Stddev	.0007091	.033211	.0005127	.0002797	.3284516	.0006977	.0190485
%RSD	.3890769	2.033132	3.058462	1557.683	42.65982	1.573694	5.078319
#1	.1816415	1.651696	.0170588	.0001873	1.149099	.0440626	.3919784
#2	.1821020	1.595147	.0161728	.0001715	.587722	.0451262	.3544444
#3	.1830334	1.653597	.0170631	-.000305	.572974	.0438122	.3788626

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5618484	.9919510	.0068816	.0013838	1.043849	3.442312	.0035370
Stddev	.0715038	.0077445	.0006451	.0003023	.008051	.037014	.0011795
%RSD	12.72653	.7807372	9.374612	21.84223	.7712604	1.075279	33.34804
#1	.6344689	.9932620	.0075822	.0016816	1.044510	3.484719	.0048712
#2	.5595599	.9836346	.0067506	.0010773	1.035489	3.425728	.0026328
#3	.4915163	.9989563	.0063121	.0013925	1.051550	3.416490	.0031069

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-11 Acquired: 06/30/2024 20:25:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4CN5 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.8586067	.0220141	.0264879
Stddev	.0069659	.0011261	.0002126
%RSD	.8112993	5.115378	.8026809
#1	.8658478	.0218959	.0267169
#2	.8580190	.0209518	.0262968
#3	.8519533	.0231946	.0264499

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1811.064	31119.14	4096.432	982.9282	2798.112
Stddev	5.931	156.55	13.805	3.4941	11.588
%RSD	.3274844	.5030645	.3369945	.3554762	.4141417
#1	1817.004	30948.55	4084.696	979.3912	2803.199
#2	1811.046	31152.66	4092.958	983.0158	2806.285
#3	1805.142	31256.22	4111.642	986.3777	2784.850

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-12 Acquired: 06/30/2024 20:29:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4CN7 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0366071	-.007331	.8173696	-.027339	.0087588	59.69447	.4478980
Stddev	.0038546	.000485	.0002015	.004024	.0027760	.03431	.0005211
%RSD	10.52979	6.615001	.0246503	14.71989	31.69378	.0574764	.1163344
#1	.0406607	-.007112	.8174959	-.031028	.0059470	59.69555	.4484100
#2	.0329882	-.007886	.8171373	-.023048	.0114975	59.65963	.4473683
#3	.0361724	-.006993	.8174757	-.027942	.0088319	59.72822	.4479158

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036773	.0068985	10.28461	.2696223	.0594672	.2754654	109.7428
Stddev	.0001054	.0000967	.03892	.0023766	.0001785	.0027743	.2923
%RSD	2.866974	1.402418	.3784531	.8814626	.3001806	1.007136	.2663494
#1	.0035606	.0069229	10.31773	.2706844	.0595641	.2740372	110.0804
#2	.0037056	.0069808	10.24174	.2668998	.0592612	.2736960	109.5742
#3	.0037657	.0067920	10.29437	.2712826	.0595763	.2786628	109.5739

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.864535	19.29198	.1774389	-.002375	1.146800	.2759169	.6099918
Stddev	.001093	.04546	.0003230	.000181	.126753	.0020010	.0175907
%RSD	.0586326	.2356458	.1820563	7.635105	11.05278	.7252116	2.883760
#1	1.865257	19.34388	.1774787	-.002561	1.014165	.2746615	.6302167
#2	1.863277	19.27281	.1770978	-.002199	1.266711	.2748648	.5982524
#3	1.865071	19.25924	.1777402	-.002365	1.159524	.2782245	.6015063

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.034700	6.682860	.0458365	.0079227	3.850168	2.837710	.0314811
Stddev	.107121	.029589	.0006492	.0003439	.021865	.028018	.0017440
%RSD	5.264724	.4427622	1.416282	4.341274	.5678983	.9873387	5.539906
#1	2.057491	6.685250	.0461798	.0075575	3.832977	2.808219	.0333561
#2	1.918017	6.652149	.0450878	.0079700	3.842751	2.840936	.0299073
#3	2.128591	6.711183	.0462420	.0082405	3.874777	2.863976	.0311800

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-12 Acquired: 06/30/2024 20:29:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4CN7 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.838194	.1030700	.0661808
Stddev	.002810	.0027639	.0002188
%RSD	.0732082	2.681613	.3306725
#1	3.840962	.1062344	.0659809
#2	3.838276	.1018472	.0661469
#3	3.835344	.1011283	.0664146

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1870.528	31697.53	4321.863	1019.133	2733.420
Stddev	4.071	159.78	21.787	5.662	9.183
%RSD	.2176595	.5040650	.5041172	.5555660	.3359424
#1	1871.327	31583.73	4338.159	1019.102	2736.173
#2	1874.140	31880.19	4330.314	1024.810	2740.910
#3	1866.116	31628.67	4297.117	1013.487	2723.175

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-13 Acquired: 06/30/2024 20:33:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C52 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0118294	-.004572	.2041986	-.018848	.0041053	36.08881	.1362081
Stddev	.0039819	.002574	.0018646	.007673	.0012155	.41969	.0009394
%RSD	33.66143	56.29848	.9131161	40.71152	29.60764	1.162931	.6896602
#1	.0163659	-.005676	.2039164	-.026567	.0036529	36.37306	.1364588
#2	.0102101	-.006410	.2061882	-.011221	.0031808	35.60677	.1351688
#3	.0089123	-.001630	.2024913	-.018756	.0054821	36.28661	.1369966

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012343	-.000337	6.443991	.1063784	.0281569	.1271316	73.49545
Stddev	.0000236	.000046	.082610	.0002248	.0002507	.0019141	.74828
%RSD	1.910380	13.51575	1.281973	.2112859	.8902643	1.505606	1.018136
#1	.0012585	-.000294	6.470894	.1064241	.0281798	.1252334	73.96713
#2	.0012114	-.000385	6.351282	.1065768	.0283954	.1271002	72.63266
#3	.0012330	-.000332	6.509795	.1061343	.0278956	.1290612	73.88655

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.096191	13.28458	.0685429	-.001527	.4288728	.1742191	.1831876
Stddev	.007814	.12883	.0007068	.000187	.0541559	.0025118	.0044220
%RSD	.7128698	.9697871	1.031158	12.22877	12.62750	1.441778	2.413938
#1	1.102517	13.29542	.0680737	-.001644	.4100808	.1766423	.1787332
#2	1.087455	13.15067	.0693558	-.001625	.4899215	.1716271	.1832531
#3	1.098600	13.40765	.0681993	-.001311	.3866160	.1743880	.1875765

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.266977	2.983351	.0307910	.0027412	1.134438	1.860202	.0162402
Stddev	.057955	.006816	.0001284	.0003312	.002135	.003343	.0004745
%RSD	4.574296	.2284654	.4169278	12.08064	.1882320	.1797331	2.921950
#1	1.292040	2.989531	.0307464	.0023656	1.132420	1.863303	.0157198
#2	1.200708	2.984482	.0306908	.0029909	1.136674	1.860643	.0163518
#3	1.308183	2.976040	.0309357	.0028671	1.134219	1.856660	.0166489

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-13 Acquired: 06/30/2024 20:33:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C52 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.315505	.0685827	.0378503
Stddev	.025333	.0006583	.0004786
%RSD	1.094049	.9598212	1.264538
#1	2.330784	.0686813	.0381459
#2	2.286263	.0691860	.0372981
#3	2.329468	.0678806	.0381069

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1796.484	30896.00	4113.289	985.8285	2715.895
Stddev	1.614	145.34	26.647	8.2966	3.330
%RSD	.0898511	.4704027	.6478172	.8415820	.1226065
#1	1794.661	30745.03	4097.017	977.9148	2713.379
#2	1797.059	31034.96	4144.040	985.1096	2714.635
#3	1797.732	30908.01	4098.809	994.4611	2719.671

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-14 Acquired: 06/30/2024 20:38:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C54 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0238805	-.004667	.8442017	-.020693	.0069277	38.06301	.3421777
Stddev	.0029942	.001514	.0032508	.000845	.0027108	.18104	.0016802
%RSD	12.53806	32.45215	.3850746	4.082509	39.12974	.4756423	.4910207
#1	.0269893	-.006238	.8414535	-.019719	.0050511	37.99636	.3402438
#2	.0236363	-.003216	.8477901	-.021141	.0100356	37.92474	.3430101
#3	.0210160	-.004545	.8433614	-.021220	.0056964	38.26793	.3432791

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029121	.0013039	13.01198	.3207387	.0237263	.3038379	84.11324
Stddev	.0001231	.0000595	.02766	.0036178	.0004001	.0060079	.38379
%RSD	4.226137	4.560797	.2125554	1.127949	1.686445	1.977347	.4562753
#1	.0030495	.0013724	13.00492	.3245317	.0235116	.3031094	83.88464
#2	.0028750	.0012743	12.98853	.3203580	.0234794	.2982275	83.89875
#3	.0028119	.0012651	13.04248	.3173263	.0241880	.3101769	84.55632

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.394827	11.63250	.0791488	-.000289	1.196744	.1682812	.3459857
Stddev	.004810	.04359	.0003959	.000300	.233540	.0052758	.0096028
%RSD	.3448791	.3747582	.5001637	103.7905	19.51461	3.135103	2.775493
#1	1.393087	11.63530	.0787202	-.000581	1.369463	.1673893	.3537830
#2	1.391129	11.67462	.0792255	-.000304	1.289736	.1635082	.3489145
#3	1.400265	11.58757	.0795007	.000018	.931033	.1739461	.3352595

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.407353	3.945450	.0394371	.0045420	4.011880	3.338894	.0471409
Stddev	.056935	.024744	.0012868	.0003462	.017818	.020177	.0002015
%RSD	4.045510	.6271469	3.262817	7.622627	.4441210	.6043019	.4275335
#1	1.455452	3.919883	.0383236	.0041765	3.991711	3.320300	.0470940
#2	1.344491	3.947190	.0391421	.0045845	4.018442	3.336035	.0469670
#3	1.422117	3.969279	.0408458	.0048650	4.025486	3.360349	.0473618

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-14 Acquired: 06/30/2024 20:38:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C54 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.884990	.0657444	.1153036
Stddev	.010784	.0025339	.0007985
%RSD	.5720799	3.854216	.6925067
#1	1.889909	.0686204	.1153970
#2	1.872624	.0638405	.1144625
#3	1.892438	.0647723	.1160512

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1809.180	31390.24	4167.497	995.4594	2691.150
Stddev	7.673	295.54	13.802	14.8982	10.600
%RSD	.4240908	.9415112	.3311799	1.496619	.3938899
#1	1814.972	31167.11	4171.060	986.8277	2703.163
#2	1800.478	31278.20	4179.168	986.8881	2683.114
#3	1812.089	31725.43	4152.263	1012.662	2687.172

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-15 Acquired: 06/30/2024 20:42:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C55 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0126806	-.004293	.2117651	-.011393	.0038105	47.44113	.3033219
Stddev	.0029145	.001358	.0014367	.006249	.0007194	.27710	.0014082
%RSD	22.98416	31.63864	.6784399	54.84626	18.87900	.5841000	.4642712
#1	.0142541	-.003765	.2101817	-.004515	.0043550	47.34164	.3035259
#2	.0144701	-.005836	.2129854	-.012945	.0040816	47.75424	.3046170
#3	.0093175	-.003278	.2121281	-.016720	.0029950	47.22751	.3018227

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027354	-.000010	6.909212	.1868254	.0337907	.0907196	66.95420
Stddev	.0000632	.000060	.042386	.0009444	.0004382	.0014180	.45710
%RSD	2.310591	608.0263	.6134711	.5054911	1.296890	1.563035	.6827111
#1	.0026715	.000037	6.885532	.1873805	.0336018	.0912451	66.71345
#2	.0027370	.000011	6.958147	.1873607	.0334786	.0891139	67.48136
#3	.0027978	-.000078	6.883957	.1857350	.0342917	.0917999	66.66780

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.905007	9.333305	.0626904	-.000967	.9084085	.1740514	.1649379
Stddev	.013703	.113331	.0005748	.000349	.3072984	.0001470	.0068911
%RSD	.7193056	1.214261	.9168153	36.06742	33.82822	.0844749	4.178014
#1	1.896265	9.204700	.0624294	-.001005	1.228041	.1740504	.1610704
#2	1.920800	9.418568	.0633494	-.000601	.882041	.1741990	.1608492
#3	1.897956	9.376648	.0622925	-.001296	.615144	.1739049	.1728940

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9108887	1.620640	.0265748	.0012492	1.367920	3.529641	.0112116
Stddev	.0405218	.011120	.0011369	.0004032	.004108	.021369	.0013538
%RSD	4.448595	.6861728	4.278201	32.27687	.3002862	.6054157	12.07524
#1	.9200232	1.623659	.0278153	.0013030	1.364663	3.505061	.0113848
#2	.9460635	1.608322	.0263266	.0016229	1.366561	3.543800	.0097795
#3	.8665794	1.629940	.0255825	.0008218	1.372535	3.540063	.0124704

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-15 Acquired: 06/30/2024 20:42:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C55 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.662872	.0622716	.0619840
Stddev	.009890	.0021552	.0004270
%RSD	.5947385	3.461041	.6889027
#1	1.655783	.0598470	.0616015
#2	1.674170	.0629978	.0624447
#3	1.658663	.0639699	.0619059

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1878.228	32252.88	4311.828	1031.052	2706.140
Stddev	4.657	89.31	35.491	6.465	8.342
%RSD	.2479261	.2768980	.8231153	.6270548	.3082702
#1	1877.458	32206.92	4349.381	1027.291	2707.927
#2	1883.222	32195.90	4278.840	1027.348	2713.444
#3	1874.005	32355.80	4307.262	1038.517	2697.049

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-16 Acquired: 06/30/2024 20:47:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C58 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0241359	-.010320	.2657506	-.021933	.0085623	48.32385	.1750043
Stddev	.0036594	.001520	.0018296	.001828	.0006931	.21288	.0004946
%RSD	15.16145	14.72491	.6884842	8.332909	8.094804	.4405212	.2826078
#1	.0279888	-.011738	.2675060	-.020453	.0090957	48.23410	.1754902
#2	.0207070	-.010505	.2638548	-.021371	.0088124	48.17055	.1745015
#3	.0237121	-.008716	.2658912	-.023976	.0077789	48.56691	.1750212

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015698	-.000497	10.71164	.1495018	.0397833	.1813222	116.0637
Stddev	.0000523	.000076	.03361	.0006305	.0004855	.0036770	.3220
%RSD	3.333472	15.27172	.3137841	.4217517	1.220256	2.027882	.2774336
#1	.0015674	-.000421	10.74964	.1501101	.0401220	.1827828	116.0591
#2	.0015187	-.000498	10.68581	.1495441	.0392271	.1771393	115.7440
#3	.0016233	-.000573	10.69946	.1488512	.0400008	.1840444	116.3879

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.508634	18.35543	.1094999	-.002243	.5460318	.2326571	.2321569
Stddev	.006309	.14941	.0005273	.000135	.2508643	.0003841	.0069590
%RSD	.4182135	.8139620	.4815889	6.026297	45.94315	.1651161	2.997545
#1	1.509579	18.29325	.1100067	-.002363	.8286501	.2330607	.2324042
#2	1.501905	18.24716	.1089541	-.002269	.4597507	.2322959	.2389890
#3	1.514417	18.52589	.1095388	-.002096	.3496948	.2326146	.2250775

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.649397	4.967070	.0479408	.0057091	1.398198	3.793858	.0147503
Stddev	.049594	.002065	.0013537	.0002777	.006463	.011526	.0007296
%RSD	3.006823	.0415790	2.823788	4.864507	.4622305	.3038042	4.946276
#1	1.674832	4.967988	.0486115	.0054621	1.401579	3.803343	.0154958
#2	1.681114	4.964704	.0463826	.0060097	1.402269	3.797200	.0140377
#3	1.592245	4.968517	.0488282	.0056556	1.390746	3.781030	.0147176

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-16 Acquired: 06/30/2024 20:47:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C58 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.620183	.0957945	.0515928
Stddev	.008853	.0048759	.0005088
%RSD	.3378827	5.089972	.9861297
#1	2.614258	.1014241	.0512394
#2	2.615931	.0930535	.0513630
#3	2.630360	.0929060	.0521759

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1808.286	30980.69	4175.327	986.6038	2685.732
Stddev	2.702	23.89	18.522	4.8521	4.827
%RSD	.1494256	.0770992	.4435970	.4917988	.1797415
#1	1809.080	31005.63	4171.441	987.3008	2684.193
#2	1810.501	30978.42	4195.483	981.4408	2691.141
#3	1805.275	30958.02	4159.057	991.0697	2681.862

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-17 Acquired: 06/30/2024 20:51:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C60 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0088361	-.006292	.1027248	-.016590	.0042838	40.71191	.1824304
Stddev	.0063343	.000612	.0019707	.002770	.0042003	.17119	.0006032
%RSD	71.68653	9.722181	1.918390	16.69980	98.05059	.4204970	.3306372
#1	.0161176	-.005587	.1026430	-.017498	.0086577	40.57781	.1824243
#2	.0057947	-.006682	.1007963	-.018792	.0039120	40.90474	.1830367
#3	.0045962	-.006606	.1047351	-.013479	.0002818	40.65319	.1818304

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025306	-.000319	11.96373	.1062708	.0593049	.0988542	86.79965
Stddev	.0000861	.000080	.04330	.0016366	.0003638	.0010822	.31694
%RSD	3.401281	25.19700	.3619020	1.540053	.6134055	1.094731	.3651357
#1	.0024334	-.000248	11.94560	.1044506	.0596592	.0976650	86.75206
#2	.0025611	-.000303	12.01315	.1067408	.0589323	.0997812	87.13770
#3	.0025972	-.000406	11.93245	.1076209	.0593233	.0991163	86.50920

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.419755	16.37985	.0757075	-.001819	.8369273	.1530694	.2168460
Stddev	.004837	.03200	.0009968	.000058	.0483626	.0002842	.0128592
%RSD	.1999059	.1953528	1.316590	3.189499	5.778591	.1856595	5.930119
#1	2.414534	16.34611	.0762721	-.001752	.8028693	.1527477	.2224784
#2	2.424085	16.40977	.0745566	-.001846	.8156289	.1532865	.2259279
#3	2.420647	16.38366	.0762938	-.001858	.8922836	.1531738	.2021316

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.607125	3.960028	.0344269	.0006473	.3269323	2.122756	.0029511
Stddev	.006437	.027714	.0003481	.0001236	.0042089	.014890	.0007639
%RSD	.4005190	.6998390	1.011103	19.09110	1.287403	.7014473	25.88453
#1	1.604583	3.980588	.0340479	.0007802	.3224860	2.105573	.0020811
#2	1.614445	3.928511	.0345003	.0006258	.3274561	2.130831	.0032600
#3	1.602347	3.970986	.0347324	.0005358	.3308548	2.131865	.0035121

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-17 Acquired: 06/30/2024 20:51:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C60 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.171963	.0959408	.0541233
Stddev	.005220	.0015337	.0004121
%RSD	.2403212	1.598609	.7613878
#1	2.171971	.0957395	.0539311
#2	2.177179	.0945177	.0545964
#3	2.166739	.0975653	.0538425

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1846.085	31712.42	4258.520	1013.351	2686.261
Stddev	9.165	233.06	17.024	6.232	16.854
%RSD	.4964312	.7349035	.3997743	.6150385	.6274327
#1	1844.298	31980.91	4262.515	1019.012	2683.568
#2	1856.011	31594.01	4239.853	1006.672	2704.300
#3	1837.945	31562.35	4273.192	1014.369	2670.915

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-18 Acquired: 06/30/2024 20:56:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4CJ1 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0198405	-.004851	1.127954	-.011136	.0042157	39.06334	.6014303
Stddev	.0036023	.001609	.005846	.005393	.0025322	.06424	.0005402
%RSD	18.15620	33.15682	.5182581	48.42320	60.06609	.1644501	.0898258
#1	.0221292	-.006623	1.127298	-.017066	.0034347	39.12421	.6015100
#2	.0217042	-.004449	1.122464	-.006524	.0070464	39.06962	.6008546
#3	.0156882	-.003482	1.134100	-.009819	.0021660	38.99619	.6019263

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039909	.0151891	16.81340	.3787717	.0264494	.3756259	72.82456
Stddev	.0000942	.0000443	.05069	.0021571	.0001851	.0067535	.11188
%RSD	2.359741	.2917263	.3014918	.5695045	.6998517	1.797941	.1536282
#1	.0040433	.0151427	16.84330	.3803853	.0263002	.3826217	72.91789
#2	.0040471	.0151937	16.75487	.3796083	.0266566	.3751119	72.85525
#3	.0038821	.0152310	16.84203	.3763216	.0263915	.3691440	72.70054

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.765626	10.29285	.1690764	.0003914	1.433564	.1799135	3.023915
Stddev	.006929	.01815	.0002652	.0001732	.253385	.0031922	.015733
%RSD	.2505553	.1763511	.1568354	44.25633	17.67515	1.774283	.5202777
#1	2.761878	10.28410	.1688323	.0003169	1.228401	.1821677	3.030253
#2	2.761377	10.31373	.1690383	.0002679	1.355496	.1813121	3.006002
#3	2.773622	10.28074	.1693585	.0005894	1.716797	.1762608	3.035490

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.489492	4.917789	.0401751	.0071846	5.500572	3.054132	.0552399
Stddev	.038618	.025280	.0014682	.0001833	.020276	.013912	.0018009
%RSD	2.592724	.5140550	3.654486	2.551499	.3686208	.4554982	3.260059
#1	1.449570	4.912335	.0397726	.0073086	5.493413	3.047733	.0532984
#2	1.526659	4.895682	.0389502	.0069740	5.484846	3.070091	.0555658
#3	1.492247	4.945352	.0418026	.0072712	5.523457	3.044571	.0568555

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-18 Acquired: 06/30/2024 20:56:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4CJ1 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.384229	.0662650	.1532327
Stddev	.004268	.0016892	.0007177
%RSD	.3083093	2.549123	.4684035
#1	1.387223	.0681621	.1538695
#2	1.386121	.0649237	.1533736
#3	1.379342	.0657093	.1524549

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1846.761	32037.44	4304.374	1024.841	2710.605
Stddev	6.127	85.53	12.463	4.279	10.724
%RSD	.3317776	.2669679	.2895333	.4175607	.3956204
#1	1849.000	31952.15	4299.081	1027.445	2715.798
#2	1851.454	32123.20	4295.433	1027.176	2717.743
#3	1839.829	32036.99	4318.610	1019.902	2698.273

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: CCV006 Acquired: 06/30/2024 21:00:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV006 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.938872	4.808129	24.27441	4.658200	4.775177	401.8742	9.820426
Stddev	.023960	.012568	.06163	.017644	.013259	1.0349	.010779
%RSD	.4851261	.2613965	.2538693	.3787750	.2776710	.2575166	.1097622
#1	4.924693	4.797863	24.23859	4.675195	4.786237	403.0195	9.822450
#2	4.925388	4.804378	24.23907	4.639972	4.760478	401.0064	9.808778
#3	4.966535	4.822146	24.34557	4.659435	4.778817	401.5966	9.830049

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4896216	2.454775	393.9986	15.39123	2.457775	14.29872	397.3456
Stddev	.0032180	.005236	.3988	.14605	.006215	.05818	.5831
%RSD	.6572354	.2133101	.1012136	.9489077	.2528617	.4069206	.1467457
#1	.4867169	2.451181	393.8490	15.22268	2.451648	14.36523	397.9669
#2	.4930808	2.452360	393.6963	15.47067	2.457603	14.27373	396.8103
#3	.4890672	2.460783	394.4506	15.48034	2.464074	14.25721	397.2595

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.39041	390.7156	2.472617	1.269900	391.3688	2.407939	13.80782
Stddev	.02016	.5483	.009977	.009652	1.5367	.019024	.08630
%RSD	.1400649	.1403233	.4035087	.7600425	.3926387	.7900438	.6250374
#1	14.41219	391.2168	2.463093	1.258814	391.9356	2.411279	13.87504
#2	14.37241	390.1301	2.471766	1.276433	389.6292	2.387466	13.71050
#3	14.38663	390.8000	2.482993	1.274453	392.5415	2.425072	13.83793

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	147.3911	4.947095	4.929207	4.731708	4.936808	4.887329	4.916299
Stddev	.4852	.027488	.035819	.010927	.023325	.041905	.026093
%RSD	.3291972	.5556389	.7266597	.2309378	.4724795	.8574250	.5307399
#1	147.9063	4.968178	4.894846	4.736067	4.919199	4.848091	4.906305
#2	146.9428	4.916006	4.966324	4.719274	4.927961	4.931470	4.896681
#3	147.3244	4.957102	4.926451	4.739783	4.963262	4.882425	4.945911

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: CCV006 Acquired: 06/30/2024 21:00:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV006 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.764985	4.935868	4.788102
Stddev	.009988	.009178	.016481
%RSD	.2096167	.1859550	.3442006
#1	4.776488	4.932440	4.773546
#2	4.759957	4.928897	4.784765
#3	4.758509	4.946267	4.805996

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1392.313	24597.32	3644.145	742.2947	1985.257
Stddev	2.803	117.73	9.606	4.2938	4.404
%RSD	.2013147	.4786255	.2636009	.5784431	.2218317
#1	1391.508	24718.10	3647.843	742.7616	1987.930
#2	1395.430	24590.95	3633.240	746.3360	1987.668
#3	1390.001	24482.90	3651.353	737.7866	1980.174

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: CCB006 Acquired: 06/30/2024 21:04:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) 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	.0033383	-.000864	.0001881	.0014907	.0009170	.0036025	.0003189
Stddev	.0010625	.000171	.0009482	.0010400	.0020489	.0091711	.0003278
%RSD	31.82711	19.81171	504.1429	69.76491	223.4435	254.5709	102.7895
#1	.0043493	-.000731	-.000668	.0024693	.0019983	.0078268	.0006948
#2	.0022309	-.001057	.001207	.0016043	-.001446	.0099002	.0001701
#3	.0034348	-.000804	.000026	.0003986	.002199	-.006919	.0000920

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000535	-.000013	.0062698	-.000077	.0000360	.0044469	.0229083
Stddev	.0000457	.000027	.0025789	.000553	.0000825	.0020726	.0072048
%RSD	85.42752	202.3909	41.13223	715.2612	228.9655	46.60764	31.45053
#1	.0000186	-.000029	.0067824	-.000423	.0001122	.0026142	.0233232
#2	.0000367	-.000028	.0034731	.000561	.0000473	.0066961	.0298967
#3	.0001053	.000018	.0085540	-.000369	-.000052	.0040305	.0155050

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000114	-.007121	.0000587	.0002219	-.150460	.0014960	-.009959
Stddev	.000707	.075646	.0003442	.0002179	.277065	.0022227	.004023
%RSD	622.6567	1062.236	586.7354	98.20440	184.1450	148.5787	40.39840
#1	-.000664	-.056971	.0004048	.0002675	-.370111	-.000262	-.012128
#2	-.000360	.079921	-.000283	.0004135	.160810	.003994	-.005317
#3	.000684	-.044314	.000055	-.000015	-.242080	.000755	-.012433

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3302129	.0030988	.0090870	-.000099	.0041745	.0011911	.0001357
Stddev	.0148849	.0040491	.0005328	.000195	.0045758	.0002533	.0007921
%RSD	4.507662	130.6674	5.863693	197.2732	109.6134	21.26228	583.7973
#1	.3177356	.0067420	.0092724	.000126	-.000998	.0012795	-.000617
#2	.3262144	-.001261	.0095025	-.000200	.007693	.0009055	.000063
#3	.3466886	.003815	.0084863	-.000223	.005829	.0013883	.000962

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: CCB006 Acquired: 06/30/2024 21:04:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) 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	.0001535	.0027959	.0000397
Stddev	.0020938	.0005694	.0000391
%RSD	1363.985	20.36442	98.68566
#1	.0008703	.0029957	-.000004
#2	-.002205	.0021536	.000072
#3	.001795	.0032385	.000051

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1720.510	29494.41	3857.810	948.6888	2761.454
Stddev	4.720	203.41	18.319	3.5428	6.190
%RSD	.2743402	.6896454	.4748438	.3734454	.2241639
#1	1717.155	29418.70	3878.890	948.5500	2761.744
#2	1725.907	29724.81	3845.755	952.2990	2767.493
#3	1718.467	29339.72	3848.785	945.2174	2755.123

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-19 Acquired: 06/30/2024 21:09:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4CJ2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0430165	.0033285	.3327693	-.034186	.0052889	35.23350	.5032836
Stddev	.0021984	.0013956	.0011998	.004056	.0014089	.01340	.0019662
%RSD	5.110542	41.92893	.3605386	11.86407	26.63864	.0380399	.3906694
#1	.0453026	.0041712	.3318160	-.036504	.0067654	35.22675	.5035084
#2	.0409179	.0017176	.3323753	-.029503	.0039592	35.22482	.5051277
#3	.0428291	.0040967	.3341165	-.036553	.0051420	35.24894	.5012146

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0034980	.0039328	4.212921	.1728085	.2446809	.1738689	154.6462
Stddev	.0000934	.0000933	.006558	.0008432	.0009596	.0028310	.2317
%RSD	2.668819	2.371721	.1556633	.4879423	.3921996	1.628253	.1498291
#1	.0034010	.0040405	4.207383	.1737331	.2435744	.1707509	154.9136
#2	.0035059	.0038770	4.211216	.1720820	.2452863	.1745776	154.5054
#3	.0035872	.0038809	4.220163	.1726105	.2451819	.1762784	154.5196

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	28.29926	5.292431	.0838244	-.003132	.8240127	.0996419	.9217254
Stddev	.02286	.079316	.0004768	.000468	.1218033	.0014881	.0016721
%RSD	.0807634	1.498666	.5688149	14.94349	14.78172	1.493396	.1814068
#1	28.31850	5.240680	.0832742	-.002603	.9275625	.0980238	.9236550
#2	28.30529	5.252867	.0840836	-.003301	.6898114	.1009516	.9208166
#3	28.27400	5.383746	.0841155	-.003491	.8546641	.0999504	.9207045

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4807265	2.053398	.0638367	.0196762	2.295371	2.671991	.0182077
Stddev	.0592133	.005413	.0026824	.0005460	.006120	.015193	.0010525
%RSD	12.31747	.2636083	4.202020	2.774661	.2666134	.5685870	5.780646
#1	.4217217	2.053192	.0660013	.0196552	2.288317	2.688193	.0178609
#2	.4803115	2.048092	.0608357	.0191411	2.298522	2.658065	.0193899
#3	.5401462	2.058911	.0646730	.0202324	2.299272	2.669715	.0173723

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-19 Acquired: 06/30/2024 21:09:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4CJ2 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.787916	.0377142	.0418435
Stddev	.002748	.0029869	.0002989
%RSD	.1536757	7.919922	.7144350
#1	1.789578	.0378151	.0420723
#2	1.789424	.0406495	.0415052
#3	1.784744	.0346781	.0419528

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1924.953	32866.12	4401.577	1052.854	2718.960
Stddev	6.685	58.40	25.469	4.230	5.899
%RSD	.3472635	.1776894	.5786413	.4017571	.2169555
#1	1932.409	32916.97	4376.021	1057.735	2725.771
#2	1922.954	32802.33	4426.959	1050.589	2715.647
#3	1919.496	32879.05	4401.750	1050.240	2715.464

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-20 Acquired: 06/30/2024 21:13:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4CN3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0155588	-.002232	.0598915	-.031795	.0060542	52.77293	.2936717
Stddev	.0038269	.000932	.0024454	.005422	.0025955	.70082	.0032773
%RSD	24.59614	41.75887	4.083063	17.05399	42.87073	1.327984	1.115980
#1	.0199753	-.001498	.0603291	-.027326	.0056602	53.54030	.2960970
#2	.0132245	-.001918	.0572568	-.037827	.0088243	52.16676	.2899433
#3	.0134766	-.003281	.0620886	-.030231	.0036783	52.61175	.2949749

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032269	.0020368	17.23216	.1919405	.3190618	.1247529	139.1241
Stddev	.0000482	.0001074	.18871	.0012596	.0005410	.0013677	1.7354
%RSD	1.492413	5.273065	1.095118	.6562599	.1695666	1.096361	1.247375
#1	.0031713	.0019941	17.39659	.1933222	.3184820	.1251782	140.9758
#2	.0032532	.0021590	17.02611	.1908562	.3191503	.1258576	137.5349
#3	.0032561	.0019573	17.27377	.1916433	.3195532	.1232231	138.8616

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.17534	27.65033	.1940700	-.003910	.8882471	.1382757	.7622473
Stddev	.18557	.35388	.0010733	.000092	.2227059	.0036073	.0112325
%RSD	1.222837	1.279836	.5530578	2.356024	25.07252	2.608756	1.473600
#1	15.36567	27.95671	.1931511	-.003821	.9290998	.1415277	.7751002
#2	14.99493	27.26299	.1938092	-.004005	.6479430	.1343956	.7573272
#3	15.16541	27.73128	.1952497	-.003905	1.087699	.1389039	.7543143

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.044258	7.096970	.0586585	.0105970	.5445272	2.041171	.0012597
Stddev	.018734	.011614	.0023778	.0003661	.0030732	.015434	.0007509
%RSD	.9164359	.1636531	4.053673	3.455039	.5643853	.7561468	59.60815
#1	2.052249	7.101264	.0610076	.0101893	.5411902	2.052469	.0017496
#2	2.057671	7.083820	.0562530	.0107039	.5451504	2.023585	.0003952
#3	2.022853	7.105826	.0587151	.0108978	.5472411	2.047458	.0016342

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-20 Acquired: 06/30/2024 21:13:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4CN3 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	2.318817	.1156405	.0764534
Stddev	.034990	.0012393	.0010567
%RSD	1.508955	1.071673	1.382182
#1	2.357052	.1168033	.0776469
#2	2.288393	.1157816	.0756368
#3	2.311006	.1143368	.0760764

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1884.567	32154.64	4362.790	1026.081	2624.594
Stddev	2.905	69.99	36.792	2.597	4.065
%RSD	.1541625	.2176521	.8433197	.2530733	.1548842
#1	1883.837	32074.28	4334.801	1024.203	2628.137
#2	1887.768	32202.19	4404.464	1024.995	2625.489
#3	1882.097	32187.46	4349.106	1029.044	2620.156

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-21 Acquired: 06/30/2024 21:18:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C49 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0137221	-.011865	.0513898	-.040764	.0087413	58.25341	.1365962
Stddev	.0019387	.000864	.0008838	.006581	.0015407	.15247	.0007252
%RSD	14.12805	7.284722	1.719875	16.14410	17.62492	.2617349	.5309451
#1	.0134262	-.011045	.0518026	-.033790	.0071385	58.24189	.1359159
#2	.0157917	-.012768	.0519918	-.046865	.0088742	58.10703	.1373593
#3	.0119484	-.011783	.0503751	-.041635	.0102112	58.41131	.1365135

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019419	-.000824	1.981069	.1099722	.0553702	.0107608	165.8982
Stddev	.0000920	.000068	.017784	.0008942	.0000594	.0025311	.3638
%RSD	4.737169	8.247215	.8977146	.8130846	.1072038	23.52126	.2193013
#1	.0018667	-.000751	1.961797	.1109587	.0554314	.0078383	166.1422
#2	.0019145	-.000885	1.996846	.1097429	.0553662	.0122432	165.4800
#3	.0020445	-.000836	1.984564	.1092150	.0553129	.0122011	166.0723

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.848958	10.41403	.0482082	-.003983	.6716437	.2698829	.1619097
Stddev	.003861	.02883	.0010589	.000209	.1544464	.0016746	.0024700
%RSD	.1355276	.2768094	2.196524	5.239635	22.99529	.6204946	1.525537
#1	2.844968	10.40412	.0480161	-.004194	.8153123	.2685819	.1624588
#2	2.849230	10.39148	.0472585	-.003777	.6913147	.2692944	.1640589
#3	2.852676	10.44651	.0493500	-.003979	.5083042	.2717723	.1592113

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6409945	1.213428	.0660363	.0071783	.6423638	3.423809	-.000176
Stddev	.0383377	.002770	.0020826	.0002504	.0036617	.027902	.001754
%RSD	5.980977	.2282883	3.153695	3.488290	.5700297	.8149430	997.6856
#1	.5972198	1.210248	.0678990	.0072772	.6439514	3.406780	-.000596
#2	.6571711	1.215316	.0637878	.0073642	.6381763	3.408638	.001750
#3	.6685927	1.214721	.0664221	.0068936	.6449638	3.456010	-.001681

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-21 Acquired: 06/30/2024 21:18:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C49 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.672167	.0579526	.0205455
Stddev	.011899	.0009352	.0001262
%RSD	.2097797	1.613694	.6140818
#1	5.677056	.0582170	.0205391
#2	5.658602	.0587272	.0204226
#3	5.680843	.0569137	.0206747

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1842.725	31530.28	4224.741	1016.593	2674.437
Stddev	4.970	143.60	22.088	4.360	8.504
%RSD	.2696825	.4554218	.5228346	.4288357	.3179728
#1	1845.737	31399.18	4238.705	1015.388	2677.691
#2	1845.448	31507.92	4236.242	1012.962	2680.834
#3	1836.989	31683.75	4199.275	1021.428	2664.787

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-22 Acquired: 06/30/2024 21:22:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C50 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0170349	-.009392	.2374430	-.032073	.0069435	61.90794	.2302781
Stddev	.0093914	.000463	.0023978	.002749	.0021715	.68065	.0010402
%RSD	55.13041	4.934909	1.009833	8.570685	31.27312	1.099456	.4517199
#1	.0066107	-.009926	.2381631	-.031893	.0044632	62.06986	.2294456
#2	.0196584	-.009149	.2347677	-.034907	.0078657	61.16093	.2299445
#3	.0248356	-.009099	.2393982	-.029418	.0085018	62.49302	.2314442

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023459	.0008614	4.909834	.1261770	.0539043	.0946486	133.2620
Stddev	.0001704	.0001729	.012642	.0009106	.0006239	.0031900	1.0649
%RSD	7.264750	20.06676	.2574843	.7216921	1.157393	3.370404	.7991367
#1	.0021705	.0006673	4.895543	.1254354	.0532929	.0963443	133.2206
#2	.0023565	.0009988	4.914402	.1271933	.0538802	.0909688	132.2184
#3	.0025108	.0009181	4.919557	.1259024	.0545400	.0966326	134.3471

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.628705	10.08663	.0714832	-.002813	.7469359	.2916644	.2474580
Stddev	.033178	.05451	.0003809	.000179	.0521637	.0055944	.0091873
%RSD	.7167931	.5404514	.5328163	6.351492	6.983691	1.918092	3.712683
#1	4.645331	10.05927	.0715705	-.002897	.7993016	.2916229	.2492137
#2	4.590501	10.05122	.0710663	-.002934	.6949766	.2860909	.2375195
#3	4.650284	10.14941	.0718129	-.002608	.7465295	.2972795	.2556407

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.225501	2.494466	.0579697	.0087126	1.959525	3.457732	.0070800
Stddev	.140916	.006344	.0017983	.0002177	.005613	.007028	.0010918
%RSD	11.49864	.2543155	3.102178	2.498205	.2864659	.2032452	15.42022
#1	1.277273	2.487653	.0561475	.0086946	1.953517	3.449664	.0068216
#2	1.066022	2.495540	.0580184	.0085045	1.960424	3.462518	.0082777
#3	1.333207	2.500204	.0597431	.0089387	1.964635	3.461014	.0061406

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2845-22 Acquired: 06/30/2024 21:22:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MA4C50 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	5.294518	.0651643	.0456505
Stddev	.057001	.0029234	.0005960
%RSD	1.076595	4.486200	1.305518
#1	5.295825	.0623968	.0457266
#2	5.236876	.0648742	.0450202
#3	5.350855	.0682220	.0462048

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1848.220	31623.36	4254.791	1008.986	2677.192
Stddev	4.012	230.61	9.241	12.287	3.480
%RSD	.2170761	.7292352	.2171990	1.217753	.1299999
#1	1850.179	31460.41	4246.861	998.132	2677.787
#2	1850.877	31887.22	4264.940	1022.326	2680.336
#3	1843.605	31522.45	4252.572	1006.499	2673.452

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-22RE Acquired: 06/30/2024 21:27:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4E5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.094231	-.032425	.9960791	-.093830	.0357575	146.8431
Stddev	.004793	.004445	.0036937	.002893	.0013670	.1912
%RSD	.4380530	13.70939	.3708223	3.083497	3.822942	.1302078
#1	1.099729	-.027354	1.000231	-.093528	.0373117	146.7238
#2	1.090931	-.034271	.993159	-.096862	.0347419	147.0636
#3	1.092032	-.035649	.994848	-.091099	.0352189	146.7419

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9855715	.0048577	.0116083	54.62026	.1582887	.1910874
Stddev	.0005433	.0002030	.0002667	.01322	.0018665	.0003365
%RSD	.0551277	4.178982	2.297853	.0242037	1.179163	.1760778
#1	.9850676	.0047023	.0119112	54.61612	.1593834	.1910421
#2	.9861471	.0050874	.0114082	54.63505	.1561335	.1907758
#3	.9854997	.0047834	.0115056	54.60960	.1593491	.1914442

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8219080	429.8338	6.271986	64.87886	.2197890	-.008558
Stddev	.0060466	.1505	.007784	.14313	.0003728	.000599
%RSD	.7356753	.0350104	.1241074	.2206176	.1696081	7.001194
#1	.8158534	429.6800	6.272424	64.80693	.2193669	-.009215
#2	.8219239	429.9808	6.279542	65.04369	.2199271	-.008041
#3	.8279465	429.8406	6.263992	64.78595	.2200730	-.008418

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.558405	.7171209	2.693704	27.23307	F 14.63356	.1812324
Stddev	.118140	.0031357	.025827	.10077	.04090	.0011688
%RSD	7.580804	.4372608	.9588080	.3700377	.2794766	.6449171
#1	1.455737	.7142132	2.721337	27.12240	14.67730	.1825270
#2	1.687530	.7204433	2.670173	27.25729	14.62710	.1802547
#3	1.531948	.7167061	2.689602	27.31953	14.59627	.1809155

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-22RE Acquired: 06/30/2024 21:27:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4E5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000191	4.185875	5.543182	.0032238	4.450822	.1757512
Stddev	.000510	.006108	.014541	.0004285	.011312	.0019010
%RSD	267.4559	.1459204	.2623186	13.29218	.2541466	1.081637
#1	.000336	4.192576	5.532581	.0027297	4.444449	.1754964
#2	-.000227	4.180620	5.537207	.0034945	4.463882	.1739904
#3	-.000682	4.184429	5.559759	.0034470	4.444134	.1777667

Elem	Sr4077
Units	ppm
Avg	.2213721
Stddev	.0003690
%RSD	.1666815
#1	.2210592
#2	.2217790
#3	.2212782

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1897.971	32441.14	4476.068	1037.757	2424.232
Stddev	.551	30.71	19.624	5.861	2.801
%RSD	.0290186	.0946521	.4384180	.5647498	.1155349
#1	1898.130	32468.78	4490.550	1032.918	2421.700
#2	1898.425	32446.56	4483.920	1044.273	2423.756
#3	1897.358	32408.08	4453.734	1036.078	2427.240

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-01 Acquired: 06/30/2024 21:31:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW34 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0879278	-.009645	2.945457	-.038742	.0090799	53.32681	.8738585
Stddev	.0043181	.001981	.013663	.005484	.0017109	.18765	.0026493
%RSD	4.910980	20.53790	.4638667	14.15564	18.84260	.3518926	.3031723
#1	.0928801	-.010710	2.941587	-.032532	.0085317	53.53780	.8763006
#2	.0859540	-.010866	2.934148	-.042921	.0077103	53.17857	.8710419
#3	.0849494	-.007360	2.960638	-.040774	.0109977	53.26406	.8742330

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065950	.0057451	24.16919	.0969411	.0727876	.2426972	180.3803
Stddev	.0000749	.0000872	.04437	.0020487	.0005107	.0032945	.6432
%RSD	1.135948	1.517582	.1835954	2.113397	.7015775	1.357474	.3565554
#1	.0065223	.0057205	24.21121	.0992200	.0722416	.2457275	181.0415
#2	.0065906	.0056728	24.17356	.0952517	.0728677	.2431736	179.7569
#3	.0066720	.0058419	24.12279	.0963516	.0732535	.2391903	180.3426

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.356873	12.01883	.1331816	-.003736	.4910126	.1927780	1.337056
Stddev	.018431	.09149	.0006001	.000636	.1270453	.0042268	.017042
%RSD	.3440667	.7612151	.4506098	17.03558	25.87413	2.192571	1.274625
#1	5.375045	12.12185	.1336529	-.003690	.4823470	.1891418	1.327437
#2	5.338193	11.94706	.1325060	-.004394	.3685220	.1917767	1.326998
#3	5.357382	11.98758	.1333860	-.003124	.6221689	.1974156	1.356733

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.427723	5.517200	.0857150	.0118197	2.836049	4.668893	.0277729
Stddev	.085341	.013855	.0003514	.0005179	.012836	.034719	.0012818
%RSD	2.489733	.2511235	.4099020	4.381473	.4526069	.7436320	4.615320
#1	3.372717	5.505190	.0854353	.0123598	2.826518	4.708838	.0269415
#2	3.384418	5.514051	.0856005	.0113274	2.850645	4.651877	.0292491
#3	3.526035	5.532358	.0861094	.0117719	2.830984	4.645965	.0271282

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-01 Acquired: 06/30/2024 21:31:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW34 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4947409	.1139526	.0708581
Stddev	.0015851	.0039045	.0006361
%RSD	.3203879	3.426433	.8977584
#1	.4954395	.1107917	.0715880
#2	.4929266	.1127490	.0705650
#3	.4958568	.1183173	.0704214

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1848.587	31644.61	4262.581	1016.148	2642.100
Stddev	2.816	137.54	26.852	3.537	5.547
%RSD	.1523408	.4346390	.6299458	.3481013	.2099348
#1	1851.704	31485.80	4232.374	1012.550	2646.997
#2	1846.227	31725.38	4283.742	1019.621	2643.226
#3	1847.831	31722.65	4271.626	1016.272	2636.076

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-02 Acquired: 06/30/2024 21:35:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW35 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0796933	-.009436	1.335322	-.037369	.0076569	49.27955	.6876075
Stddev	.0012714	.000942	.004365	.003684	.0019854	.35570	.0019010
%RSD	1.595423	9.987487	.3268598	9.859624	25.92900	.7218060	.2764617
#1	.0801496	-.010257	1.330481	-.035911	.0084859	49.06550	.6885330
#2	.0806735	-.008407	1.336530	-.034637	.0090934	49.69016	.6888686
#3	.0782566	-.009644	1.338955	-.041560	.0053914	49.08300	.6854211

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055982	.0012511	14.77765	.0859924	.0577139	.1159871	169.8314
Stddev	.0002363	.0001561	.02849	.0008476	.0006135	.0027963	.9925
%RSD	4.220602	12.48036	.1928236	.9856302	1.062977	2.410870	.5844286
#1	.0055196	.0011472	14.77557	.0863120	.0575699	.1134110	169.7667
#2	.0058637	.0011754	14.80712	.0850316	.0571852	.1155894	170.8547
#3	.0054112	.0014306	14.75024	.0866338	.0583866	.1189610	168.8728

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.435951	9.592256	.1111141	-.003948	.4845135	.1713526	.7095398
Stddev	.021673	.082545	.0001176	.000353	.0735897	.0027733	.0075310
%RSD	.4885708	.8605389	.1058528	8.943401	15.18837	1.618491	1.061394
#1	4.438105	9.629664	.1109868	-.004348	.4757781	.1687643	.7150073
#2	4.456466	9.649473	.1112187	-.003820	.5620811	.1742798	.7126624
#3	4.413282	9.497629	.1111370	-.003677	.4156814	.1710137	.7009498

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.273203	2.984086	.0730592	.0084230	.7749796	4.020705	.0118597
Stddev	.069030	.010261	.0016507	.0005151	.0051875	.018708	.0023449
%RSD	3.036666	.3438682	2.259396	6.115372	.6693741	.4652862	19.77206
#1	2.224139	2.983552	.0712683	.0078285	.7695437	4.023280	.0124646
#2	2.352138	2.994603	.0733899	.0087037	.7755184	4.037991	.0092716
#3	2.243332	2.974101	.0745196	.0087367	.7798766	4.000843	.0138428

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-02 Acquired: 06/30/2024 21:35:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW35 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3693887	.1047087	.0456264
Stddev	.0024038	.0037327	.0004422
%RSD	.6507520	3.564833	.9691035
#1	.3689730	.1055716	.0454956
#2	.3719732	.1006202	.0461192
#3	.3672199	.1079344	.0452644

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1867.969	31692.64	4256.858	1018.569	2671.119
Stddev	2.143	38.44	18.690	2.953	3.239
%RSD	.1147266	.1212802	.4390630	.2898881	.1212452
#1	1870.287	31736.83	4252.018	1015.769	2674.839
#2	1866.059	31674.13	4241.064	1021.653	2669.596
#3	1867.561	31666.96	4277.492	1018.285	2668.923

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-03 Acquired: 06/30/2024 21:40:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW36 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0771409	-.010865	.3245224	-.040759	.0072134	59.75895	.7005488
Stddev	.0021090	.002842	.0015216	.002090	.0008955	.14334	.0009352
%RSD	2.733929	26.16278	.4688804	5.126652	12.41368	.2398678	.1335014
#1	.0760916	-.007906	.3231475	-.042632	.0081323	59.74063	.6999506
#2	.0795687	-.013575	.3242625	-.041138	.0063434	59.62565	.7000691
#3	.0757624	-.011113	.3261572	-.038505	.0071645	59.91057	.7016265

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055748	-.000674	16.14177	.0901512	.0592068	.1008459	174.1017
Stddev	.0000199	.000065	.02965	.0007112	.0001690	.0012755	.7210
%RSD	.3574389	9.633735	.1836587	.7889057	.2853727	1.264832	.4141522
#1	.0055671	-.000600	16.17599	.0893982	.0591300	.0993968	173.9282
#2	.0055598	-.000703	16.12383	.0902438	.0590899	.1017989	173.4832
#3	.0055974	-.000720	16.12549	.0908116	.0594005	.1013419	174.8936

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.439692	10.68535	.1118247	-.004295	.7017341	.1771712	.3856817
Stddev	.007016	.09649	.0004626	.000281	.0725325	.0010070	.0111070
%RSD	.2875873	.9030096	.4137028	6.550087	10.33618	.5683598	2.879847
#1	2.434667	10.59347	.1112941	-.004576	.6385399	.1760459	.3760546
#2	2.436700	10.67672	.1120368	-.004295	.7809320	.1774804	.3831566
#3	2.447708	10.78587	.1121433	-.004013	.6857305	.1779873	.3978339

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.258514	2.456001	.0749502	.0072983	.5931338	4.245221	.0078501
Stddev	.025961	.008966	.0018885	.0003153	.0099105	.026766	.0014665
%RSD	1.149476	.3650670	2.519674	4.320296	1.670874	.6304934	18.68187
#1	2.288476	2.449713	.0752627	.0076103	.5834103	4.250725	.0071408
#2	2.244354	2.452021	.0729249	.0069798	.5927699	4.268807	.0068730
#3	2.242711	2.466268	.0766629	.0073048	.6032213	4.216131	.0095364

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-03 Acquired: 06/30/2024 21:40:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW36 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4413872	.1235535	.0632619
Stddev	.0014624	.0003978	.0004850
%RSD	.3313114	.3219856	.7666862
#1	.4426682	.1238009	.0637821
#2	.4397939	.1237650	.0628222
#3	.4416994	.1230946	.0631812

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1844.432	31303.42	4199.557	1011.301	2656.857
Stddev	4.315	122.60	12.856	7.158	8.912
%RSD	.2339570	.3916502	.3061256	.7078084	.3354518
#1	1849.028	31174.15	4187.076	1005.888	2662.358
#2	1843.802	31418.03	4198.837	1019.417	2661.640
#3	1840.467	31318.09	4212.757	1008.598	2646.575

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-04 Acquired: 06/30/2024 21:44:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW37 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0992196	-.004808	4.136223	-.046213	.0111816	55.06178
Stddev	.0013116	.000792	.004854	.002777	.0014334	.15574
%RSD	1.321911	16.46901	.1173585	6.009549	12.81914	.2828545
#1	.1007268	-.003962	4.130620	-.047529	.0107582	55.22029
#2	.0985940	-.005531	4.139143	-.043023	.0100076	55.05609
#3	.0983379	-.004929	4.138907	-.048088	.0127790	54.90896

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.835995	.0087194	.0118848	68.56623	.1478359	.0642839
Stddev	.005434	.0002498	.0001470	.18808	.0012020	.0002147
%RSD	.2959947	2.864611	1.236720	.2743039	.8130661	.3340194
#1	1.840916	.0088957	.0118923	68.63599	.1476919	.0641716
#2	1.836906	.0084336	.0117342	68.70947	.1467124	.0645315
#3	1.830162	.0088290	.0120279	68.35324	.1491034	.0641487

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8043620	203.2407	4.998338	8.515735	.1462595	.0017051
Stddev	.0001953	.7041	.014756	.041529	.0013224	.0002269
%RSD	.0242817	.3464542	.2952120	.4876692	.9041213	13.30516
#1	.8042236	203.7813	5.011839	8.531297	.1448217	.0015945
#2	.8045854	203.4963	5.000588	8.547235	.1474235	.0015547
#3	.8042770	202.4444	4.982586	8.468673	.1465335	.0019660

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7555675	.2714799	2.433827	4.958592	F 15.50854	.1840694
Stddev	.2927215	.0056197	.026308	.009161	.01216	.0017297
%RSD	38.74194	2.070039	1.080947	.1847427	.0783956	.9397215
#1	.4509894	.2697027	2.419667	4.956824	15.49579	.1860556
#2	1.034782	.2777733	2.464183	4.950444	15.50983	.1832583
#3	.780931	.2669636	2.417632	4.968508	15.52001	.1828943

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-04 Acquired: 06/30/2024 21:44:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW37 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0320823	6.946755	3.434265	.2003998	.7540746	.1038549
Stddev	.0003106	.023212	.023843	.0011176	.0047188	.0028603
%RSD	.9681154	.3341348	.6942747	.5576683	.6257684	2.754116
#1	.0324396	6.921596	3.461481	.1998569	.7589892	.1063440
#2	.0318768	6.951334	3.424256	.1996574	.7536547	.1007303
#3	.0319306	6.967336	3.417057	.2016851	.7495798	.1044902

Elem	Sr4077
Units	ppm
Avg	.1586946
Stddev	.0007285
%RSD	.4590816
#1	.1594374
#2	.1586653
#3	.1579812

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1821.556	31117.17	4196.195	999.3321	2607.322
Stddev	1.923	97.64	21.116	2.5932	6.659
%RSD	.1055899	.3137664	.5032182	.2594911	.2553850
#1	1823.755	31229.03	4173.192	1000.398	2614.783
#2	1820.729	31073.35	4214.699	1001.222	2601.983
#3	1820.184	31049.11	4200.694	996.376	2605.199

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-05 Acquired: 06/30/2024 21:49:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW38 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1215012	-.008499	2.405879	-.043854	.0088279	63.67376	1.286006
Stddev	.0037646	.000148	.007673	.000402	.0014421	.15371	.001297
%RSD	3.098361	1.741234	.3189264	.9165443	16.33555	.2414057	.1008571
#1	.1222160	-.008659	2.398373	-.043944	.0084896	63.69752	1.286582
#2	.1248571	-.008367	2.405555	-.044204	.0104090	63.50955	1.284521
#3	.1174305	-.008472	2.413708	-.043415	.0075850	63.81420	1.286915

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0081083	.0058693	26.12836	.1187383	.0805994	.2534047	220.0253
Stddev	.0001651	.0001232	.02589	.0007741	.0003141	.0037122	.1741
%RSD	2.036141	2.099950	.0991008	.6519160	.3896716	1.464942	.0791129
#1	.0079227	.0059195	26.15557	.1190032	.0803491	.2557151	219.9045
#2	.0082387	.0059594	26.12548	.1178666	.0804971	.2491226	220.2248
#3	.0081636	.0057288	26.10403	.1193452	.0809518	.2553762	219.9466

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.089364	10.32263	.1457847	-.002136	.5988913	.2538502	1.326259
Stddev	.005858	.04978	.0013006	.000164	.0694156	.0019652	.004187
%RSD	.0962034	.4822872	.8921424	7.671871	11.59068	.7741502	.3157097
#1	6.092586	10.27114	.1454015	-.002105	.6790441	.2518429	1.327623
#2	6.092904	10.37051	.1472339	-.002313	.5583922	.2557703	1.329594
#3	6.082602	10.32622	.1447187	-.001990	.5592377	.2539375	1.321560

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.360445	7.475297	.1199474	.0209372	3.733887	2.991146	.0733998
Stddev	.016836	.008047	.0016272	.0006971	.007614	.010824	.0002827
%RSD	.3860982	.1076486	1.356573	3.329402	.2039168	.3618583	.3851771
#1	4.342298	7.466692	.1190672	.0211401	3.740514	2.996759	.0737232
#2	4.375557	7.482636	.1218251	.0215104	3.725570	2.978669	.0731997
#3	4.363480	7.476563	.1189500	.0201612	3.735576	2.998010	.0732764

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-05 Acquired: 06/30/2024 21:49:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW38 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5936576	.1380063	.0804734
Stddev	.0015257	.0018826	.0004225
%RSD	.2569939	1.364119	.5250593
#1	.5952072	.1398697	.0803742
#2	.5921570	.1380441	.0801093
#3	.5936086	.1361051	.0809367

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1844.800	31488.97	4220.594	1010.651	2619.368
Stddev	4.263	109.46	4.598	5.598	3.632
%RSD	.2310719	.3476191	.1089438	.5539228	.1386574
#1	1849.090	31555.21	4225.694	1012.924	2622.575
#2	1844.745	31362.63	4219.320	1004.274	2620.105
#3	1840.565	31549.08	4216.766	1014.756	2615.424

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-06 Acquired: 06/30/2024 21:53:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW39 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0709384	-.010342	.3842895	-.033615	.0061921	50.88410	.7278826
Stddev	.0051892	.003065	.0026098	.008771	.0026002	.19487	.0017517
%RSD	7.315142	29.63350	.6791288	26.09307	41.99213	.3829647	.2406544
#1	.0705334	-.010761	.3825845	-.031164	.0080266	50.74383	.7275930
#2	.0763182	-.013176	.3872940	-.026330	.0032165	50.80185	.7297610
#3	.0659635	-.007089	.3829901	-.043350	.0073332	51.10660	.7262937

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048145	-.000067	14.75006	.0814749	.0629983	.1104855	160.8209
Stddev	.0000472	.000039	.01930	.0002044	.0005185	.0043599	.4965
%RSD	.9811798	58.50690	.1308446	.2508217	.8230442	3.946169	.3087390
#1	.0047638	-.000111	14.72831	.0814388	.0631815	.1094815	160.5926
#2	.0048225	-.000036	14.75671	.0812910	.0634004	.1152599	160.4796
#3	.0048572	-.000054	14.76515	.0816949	.0624131	.1067152	161.3905

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.432901	9.146362	.1077093	-.002971	.2239889	.1651935	.4012145
Stddev	.013200	.039752	.0012336	.000081	.0603916	.0033609	.0086187
%RSD	.2977712	.4346157	1.145302	2.724952	26.96186	2.034541	2.148144
#1	4.423530	9.147390	.1082027	-.002878	.1610776	.1614211	.4062416
#2	4.427176	9.106106	.1086198	-.003010	.2293916	.1662909	.3912627
#3	4.447997	9.185589	.1063054	-.003025	.2814977	.1678686	.4061391

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.955238	3.134406	.0741930	.0096291	.7603389	2.465511	.0045242
Stddev	.064238	.009728	.0018698	.0002857	.0138909	.021696	.0009181
%RSD	2.173716	.3103471	2.520214	2.966666	1.826941	.8799622	20.29204
#1	2.904343	3.144408	.0754015	.0098977	.7514009	2.446754	.0055646
#2	2.933955	3.124978	.0720393	.0096607	.7763423	2.460509	.0041804
#3	3.027417	3.133833	.0751382	.0093290	.7532736	2.489271	.0038278

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-06 Acquired: 06/30/2024 21:53:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW39 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4918012	.1076597	.0459821
Stddev	.0011581	.0014405	.0002221
%RSD	.2354827	1.337995	.4829803
#1	.4916964	.1081838	.0458078
#2	.4906991	.1087647	.0459063
#3	.4930082	.1060305	.0462321

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1841.607	31380.81	4187.691	1007.049	2648.144
Stddev	3.987	108.04	17.355	3.695	10.739
%RSD	.2165222	.3442828	.4144197	.3669466	.4055314
#1	1837.381	31265.69	4204.159	1003.187	2637.784
#2	1842.139	31396.75	4189.346	1007.407	2647.421
#3	1845.302	31479.99	4169.569	1010.552	2659.226

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-07 Acquired: 06/30/2024 21:58:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW40 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0889787	-.010655	3.349968	-.038584	.0061852	58.76906	.9541008
Stddev	.0113153	.001356	.015638	.004879	.0011344	.29688	.0034054
%RSD	12.71686	12.72327	.4668191	12.64616	18.34080	.5051678	.3569193
#1	.0836916	-.012220	3.342258	-.044067	.0048761	58.58237	.9512397
#2	.0812748	-.009904	3.339682	-.034720	.0068784	59.11140	.9578674
#3	.1019698	-.009841	3.367965	-.036965	.0068012	58.61340	.9531952

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060657	.0038409	16.66931	.1031678	.0729871	.2473307	189.3532
Stddev	.0001110	.0001592	.09004	.0016771	.0002528	.0026073	.6805
%RSD	1.830478	4.146186	.5401690	1.625592	.3463733	1.054185	.3594030
#1	.0061566	.0038630	16.60095	.1022725	.0727441	.2502938	189.0573
#2	.0060986	.0036718	16.77133	.1021283	.0729686	.2463109	190.1316
#3	.0059419	.0039879	16.63565	.1051025	.0732487	.2453875	188.8706

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.784036	10.02244	.1255418	-.002851	.5426864	.1745408	1.034013
Stddev	.007439	.05015	.0007935	.000324	.0927789	.0010392	.006622
%RSD	.1554882	.5003795	.6320852	11.35652	17.09623	.5953771	.6404483
#1	4.777490	10.03842	.1255415	-.002906	.6211898	.1733410	1.026972
#2	4.792126	9.96624	.1247484	-.003145	.5665682	.1751257	1.034950
#3	4.782493	10.06265	.1263354	-.002504	.4403012	.1751557	1.040117

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.711981	5.193383	.0831355	.0097548	1.537864	4.174584	.0147696
Stddev	.086355	.017892	.0015808	.0002350	.002052	.028108	.0020253
%RSD	3.184201	.3445085	1.901486	2.409197	.1334458	.6733102	13.71262
#1	2.708488	5.181380	.0819967	.0098845	1.540230	4.196723	.0132378
#2	2.800030	5.184823	.0849403	.0098964	1.536781	4.184068	.0140051
#3	2.627426	5.213947	.0824695	.0094835	1.536579	4.142961	.0170659

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-07 Acquired: 06/30/2024 21:58:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW40 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5754322	.1223116	.0592960
Stddev	.0031703	.0006178	.0005622
%RSD	.5509488	.5051070	.9481271
#1	.5731423	.1220252	.0591373
#2	.5790506	.1230206	.0599205
#3	.5741036	.1218889	.0588303

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1853.041	31452.92	4235.772	1012.630	2648.090
Stddev	2.904	72.64	28.881	4.250	7.380
%RSD	.1567041	.2309351	.6818406	.4197313	.2787013
#1	1849.783	31531.04	4222.691	1015.793	2644.592
#2	1855.356	31387.42	4215.746	1007.798	2656.569
#3	1853.983	31440.29	4268.880	1014.297	2643.109

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-08 Acquired: 06/30/2024 22:02:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW41 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0852348	-.010914	1.557735	-.037453	.0053348	55.60190	.8624679
Stddev	.0018483	.003663	.008060	.000895	.0019400	.15462	.0027763
%RSD	2.168439	33.56445	.5174027	2.390629	36.36507	.2780839	.3219070
#1	.0831048	-.008497	1.561120	-.038260	.0067961	55.75139	.8643692
#2	.0864155	-.009116	1.548534	-.036490	.0031337	55.44261	.8637525
#3	.0861842	-.015128	1.563550	-.037610	.0060745	55.61171	.8592818

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0062723	.0037759	13.54928	.1008745	.0801618	.1273650	186.7075
Stddev	.0000861	.0002347	.03271	.0005151	.0003537	.0065852	.2752
%RSD	1.372347	6.216005	.2414191	.5106429	.4411956	5.170322	.1474104
#1	.0062225	.0037584	13.58685	.1004529	.0799728	.1347460	186.9757
#2	.0063717	.0035505	13.53387	.1007221	.0799427	.1252572	186.4258
#3	.0062228	.0040189	13.52712	.1014487	.0805698	.1220918	186.7209

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.874860	9.997834	.1217211	-.002795	.6630763	.1811274	.6943224
Stddev	.006559	.036206	.0007273	.000412	.0826011	.0022566	.0126079
%RSD	.1345407	.3621372	.5975068	14.74083	12.45726	1.245885	1.815862
#1	4.882284	9.975113	.1214517	-.002506	.5756726	.1789645	.7004347
#2	4.869851	9.978802	.1211670	-.002613	.6737116	.1834673	.7027091
#3	4.872446	10.03959	.1225447	-.003267	.7398446	.1809502	.6798233

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.301652	4.259162	.0812544	.0110012	1.312119	2.759114	.0090150
Stddev	.099877	.019154	.0022340	.0003390	.014212	.007720	.0002666
%RSD	4.339347	.4497054	2.749364	3.081036	1.083169	.2798124	2.956954
#1	2.212541	4.274197	.0837139	.0113896	1.298677	2.750208	.0087116
#2	2.282805	4.237597	.0806985	.0108493	1.310686	2.763243	.0092119
#3	2.409609	4.265690	.0793509	.0107648	1.326993	2.763892	.0091214

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-08 Acquired: 06/30/2024 22:02:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW41 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6057594	.1137223	.0540962
Stddev	.0049640	.0017750	.0002012
%RSD	.8194594	1.560772	.3718917
#1	.6101476	.1127896	.0539690
#2	.6003718	.1157691	.0539915
#3	.6067589	.1126081	.0543281

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1875.155	31811.16	4282.282	1018.878	2640.242
Stddev	3.895	20.36	6.384	6.333	4.958
%RSD	.2076998	.0639916	.1490755	.6215503	.1877776
#1	1878.308	31791.43	4287.829	1012.151	2643.293
#2	1876.356	31809.94	4283.713	1019.757	2642.912
#3	1870.801	31832.09	4275.304	1024.725	2634.522

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-09 Acquired: 06/30/2024 22:06:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW42 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0598787	-.008406	.2901651	-.032062	.0067484	60.99209	.7526231
Stddev	.0015696	.002966	.0013209	.002428	.0022045	.33533	.0023965
%RSD	2.621332	35.27676	.4552342	7.573256	32.66763	.5497863	.3184208
#1	.0611995	-.009775	.2916721	-.032241	.0084703	61.32267	.7507247
#2	.0602931	-.010441	.2896155	-.034395	.0075111	60.65221	.7518286
#3	.0581435	-.005004	.2892077	-.029549	.0042638	61.00140	.7553160

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046990	-.000004	13.67082	.0841952	.0741464	.0907654	148.6002
Stddev	.0000303	.000078	.04734	.0010100	.0007218	.0009552	.5390
%RSD	.6456365	1754.630	.3463068	1.199575	.9735228	1.052355	.3627163
#1	.0047290	-.000078	13.71828	.0847694	.0749351	.0901743	149.1806
#2	.0046683	-.000014	13.62359	.0830290	.0739856	.0918674	148.1155
#3	.0046997	.000078	13.67058	.0847871	.0735185	.0902546	148.5045

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.096570	11.47499	.1141779	-.003511	.6022746	.1511915	.3953662
Stddev	.011573	.04526	.0002695	.000075	.3793483	.0015607	.0089006
%RSD	.2825090	.3944304	.2360278	2.126866	62.98593	1.032245	2.251218
#1	4.109413	11.52014	.1138942	-.003513	1.040117	.1528128	.3852525
#2	4.086949	11.42962	.1142090	-.003435	.372154	.1510621	.4020054
#3	4.093349	11.47523	.1144305	-.003584	.394553	.1496996	.3988408

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.369193	2.790527	.0624788	.0064420	.5299766	2.761645	.0027783
Stddev	.070571	.003713	.0022346	.0004155	.0034626	.015296	.0002325
%RSD	2.978684	.1330659	3.576593	6.449854	.6533446	.5538768	8.369906
#1	2.350993	2.788176	.0599386	.0059628	.5323545	2.778971	.0029784
#2	2.447081	2.788597	.0641412	.0067036	.5260040	2.750010	.0025232
#3	2.309505	2.794807	.0633566	.0066594	.5315712	2.755953	.0028332

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-09 Acquired: 06/30/2024 22:06:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW42 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5438630	.1260892	.0563709
Stddev	.0029638	.0014105	.0004196
%RSD	.5449528	1.118643	.7443135
#1	.5469385	.1245480	.0568008
#2	.5410253	.1264036	.0563494
#3	.5436253	.1273159	.0559625

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1842.530	31217.14	4186.892	1004.904	2657.995
Stddev	2.205	111.18	19.004	5.801	3.665
%RSD	.1196831	.3561586	.4539023	.5772447	.1378944
#1	1844.127	31138.60	4166.735	1007.760	2661.755
#2	1843.449	31168.45	4189.457	998.229	2657.796
#3	1840.014	31344.36	4204.483	1008.723	2654.433

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-10 Acquired: 06/30/2024 22:11:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW43 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0970417	-.007319	7.004156	-.038774	.0081103	45.89837
Stddev	.0076853	.002030	.025934	.002951	.0004334	.30649
%RSD	7.919583	27.73247	.3702686	7.611397	5.344405	.6677618
#1	.1008472	-.008865	6.985188	-.035485	.0077594	46.20620
#2	.0881962	-.008071	6.993570	-.041192	.0085948	45.59323
#3	.1020819	-.005020	7.033708	-.039644	.0079767	45.89569

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.110423	.0081052	.0159198	190.4583	.1413416	.0623654
Stddev	.004103	.0000263	.0001271	.7118	.0012425	.0003307
%RSD	.1944203	.3244351	.7985041	.3737510	.8790688	.5303457
#1	2.113776	.0080891	.0159186	191.0455	.1407777	.0619878
#2	2.105847	.0080910	.0157934	189.6666	.1427660	.0626039
#3	2.111645	.0081356	.0160476	190.6628	.1404809	.0625044

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4328873	167.8468	3.752581	19.77480	.1674001	-.002092
Stddev	.0047019	.6384	.012844	.14320	.0003369	.000611
%RSD	1.086181	.3803202	.3422635	.7241410	.2012812	29.18547
#1	.4360295	168.5668	3.765229	19.91837	.1673005	-.001418
#2	.4274817	167.3501	3.739550	19.63198	.1671243	-.002607
#3	.4351506	167.6235	3.752963	19.77404	.1677757	-.002251

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6214821	.2165021	2.528591	5.217132	F 14.97904	.1391205
Stddev	.1887880	.0033048	.003820	.029112	.04443	.0026367
%RSD	30.37706	1.526437	.1510892	.5580017	.2966125	1.895269
#1	.5905639	.2144495	2.524681	5.209828	14.95252	.1383165
#2	.4500616	.2203143	2.532315	5.192367	14.95428	.1420656
#3	.8238207	.2147424	2.528776	5.249200	15.03034	.1369794

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-10 Acquired: 06/30/2024 22:11:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW43 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0262599	5.861952	3.640284	.0865582	.6637138	.0937392
Stddev	.0004083	.013604	.030006	.0011899	.0033136	.0021867
%RSD	1.555045	.2320662	.8242794	1.374668	.4992507	2.332740
#1	.0264156	5.848372	3.673779	.0878235	.6622671	.0957897
#2	.0257966	5.861903	3.615860	.0854618	.6675047	.0914380
#3	.0265674	5.875579	3.631215	.0863891	.6613695	.0939898

Elem	Sr4077
Units	ppm
Avg	.3770452
Stddev	.0038340
%RSD	1.016852
#1	.3812334
#2	.3737085
#3	.3761937

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1775.182	30289.22	4164.929	972.5772	2482.146
Stddev	1.588	81.35	44.703	3.4768	2.522
%RSD	.0894435	.2685734	1.073317	.3574855	.1015903
#1	1776.967	30202.04	4113.723	972.8586	2481.535
#2	1774.654	30302.51	4196.172	968.9683	2484.917
#3	1773.926	30363.10	4184.892	975.9048	2479.986

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-11 Acquired: 06/30/2024 22:15:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW44 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0983292	-.007056	5.958603	-.038223	.0060517	47.81638
Stddev	.0033207	.002459	.012363	.002036	.0031327	.14789
%RSD	3.377161	34.85222	.2074898	5.325671	51.76541	.3092858
#1	.0976219	-.009865	5.967558	-.038225	.0029063	47.78410
#2	.0954191	-.006011	5.944497	-.036187	.0091715	47.68731
#3	.1019466	-.005291	5.963755	-.040258	.0060771	47.97775

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.568060	.0073625	.0104856	135.9820	.1270295	.0554774
Stddev	.003288	.0001452	.0000411	.2075	.0007099	.0001107
%RSD	.2096826	1.971954	.3918228	.1525931	.5588288	.1994867
#1	1.564292	.0073229	.0105315	135.7855	.1272404	.0555309
#2	1.569542	.0075234	.0104728	135.9617	.1262381	.0553502
#3	1.570347	.0072413	.0104524	136.1990	.1276101	.0555512

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3606372	167.2676	2.983421	16.27647	.1485890	-.001954
Stddev	.0016049	.3654	.010281	.04565	.0013925	.000362
%RSD	.4450152	.2184297	.3446068	.2804894	.9371353	18.53287
#1	.3594432	166.9340	2.975189	16.23472	.1470765	-.001835
#2	.3624616	167.2107	2.980127	16.26946	.1488728	-.002360
#3	.3600069	167.6581	2.994945	16.32522	.1498177	-.001666

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7787733	.2229533	2.013307	5.246298	F 12.45930	.1204768
Stddev	.2130298	.0030689	.009910	.070772	.03856	.0012349
%RSD	27.35453	1.376466	.4922204	1.348989	.3094653	1.025000
#1	.6621475	.2221359	2.022777	5.201905	12.42047	.1218736
#2	.6495216	.2203760	2.014135	5.209075	12.45987	.1195301
#3	1.024651	.2263482	2.003009	5.327913	12.49758	.1200269

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-11 Acquired: 06/30/2024 22:15:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW44 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0222313	4.156682	2.781579	.0945959	.7324609	.0990725
Stddev	.0004895	.007028	.008037	.0009788	.0030163	.0012005
%RSD	2.201711	.1690680	.2889520	1.034683	.4118034	1.211731
#1	.0225952	4.158774	2.783802	.0951973	.7302865	.0982462
#2	.0216748	4.148845	2.772664	.0951239	.7311919	.1004496
#3	.0224238	4.162425	2.788271	.0934665	.7359044	.0985217

Elem	Sr4077
Units	ppm
Avg	.3324962
Stddev	.0015008
%RSD	.4513619
#1	.3319365
#2	.3313556
#3	.3341963

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1775.467	30224.18	4133.054	970.4916	2524.584
Stddev	2.326	111.46	8.397	4.9646	3.126
%RSD	.1309924	.3687844	.2031682	.5115509	.1238268
#1	1772.882	30109.48	4132.680	967.0160	2520.977
#2	1776.128	30230.98	4141.632	968.2813	2526.262
#3	1777.390	30332.09	4124.850	976.1774	2526.512

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-12 Acquired: 06/30/2024 22:20:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW45 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1171487	-.015530	6.305779	-.063485	.0118096	46.62154
Stddev	.0053527	.000422	.025694	.003380	.0033084	.24671
%RSD	4.569135	2.720094	.4074657	5.324140	28.01448	.5291689
#1	.1168082	-.015082	6.282360	-.063903	.0138188	46.83861
#2	.1119744	-.015588	6.301714	-.059915	.0079911	46.35324
#3	.1226635	-.015921	6.333263	-.066636	.0136187	46.67276

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.540134	.0074183	.0108952	94.69850	.1205735	.0574216
Stddev	.008467	.0000813	.0001359	.37840	.0017037	.0004563
%RSD	.5497630	1.095952	1.247255	.3995877	1.413007	.7946675
#1	1.541363	.0074884	.0109191	94.88058	.1187423	.0570580
#2	1.531120	.0074373	.0110176	94.26347	.1208663	.0572731
#3	1.547920	.0073292	.0107489	94.95143	.1221118	.0579336

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3465854	279.6016	3.463946	14.54607	.1562364	-.004846
Stddev	.0003718	.7868	.010347	.03485	.0013668	.000265
%RSD	.1072773	.2814023	.2987114	.2395968	.8748027	5.461230
#1	.3463340	280.2493	3.469976	14.51473	.1556293	-.005089
#2	.3464097	278.7260	3.451999	14.53986	.1552783	-.004885
#3	.3470125	279.8294	3.469865	14.58360	.1578015	-.004564

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8877092	.2279045	1.976744	4.702833	F 14.09845	.1636325
Stddev	.2670417	.0052760	.027686	.055969	.06849	.0026943
%RSD	30.08211	2.315023	1.400594	1.190116	.4857775	1.646583
#1	1.195669	.2268533	1.948994	4.723372	14.07478	.1656752
#2	.720251	.2232331	2.004366	4.745632	14.04495	.1605789
#3	.747207	.2336270	1.976872	4.639496	14.17564	.1646433

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-12 Acquired: 06/30/2024 22:20:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW45 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0201427	4.189803	3.657448	.0874153	.6218596	.0888615
Stddev	.0007480	.016215	.021475	.0012363	.0034182	.0024775
%RSD	3.713328	.3870193	.5871568	1.414279	.5496774	2.788088
#1	.0206848	4.175593	3.679825	.0859927	.6243798	.0915895
#2	.0192893	4.186350	3.637007	.0882298	.6179688	.0882440
#3	.0204538	4.207467	3.655512	.0880232	.6232302	.0867512

Elem	Sr4077
Units	ppm
Avg	.2347226
Stddev	.0015171
%RSD	.6463306
#1	.2363582
#2	.2344481
#3	.2333616

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1793.781	30491.58	4162.306	979.4547	2559.909
Stddev	3.367	265.99	16.029	11.8908	7.112
%RSD	.1877127	.8723386	.3850910	1.214025	.2778181
#1	1797.000	30633.73	4143.896	985.2046	2567.176
#2	1794.060	30184.71	4173.166	965.7818	2559.587
#3	1790.283	30656.28	4169.855	987.3778	2552.963

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-13 Acquired: 06/30/2024 22:24:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW46 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0696889	-.008141	1.563065	-.024216	.0037617	40.71234	1.079247
Stddev	.0017262	.002800	.003156	.004752	.0018047	.32678	.002507
%RSD	2.476934	34.39371	.2018997	19.62318	47.97621	.8026610	.2323032
#1	.0698478	-.009883	1.560219	-.027452	.0033994	40.67262	1.077360
#2	.0678888	-.009629	1.562517	-.026435	.0057202	40.40724	1.078289
#3	.0713301	-.004911	1.566459	-.018760	.0021657	41.05717	1.082092

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064233	.0025721	20.13406	.0688588	.0388203	.1704337	128.9704
Stddev	.0001193	.0000338	.06121	.0010696	.0002547	.0051131	.6429
%RSD	1.857372	1.314830	.3040320	1.553386	.6561496	3.000048	.4984977
#1	.0065392	.0025475	20.15775	.0683289	.0385575	.1651710	129.1809
#2	.0063008	.0025581	20.06454	.0681575	.0388373	.1707473	128.2486
#3	.0064298	.0026106	20.17989	.0700899	.0390661	.1753827	129.4817

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.990892	6.081890	.0917837	-.002265	.4854417	.1554973	1.087111
Stddev	.005507	.007853	.0005480	.000366	.2682192	.0005560	.002411
%RSD	.2765927	.1291132	.5970127	16.14795	55.25260	.3575680	.2217698
#1	1.993359	6.074029	.0924072	-.001854	.6021536	.1557505	1.085504
#2	1.984583	6.081909	.0915655	-.002556	.1786400	.1558817	1.089883
#3	1.994733	6.089733	.0913786	-.002386	.6755314	.1548598	1.085946

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.406515	4.752450	.0871194	.0100231	1.035587	4.033705	.0251466
Stddev	.038546	.003416	.0007896	.0002077	.009498	.029319	.0010313
%RSD	1.131545	.0718748	.9063497	2.071949	.9171531	.7268581	4.101207
#1	3.388984	4.750301	.0873208	.0102420	1.040754	4.061282	.0239648
#2	3.379849	4.750660	.0862485	.0099984	1.024626	4.002909	.0256103
#3	3.450710	4.756389	.0877887	.0098289	1.041382	4.036924	.0258647

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-13 Acquired: 06/30/2024 22:24:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW46 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3821320	.0840494	.0816052
Stddev	.0042042	.0004648	.0007690
%RSD	1.100197	.5529618	.9423861
#1	.3828639	.0841180	.0812153
#2	.3776099	.0835542	.0811092
#3	.3859222	.0844761	.0824911

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1866.850	31636.20	4226.242	1018.567	2674.816
Stddev	4.257	50.00	17.377	1.916	4.101
%RSD	.2280055	.1580483	.4111596	.1880884	.1533377
#1	1863.787	31667.34	4206.178	1020.758	2672.724
#2	1871.711	31578.53	4236.256	1017.736	2679.541
#3	1865.053	31662.74	4236.294	1017.208	2672.182

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-14 Acquired: 06/30/2024 22:28:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW47 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1396734	-.011366	1.560010	-.040059	.0102434	59.34804	.6546512
Stddev	.0068427	.001582	.001890	.001371	.0014668	.31404	.0030826
%RSD	4.899098	13.91527	.1211446	3.421278	14.31908	.5291552	.4708739
#1	.1319263	-.010628	1.560992	-.038801	.0094873	59.28180	.6532586
#2	.1422018	-.010289	1.557831	-.041519	.0093090	59.07240	.6525106
#3	.1448922	-.013182	1.561206	-.039857	.0119340	59.68992	.6581843

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063629	.0029294	11.34151	.1574519	.0704325	.1430050	192.3445
Stddev	.0001153	.0001402	.04874	.0013673	.0004733	.0018513	1.0246
%RSD	1.811672	4.786052	.4297239	.8683794	.6720568	1.294545	.5326821
#1	.0063904	.0030311	11.32376	.1589826	.0703138	.1408693	191.7874
#2	.0062364	.0027694	11.30414	.1570216	.0700299	.1441510	191.7192
#3	.0064620	.0029876	11.39664	.1563516	.0709540	.1439948	193.5270

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.422719	11.55150	.1288855	-.003827	.3600494	.1894708	.6022739
Stddev	.025166	.00845	.0004651	.000109	.1788967	.0002583	.0166373
%RSD	.5690255	.0731593	.3608798	2.844406	49.68670	.1363195	2.762411
#1	4.417241	11.54814	.1283984	-.003879	.4964378	.1891788	.5875660
#2	4.400742	11.54525	.1289333	-.003900	.4262155	.1895642	.6203310
#3	4.450172	11.56112	.1293249	-.003701	.1574950	.1896694	.5989247

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.973325	5.405875	.0848431	.0091135	1.362989	4.348107	.0187204
Stddev	.062168	.030076	.0012362	.0002173	.008074	.010998	.0007090
%RSD	2.090849	.5563493	1.457100	2.384342	.5923453	.2529382	3.787077
#1	2.920897	5.391714	.0838036	.0088901	1.371345	4.355817	.0194656
#2	2.957074	5.385494	.0845157	.0091262	1.362392	4.335513	.0186411
#3	3.042005	5.440417	.0862101	.0093242	1.355231	4.352991	.0180544

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-14 Acquired: 06/30/2024 22:28:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW47 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6129376	.1321390	.0502264
Stddev	.0020790	.0028224	.0002953
%RSD	.3391851	2.135941	.5879058
#1	.6134617	.1317385	.0499595
#2	.6147044	.1295382	.0501761
#3	.6106467	.1351402	.0505437

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1888.836	31972.10	4276.722	1028.922	2648.040
Stddev	.958	113.45	21.457	10.286	4.815
%RSD	.0507215	.3548418	.5017085	.9997091	.1818211
#1	1889.472	32102.65	4286.280	1040.768	2646.340
#2	1889.302	31916.31	4291.740	1023.748	2653.474
#3	1887.735	31897.35	4252.148	1022.251	2644.305

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-15 Acquired: 06/30/2024 22:33:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW48 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1080470	-.014517	.6044426	-.044915	.0082656	59.91373	.6096913
Stddev	.0018865	.001495	.0010439	.008140	.0022411	.17419	.0015652
%RSD	1.746012	10.29885	.1727102	18.12389	27.11352	.2907335	.2567157
#1	.1102246	-.016138	.6032503	-.035553	.0101642	60.06501	.6107445
#2	.1069080	-.013193	.6048854	-.048870	.0057935	59.72329	.6078928
#3	.1070085	-.014220	.6051922	-.050322	.0088393	59.95288	.6104367

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064432	.0002422	10.77242	.1098056	.0689480	.1017718	211.4509
Stddev	.0001995	.0001659	.03392	.0003730	.0007770	.0050447	.5515
%RSD	3.095461	68.51635	.3148540	.3397029	1.126871	4.956845	.2608282
#1	.0063029	.0001076	10.80793	.1102290	.0687571	.1054743	212.0187
#2	.0063551	.0001913	10.74037	.1096623	.0698027	.0960260	210.9172
#3	.0066715	.0004276	10.76895	.1095255	.0682843	.1038151	211.4169

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.577182	10.86451	.1141618	-.005029	.4321583	.2064416	.3678953
Stddev	.003828	.11421	.0004038	.000345	.0989235	.0011594	.0023017
%RSD	.1070007	1.051187	.3537240	6.859475	22.89058	.5615863	.6256515
#1	3.581569	10.85784	.1144203	-.005191	.4571326	.2067704	.3704013
#2	3.575457	10.75379	.1143686	-.005263	.5162013	.2074010	.3658754
#3	3.574521	10.98191	.1136965	-.004633	.3231409	.2051534	.3674093

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.443543	4.429455	.0900701	.0093401	.6036209	4.352931	.0072708
Stddev	.076241	.011693	.0010736	.0003387	.0061589	.032037	.0018066
%RSD	3.120094	.2639937	1.192003	3.626253	1.020319	.7359875	24.84680
#1	2.371856	4.416436	.0910817	.0091238	.6098509	4.348359	.0060918
#2	2.523640	4.432861	.0901850	.0091662	.5975357	4.323426	.0063700
#3	2.435134	4.439067	.0889437	.0097305	.6034760	4.387008	.0093507

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-15 Acquired: 06/30/2024 22:33:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW48 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5289597	.1314853	.0452853
Stddev	.0061176	.0009274	.0000861
%RSD	1.156543	.7053378	.1901685
#1	.5351899	.1312044	.0453805
#2	.5229612	.1325207	.0452625
#3	.5287278	.1307308	.0452128

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1879.179	31865.06	4270.991	1025.064	2637.973
Stddev	2.412	159.93	19.412	3.176	3.138
%RSD	.1283290	.5018837	.4545064	.3097943	.1189722
#1	1878.118	31797.83	4270.842	1025.050	2640.033
#2	1881.939	31749.73	4290.477	1021.896	2634.361
#3	1877.480	32047.63	4251.654	1028.247	2639.526

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: CCV007 Acquired: 06/30/2024 22:37:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV007 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.909824	4.800118	24.28576	4.603215	4.753361	403.8222	9.779013
Stddev	.013584	.007567	.06685	.027087	.017720	1.6362	.030607
%RSD	.2766612	.1576473	.2752844	.5884464	.3727960	.4051716	.3129882
#1	4.916265	4.791430	24.28756	4.583273	4.736656	405.6491	9.811349
#2	4.894218	4.803657	24.21802	4.592318	4.751482	403.3257	9.775196
#3	4.918988	4.805268	24.35169	4.634054	4.771947	402.4918	9.750492

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4988031	2.460129	395.1332	15.33521	2.462906	14.29401	399.9175
Stddev	.0022930	.004510	1.1113	.14707	.004185	.05983	1.1847
%RSD	.4597029	.1833331	.2812521	.9590550	.1699157	.4185505	.2962346
#1	.4999631	2.460171	396.2540	15.27739	2.462192	14.36303	401.2849
#2	.4961618	2.455599	395.1138	15.22583	2.459125	14.25700	399.2013
#3	.5002843	2.464619	394.0316	15.50240	2.467402	14.26200	399.2662

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.40390	393.3825	2.479017	1.265175	393.0869	2.401381	13.60029
Stddev	.03541	1.1681	.006980	.009332	1.7891	.006339	.06553
%RSD	.2458210	.2969408	.2815816	.7375875	.4551347	.2639679	.4818404
#1	14.43783	394.6910	2.475163	1.259710	395.1175	2.408328	13.53963
#2	14.40670	393.0116	2.474812	1.259865	392.4006	2.395911	13.59146
#3	14.36718	392.4448	2.487074	1.275950	391.7425	2.399904	13.66979

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	146.6875	4.947852	4.987680	4.718816	4.925956	4.965007	4.928630
Stddev	.7819	.030341	.018875	.017634	.026838	.020319	.018412
%RSD	.5330689	.6132121	.3784417	.3737024	.5448219	.4092418	.3735737
#1	147.3360	4.939449	4.993285	4.701503	4.898874	4.970753	4.924160
#2	145.8192	4.922599	4.966637	4.718191	4.926451	4.942434	4.912864
#3	146.9072	4.981509	5.003119	4.736755	4.952543	4.981835	4.948865

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: CCV007 Acquired: 06/30/2024 22:37:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV007 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.766238	4.926855	4.766766
Stddev	.028373	.008892	.014933
%RSD	.5952889	.1804753	.3132647
#1	4.797281	4.936441	4.778893
#2	4.759786	4.925249	4.750087
#3	4.741646	4.918876	4.771318

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1403.153	24738.12	3602.960	751.4337	1993.222
Stddev	4.189	149.89	1.152	5.3656	3.728
%RSD	.2985565	.6058994	.0319637	.7140418	.1870135
#1	1407.533	24851.11	3602.511	757.4980	1994.430
#2	1402.739	24795.15	3602.100	749.5005	1996.195
#3	1399.186	24568.08	3604.268	747.3027	1989.040

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: CCB007 Acquired: 06/30/2024 22:42:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) 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	-.000065	.0006373	.0000149	.0019167	-.000685	.0152775	.0007302
Stddev	.002145	.0010949	.0016857	.0050469	.001109	.0004670	.0001601
%RSD	3317.459	171.8065	11280.52	263.3105	161.9335	3.056789	21.93017
#1	-.001470	.0003367	.0007970	.0056556	-.000770	.0148461	.0005955
#2	-.001128	-.000276	-.001920	-.003824	-.001749	.0152130	.0009073
#3	.002404	.001851	.001168	.003919	.000464	.0157734	.0006878

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000277	.0000290	.0035822	-.000136	-.000053	-.000228	.0193044
Stddev	.0000848	.0001336	.0021744	.000361	.000196	.000858	.0044265
%RSD	305.8396	460.5042	60.69929	266.0815	371.6092	376.2287	22.92991
#1	-.000067	-.000085	.0050802	.000259	-.000210	-.000975	.0212917
#2	.000097	-.000004	.0045781	-.000217	-.000115	.000709	.0223889
#3	.000053	.000176	.0010882	-.000450	.000166	-.000418	.0142325

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000209	.0189818	-.000140	.0003408	-.175645	-.000235	-.003784
Stddev	.000500	.0235521	.000180	.0002558	.198329	.000213	.006179
%RSD	239.0415	124.0773	128.7417	75.06256	112.9146	90.51202	163.3122
#1	-.000749	-.004786	-.000298	.0000483	-.022852	-.000465	-.010918
#2	.000237	.042312	.000056	.0005230	-.399774	-.000046	-.000144
#3	-.000115	.019419	-.000179	.0004510	-.104309	-.000194	-.000289

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1709818	.0043748	.0082102	.0001656	.0014197	.0008123	.0011960
Stddev	.0718674	.0035783	.0008758	.0008407	.0018850	.0007387	.0004691
%RSD	42.03218	81.79261	10.66766	507.7726	132.7714	90.94646	39.22025
#1	.2380938	.0034999	.0080605	-.000614	.0030003	.0004733	.0009298
#2	.0951540	.0013152	.0074189	.000055	.0019253	.0016596	.0017376
#3	.1796978	.0083095	.0091513	.001056	-.000666	.0003038	.0009207

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: CCB007 Acquired: 06/30/2024 22:42:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) 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	.0011578	.0040079	.0000231
Stddev	.0008512	.0014959	.0000730
%RSD	73.51830	37.32430	315.8068
#1	.0003948	.0039876	.0001069
#2	.0020759	.0025222	-.000027
#3	.0010027	.0055139	-.000010

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1737.753	29356.34	3828.328	949.3615	2780.337
Stddev	2.971	191.54	26.870	4.9862	6.158
%RSD	.1709693	.6524657	.7018658	.5252130	.2214979
#1	1734.322	29383.66	3849.750	951.1228	2777.740
#2	1739.456	29532.76	3837.055	953.2281	2787.368
#3	1739.480	29152.61	3798.180	943.7338	2775.902

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-16 Acquired: 06/30/2024 22:46:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW49 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1075497	-.013232	.3626692	-.046377	.0074421	50.76555	.6711482
Stddev	.0037092	.002411	.0022514	.007065	.0020431	.06455	.0003890
%RSD	3.448829	18.22232	.6207875	15.23356	27.45333	.1271517	.0579538
#1	.1052600	-.010781	.3645802	-.054072	.0050979	50.69205	.6713206
#2	.1055598	-.015601	.3601873	-.040184	.0083842	50.79160	.6714211
#3	.1118292	-.013315	.3632401	-.044876	.0088442	50.81301	.6707028

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071323	-.000588	8.175773	.0966965	.0448720	.0795540	201.2185
Stddev	.0001136	.000147	.023545	.0011728	.0005317	.0027592	.2842
%RSD	1.593289	25.02500	.2879821	1.212899	1.184894	3.468376	.1412611
#1	.0070285	-.000481	8.159126	.0965135	.0448866	.0814366	200.9568
#2	.0071147	-.000527	8.165481	.0979500	.0453962	.0808387	201.1780
#3	.0072538	-.000756	8.202711	.0956259	.0443331	.0763867	201.5209

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.401983	8.953718	.1032941	-.004676	.6059824	.1982149	.3127676
Stddev	.005445	.021202	.0002242	.000323	.1768573	.0021987	.0077472
%RSD	.1600501	.2367928	.2170782	6.913198	29.18522	1.109234	2.476995
#1	3.396793	8.965809	.1032540	-.004656	.5430746	.1971260	.3167987
#2	3.401503	8.966108	.1035357	-.005009	.8056934	.2007455	.3176681
#3	3.407652	8.929237	.1030926	-.004364	.4691792	.1967732	.3038359

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.958237	5.067913	.0865193	.0087051	.6955199	2.880454	.0068088
Stddev	.022964	.037306	.0009035	.0002293	.0130256	.011994	.0009355
%RSD	1.172675	.7361224	1.044287	2.634173	1.872786	.4163831	13.73991
#1	1.976787	5.033318	.0875505	.0084603	.6810257	2.866634	.0057285
#2	1.932553	5.062980	.0861408	.0089148	.6992875	2.886585	.0073449
#3	1.965371	5.107440	.0858666	.0087402	.7062464	2.888142	.0073529

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-16 Acquired: 06/30/2024 22:46:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW49 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4682121	.1107883	.0388351
Stddev	.0018284	.0012018	.0001609
%RSD	.3905082	1.084765	.4142266
#1	.4661075	.1095798	.0387678
#2	.4691193	.1108018	.0387189
#3	.4694094	.1119833	.0390187

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1888.268	32049.39	4271.422	1032.395	2659.731
Stddev	.376	148.72	13.416	6.892	4.223
%RSD	.0199238	.4640437	.3140797	.6675274	.1587872
#1	1888.543	31947.91	4286.886	1027.092	2664.409
#2	1888.422	31980.14	4264.494	1029.909	2658.586
#3	1887.839	32220.11	4262.887	1040.185	2656.198

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-17 Acquired: 06/30/2024 22:51:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW50 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1009599	-.006613	2.264442	-.038992	.0078580	46.55743	.7543453
Stddev	.0038393	.000566	.011955	.005032	.0022605	.12447	.0041558
%RSD	3.802809	8.565829	.5279563	12.90548	28.76648	.2673501	.5509140
#1	.0965318	-.006043	2.251535	-.033284	.0102109	46.44663	.7495500
#2	.1029881	-.006620	2.266655	-.042786	.0076600	46.53356	.7565872
#3	.1033597	-.007176	2.275137	-.040907	.0057030	46.69211	.7568988

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052342	.0039287	14.87657	.0961182	.0769731	1.617765	157.7377
Stddev	.0000923	.0001171	.05636	.0002040	.0001897	.007971	.0760
%RSD	1.764072	2.981304	.3788712	.2121824	.2464533	.4927195	.0482036
#1	.0052233	.0039133	14.81648	.0959353	.0768700	1.615867	157.8123
#2	.0051477	.0040527	14.88497	.0960811	.0768571	1.610913	157.6603
#3	.0053314	.0038199	14.92826	.0963381	.0771920	1.626513	157.7405

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.391125	10.38041	.1139367	-.003481	.5593568	.1456469	.7587863
Stddev	.011750	.07104	.0006050	.000267	.1012934	.0007349	.0005780
%RSD	.2179514	.6843192	.5309662	7.678481	18.10890	.5045801	.0761801
#1	5.380898	10.35055	.1141270	-.003459	.6618786	.1458536	.7589044
#2	5.403960	10.46150	.1144236	-.003225	.5568535	.1448308	.7581584
#3	5.388517	10.32918	.1132594	-.003759	.4593383	.1462564	.7592962

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.592610	9.068122	.0695375	.0086334	1.762994	2.591938	.0203247
Stddev	.036622	.029495	.0009681	.0001288	.005260	.018668	.0017777
%RSD	1.412565	.3252573	1.392138	1.492241	.2983349	.7202198	8.746388
#1	2.563501	9.043184	.0706029	.0087215	1.768756	2.585214	.0188441
#2	2.580599	9.060504	.0687119	.0084855	1.758450	2.613037	.0222962
#3	2.633729	9.100678	.0692977	.0086932	1.761776	2.577565	.0198338

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-17 Acquired: 06/30/2024 22:51:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW50 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6211556	.1109265	.0454672
Stddev	.0038692	.0016520	.0000875
%RSD	.6229094	1.489243	.1924286
#1	.6183374	.1097562	.0455027
#2	.6195624	.1128162	.0453675
#3	.6255671	.1102072	.0455313

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1907.118	32055.85	4317.538	1038.050	2675.192
Stddev	2.404	182.70	28.033	9.835	4.554
%RSD	.1260755	.5699521	.6492865	.9474950	.1702436
#1	1909.583	31845.12	4314.274	1026.693	2679.812
#2	1906.991	32169.84	4291.281	1043.741	2675.057
#3	1904.779	32152.59	4347.061	1043.716	2670.707

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-18 Acquired: 06/30/2024 22:55:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW51 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1056160	-.010228	.7424085	-.038683	.0085164	49.13593	.6814207
Stddev	.0087518	.002169	.0014185	.002035	.0016055	.70748	.0099932
%RSD	8.286464	21.20359	.1910729	5.259934	18.85233	1.439845	1.466522
#1	.1095859	-.007879	.7407732	-.039070	.0102790	48.94357	.6786002
#2	.1116794	-.010649	.7431446	-.036482	.0081326	49.91969	.6925210
#3	.0955828	-.012155	.7433076	-.040496	.0071375	48.54452	.6731409

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061426	.0024672	10.47783	.0793004	.0618569	.1187023	176.6995
Stddev	.0001085	.0002462	.17764	.0018108	.0001884	.0023194	2.5466
%RSD	1.765734	9.980709	1.695351	2.283454	.3045044	1.953971	1.441189
#1	.0061319	.0027079	10.44014	.0811873	.0616596	.1171663	175.6864
#2	.0062559	.0022158	10.67129	.0775767	.0620348	.1213703	179.5967
#3	.0060398	.0024778	10.32207	.0791372	.0618762	.1175703	174.8153

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.043037	9.145051	.1151068	-.004192	.5101199	.1673165	.5471619
Stddev	.054727	.067736	.0009938	.000430	.1043058	.0034996	.0087750
%RSD	1.353619	.7406854	.8634036	10.26376	20.44731	2.091599	1.603736
#1	4.021349	9.141400	.1141481	-.004487	.4908113	.1662817	.5418064
#2	4.105284	9.214539	.1150397	-.003698	.4168175	.1712168	.5423905
#3	4.002477	9.079214	.1161324	-.004391	.6227309	.1644509	.5572889

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.944043	5.771440	.0775925	.0080323	.7480307	4.343874	.0104765
Stddev	.069797	.005111	.0040038	.0004334	.0054976	.052973	.0012396
%RSD	3.590303	.0885624	5.160096	5.395595	.7349430	1.219478	11.83216
#1	1.959474	5.771245	.0757195	.0085207	.7423661	4.334820	.0095233
#2	2.004834	5.776646	.0821896	.0076937	.7483815	4.400790	.0100285
#3	1.867822	5.766429	.0748685	.0078825	.7533445	4.296012	.0118779

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-18 Acquired: 06/30/2024 22:55:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW51 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5375843	.1053818	.0488868
Stddev	.0076679	.0009347	.0006150
%RSD	1.426358	.8869599	1.258007
#1	.5369397	.1063302	.0486943
#2	.5455542	.1053539	.0495751
#3	.5302592	.1044614	.0483912

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1953.137	33184.08	4387.838	1072.593	2687.795
Stddev	.912	460.25	64.659	11.290	2.855
%RSD	.0466879	1.386961	1.473607	1.052629	.1062262
#1	1954.060	32954.21	4394.332	1065.538	2689.882
#2	1953.113	33713.99	4320.177	1085.614	2688.960
#3	1952.237	32884.05	4449.006	1066.625	2684.541

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-19 Acquired: 06/30/2024 22:59:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW52 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0888500	-.013324	.5605156	-.044755	.0070036	61.38698	.6380064
Stddev	.0038172	.001303	.0052970	.005419	.0013258	.28592	.0014363
%RSD	4.296180	9.780738	.9450190	12.10879	18.93030	.4657706	.2251184
#1	.0846461	-.013741	.5617077	-.050925	.0077157	61.71698	.6390342
#2	.0920992	-.011864	.5547241	-.040764	.0054739	61.21341	.6386198
#3	.0898046	-.014369	.5651149	-.042577	.0078212	61.23053	.6363653

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058078	-.000686	13.78608	.0874001	.0815379	.1107804	194.5307
Stddev	.0001651	.000156	.04428	.0005233	.0006879	.0019288	1.1458
%RSD	2.843175	22.73879	.3211600	.5987896	.8436021	1.741116	.5890266
#1	.0059213	-.000698	13.81925	.0871279	.0814761	.1129459	195.8432
#2	.0056183	-.000835	13.80318	.0870690	.0808830	.1101484	193.7294
#3	.0058836	-.000524	13.73580	.0880035	.0822546	.1092468	194.0196

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.645454	11.63728	.1226415	-.004596	.4860298	.1655118	.3719681
Stddev	.022634	.08311	.0010010	.000328	.2830722	.0020886	.0104041
%RSD	.6208964	.7141395	.8161833	7.136313	58.24174	1.261904	2.797052
#1	3.670279	11.68094	.1235097	-.004905	.1592945	.1638296	.3837917
#2	3.625964	11.54145	.1215466	-.004252	.6414658	.1678495	.3642129
#3	3.640117	11.68947	.1228681	-.004632	.6573291	.1648563	.3678998

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.274427	4.896728	.0811603	.0066732	.4910700	4.522442	.0042698
Stddev	.060896	.028145	.0009008	.0003270	.0088385	.037805	.0016235
%RSD	2.677424	.5747744	1.109878	4.900802	1.799837	.8359339	38.02147
#1	2.333375	4.910551	.0812551	.0063142	.4941517	4.549905	.0053680
#2	2.211754	4.864344	.0820099	.0067512	.4811033	4.479325	.0050364
#3	2.278150	4.915290	.0802158	.0069542	.4979551	4.538096	.0024050

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-19 Acquired: 06/30/2024 22:59:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW52 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5975071	.1374269	.0594999
Stddev	.0027894	.0029347	.0005675
%RSD	.4668387	2.135500	.9537411
#1	.6003367	.1407064	.0600015
#2	.5974248	.1365262	.0588839
#3	.5947598	.1350480	.0596144

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1955.833	32917.00	4386.270	1064.532	2666.328
Stddev	6.303	214.00	17.664	8.511	13.253
%RSD	.3222692	.6501058	.4027185	.7995110	.4970593
#1	1955.833	33152.07	4367.454	1069.386	2664.680
#2	1962.136	32733.51	4402.498	1054.705	2680.328
#3	1949.530	32865.41	4388.859	1069.506	2653.976

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-20 Acquired: 06/30/2024 23:04:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW56 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0751722	-.013572	.2239406	-.037353	.0046667	61.33274	.4853997
Stddev	.0048234	.001746	.0036746	.006877	.0011557	.34465	.0014661
%RSD	6.416437	12.86473	1.640903	18.41041	24.76477	.5619376	.3020487
#1	.0704044	-.012231	.2215069	-.031566	.0052526	61.53304	.4855082
#2	.0800493	-.015546	.2281676	-.035538	.0054122	61.53040	.4868086
#3	.0750628	-.012937	.2221473	-.044956	.0033354	60.93477	.4838824

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049021	-.001381	13.39080	.0849861	.0373995	.0752418	181.0861
Stddev	.0000440	.000208	.03764	.0005478	.0000765	.0012164	.5928
%RSD	.8973940	15.07930	.2810793	.6445490	.2045423	1.616648	.3273736
#1	.0048522	-.001530	13.41836	.0849456	.0374873	.0758210	181.5009
#2	.0049188	-.001471	13.40613	.0855531	.0373474	.0738440	181.3504
#3	.0049353	-.001143	13.34792	.0844597	.0373638	.0760603	180.4071

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.422219	9.368056	.0883179	-.004517	.6245531	.1805552	.2580525
Stddev	.004075	.055731	.0009328	.000415	.1330332	.0012801	.0064729
%RSD	.2865429	.5949047	1.056185	9.188843	21.30055	.7090036	2.508368
#1	1.426828	9.414083	.0872749	-.004593	.5294150	.1794876	.2632314
#2	1.420739	9.383994	.0886065	-.004888	.7765702	.1819744	.2601302
#3	1.419091	9.306093	.0890723	-.004069	.5676740	.1802035	.2507958

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.328934	2.362080	.0771297	.0071647	.4433417	5.127092	.0034605
Stddev	.064113	.023029	.0011928	.0007143	.0032503	.019745	.0001615
%RSD	2.752874	.9749300	1.546429	9.969686	.7331342	.3851100	4.666773
#1	2.330657	2.342731	.0762461	.0076694	.4396088	5.143212	.0034487
#2	2.263977	2.355960	.0784865	.0063474	.4448714	5.105069	.0036275
#3	2.392168	2.387551	.0766566	.0074773	.4455450	5.132996	.0033052

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-20 Acquired: 06/30/2024 23:04:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW56 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4143340	.1413573	.0702428
Stddev	.0021834	.0018859	.0002278
%RSD	.5269763	1.334125	.3243639
#1	.4132697	.1423295	.0704760
#2	.4168455	.1391837	.0702317
#3	.4128867	.1425587	.0700207

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1870.662	31429.33	4211.665	1024.529	2684.088
Stddev	9.677	98.80	10.294	3.658	18.481
%RSD	.5173153	.3143672	.2444262	.3570174	.6885461
#1	1881.219	31497.63	4199.780	1021.806	2704.060
#2	1868.556	31316.04	4217.408	1023.095	2680.611
#3	1862.211	31474.33	4217.807	1028.687	2667.592

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-21 Acquired: 06/30/2024 23:08:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW56D Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0741435	-.012102	.2077159	-.042464	.0060209	61.38797	.4827348
Stddev	.0040603	.001785	.0012387	.003308	.0019895	.24998	.0008670
%RSD	5.476286	14.75284	.5963264	7.790183	33.04261	.4072112	.1796092
#1	.0781372	-.014152	.2075592	-.046255	.0037939	61.21808	.4820706
#2	.0700197	-.011258	.2065630	-.040158	.0076227	61.67501	.4824181
#3	.0742736	-.010895	.2090254	-.040981	.0066462	61.27082	.4837156

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050543	-.001479	13.00770	.0865799	.0383473	.0752841	184.9845
Stddev	.0000947	.000106	.05261	.0014797	.0002112	.0010506	.5542
%RSD	1.874227	7.168184	.4044646	1.709112	.5506237	1.395489	.2995817
#1	.0049914	-.001441	12.96155	.0876367	.0385240	.0740712	184.3523
#2	.0050083	-.001398	13.06499	.0872144	.0381134	.0759074	185.3863
#3	.0051633	-.001599	12.99655	.0848887	.0384044	.0758738	185.2150

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.422913	9.367441	.0887339	-.004565	.6159088	.1890775	.2548549
Stddev	.006312	.099208	.0007548	.000076	.2544652	.0039337	.0071411
%RSD	.4436242	1.059069	.8506786	1.669522	41.31540	2.080497	2.802026
#1	1.416726	9.279211	.0895980	-.004512	.7556857	.1928084	.2521284
#2	1.429343	9.474831	.0884009	-.004531	.3221915	.1849683	.2629576
#3	1.422670	9.348282	.0882029	-.004652	.7698491	.1894559	.2494787

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.332142	2.451332	.0790764	.0073602	.4247052	4.912685	.0040791
Stddev	.073004	.007351	.0005160	.0004892	.0028303	.044133	.0006152
%RSD	3.130358	.2998618	.6525210	6.646808	.6664246	.8983408	15.08077
#1	2.356788	2.457767	.0790079	.0077871	.4214963	4.863781	.0046924
#2	2.250005	2.443321	.0785981	.0074671	.4257727	4.924730	.0034621
#3	2.389634	2.452907	.0796232	.0068264	.4268465	4.949546	.0040827

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-21 Acquired: 06/30/2024 23:08:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW56D Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4209971	.1451754	.0682519
Stddev	.0056444	.0022526	.0006340
%RSD	1.340721	1.551615	.9289512
#1	.4219964	.1438943	.0675202
#2	.4260751	.1438556	.0686382
#3	.4149198	.1477764	.0685973

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1845.995	31131.62	4186.623	1009.020	2661.516
Stddev	2.875	162.83	43.903	1.565	6.038
%RSD	.1557650	.5230252	1.048647	.1551171	.2268735
#1	1845.322	31115.29	4237.070	1010.458	2655.674
#2	1849.148	30977.57	4165.731	1007.353	2667.733
#3	1843.516	31301.99	4157.068	1009.248	2661.139

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-20LX5 Acquired: 06/30/2024 23:13:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW56L Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0175648	-.004246	.0440374	-.010396	.0001298	12.81505	.1024808
Stddev	.0015352	.001407	.0025738	.005222	.0027114	.05008	.0004375
%RSD	8.740134	33.13141	5.844471	50.23033	2089.528	.3907990	.4268701
#1	.0193349	-.003685	.0466172	-.016186	-.002471	12.86532	.1029849
#2	.0167617	-.003206	.0440252	-.008957	-.000079	12.81466	.1022571
#3	.0165977	-.005846	.0414697	-.006044	.002940	12.76516	.1022004

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011139	-.000412	2.798537	.0169681	.0072612	.0145041	38.25655
Stddev	.0001074	.000025	.008965	.0014143	.0003561	.0009965	.19994
%RSD	9.637608	5.961456	.3203290	8.335042	4.904285	6.870500	.5226175
#1	.0012379	-.000394	2.796693	.0155931	.0076557	.0133964	38.48550
#2	.0010537	-.000402	2.790638	.0168926	.0069635	.0147883	38.16779
#3	.0010502	-.000440	2.808280	.0184187	.0071644	.0153277	38.11636

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2994909	1.945288	.0169994	-.000913	-.027820	.0384313	.0485373
Stddev	.0004461	.038656	.0004207	.000263	.204159	.0010086	.0051193
%RSD	.1489439	1.987163	2.474613	28.77230	733.8460	2.624291	10.54707
#1	.2997141	1.968941	.0172133	-.000682	-.017667	.0385361	.0468864
#2	.2989773	1.966244	.0165148	-.001199	.171073	.0393833	.0542783
#3	.2997814	1.900679	.0172702	-.000859	-.236867	.0373744	.0444472

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4675540	.4686613	.0146765	.0010815	.0889029	1.119547	.0002690
Stddev	.0644906	.0048693	.0015673	.0003201	.0037929	.005356	.0008275
%RSD	13.79319	1.038974	10.67888	29.59442	4.266398	.4783809	307.6095
#1	.5419603	.4725235	.0161383	.0013078	.0930091	1.125645	.0011996
#2	.4329602	.4631915	.0130216	.0012214	.0881689	1.115606	-.000008
#3	.4277414	.4702690	.0148695	.0007153	.0855305	1.117392	-.000384

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-20LX5 Acquired: 06/30/2024 23:13:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW56L Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.0873900	.0298430	.0145732
Stddev	.0012330	.0010396	.0001171
%RSD	1.410911	3.483605	.8036167
#1	.0884228	.0300605	.0146290
#2	.0860249	.0307566	.0146521
#3	.0877222	.0287118	.0144387

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1780.839	30013.92	3925.227	974.7174	2755.338
Stddev	2.464	199.21	4.579	6.0831	4.750
%RSD	.1383396	.6637210	.1166628	.6240857	.1723869
#1	1781.477	30238.25	3923.610	979.8018	2756.595
#2	1782.921	29857.67	3930.395	967.9781	2759.333
#3	1778.119	29945.86	3921.675	976.3723	2750.086

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-22 Acquired: 06/30/2024 23:17:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW56S Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1392259	.0800856	.2417090	.0402986	.1438730	71.09072	4.162252
Stddev	.0067091	.0001808	.0026180	.0021761	.0026693	.24185	.014845
%RSD	4.818898	.2257756	1.083120	5.400035	1.855315	.3402048	.3566460
#1	.1347162	.0799249	.2389435	.0391496	.1429396	71.36141	4.179087
#2	.1360255	.0802814	.2441490	.0428084	.1417958	71.01484	4.156630
#3	.1469360	.0800505	.2420345	.0389378	.1468837	70.89590	4.151040

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0983231	.0943515	15.17838	.5087370	.9842745	.5732328	193.8923
Stddev	.0003503	.0001201	.05018	.0049806	.0014758	.0019313	.4654
%RSD	.3562381	.1272918	.3306056	.9790099	.1499338	.3369101	.2400284
#1	.0981011	.0944770	15.23349	.5120291	.9847853	.5754132	194.4290
#2	.0981413	.0942376	15.13534	.5030071	.9826112	.5725481	193.6481
#3	.0987269	.0943400	15.16630	.5111748	.9854269	.5717372	193.5998

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.631727	10.45552	1.114381	.0432806	.8787477	1.105044	1.059319
Stddev	.004169	.07142	.001674	.0004095	.2083284	.001430	.020558
%RSD	.1584161	.6830514	.1502120	.9461159	23.70741	.1294340	1.940675
#1	2.636408	10.50367	1.116204	.0437440	.7355147	1.106614	1.078291
#2	2.630357	10.48942	1.114026	.0429674	1.117738	1.104703	1.062190
#3	2.628415	10.37346	1.112913	.0431304	.782991	1.103815	1.037476

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.043212	2.508476	.0848250	.4341064	.7667574	5.965633	.0109798
Stddev	.078923	.009808	.0017313	.0008428	.0074348	.039842	.0015151
%RSD	2.593419	.3909808	2.041005	.1941448	.9696444	.6678665	13.79855
#1	2.953937	2.519694	.0850448	.4333312	.7650359	5.963521	.0112168
#2	3.071996	2.501526	.0864359	.4339845	.7749019	5.926888	.0123625
#3	3.103703	2.504206	.0829943	.4350035	.7603343	6.006489	.0093603

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2874-22 Acquired: 06/30/2024 23:17:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW56S Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.5516999	.1632970	.0761397
Stddev	.0133257	.0032193	.0001727
%RSD	2.415396	1.971442	.2267724
#1	.5390419	.1612716	.0760614
#2	.5656056	.1616103	.0760202
#3	.5504522	.1670092	.0763377

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1840.439	31118.22	4155.355	1000.111	2628.743
Stddev	3.240	239.78	16.712	8.324	7.738
%RSD	.1760404	.7705327	.4021875	.8323041	.2943676
#1	1837.766	30977.16	4163.505	990.556	2619.945
#2	1844.042	31395.07	4166.429	1005.791	2634.490
#3	1839.508	30982.41	4136.131	1003.986	2631.795

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-19 Acquired: 06/30/2024 23:22:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4E2 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7466454	-.022423	.5968029	-.066666	.0259044	105.2688
Stddev	.0040986	.004055	.0023604	.005685	.0011701	.7451
%RSD	.5489421	18.08353	.3955012	8.527595	4.516892	.7078510
#1	.7512285	-.020869	.5953744	-.066307	.0261388	104.4084
#2	.7453761	-.027025	.5995274	-.061168	.0269396	105.7061
#3	.7433316	-.019375	.5955071	-.072521	.0246349	105.6918

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.012337	.0047660	.0066933	49.40324	.1512882	.1293430
Stddev	.005475	.0000994	.0002842	.26556	.0011481	.0002592
%RSD	.5408320	2.085433	4.246018	.5375445	.7589096	.2003836
#1	1.006152	.0046569	.0066502	49.10234	.1499648	.1295822
#2	1.014292	.0047896	.0069966	49.50250	.1518815	.1290676
#3	1.016565	.0048514	.0064331	49.60486	.1520184	.1293792

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5794933	294.8653	4.724664	44.46536	.1817026	-.006181
Stddev	.0045705	2.1871	.039717	.45672	.0004976	.000422
%RSD	.7886987	.7417270	.8406249	1.027127	.2738735	6.825541
#1	.5742782	292.3435	4.679625	43.94293	.1822618	-.006489
#2	.5814004	296.0088	4.739699	44.78891	.1815378	-.005700
#3	.5828015	296.2436	4.754668	44.66426	.1813083	-.006355

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.093395	.4198588	1.643193	27.22025	F 11.26263	.1360503
Stddev	.198094	.0067683	.008572	.31530	.03742	.0012720
%RSD	18.11737	1.612031	.5216479	1.158332	.3322278	.9349610
#1	1.292981	.4120745	1.639087	26.86786	11.30295	.1370881
#2	.896827	.4231490	1.637448	27.47569	11.25592	.1364316
#3	1.090377	.4243530	1.653046	27.31720	11.22902	.1346313

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-19 Acquired: 06/30/2024 23:22:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4E2 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003491	2.531727	6.913007	.0024695	3.546511	.1296496
Stddev	.0001165	.009694	.078315	.0006947	.026873	.0036671
%RSD	33.35959	.3828816	1.132862	28.13043	.7577323	2.828469
#1	.0002366	2.530049	6.825513	.0017120	3.515800	.1270195
#2	.0003415	2.542151	6.976547	.0030768	3.558015	.1280907
#3	.0004692	2.522983	6.936961	.0026197	3.565716	.1338386

Elem	Sr4077
Units	ppm
Avg	.1793459
Stddev	.0017171
%RSD	.9574280
#1	.1773710
#2	.1804857
#3	.1801811

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1915.706	32213.53	4374.442	1044.737	2476.515
Stddev	4.898	76.77	27.315	7.269	4.964
%RSD	.2556708	.2383209	.6244139	.6957277	.2004496
#1	1912.239	32151.05	4395.981	1036.952	2470.818
#2	1921.309	32190.30	4343.719	1045.912	2479.911
#3	1913.571	32299.23	4383.624	1051.346	2478.817

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-20 Acquired: 06/30/2024 23:26:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4E3 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4615633	-.022209	.4085328	-.077205	.0222904	131.0908
Stddev	.0067628	.003132	.0015376	.001523	.0021666	.1650
%RSD	1.465204	14.10224	.3763797	1.972840	9.720046	.1258612
#1	.4683333	-.025825	.4094682	-.077425	.0211104	131.1902
#2	.4615491	-.020354	.4067582	-.075583	.0247909	130.9003
#3	.4548076	-.020447	.4093720	-.078605	.0209698	131.1818

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.003847	.0046887	.0054430	59.16695	.1103527	.1375454
Stddev	.001446	.0001036	.0001863	.17185	.0014548	.0010457
%RSD	.1440001	2.208675	3.421905	.2904531	1.318334	.7602224
#1	1.004090	.0047237	.0052333	59.24156	.1112260	.1366153
#2	1.005155	.0045721	.0055893	59.28889	.1111589	.1386772
#3	1.002295	.0047702	.0055062	58.97041	.1086733	.1373436

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5564540	324.4136	6.258381	51.63860	.1599597	-.008117
Stddev	.0062439	.6161	.009684	.10465	.0008172	.000286
%RSD	1.122086	.1898994	.1547330	.2026575	.5108938	3.529275
#1	.5602529	325.1249	6.268756	51.73416	.1606491	-.008411
#2	.5492477	324.0679	6.256807	51.65487	.1601730	-.007838
#3	.5598612	324.0480	6.249581	51.52677	.1590569	-.008104

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9686659	.5349256	1.229434	22.55160	F 10.50336	.1447723
Stddev	.0299804	.0041647	.003883	.19185	.01836	.0022502
%RSD	3.095017	.7785579	.3158527	.8507336	.1747912	1.554310
#1	.9992097	.5325975	1.225586	22.64302	10.49915	.1466386
#2	.9675053	.5397337	1.229366	22.33114	10.52346	.1454048
#3	.9392827	.5324455	1.233351	22.68065	10.48747	.1422735

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-20 Acquired: 06/30/2024 23:26:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4E3 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000407	2.571674	5.824352	.0004046	3.795304	.1540726
Stddev	.000471	.022674	.016549	.0017993	.008393	.0023658
%RSD	115.6214	.8816860	.2841384	444.6766	.2211491	1.535524
#1	.000023	2.546112	5.817509	.0007328	3.803073	.1567706
#2	-.000334	2.579552	5.843225	-.001536	3.786402	.1530942
#3	-.000911	2.589359	5.812322	.002017	3.796438	.1523529

Elem	Sr4077
Units	ppm
Avg	.2326931
Stddev	.0014536
%RSD	.6246938
#1	.2325970
#2	.2312899
#3	.2341923

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1917.210	32155.84	4392.654	1035.078	2451.407
Stddev	3.876	192.44	15.655	3.615	4.939
%RSD	.2021915	.5984488	.3563938	.3492165	.2014859
#1	1920.152	32013.35	4387.173	1034.512	2455.317
#2	1912.818	32374.75	4410.313	1038.942	2445.856
#3	1918.660	32079.44	4380.477	1031.780	2453.048

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-21 Acquired: 06/30/2024 23:30:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4E4 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2950009	-.018392	.1910513	-.060312	.0158516	120.8642	1.317940
Stddev	.0084389	.001780	.0041660	.001633	.0011777	.2747	.005213
%RSD	2.860621	9.679723	2.180585	2.707841	7.429578	.2273071	.3955709
#1	.2853598	-.018204	.1863541	-.061030	.0171736	121.0814	1.321849
#2	.2985963	-.020258	.1942989	-.058443	.0154665	120.9558	1.319952
#3	.3010466	-.016712	.1925009	-.061463	.0149146	120.5553	1.312021

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0059835	.0019396	53.46021	.1622761	.1417917	.3010863	264.1393
Stddev	.0001339	.0003351	.15759	.0009309	.0006363	.0014423	.5784
%RSD	2.237395	17.27692	.2947857	.5736309	.4487667	.4790222	.2189603
#1	.0060542	.0018717	53.53837	.1633506	.1410592	.2998292	264.4797
#2	.0060672	.0016437	53.56344	.1617629	.1421078	.3026608	264.4667
#3	.0058291	.0023035	53.27881	.1617147	.1422080	.3007688	263.4715

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.555923	47.32653	.2071400	-.007416	.8847820	.4152444	.6936301
Stddev	.016862	.10892	.0025782	.000722	.2433398	.0053781	.0112601
%RSD	.2572060	.2301497	1.244680	9.731412	27.50280	1.295176	1.623362
#1	6.574705	47.27418	.2041771	-.006613	1.165647	.4091694	.6813202
#2	6.550979	47.45175	.2088726	-.007625	.737241	.4171660	.7034099
#3	6.542085	47.25367	.2083703	-.008011	.751458	.4193979	.6961604

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	30.33749	9.415197	.1236970	.0007217	1.307473	5.848057	-.000091
Stddev	.05495	.051988	.0014654	.0003491	.011740	.011390	.002287
%RSD	.1811167	.5521724	1.184702	48.37187	.8979436	.1947594	2510.432
#1	30.36006	9.367300	.1238944	.0006641	1.294109	5.856617	.001219
#2	30.37757	9.407805	.1250537	.0004050	1.312183	5.852424	.001239
#3	30.27486	9.470485	.1221428	.0010960	1.316127	5.835130	-.002731

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-21 Acquired: 06/30/2024 23:30:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4E4 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	3.920028	.1472275	.2077811
Stddev	.011746	.0028140	.0007449
%RSD	.2996369	1.911306	.3585063
#1	3.932519	.1445582	.2080140
#2	3.918361	.1501667	.2083818
#3	3.909205	.1469576	.2069476

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1978.923	32998.55	4494.314	1072.687	2472.106
Stddev	7.207	49.75	11.769	4.695	15.380
%RSD	.3641894	.1507705	.2618653	.4376762	.6221457
#1	1986.863	32960.33	4504.379	1078.019	2488.107
#2	1977.113	32980.52	4481.374	1069.173	2470.778
#3	1972.795	33054.80	4497.188	1070.869	2457.433

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-22 Acquired: 06/30/2024 23:35:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4E5 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.087678	-.032673	1.001863	-.104977	.0356861	145.4303
Stddev	.005212	.001746	.004364	.009912	.0026503	.5103
%RSD	.4792205	5.342923	.4355683	9.441962	7.426746	.3509182
#1	1.081866	-.033667	.998235	-.093804	.0369531	145.2081
#2	1.089228	-.030657	1.000647	-.108411	.0374652	145.0688
#3	1.091940	-.033694	1.006705	-.112714	.0326401	146.0141

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9762286	.0049845	.0113566	54.67375	.1567205	.1912922
Stddev	.0037478	.0001120	.0003865	.03309	.0021743	.0008636
%RSD	.3839097	2.247730	3.403789	.0605184	1.387364	.4514288
#1	.9803202	.0049068	.0113622	54.70851	.1544088	.1906964
#2	.9754035	.0049336	.0109672	54.64264	.1570284	.1908977
#3	.9729621	.0051129	.0117403	54.67009	.1587245	.1922826

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8072638	427.5637	6.245382	65.18862	.2184732	-.008995
Stddev	.0049504	1.2102	.011827	.41337	.0009882	.000516
%RSD	.6132259	.2830461	.1893670	.6341084	.4523265	5.740864
#1	.8028776	427.3327	6.246469	65.26055	.2183938	-.008451
#2	.8062826	426.4856	6.233049	64.74400	.2194987	-.009053
#3	.8126313	428.8728	6.256627	65.56129	.2175271	-.009479

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.425889	.7029788	2.648060	26.71031	F 14.60019	.1754008
Stddev	.124002	.0046093	.031086	.26284	.01664	.0038550
%RSD	8.696441	.6556874	1.173912	.9840505	.1139935	2.197817
#1	1.481093	.7029679	2.612607	26.50766	14.60913	.1788722
#2	1.283872	.6983749	2.670649	26.61598	14.58098	.1760781
#3	1.512702	.7075936	2.660925	27.00731	14.61044	.1712520

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2836-22 Acquired: 06/30/2024 23:35:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4E5 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000310	4.135768	6.249893	.0021814	4.424159	.1754246
Stddev	.000007	.006873	.088934	.0019385	.015831	.0008361
%RSD	2.112225	.1661921	1.422974	88.86386	.3578251	.4765997
#1	-.000316	4.130284	6.201959	.0005827	4.418802	.1749071
#2	-.000303	4.133541	6.195208	.0043376	4.411701	.1763892
#3	-.000311	4.143478	6.352512	.0016240	4.441973	.1749775

Elem	Sr4077
Units	ppm
Avg	.2165071
Stddev	.0024271
%RSD	1.121026
#1	.2144258
#2	.2159224
#3	.2191732

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1924.457	32333.31	4405.915	1045.352	2443.202
Stddev	3.402	374.37	41.045	14.196	6.127
%RSD	.1767880	1.157850	.9315984	1.358058	.2507726
#1	1926.167	32762.82	4441.432	1059.113	2445.778
#2	1926.665	32076.23	4415.333	1030.757	2447.621
#3	1920.539	32160.87	4360.979	1046.186	2436.208

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2902-19RE Acquired: 06/30/2024 23:39:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZWF0 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2224456	-.014998	1.088760	-.054258	.0109352	69.68509	.7767047
Stddev	.0053661	.002373	.003523	.008305	.0016917	.20240	.0013362
%RSD	2.412332	15.82016	.3235903	15.30576	15.47070	.2904440	.1720400
#1	.2180833	-.015269	1.092565	-.049978	.0110762	69.61334	.7758776
#2	.2208158	-.012501	1.085612	-.063829	.0125521	69.91359	.7782463
#3	.2284377	-.017223	1.088102	-.048966	.0091774	69.52834	.7759902

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0076589	.0041007	117.2976	.1069405	.0946739	.2319316	227.3532
Stddev	.0001776	.0003117	.2881	.0023034	.0001853	.0043893	.7020
%RSD	2.318371	7.601695	.2456299	2.153946	.1957375	1.892516	.3087536
#1	.0078365	.0043509	117.3008	.1095284	.0948632	.2304003	227.1383
#2	.0074814	.0041996	117.5841	.1061784	.0944929	.2368815	228.1374
#3	.0076589	.0037515	117.0079	.1051146	.0946656	.2285130	226.7837

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.992462	21.81319	.1909073	-.005958	.6957928	.2282724	1.367934
Stddev	.007133	.02751	.0008599	.000143	.2014799	.0009894	.024276
%RSD	.1786667	.1261302	.4504334	2.392127	28.95689	.4334109	1.774615
#1	3.984342	21.80465	.1918477	-.005821	.8436790	.2289240	1.343796
#2	3.995324	21.79095	.1907131	-.005949	.7773857	.2271339	1.367661
#3	3.997720	21.84396	.1901611	-.006105	.4663138	.2287592	1.392345

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.711521	4.922668	.1362039	.0233802	2.152391	4.987515	.0385314
Stddev	.068765	.003378	.0015611	.0003032	.007351	.023087	.0008232
%RSD	1.459515	.0686263	1.146176	1.296835	.3415113	.4628877	2.136297
#1	4.785590	4.924952	.1344026	.0230510	2.147978	5.010944	.0385570
#2	4.699266	4.918787	.1371645	.0236481	2.160876	4.986815	.0376958
#3	4.649707	4.924264	.1370447	.0234414	2.148318	4.964787	.0393415

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2902-19RE Acquired: 06/30/2024 23:39:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZWF0 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.365183	.1262979	.2040329
Stddev	.006959	.0010075	.0007826
%RSD	.5097747	.7977271	.3835769
#1	1.360791	.1251346	.2043925
#2	1.373207	.1268947	.2045711
#3	1.361550	.1268643	.2031351

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1816.520	30258.50	4119.493	981.3860	2501.645
Stddev	4.089	205.16	25.328	5.8741	3.171
%RSD	.2250948	.6780405	.6148384	.5985499	.1267699
#1	1815.299	30216.43	4092.483	981.4000	2499.276
#2	1821.081	30481.44	4142.713	987.2530	2505.248
#3	1813.181	30077.63	4123.284	975.5049	2500.410

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2902-20RE Acquired: 06/30/2024 23:44:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZWS9 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0865963	-.010674	1.613214	-.050329	.0073534	43.49072	.8527614
Stddev	.0081839	.000407	.001841	.002921	.0028686	.12552	.0010729
%RSD	9.450652	3.809718	.1141445	5.803410	39.01038	.2886158	.1258166
#1	.0944197	-.010345	1.611832	-.053441	.0047586	43.35938	.8521593
#2	.0780941	-.010548	1.612505	-.047646	.0068677	43.50330	.8521247
#3	.0872752	-.011129	1.615304	-.049901	.0104338	43.60947	.8540001

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058599	.0017507	53.86408	.0698292	.0673562	.3993834	206.8484
Stddev	.0002094	.0001092	.12808	.0003892	.0004723	.0033651	.4176
%RSD	3.573479	6.237963	.2377850	.5573083	.7011344	.8425640	.2019041
#1	.0060063	.0018062	53.72001	.0695124	.0670385	.3983866	206.5102
#2	.0059533	.0018209	53.90717	.0697115	.0671312	.3966293	206.7199
#3	.0056200	.0016248	53.96505	.0702636	.0678989	.4031342	207.3152

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.141600	9.108915	.1332176	-.005198	.9206341	.1777592	.8719871
Stddev	.019318	.054051	.0003016	.000231	.0875618	.0040837	.0108683
%RSD	.4664363	.5933831	.2264076	4.444440	9.511027	2.297324	1.246384
#1	4.134851	9.170063	.1335507	-.005441	.8223460	.1767169	.8596887
#2	4.126561	9.067517	.1329630	-.005173	.9903123	.1742976	.8759725
#3	4.163387	9.089163	.1331391	-.004981	.9492439	.1822630	.8803002

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.133472	3.886028	.1172508	.0112884	2.102073	4.338355	.0526611
Stddev	.042332	.006605	.0007854	.0003842	.009108	.010799	.0023003
%RSD	1.350974	.1699805	.6698236	3.403498	.4332829	.2489157	4.368157
#1	3.160679	3.878847	.1179863	.0110180	2.112553	4.350649	.0551324
#2	3.155037	3.887393	.1173424	.0111189	2.097596	4.334014	.0522688
#3	3.084699	3.891844	.1164236	.0117282	2.096069	4.330402	.0505822

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2902-20RE Acquired: 06/30/2024 23:44:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZWS9 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.7538958	.0797024	.1665018
Stddev	.0041559	.0019406	.0008098
%RSD	.5512542	2.434855	.4863784
#1	.7541279	.0794442	.1659199
#2	.7496288	.0779037	.1661588
#3	.7579309	.0817592	.1674267

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1889.850	31589.34	4230.590	1024.767	2655.392
Stddev	4.751	57.90	11.184	6.613	5.692
%RSD	.2514135	.1832825	.2643634	.6452940	.2143384
#1	1894.426	31626.00	4233.415	1031.250	2661.325
#2	1890.182	31522.60	4218.264	1018.032	2654.872
#3	1884.941	31619.44	4240.091	1025.020	2649.977

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2875-01 Acquired: 06/30/2024 23:48:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW53 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1148055	-.012950	3.457624	-.050816	.0086460	67.75407	.9914713
Stddev	.0122172	.001339	.013613	.004458	.0007053	.49502	.0028713
%RSD	10.64161	10.33686	.3937088	8.772696	8.157006	.7306163	.2896043
#1	.1165387	-.011406	3.471558	-.047340	.0093126	67.70879	.9899226
#2	.1260635	-.013665	3.456959	-.055842	.0087179	67.28324	.9897067
#3	.1018143	-.013780	3.444356	-.049267	.0079076	68.27018	.9947845

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0074950	.0048097	49.02439	.1296546	.0646131	.1933525	229.0222
Stddev	.0000225	.0000279	.21168	.0008948	.0003515	.0023517	1.3162
%RSD	.2998403	.5803877	.4317915	.6901275	.5440012	1.216266	.5747217
#1	.0074732	.0048268	49.01152	.1300615	.0645743	.1951055	228.4418
#2	.0074937	.0047775	48.81944	.1302735	.0642826	.1906800	228.0960
#3	.0075181	.0048249	49.24222	.1286286	.0649824	.1942719	230.5289

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.217148	13.24017	.1487819	-.006382	.8170833	.2514886	1.124810
Stddev	.015925	.11712	.0004042	.000597	.2544663	.0055502	.010192
%RSD	.3776286	.8846019	.2716937	9.348294	31.14325	2.206929	.9060939
#1	4.209335	13.16993	.1491912	-.007057	.5257419	.2472066	1.127954
#2	4.206638	13.17520	.1483829	-.005926	.9958184	.2495001	1.113417
#3	4.235470	13.37537	.1487717	-.006163	.9296896	.2577591	1.133059

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.346595	6.166591	.1229299	.0123942	3.298954	5.935419	.0329851
Stddev	.081947	.013081	.0010401	.0003114	.006746	.029805	.0023553
%RSD	2.448677	.2121281	.8460482	2.512538	.2045002	.5021635	7.140469
#1	3.315673	6.174198	.1236104	.0120828	3.306678	5.901158	.0349948
#2	3.284608	6.151487	.1217327	.0123943	3.294212	5.949714	.0335672
#3	3.439504	6.174089	.1234466	.0127056	3.295973	5.955384	.0303934

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2875-01 Acquired: 06/30/2024 23:48:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW53 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6054915	.1559461	.1428479
Stddev	.0019938	.0029492	.0012847
%RSD	.3292923	1.891191	.8993640
#1	.6036154	.1565431	.1424739
#2	.6052738	.1585512	.1417917
#3	.6075852	.1527441	.1442782

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1885.248	31439.24	4250.987	1018.336	2635.427
Stddev	3.741	159.89	4.278	2.663	7.366
%RSD	.1984385	.5085698	.1006317	.2615279	.2795029
#1	1880.936	31254.92	4252.961	1017.340	2626.923
#2	1887.633	31540.49	4253.921	1016.314	2639.834
#3	1887.175	31522.33	4246.078	1021.354	2639.524

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2875-02 Acquired: 06/30/2024 23:52:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW54 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0687993	-.007780	.7709741	-.032048	.0057561	51.22941	.6574871
Stddev	.0046908	.002621	.0041923	.006092	.0023796	.25766	.0006041
%RSD	6.818148	33.69597	.5437690	19.00727	41.34016	.5029565	.0918841
#1	.0662336	-.005071	.7723403	-.038104	.0032334	51.20918	.6568081
#2	.0659509	-.007965	.7662691	-.032120	.0060743	51.49658	.6579651
#3	.0742133	-.010304	.7743129	-.025922	.0079606	50.98246	.6576880

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047865	.0004295	18.35046	.0789162	.0401487	.0805999	154.0519
Stddev	.0001070	.0001455	.04402	.0009329	.0001556	.0000563	.7038
%RSD	2.236160	33.86862	.2399059	1.182192	.3876927	.0698682	.4568493
#1	.0048838	.0003842	18.33356	.0783599	.0402523	.0806555	154.1019
#2	.0046719	.0005922	18.40043	.0783954	.0402241	.0805429	154.7294
#3	.0048038	.0003121	18.31739	.0799933	.0399697	.0806012	153.3245

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.428968	8.754547	.0879470	-.004553	.5245186	.1707711	.4333407
Stddev	.004899	.047635	.0003835	.000183	.0796229	.0022196	.0029012
%RSD	.2017029	.5441162	.4360047	4.020709	15.18019	1.299726	.6694969
#1	2.426782	8.708799	.0880649	-.004754	.5238893	.1682634	.4309051
#2	2.434580	8.803867	.0882577	-.004511	.4452121	.1715668	.4325666
#3	2.425543	8.750974	.0875184	-.004396	.6044543	.1724832	.4365505

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.977318	2.351587	.0737935	.0075023	.7145764	4.949318	.0167410
Stddev	.032324	.012480	.0030487	.0004784	.0011812	.018428	.0012235
%RSD	1.634729	.5306857	4.131327	6.375961	.1653055	.3723434	7.308582
#1	1.941874	2.357403	.0743186	.0076662	.7159401	4.968744	.0170080
#2	2.005170	2.337261	.0765455	.0069636	.7139185	4.932082	.0178090
#3	1.984910	2.360098	.0705164	.0078773	.7138707	4.947127	.0154060

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2875-02 Acquired: 06/30/2024 23:52:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW54 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.3767291	.1208733	.0667381
Stddev	.0039437	.0023424	.0003875
%RSD	1.046826	1.937854	.5805944
#1	.3765050	.1235611	.0665645
#2	.3807800	.1192683	.0671821
#3	.3729022	.1197904	.0664678

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1871.018	31148.07	4132.037	1015.488	2725.317
Stddev	4.863	163.79	1.407	6.270	7.003
%RSD	.2599332	.5258374	.0340414	.6174360	.2569667
#1	1875.082	31336.10	4130.533	1019.411	2723.532
#2	1872.343	31036.47	4133.320	1008.257	2733.040
#3	1865.630	31071.64	4132.257	1018.796	2719.379

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2875-03 Acquired: 06/30/2024 23:57:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW55 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0865415	-.011633	1.256762	-.039845	.0063262	55.90553	.6565595
Stddev	.0039117	.000711	.022108	.002532	.0031040	.29348	.0043406
%RSD	4.519970	6.111960	1.759161	6.353725	49.06635	.5249595	.6611090
#1	.0890753	-.012289	1.261584	-.037120	.0076996	55.57970	.6519610
#2	.0820364	-.011732	1.232641	-.040291	.0027724	55.98779	.6571323
#3	.0885129	-.010877	1.276062	-.042124	.0085066	56.14910	.6605853

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055655	.0010813	18.16347	.0884729	.0447922	.1019762	172.0689
Stddev	.0002691	.0002326	.12609	.0009694	.0006776	.0023006	.9090
%RSD	4.835212	21.50654	.6942158	1.095752	1.512795	2.256009	.5283016
#1	.0052589	.0011717	18.03094	.0874340	.0450981	.1044178	171.1362
#2	.0057624	.0008171	18.17753	.0886313	.0440156	.1016618	172.1180
#3	.0056753	.0012551	18.28195	.0893534	.0452629	.0998489	172.9523

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.319384	8.939934	.0974363	-.005205	.5732062	.1870303	.6006545
Stddev	.018058	.021467	.0015667	.000243	.3307955	.0034299	.0058589
%RSD	.7785509	.2401247	1.607936	4.659294	57.70968	1.833885	.9754186
#1	2.299541	8.954817	.0979408	-.005077	.8006951	.1901627	.6047247
#2	2.323757	8.915325	.0956794	-.005484	.7251914	.1833652	.6032993
#3	2.334853	8.949659	.0986885	-.005053	.1937321	.1875631	.5939394

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.142132	2.650250	.0834892	.0086157	.8615242	5.319254	.0126155
Stddev	.039083	.047298	.0033105	.0003016	.0192018	.067123	.0003860
%RSD	1.824470	1.784670	3.965206	3.500249	2.228812	1.261891	3.059779
#1	2.117885	2.665394	.0820211	.0082687	.8623380	5.243248	.0127822
#2	2.121293	2.597234	.0811666	.0088151	.8419286	5.370406	.0128902
#3	2.187217	2.688121	.0872799	.0087631	.8803062	5.344107	.0121742

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2875-03 Acquired: 06/30/2024 23:57:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW55 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.4230746	.1257385	.0650926
Stddev	.0072927	.0011579	.0002904
%RSD	1.723732	.9208844	.4461744
#1	.4166279	.1250691	.0647686
#2	.4216062	.1250708	.0653297
#3	.4309898	.1270755	.0651794

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1903.645	31323.96	4190.177	1020.492	2726.450
Stddev	24.895	138.63	39.841	8.261	43.027
%RSD	1.307753	.4425556	.9508142	.8095216	1.578131
#1	1893.166	31200.92	4236.173	1011.577	2707.285
#2	1932.067	31474.16	4166.430	1027.889	2775.729
#3	1885.703	31296.81	4167.927	1022.009	2696.336

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2875-04 Acquired: 07/01/2024 0:01:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW57 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0947736	-.007344	2.228245	-.038712	.0092755	56.86100	1.096122
Stddev	.0027506	.001739	.013273	.000729	.0037251	.18731	.002827
%RSD	2.902243	23.67232	.5956824	1.883313	40.16107	.3294138	.2579390
#1	.0919163	-.006927	2.220456	-.038466	.0134422	56.96084	1.097446
#2	.0950013	-.005852	2.220708	-.039532	.0062674	56.97724	1.098044
#3	.0974033	-.009253	2.243571	-.038138	.0081167	56.64493	1.092875

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071183	.0051331	25.44603	.0965480	.0847503	.1964860	179.4525
Stddev	.0000462	.0003246	.09815	.0019831	.0007236	.0018989	.5329
%RSD	.6493826	6.324175	.3857100	2.053998	.8538443	.9664200	.2969643
#1	.0071715	.0049845	25.45906	.0984834	.0841878	.1954486	179.5145
#2	.0070888	.0049093	25.53702	.0945204	.0844964	.1986776	179.9517
#3	.0070945	.0055054	25.34202	.0966401	.0855667	.1953317	178.8913

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.740621	9.342210	.1386133	-.004974	.7858152	.1882147	.8445635
Stddev	.019808	.135920	.0008077	.000018	.1189786	.0016284	.0153446
%RSD	.2938586	1.454902	.5827264	.3673399	15.14078	.8651935	1.816867
#1	6.735082	9.202900	.1390592	-.004973	.8458602	.1866783	.8397946
#2	6.762609	9.474465	.1376809	-.004993	.8628059	.1880440	.8321695
#3	6.724172	9.349264	.1390999	-.004956	.6487794	.1899217	.8617262

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.277695	6.256262	.1077836	.0138352	3.193828	5.011230	.0751463
Stddev	.041531	.056549	.0030260	.0002302	.037286	.029517	.0005720
%RSD	.9708637	.9038794	2.807496	1.664109	1.167446	.5890160	.7611397
#1	4.260794	6.211625	.1077022	.0141008	3.176476	5.039721	.0744868
#2	4.325012	6.237309	.1108495	.0136923	3.168380	5.013185	.0754463
#3	4.247280	6.319853	.1047991	.0137125	3.236628	4.980785	.0755059

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: P2875-04 Acquired: 07/01/2024 0:01:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZW57 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	1.070889	.0979027	.0905468
Stddev	.002804	.0021765	.0003681
%RSD	.2618690	2.223105	.4065201
#1	1.073660	.0972919	.0905834
#2	1.070956	.1003194	.0908953
#3	1.068052	.0960970	.0901618

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1972.550	33068.71	4420.113	1071.304	2688.694
Stddev	7.430	153.49	21.988	5.390	14.956
%RSD	.3766512	.4641690	.4974629	.5031683	.5562716
#1	1974.951	33062.38	4437.702	1073.378	2696.210
#2	1978.482	33225.28	4395.461	1075.350	2698.402
#3	1964.216	32918.48	4427.175	1065.185	2671.470

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: CCV008 Acquired: 07/01/2024 0:09:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV008 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.882128	4.772504	24.28921	4.572038	4.729552	395.7961	9.704850
Stddev	.004226	.020038	.05917	.023733	.012613	1.1139	.014579
%RSD	.0865671	.4198653	.2436119	.5190797	.2666758	.2814237	.1502214
#1	4.878940	4.750367	24.28647	4.569993	4.715469	396.4056	9.714374
#2	4.880523	4.777743	24.23146	4.549394	4.733381	396.4723	9.712110
#3	4.886922	4.789402	24.34971	4.596727	4.739807	394.5105	9.688067

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5014012	2.447472	395.0817	15.29208	2.450426	14.19641	394.6688
Stddev	.0040758	.007785	.5012	.02213	.009116	.07679	.7516
%RSD	.8128855	.3180666	.1268587	.1447445	.3720122	.5409298	.1904366
#1	.5053230	2.445630	395.4753	15.26678	2.455658	14.23546	395.5326
#2	.5016935	2.440773	395.2525	15.30784	2.439901	14.24583	394.1639
#3	.4971871	2.456012	394.5175	15.30163	2.455721	14.10793	394.3100

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	14.52629	392.1534	2.466368	1.268277	388.0414	2.399793	13.92968
Stddev	.01650	.1961	.007971	.003766	1.0885	.011911	.14968
%RSD	.1135828	.0500152	.3231954	.2969713	.2805129	.4963379	1.074553
#1	14.54529	392.3772	2.465457	1.264766	388.4394	2.399350	13.75839
#2	14.51798	392.0115	2.458892	1.272256	388.8750	2.411919	14.03533
#3	14.51560	392.0715	2.474756	1.267810	386.8099	2.388110	13.99531

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	143.3889	4.948585	5.002922	4.712736	4.889843	4.996297	4.923420
Stddev	1.0389	.011431	.032544	.012288	.022117	.039052	.007816
%RSD	.7245066	.2309873	.6504925	.2607312	.4523141	.7816144	.1587522
#1	143.8944	4.935559	5.036257	4.704572	4.877865	5.037108	4.932442
#2	144.0783	4.956943	5.001278	4.706768	4.876297	4.992500	4.919113
#3	142.1941	4.953253	4.971232	4.726868	4.915366	4.959282	4.918705

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: CCV008 Acquired: 07/01/2024 0:09:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV008 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	4.728680	4.925888	4.712252
Stddev	.014894	.007809	.032767
%RSD	.3149743	.1585201	.6953565
#1	4.734752	4.919257	4.739236
#2	4.739580	4.934495	4.721729
#3	4.711709	4.923912	4.675791

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1418.937	24793.96	3601.170	759.1487	2018.153
Stddev	2.487	123.73	26.734	7.9867	3.261
%RSD	.1752925	.4990289	.7423615	1.052063	.1615593
#1	1417.303	24897.34	3589.215	765.0010	2014.556
#2	1417.708	24656.87	3582.500	750.0499	2018.989
#3	1421.799	24827.67	3631.795	762.3950	2020.914

Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: CCB008 Acquired: 07/01/2024 0:13:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) 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	.0008887	-.000581	.0000067	-.002254	.0028721	.0141399	.0015098
Stddev	.0029735	.000521	.0013667	.002063	.0018237	.0087864	.0003858
%RSD	334.5954	89.67368	20348.40	91.52027	63.49807	62.13959	25.55547
#1	-.002413	-.000142	.0002626	-.000671	.0047612	.0089757	.0011847
#2	.001724	-.000444	.0012273	-.001503	.0027336	.0091588	.0019362
#3	.003355	-.001156	-.001470	-.004586	.0011216	.0242850	.0014086

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000455	.0000204	-.006046	.0001988	.0000612	.0053190	.0398115
Stddev	.0001377	.0000353	.015404	.0007451	.0001422	.0016096	.0012678
%RSD	302.5852	173.6087	254.7988	374.7863	232.4234	30.26143	3.184460
#1	-.000107	.0000573	-.002924	.0008052	.0000517	.0038110	.0383476
#2	.000161	.0000170	.007558	.0004242	.0002079	.0051321	.0405558
#3	.000082	-.000013	-.022772	-.000633	-.000076	.0070139	.0405310

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003905	-.043219	-.000120	.0001528	-.170002	.0005027	-.006242
Stddev	.0008255	.020739	.000143	.0001439	.277547	.0009635	.002924
%RSD	211.4242	47.98521	119.6158	94.17669	163.2613	191.6815	46.84899
#1	-.000438	-.034196	-.000020	.0002882	-.243411	.0015964	-.002871
#2	.001213	-.066941	-.000056	.0000018	.136871	.0001327	-.008103
#3	.000396	-.028520	-.000283	.0001683	-.403465	-.000221	-.007751

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1694151	.0010678	.0084559	.0000397	-.001361	.0019290	-.000129
Stddev	.0404442	.0027924	.0006926	.0005751	.001481	.0001479	.000682
%RSD	23.87285	261.5084	8.190496	1450.133	108.8124	7.665528	530.2770
#1	.1227992	.0014245	.0090464	-.000103	-.002738	.0018501	-.000751
#2	.1951629	.0036647	.0086278	.000673	.000206	.0020996	.000601
#3	.1902831	-.001886	.0076936	-.000451	-.001552	.0018373	-.000236

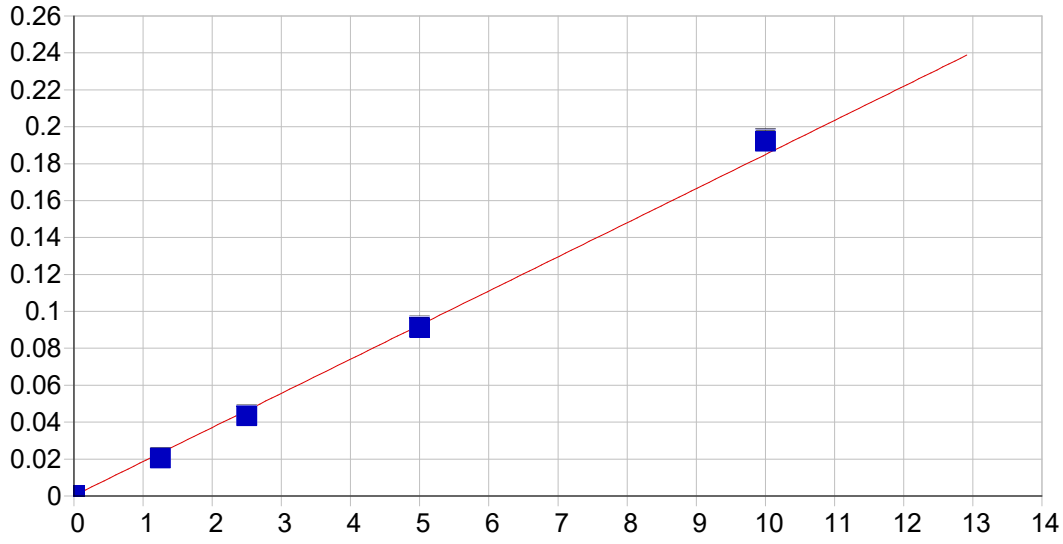
Reviewed By:mohan
On:6/30/2024 8:11:46 PM
Inst Id :P5

Sample Name: CCB008 Acquired: 07/01/2024 0:13:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v634) 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	.0015555	.0051635	.0000054
Stddev	.0010315	.0028778	.0000495
%RSD	66.30912	55.73317	922.9424
#1	.0005173	.0080251	-.000052
#2	.0015692	.0022698	.000035
#3	.0025801	.0051955	.000033

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1754.531	29097.48	3810.785	945.4115	2805.740
Stddev	2.654	84.45	11.616	1.0282	5.283
%RSD	.1512929	.2902353	.3048137	.1087586	.1882852
#1	1754.657	29003.53	3806.400	945.7000	2806.345
#2	1757.121	29167.07	3823.955	944.2699	2810.695
#3	1751.816	29121.86	3802.000	946.2647	2800.181

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5



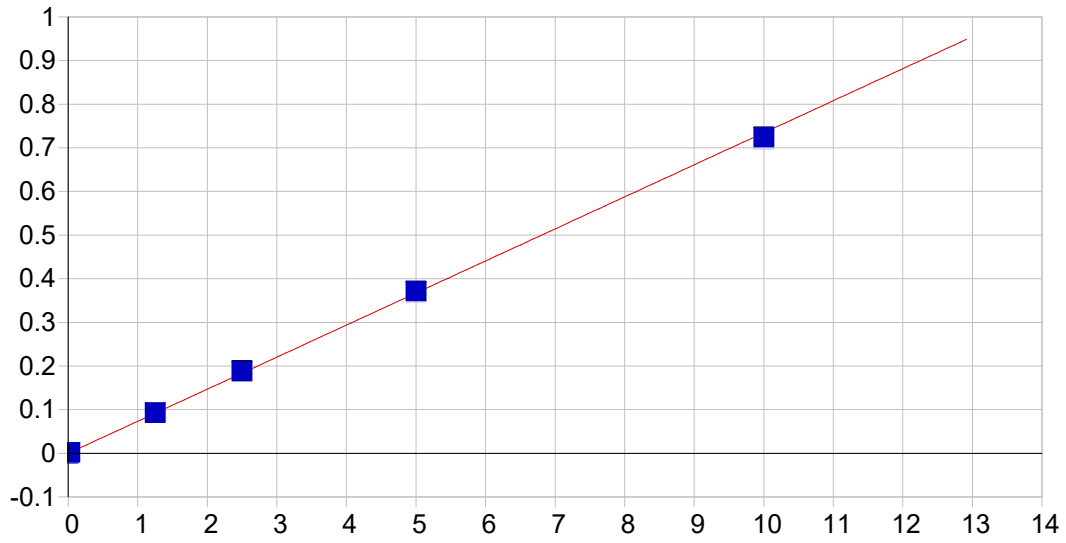
As 189.042 {479}

Date of Fit:	07/03/2024 17:20:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000173	Re-Slope:	1.000000
A1 (Gain):	0.018478	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998846	Status:	OK.
Std Error of Est:	0.000015		
Predicted MDL:	0.008918		
Predicted MQL:	0.029725		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00017	.000	1
S1	.01000	.00961	-.000	-3.85	.00035	.000	1
S2	1.2500	1.1010	-.149	-11.9	.02067	.000	1
S3	2.5000	2.3390	-.161	-6.44	.04370	.000	1
S4	5.0000	4.9267	-.073	-1.47	.09182	.000	1
S5	10.000	10.384	.384	3.84	.19326	.000	1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5



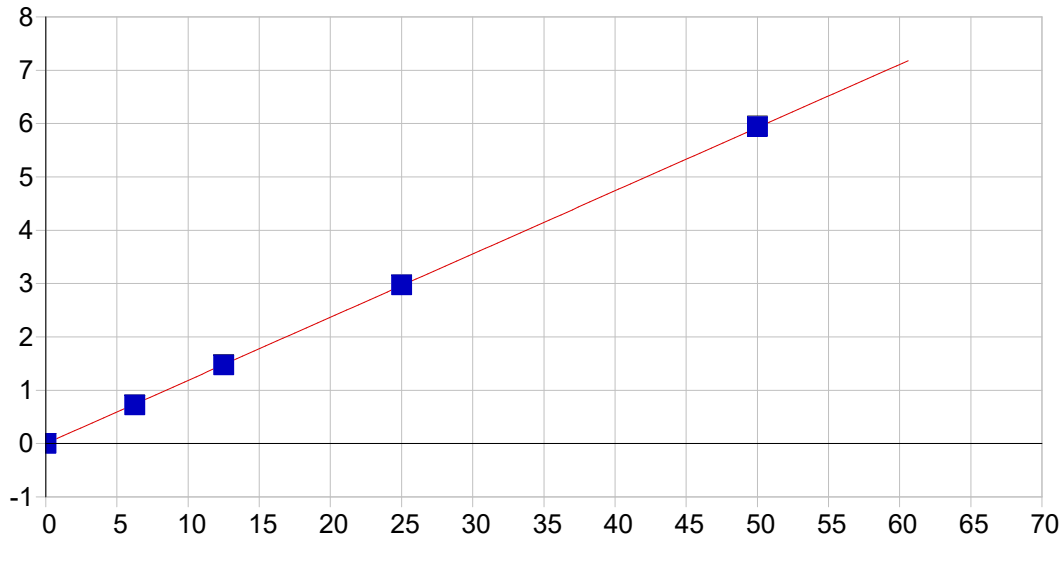
Tl 190.856 {477}

Date of Fit:	07/03/2024 17:20:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000068	Re-Slope:	1.000000
A1 (Gain):	0.073460	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999877	Status:	OK.
Std Error of Est:	0.000030		
Predicted MDL:	0.002096		
Predicted MQL:	0.006988		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00007	.000	1
S1	.02500	.02596	.001	3.85	.00180	.000	1
S2	1.2500	1.2701	.020	1.61	.09260	.000	1
S3	2.5000	2.5645	.064	2.58	.18705	.001	1
S4	5.0000	5.0539	.054	1.08	.36866	.000	1
S5	10.000	9.8606	-.139	-1.39	.71923	.001	1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5



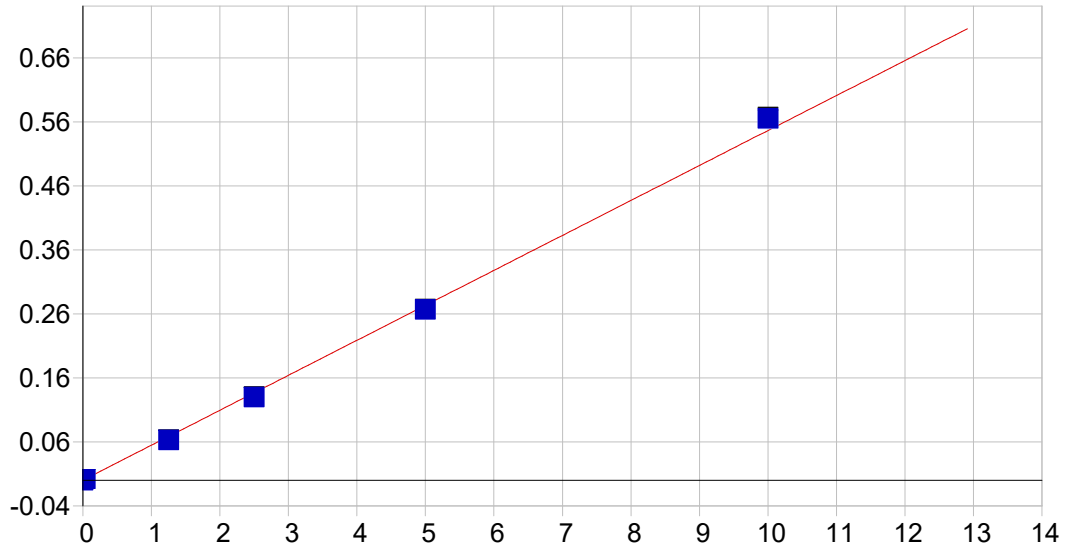
Pb 220.353 {453}

Date of Fit:	07/03/2024 17:20:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000255	Re-Slope:	1.000000
A1 (Gain):	0.118499	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999969	Status:	OK.
Std Error of Est:	0.000035		
Predicted MDL:	0.002395		
Predicted MQL:	0.007984		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00026	.000	1
S1	.01000	.00936	-.001	-6.41	.00086	.000	1
S2	6.2500	6.0822	-.168	-2.68	.72087	.002	1
S3	12.500	12.426	-.074	-.593	1.4730	.006	1
S4	25.000	25.105	.105	.420	2.9762	.006	1
S5	50.000	50.137	.137	.275	5.9441	.009	1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5



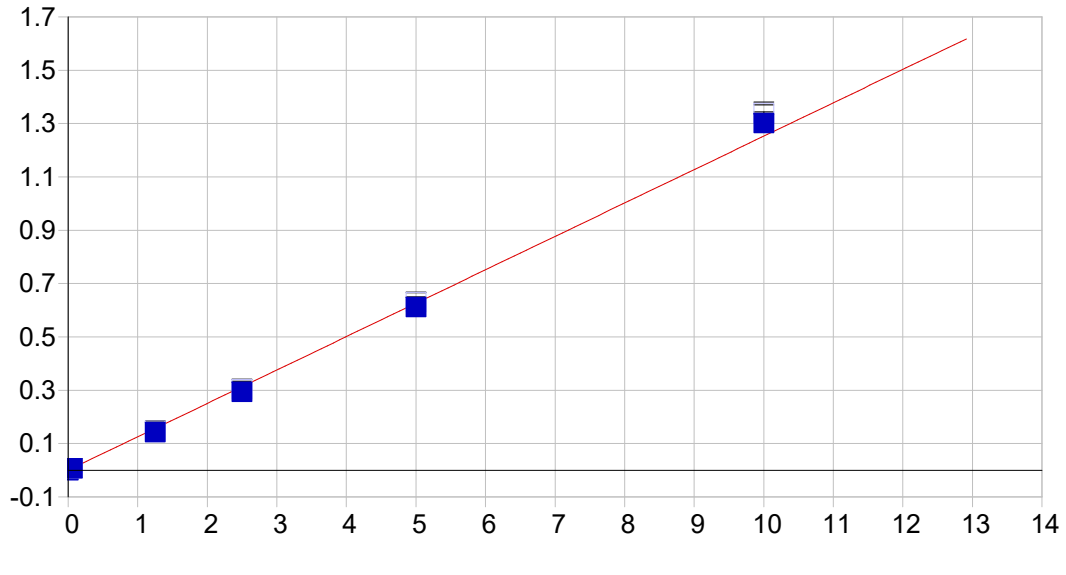
Se 196.090 {472}

Date of Fit:	07/03/2024 17:20:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000191	Re-Slope:	1.000000
A1 (Gain):	0.054616	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999203	Status:	OK.
Std Error of Est:	0.000068		
Predicted MDL:	0.004956		
Predicted MQL:	0.016520		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00019	.000	1
S1	.03500	.03249	-.003	-7.18	.00196	.000	1
S2	1.2500	1.1450	-.105	-8.40	.06259	.000	1
S3	2.5000	2.3752	-.125	-4.99	.12965	.000	1
S4	5.0000	4.8859	-.114	-2.28	.26652	.000	1
S5	10.000	10.346	.346	3.46	.56423	.002	1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5



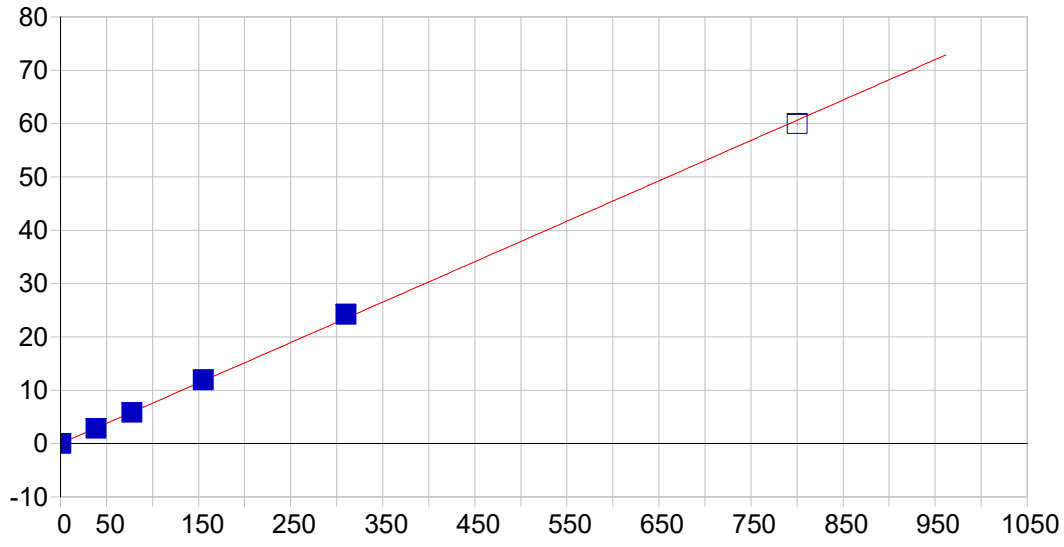
Sb 206.833 {463}

Date of Fit:	07/03/2024 17:20:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000138	Re-Slope:	1.000000
A1 (Gain):	0.125248	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999038	Status:	OK.
Std Error of Est:	0.000233		
Predicted MDL:	0.002500		
Predicted MQL:	0.008333		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00014	.000	1
S1	.06000	.05666	-.003	-5.56	.00724	.000	1
S2	1.2500	1.1356	-.114	-9.15	.14700	.000	1
S3	2.5000	2.3442	-.156	-6.23	.30299	.001	1
S4	5.0000	4.8823	-.118	-2.35	.63012	.001	1
S5	10.000	10.391	.391	3.91	1.3386	.005	1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5



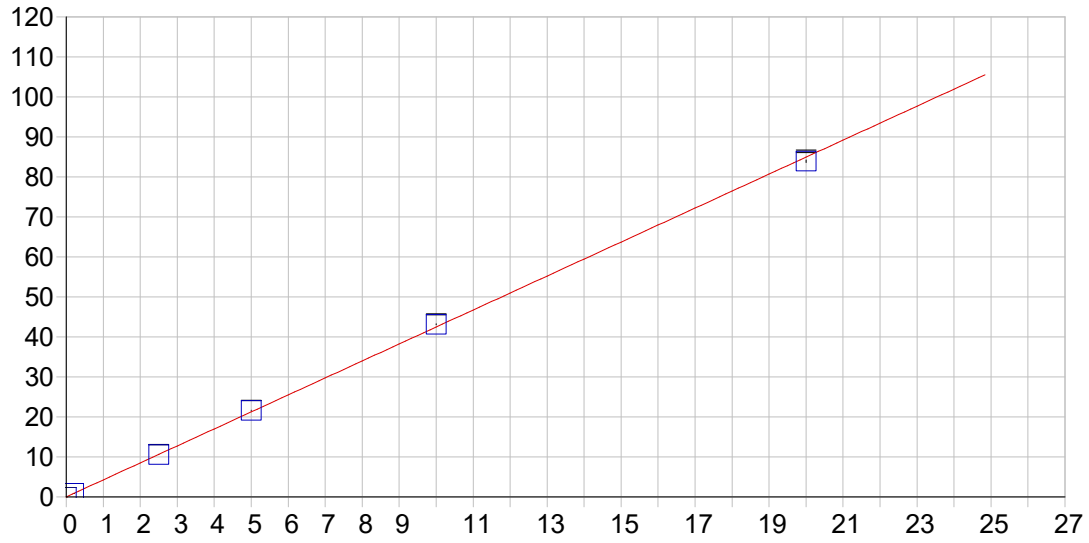
Al 396.152 { 85}

Date of Fit:	07/03/2024 17:20:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002551	Re-Slope:	1.000000
A1 (Gain):	0.075790	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999837	Status:	OK.
Std Error of Est:	0.000851		
Predicted MDL:	0.013805		
Predicted MQL:	0.046017		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00001	-.000	.000	-.00255	.001	1
S1	.20000	.20989	.010	4.94	.01338	.000	1
S2	38.750	37.370	-1.38	-3.56	2.8332	.011	1
S3	77.500	76.898	-.602	-.777	5.8326	.010	1
S4	155.00	156.79	1.79	1.15	11.895	.051	1
S5	310.00	319.21	9.21	2.97	24.218	.064	1
S6	800.00	790.96	-9.04	-1.13	59.944	.022	1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5



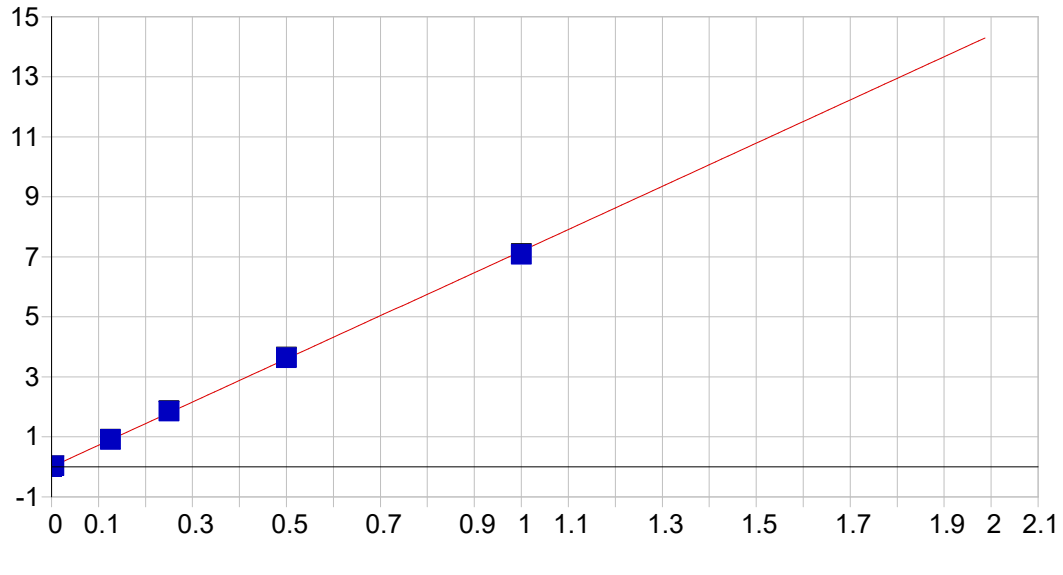
Ba 493.409 { 68}

Date of Fit:	07/03/2024 17:20:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.009191	Re-Slope:	1.000000
A1 (Gain):	4.247162	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999907	Status:	OK.
Std Error of Est:	0.006161		
Predicted MDL:	0.000605		
Predicted MQL:	0.002017		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00917	.002	1
S1	.20000	.20013	.000	.063	.85916	.004	1
S2	2.5000	2.4913	-.009	-.349	10.590	.019	1
S3	5.0000	5.0889	.089	1.78	21.623	.028	1
S4	10.000	10.159	.159	1.59	43.158	.153	1
S5	20.000	19.760	-.240	-1.20	83.935	.303	1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5



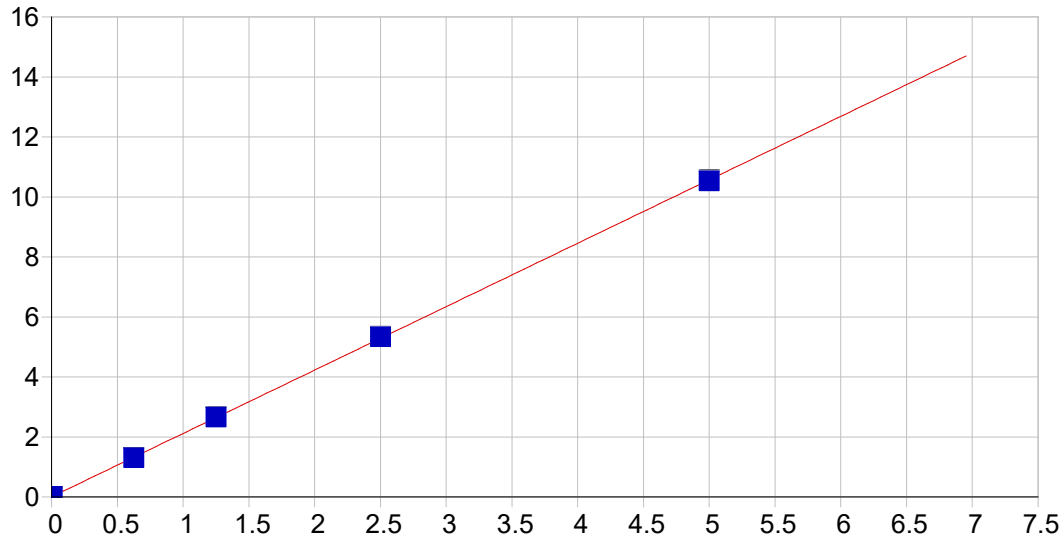
Be 234.861 {144}

Date of Fit:	07/03/2024 17:20:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000286	Re-Slope:	1.000000
A1 (Gain):	7.193411	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999847	Status:	OK.
Std Error of Est:	0.000472		
Predicted MDL:	0.000088		
Predicted MQL:	0.000294		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00028	.000	1
S1	.00500	.00515	.000	2.95	.03729	.001	1
S2	.12500	.12695	.002	1.56	.91208	.004	1
S3	.25000	.25772	.008	3.09	1.8513	.011	1
S4	.50000	.50561	.006	1.12	3.6316	.019	1
S5	1.0000	.98457	-.015	-1.54	7.0711	.023	1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5



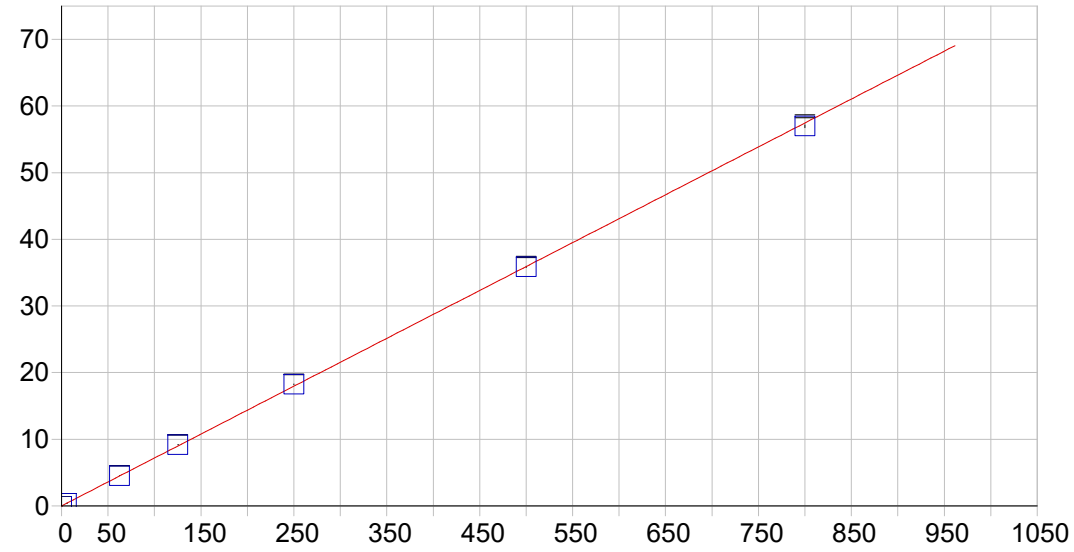
Cd 214.438 {457}

Date of Fit:	07/03/2024 17:20:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000281	Re-Slope:	1.000000
A1 (Gain):	2.113959	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999973	Status:	OK.
Std Error of Est:	0.000131		
Predicted MDL:	0.000100		
Predicted MQL:	0.000333		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00028	.000	1
S1	.00500	.00482	-.000	-3.63	.01048	.000	1
S2	.62500	.61413	-.011	-1.74	1.3017	.002	1
S3	1.2500	1.2565	.007	.521	2.6628	.008	1
S4	2.5000	2.5232	.023	.927	5.3468	.010	1
S5	5.0000	4.9814	-.019	-.373	10.556	.018	1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5



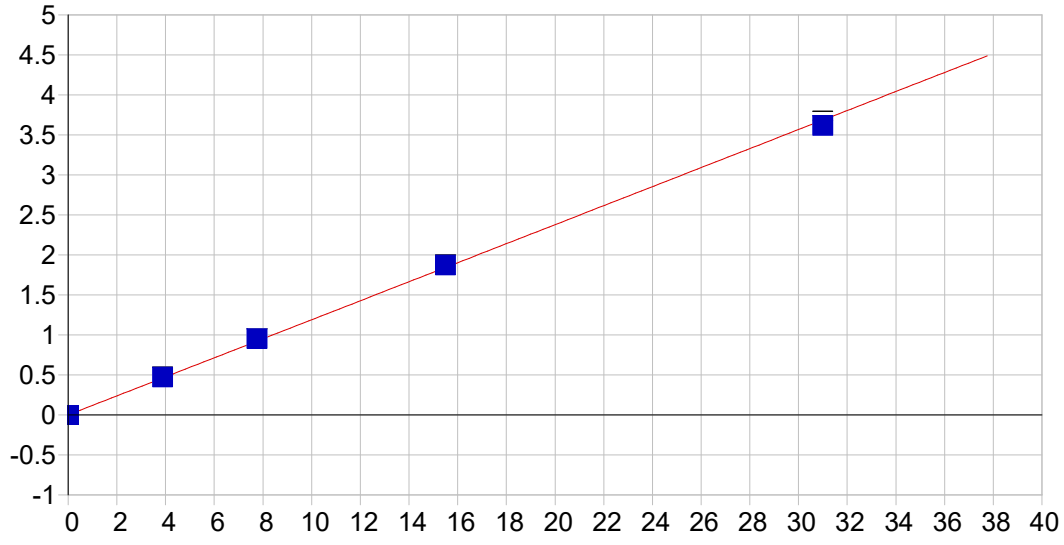
Ca 373.690 { 90}

Date of Fit:	07/03/2024 17:20:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004591	Re-Slope:	1.000000
A1 (Gain):	0.071820	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999944	Status:	OK.
Std Error of Est:	0.002663		
Predicted MDL:	0.013847		
Predicted MQL:	0.046155		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00030	-.000	.000	.00457	.001	1
S1	5.0000	5.1092	.109	2.18	.37154	.001	1
S2	62.500	63.088	.588	.940	4.5355	.010	1
S3	125.00	127.68	2.68	2.14	9.1743	.005	1
S4	250.00	254.24	4.24	1.70	18.264	.045	1
S5	500.00	499.21	-.790	-.158	35.858	.087	1
S6	800.00	793.17	-6.83	-.853	56.970	.229	1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5



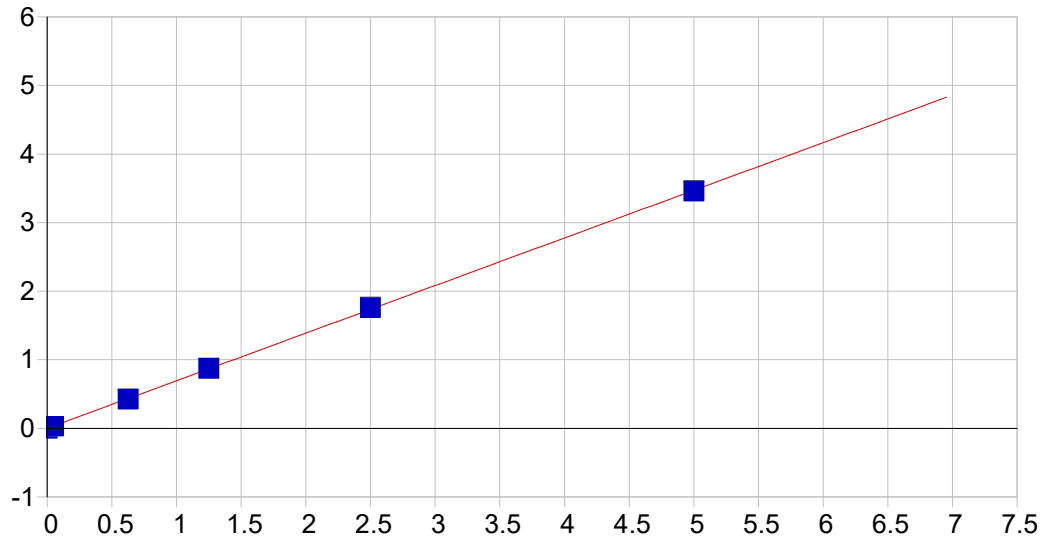
Cr 267.716 {126}

Date of Fit:	07/03/2024 17:20:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000046	Re-Slope:	1.000000
A1 (Gain):	0.118896	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999772	Status:	OK.
Std Error of Est:	0.000075		
Predicted MDL:	0.001080		
Predicted MQL:	0.003599		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00005	.000	1
S1	.01000	.01113	.001	11.3	.00137	.000	1
S2	3.8750	3.9790	.104	2.68	.47343	.000	1
S3	7.7500	8.0063	.256	3.31	.95255	.002	1
S4	15.500	15.736	.236	1.52	1.8722	.004	1
S5	31.000	30.402	-.598	-1.93	3.6171	.056	1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5



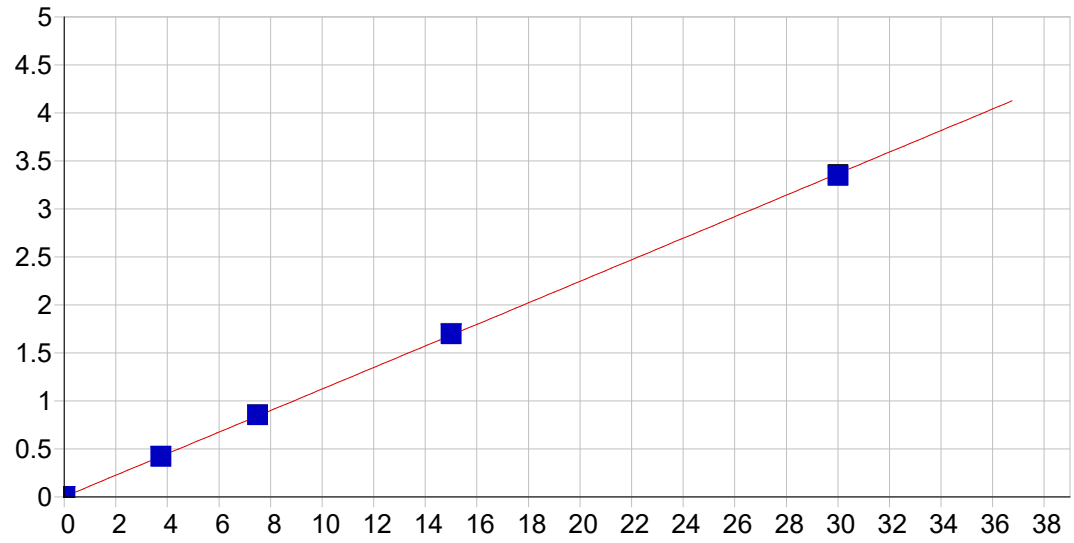
Co 228.616 {448}

Date of Fit:	07/03/2024 17:20:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000183	Re-Slope:	1.000000
A1 (Gain):	0.694204	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999938	Status:	OK.
Std Error of Est:	0.000206		
Predicted MDL:	0.000311		
Predicted MQL:	0.001037		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00018	.000	1
S1	.05000	.04604	-.004	-7.93	.03190	.001	1
S2	.62500	.61114	-.014	-2.22	.42460	.001	1
S3	1.2500	1.2562	.006	.497	.87295	.003	1
S4	2.5000	2.5330	.033	1.32	1.7603	.005	1
S5	5.0000	4.9787	-.021	-.427	3.4603	.005	1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5



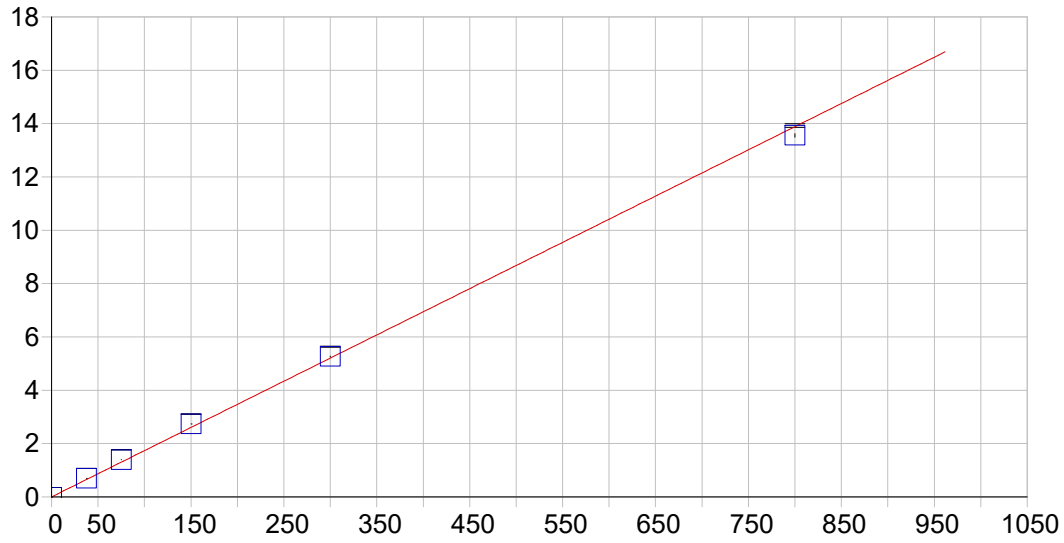
Cu 324.754 {104}

Date of Fit:	07/03/2024 17:20:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001815	Re-Slope:	1.000000
A1 (Gain):	0.112192	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999965	Status:	OK.
Std Error of Est:	0.000043		
Predicted MDL:	0.004538		
Predicted MQL:	0.015126		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00181	.000	1
S1	.02500	.02892	.004	15.7	.00506	.000	1
S2	3.7500	3.7396	-.010	-.277	.42110	.002	1
S3	7.5000	7.5884	.088	1.18	.85264	.001	1
S4	15.000	15.119	.119	.793	1.6970	.006	1
S5	30.000	29.799	-.201	-.670	3.3429	.010	1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5



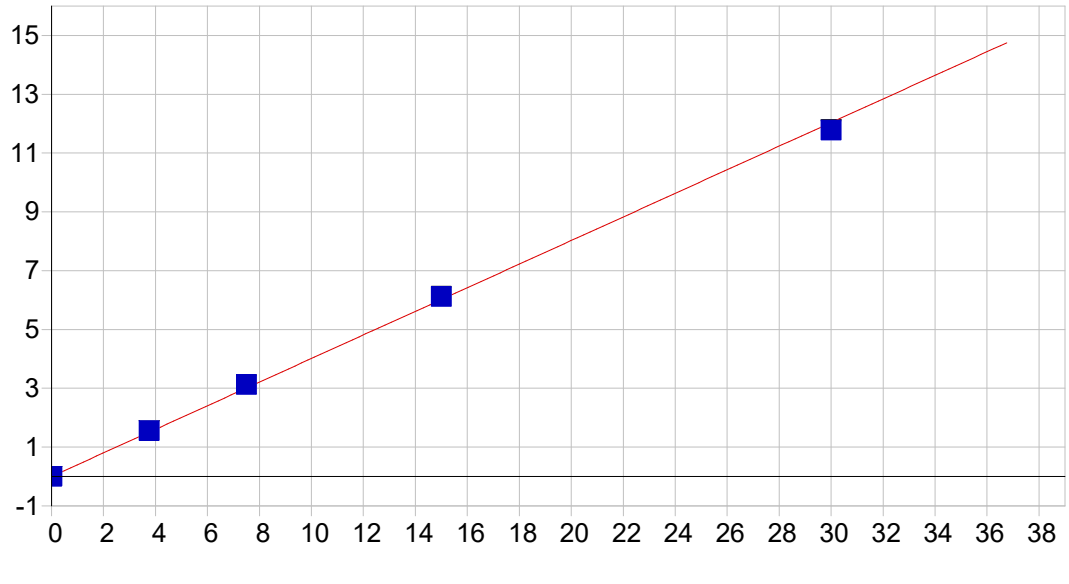
Fe 259.837 {130}

Date of Fit:	07/03/2024 17:20:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000238	Re-Slope:	1.000000
A1 (Gain):	0.017355	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999464	Status:	OK.
Std Error of Est:	0.000248		
Predicted MDL:	0.017169		
Predicted MQL:	0.057230		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00002	-.000	.000	.00024	.000	1
S1	.10000	.10158	.002	1.58	.00200	.000	1
S2	37.500	40.070	2.57	6.85	.69564	.001	1
S3	75.000	80.509	5.51	7.35	1.3974	.002	1
S4	150.00	157.69	7.69	5.13	2.7369	.004	1
S5	300.00	303.23	3.23	1.08	5.2627	.015	1
S6	800.00	781.00	-19.0	-2.38	13.554	.064	1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5



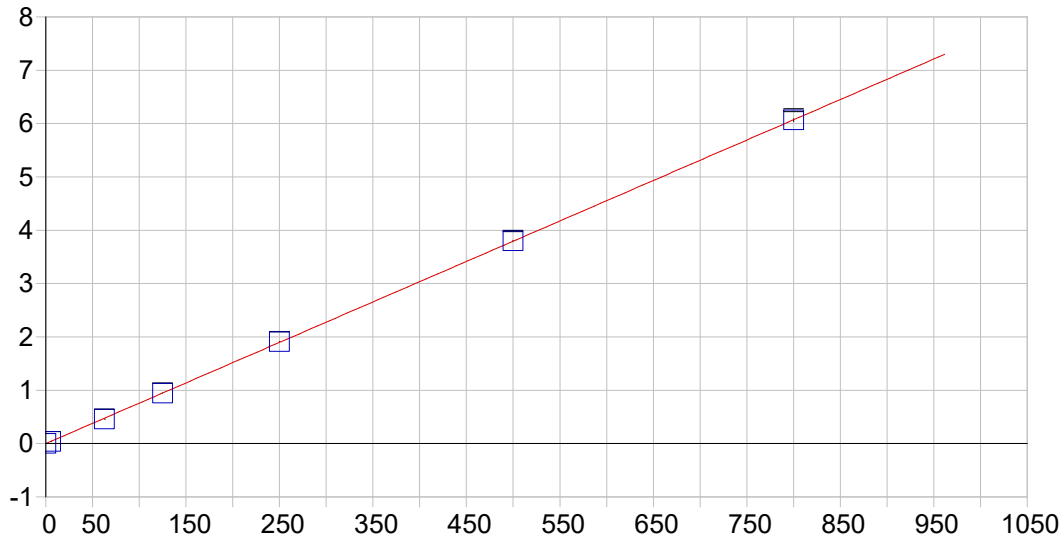
Mn 257.610 {131}

Date of Fit:	07/03/2024 17:20:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000032	Re-Slope:	1.000000
A1 (Gain):	0.401267	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999709	Status:	OK.
Std Error of Est:	0.000344		
Predicted MDL:	0.000745		
Predicted MQL:	0.002484		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00003	.000	1
S1	.01500	.01679	.002	11.9	.00678	.000	1
S2	3.7500	3.8815	.132	3.51	1.5578	.004	1
S3	7.5000	7.7785	.278	3.71	3.1217	.003	1
S4	15.000	15.234	.234	1.56	6.1139	.012	1
S5	30.000	29.354	-.646	-2.15	11.781	.019	1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5



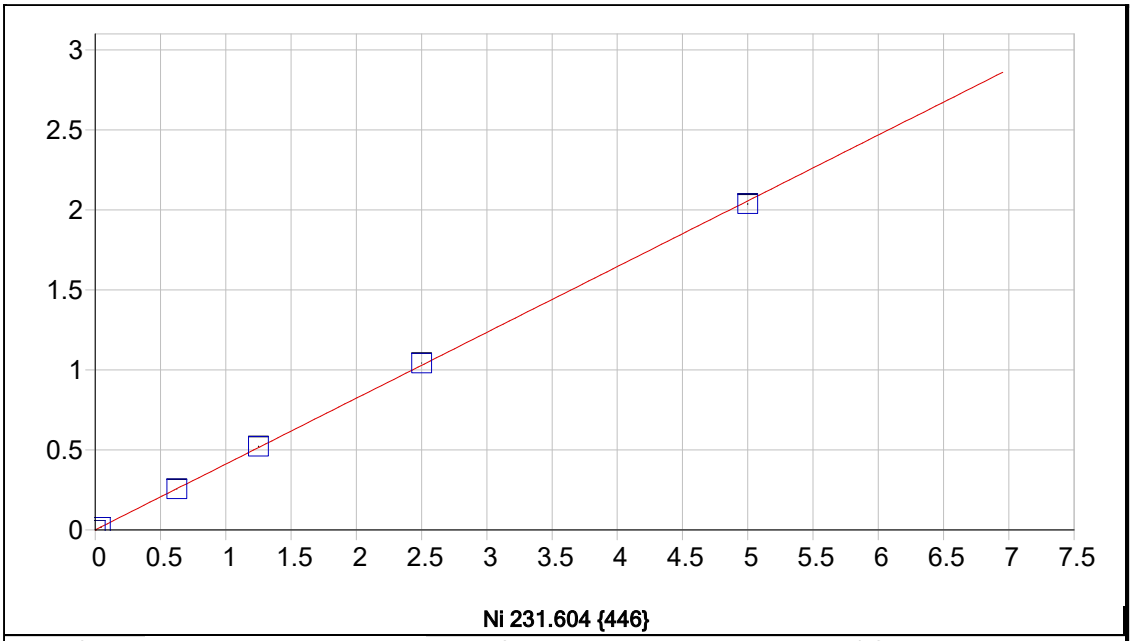
Mg 279.079 {121}

Date of Fit:	07/03/2024 17:20:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000653	Re-Slope:	1.000000
A1 (Gain):	0.007590	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999974	Status:	OK.
Std Error of Est:	0.000189		
Predicted MDL:	0.047337		
Predicted MQL:	0.157789		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00024	.000	.000	-.00065	.000	1
S1	5.0000	4.8884	-.112	-2.23	.03645	.000	1
S2	62.500	60.442	-2.06	-3.29	.45809	.001	1
S3	125.00	124.81	-.189	-.151	.94664	.003	1
S4	250.00	252.05	2.05	.820	1.9124	.005	1
S5	500.00	500.78	.782	.156	3.8002	.010	1
S6	800.00	799.53	-.472	-.059	6.0676	.027	1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5



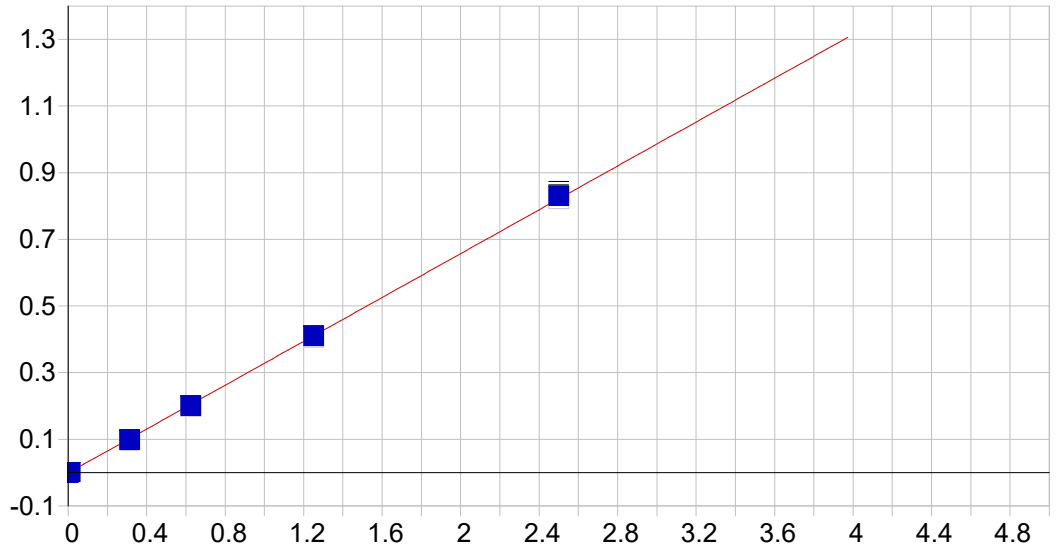
Ni 231.604 {446}

Date of Fit:	07/03/2024 17:20:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000302	Re-Slope:	1.000000
A1 (Gain):	0.411307	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999934	Status:	OK.
Std Error of Est:	0.000112		
Predicted MDL:	0.000551		
Predicted MQL:	0.001837		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00030	.000	1
S1	.04000	.03893	-.001	-2.66	.01632	.000	1
S2	.62500	.62061	-.004	-.702	.25556	.001	1
S3	1.2500	1.2683	.018	1.47	.52197	.002	1
S4	2.5000	2.5343	.034	1.37	1.0427	.001	1
S5	5.0000	4.9529	-.047	-.943	2.0374	.003	1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5



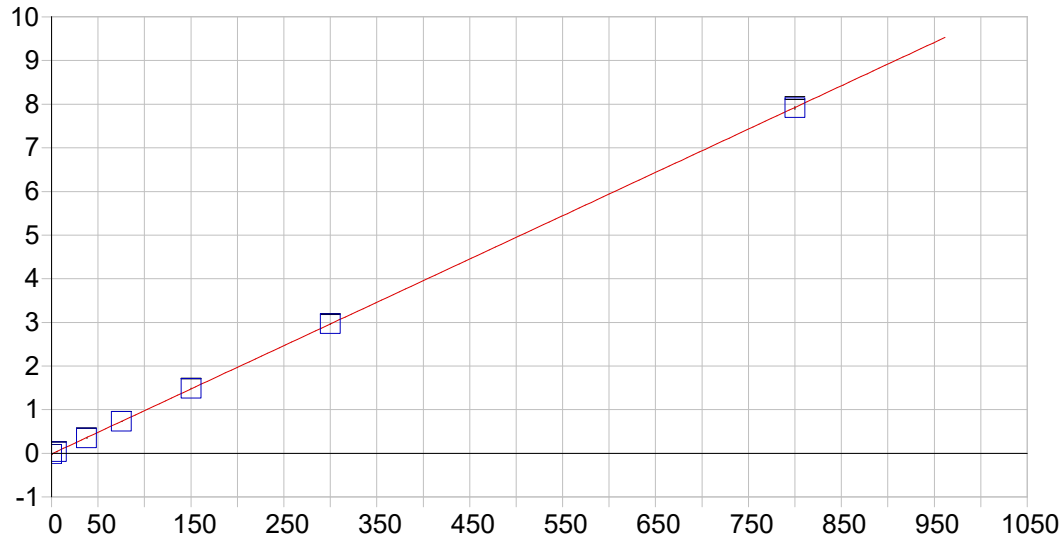
Ag 328.068 {103}

Date of Fit:	07/03/2024 17:20:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000992	Re-Slope:	1.000000
A1 (Gain):	0.329012	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999889	Status:	OK.
Std Error of Est:	0.000041		
Predicted MDL:	0.000486		
Predicted MQL:	0.001619		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00099	.000	1
S1	.01000	.00960	-.000	-3.98	.00215	.000	1
S2	.31250	.30105	-.011	-3.66	.09682	.001	1
S3	.62500	.61159	-.013	-2.15	.19776	.001	1
S4	1.2500	1.2481	-.002	-.149	.40472	.001	1
S5	2.5000	2.5271	.027	1.08	.82057	.013	1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5



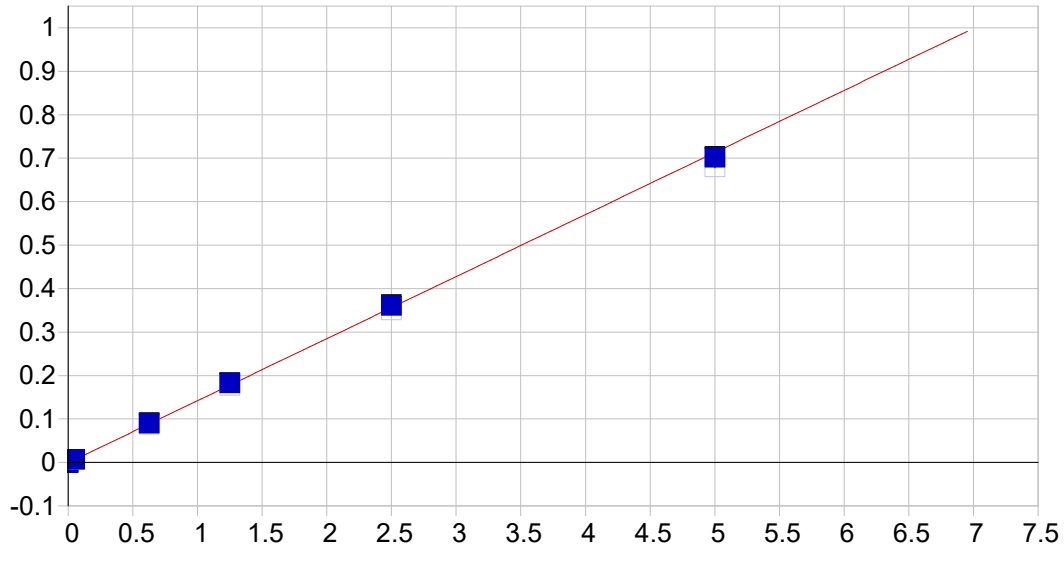
Na 818.326 { 41}

Date of Fit:	07/03/2024 17:20:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.016166	Re-Slope:	1.000000
A1 (Gain):	0.009929	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999992	Status:	OK.
Std Error of Est:	0.000120		
Predicted MDL:	0.240712		
Predicted MQL:	0.802372		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00004	.000	.000	-.01617	.001	1
S1	5.0000	4.9842	-.016	-.317	.03332	.000	1
S2	37.500	36.914	-.586	-1.56	.35035	.002	1
S3	75.000	75.333	.333	.445	.73181	.001	1
S4	150.00	151.12	1.12	.744	1.4843	.008	1
S5	300.00	300.26	.259	.086	2.9651	.010	1
S6	800.00	798.89	-1.11	-.138	7.9160	.033	1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5



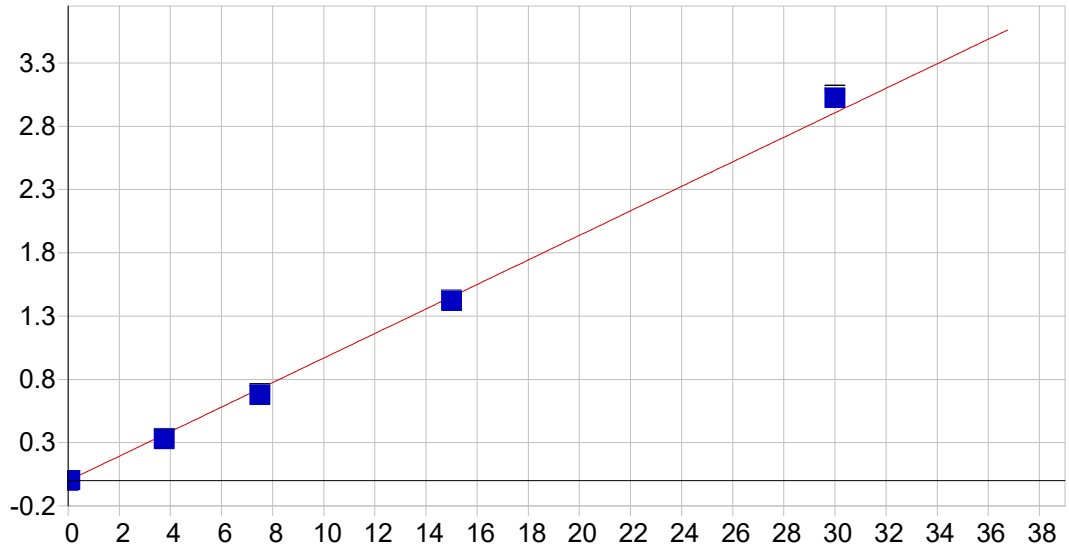
V 292.402 {115}

Date of Fit:	07/03/2024 17:20:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000641	Re-Slope:	1.000000
A1 (Gain):	0.142775	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999829	Status:	OK.
Std Error of Est:	0.000068		
Predicted MDL:	0.003307		
Predicted MQL:	0.011023		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00064	.000	1
S1	.05000	.05286	.003	5.72	.00689	.000	1
S2	.62500	.63646	.011	1.83	.08749	.001	1
S3	1.2500	1.2826	.033	2.60	.17699	.001	1
S4	2.5000	2.5347	.035	1.39	.35028	.002	1
S5	5.0000	4.9184	-.082	-1.63	.67965	.003	1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5



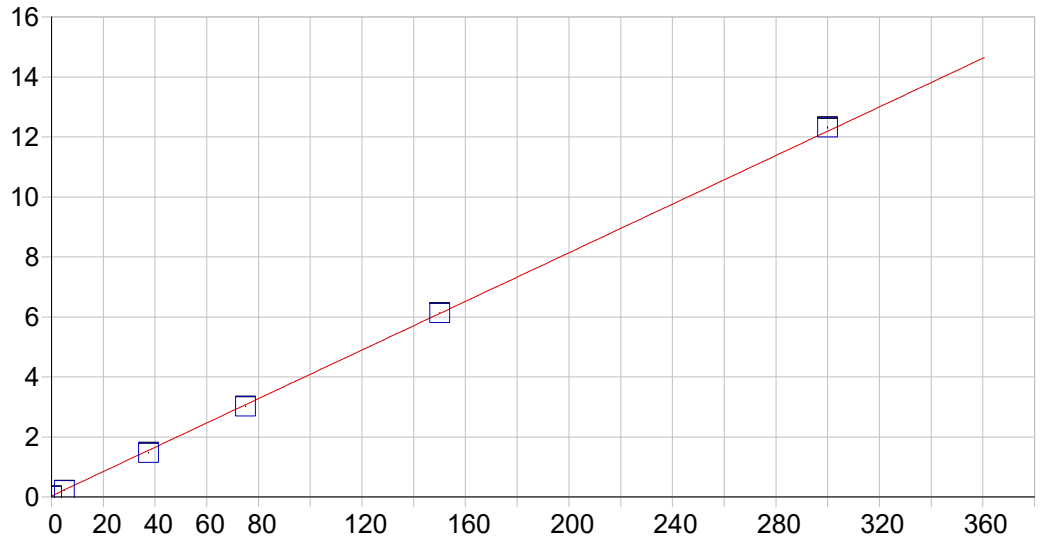
Zn 213.856 {158}

Date of Fit:	07/03/2024 17:20:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000538	Re-Slope:	1.000000
A1 (Gain):	0.096909	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998891	Status:	OK.
Std Error of Est:	0.000325		
Predicted MDL:	0.007626		
Predicted MQL:	0.025422		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00002	.000	.000	-.00054	.000	1
S1	.06000	.05287	-.007	-11.9	.00461	.000	1
S2	3.7500	3.3916	-.358	-9.56	.32858	.006	1
S3	7.5000	6.9897	-.510	-6.80	.67771	.009	1
S4	15.000	14.672	-.328	-2.19	1.4230	.004	1
S5	30.000	31.204	1.20	4.01	3.0270	.021	1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5



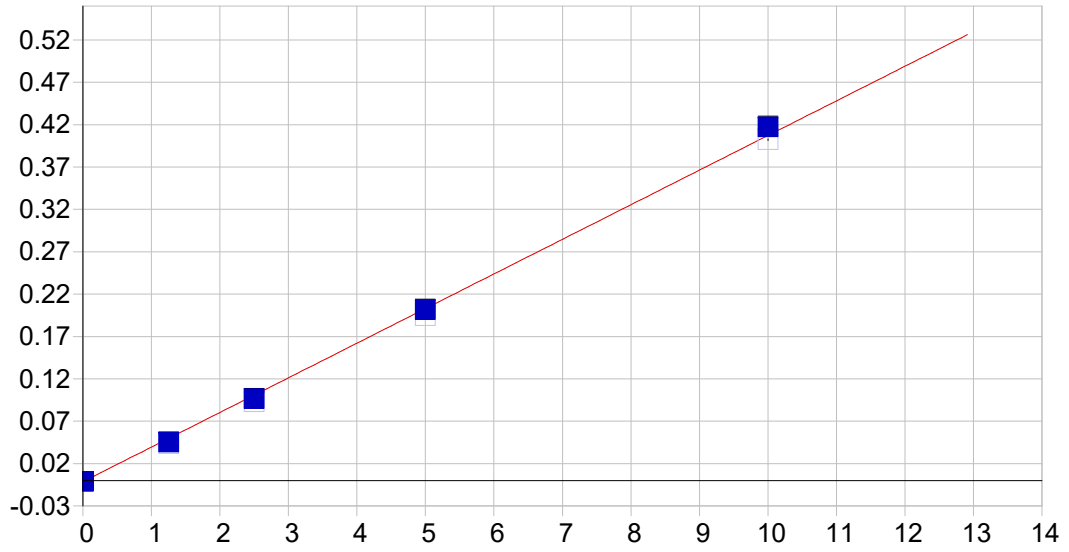
K 769.896 { 44}

Date of Fit:	07/03/2024 17:20:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.034407	Re-Slope:	1.000000
A1 (Gain):	0.040518	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999840	Status:	OK.
Std Error of Est:	0.001493		
Predicted MDL:	0.089148		
Predicted MQL:	0.297159		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00067	.001	.000	.03443	.004	1
S1	5.0000	4.5992	-.401	-8.02	.22075	.003	1
S2	37.500	35.610	-1.89	-5.04	1.4773	.012	1
S3	75.000	73.764	-1.24	-1.65	3.0232	.011	1
S4	150.00	150.42	.415	.277	6.1289	.010	1
S5	300.00	303.11	3.11	1.04	12.316	.029	1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5



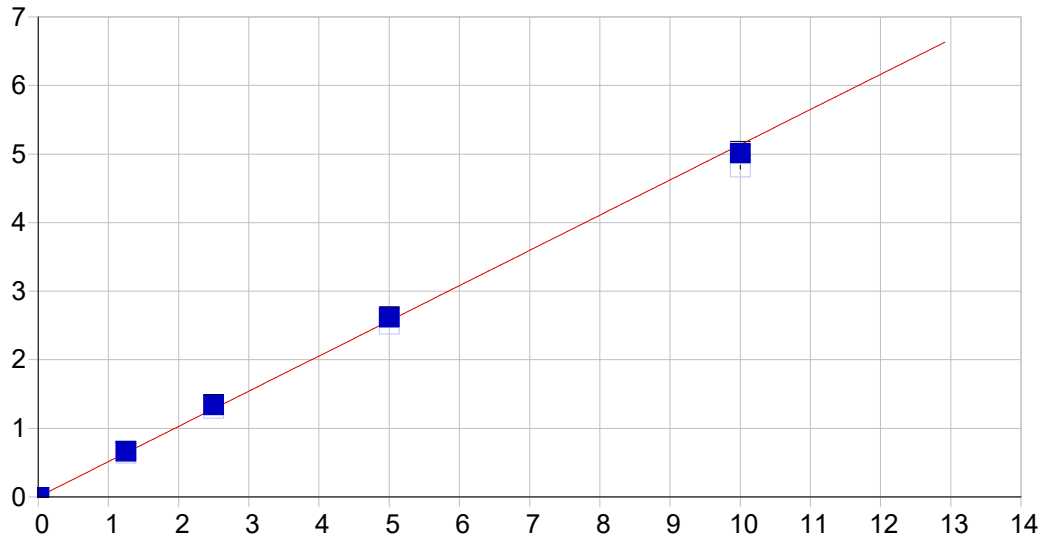
P 177.495 {490}

Date of Fit:	07/03/2024 17:20:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001402	Re-Slope:	1.000000
A1 (Gain):	0.040863	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999411	Status:	OK.
Std Error of Est:	0.000023		
Predicted MDL:	0.003265		
Predicted MQL:	0.010884		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	-.00140	.000	1
S1	.01000	.01027	.000	2.74	-.00099	.000	1
S2	1.2500	1.1395	-.110	-8.84	.04328	.000	1
S3	2.5000	2.3936	-.106	-4.26	.09265	.001	1
S4	5.0000	4.9708	-.029	-.585	.19421	.001	1
S5	10.000	10.246	.246	2.46	.40225	.001	1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5



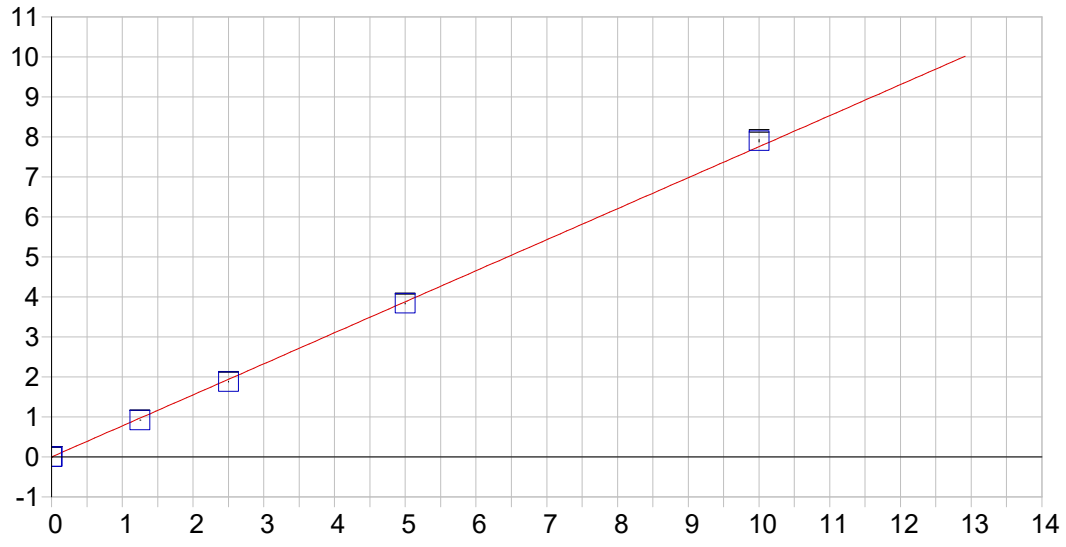
B 249.678 {135}

Date of Fit:	07/03/2024 17:20:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000733	Re-Slope:	1.000000
A1 (Gain):	0.513457	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999393	Status:	OK.
Std Error of Est:	0.000288		
Predicted MDL:	0.001187		
Predicted MQL:	0.003956		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00001	.000	.000	.00074	.000	1
S1	.01000	.00131	-.009	-86.9	.00136	.000	1
S2	1.2500	1.2881	.038	3.05	.63622	.003	1
S3	2.5000	2.6093	.109	4.37	1.2887	.007	1
S4	5.0000	5.0979	.098	1.96	2.5147	.009	1
S5	10.000	9.7637	-.236	-2.36	4.8067	.027	1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5



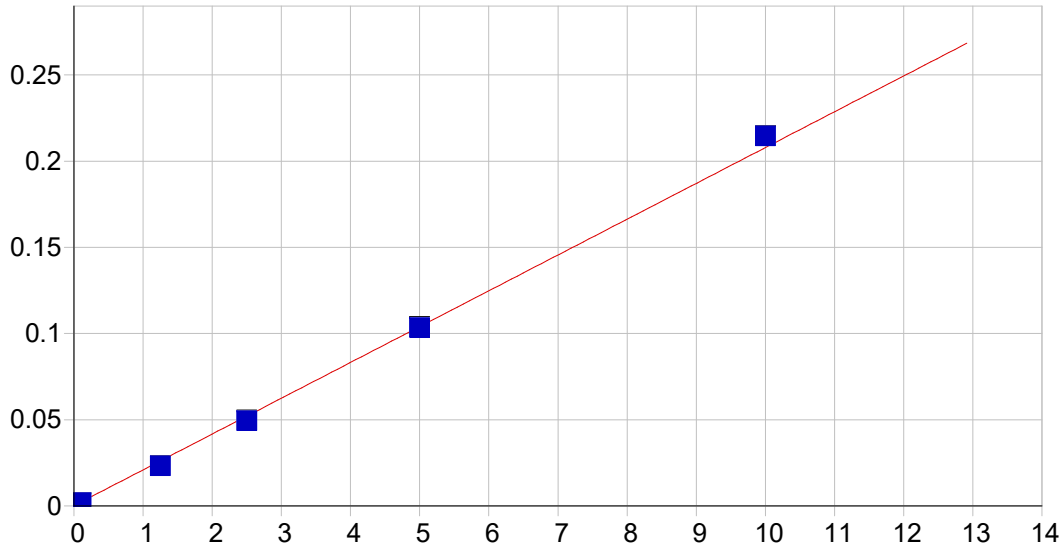
Mo 202.030 {467}

Date of Fit:	07/03/2024 17:20:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000157	Re-Slope:	1.000000
A1 (Gain):	0.775583	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999743	Status:	OK.
Std Error of Est:	0.000295		
Predicted MDL:	0.000388		
Predicted MQL:	0.001293		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00016	.000	1
S1	.01000	.00930	-.001	-7.02	.00737	.000	1
S2	1.2500	1.1868	-.063	-5.06	.92058	.001	1
S3	2.5000	2.4267	-.073	-2.93	1.8823	.009	1
S4	5.0000	4.9458	-.054	-1.08	3.8360	.008	1
S5	10.000	10.191	.191	1.91	7.9045	.028	1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5



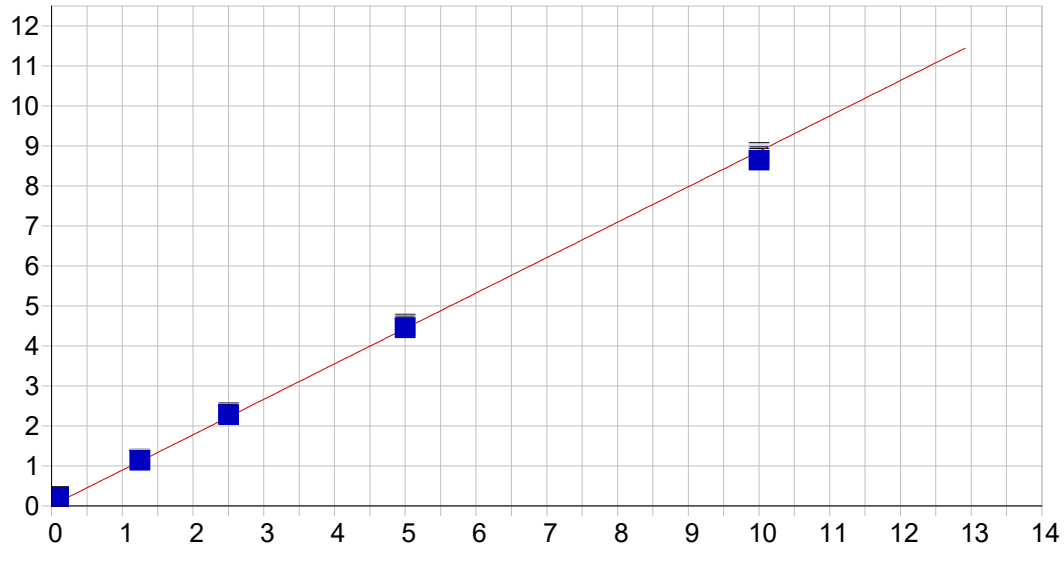
S 182.034 {485}

Date of Fit:	07/03/2024 17:20:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000143	Re-Slope:	1.000000
A1 (Gain):	0.020775	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999001	Status:	OK.
Std Error of Est:	0.000049		
Predicted MDL:	0.005763		
Predicted MQL:	0.019209		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00003	.000	.000	.00014	.000	1
S1	.10000	.07951	-.020	-20.5	.00179	.000	1
S2	1.2500	1.1078	-.142	-11.4	.02316	.000	1
S3	2.5000	2.3678	-.132	-5.29	.04934	.000	1
S4	5.0000	4.9752	-.025	-.496	.10351	.000	1
S5	10.000	10.320	.320	3.20	.21456	.000	1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5



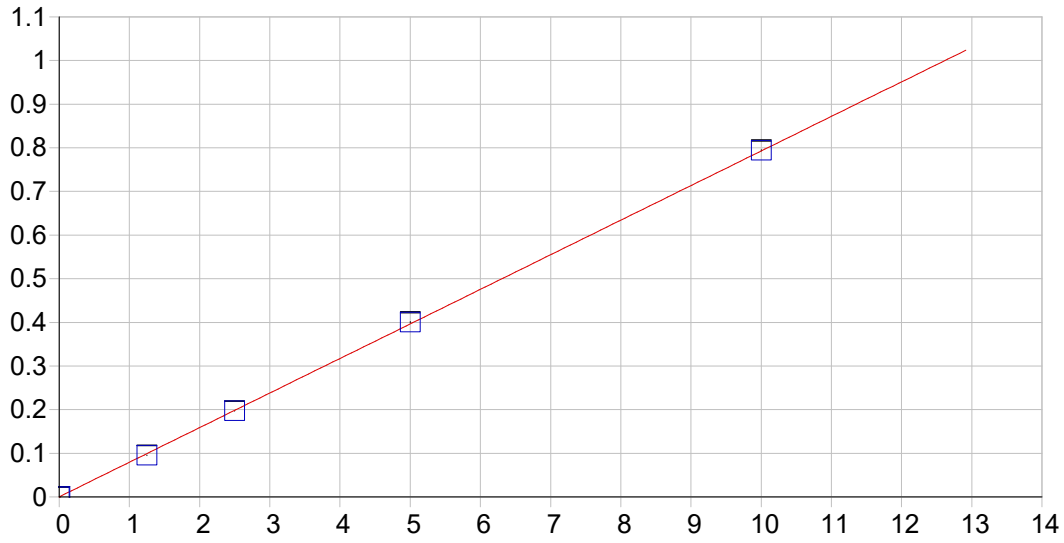
Si 251.611 {134}

Date of Fit:	07/03/2024 17:20:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.007978	Re-Slope:	1.000000
A1 (Gain):	0.885871	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.994287	Status:	OK.
Std Error of Est:	0.005135		
Predicted MDL:	0.000658		
Predicted MQL:	0.002194		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00015	-.000	.000	.00785	.001	1
S1	.10000	.24660	.147	147.	.22703	.002	1
S2	1.2500	1.2771	.027	2.17	1.1572	.008	1
S3	2.5000	2.5688	.069	2.75	2.3194	.012	1
S4	5.0000	5.0160	.016	.320	4.5231	.019	1
S5	10.000	9.7429	-.257	-2.57	8.7821	.051	1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5



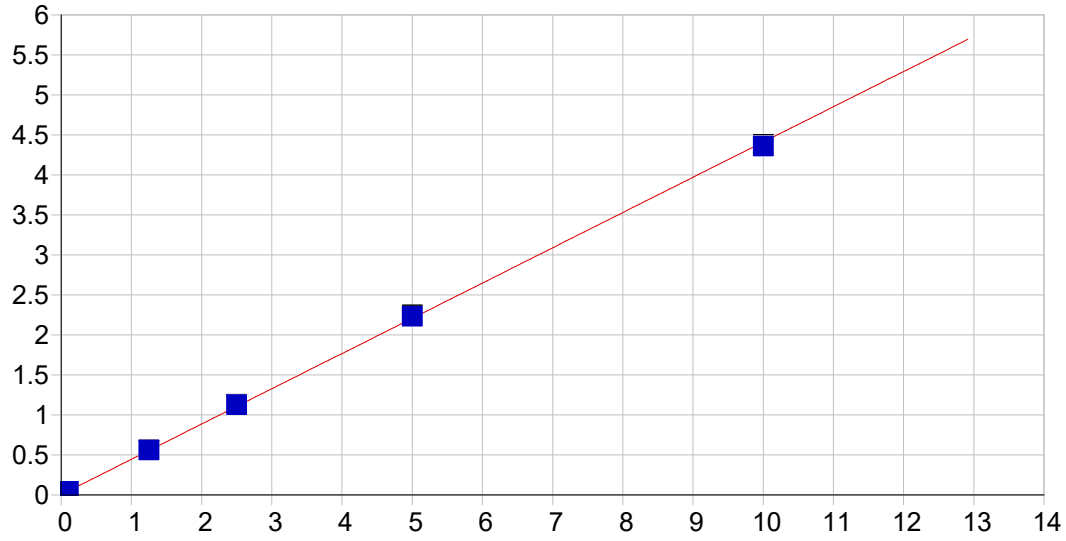
Sn 189.989 {478}

Date of Fit:	07/03/2024 17:20:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000261	Re-Slope:	1.000000
A1 (Gain):	0.079240	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999923	Status:	OK.
Std Error of Est:	0.000014		
Predicted MDL:	0.001503		
Predicted MQL:	0.005011		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	.00026	.000	1
S1	.00700	.00554	-.001	-20.8	.00070	.000	1
S2	1.2500	1.2008	-.049	-3.94	.09541	.000	1
S3	2.5000	2.4826	-.017	-.698	.19698	.001	1
S4	5.0000	5.0483	.048	.967	.40029	.001	1
S5	10.000	10.020	.020	.198	.79424	.001	1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5



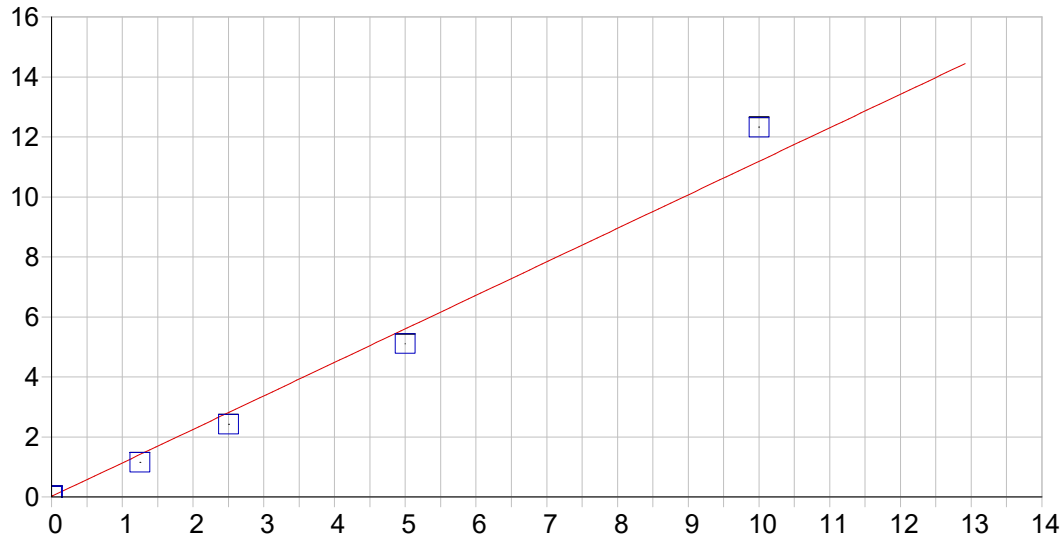
Ti 336.121 {100}

Date of Fit:	07/03/2024 17:20:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004375	Re-Slope:	1.000000
A1 (Gain):	0.440639	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999911	Status:	OK.
Std Error of Est:	0.000312		
Predicted MDL:	0.001427		
Predicted MQL:	0.004756		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.00438	.001	1
S1	.10000	.09732	-.003	-2.68	.04724	.001	1
S2	1.2500	1.2573	.007	.582	.55810	.003	1
S3	2.5000	2.5537	.054	2.15	1.1291	.001	1
S4	5.0000	5.0591	.059	1.18	2.2325	.014	1
S5	10.000	9.8826	-.117	-1.17	4.3569	.021	1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5



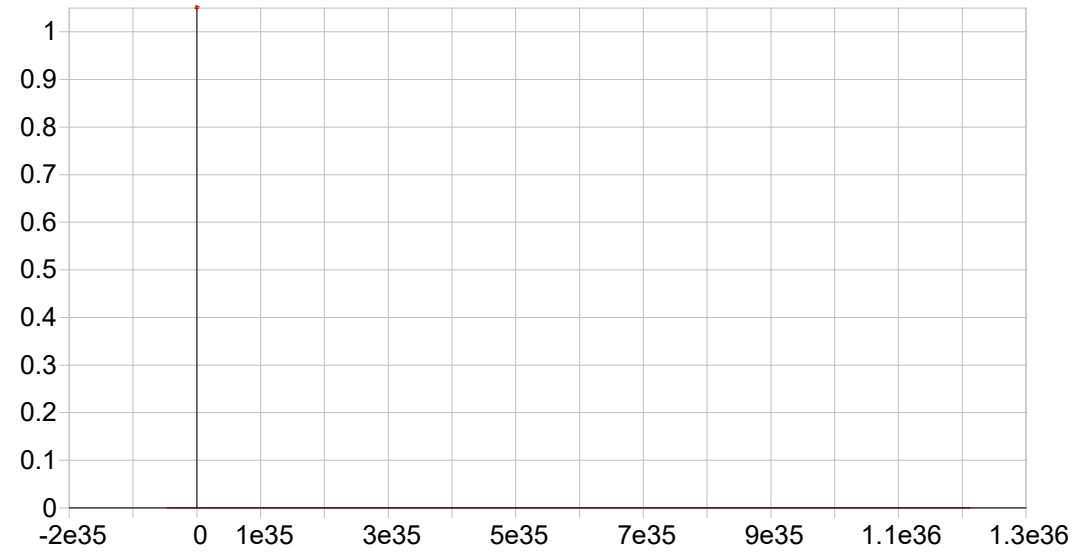
Li 670.784 { 50}

Date of Fit:	07/03/2024 17:20:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.016080	Re-Slope:	1.000000
A1 (Gain):	1.117056	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.993738	Status:	OK.
Std Error of Est:	0.002579		
Predicted MDL:	0.002054		
Predicted MQL:	0.006848		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	.01608	.001	1
S5	10.000	11.018	1.02	10.2	12.324	.016	1
S4	5.0000	4.5577	-.442	-8.85	5.1073	.006	1
S3	2.5000	2.1505	-.349	-14.0	2.4183	.002	1
S2	1.2500	1.0177	-.232	-18.6	1.1529	.001	1
S1	.01500	.02107	.006	40.5	.03962	.003	1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

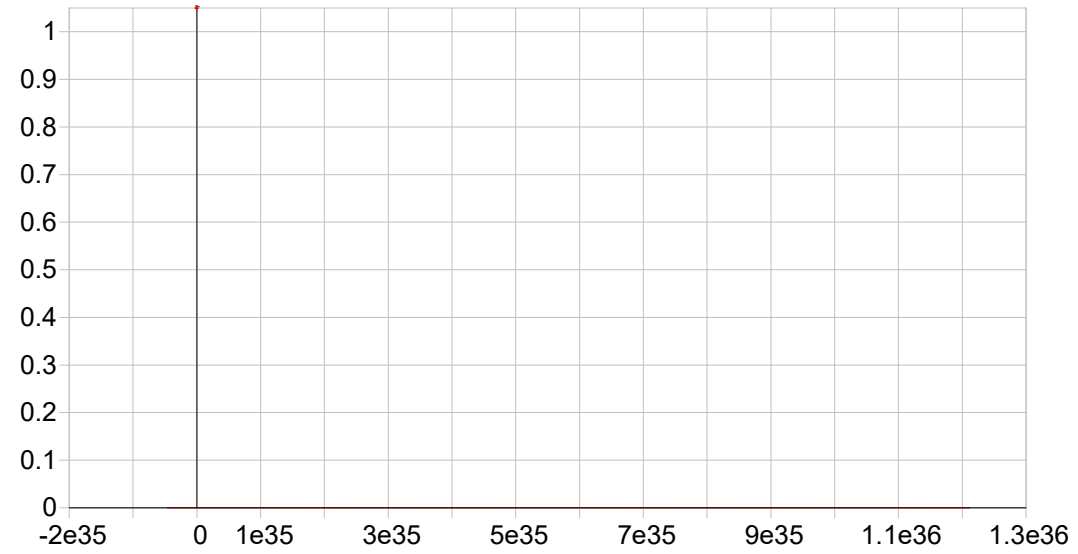


Y 224.306 {450}*

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

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

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



Y 360.073 { 94}*

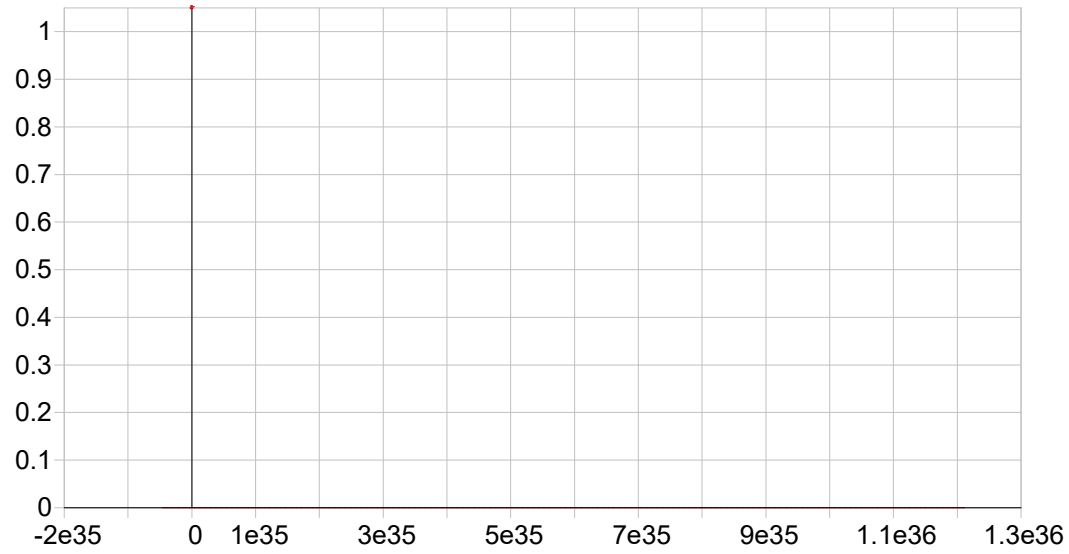
Date of Fit:	<not fit>	Type of Fit:	Linear	Weighting:	1/Conc

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

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

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

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

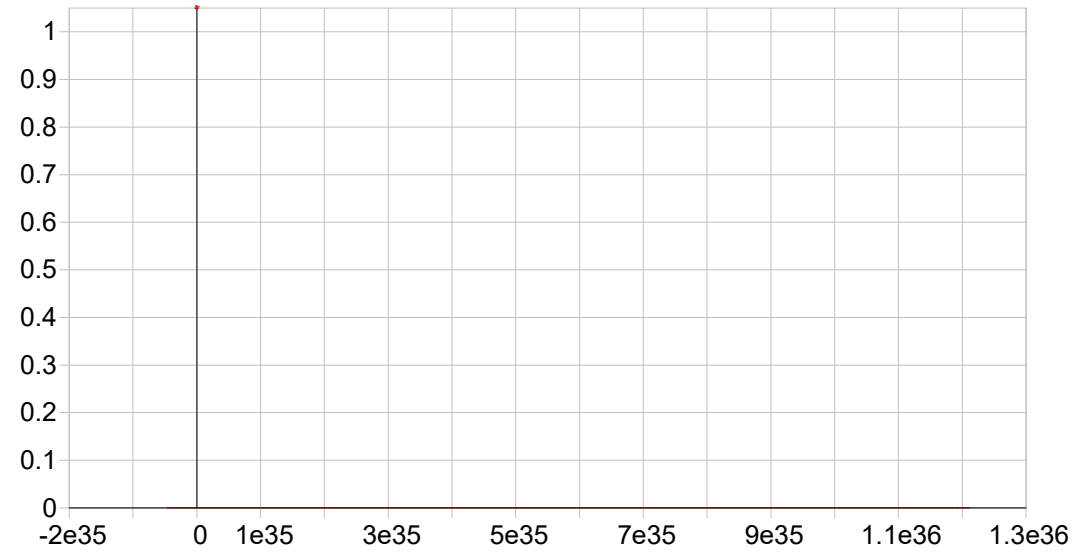


Y 371.030 { 91}*

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

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

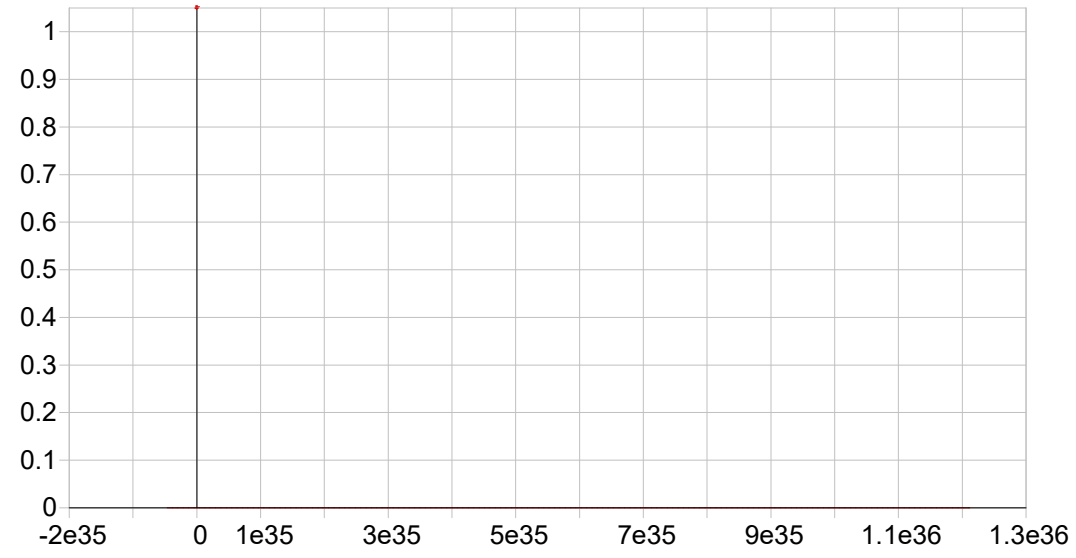
Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5



Y 224.306 {150}*

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

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



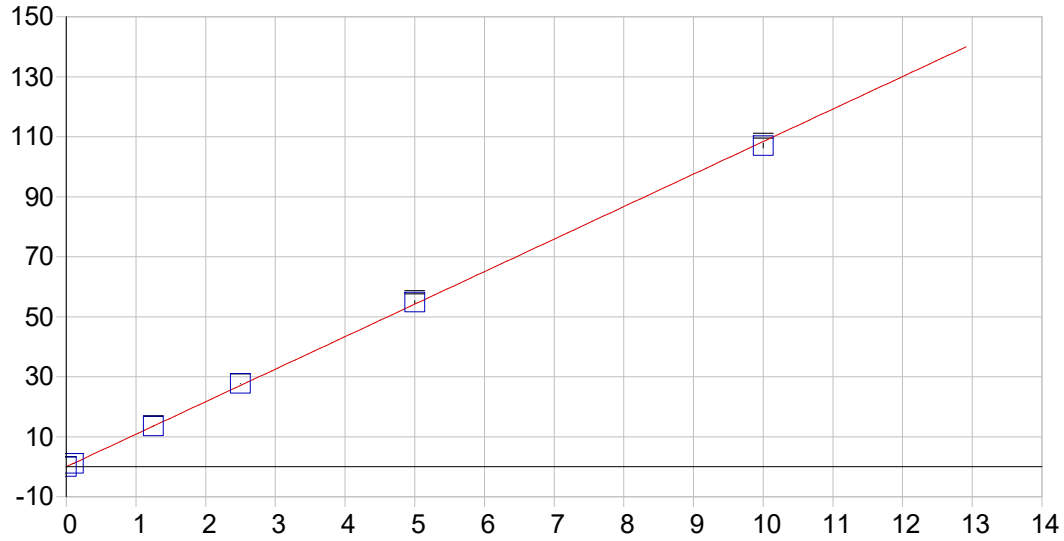
In 230.606 {446}*

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

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

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

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



Sr 407.771 { 83}

Date of Fit:	07/03/2024 17:20:26	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.002159	Re-Slope:	1.000000
A1 (Gain):	10.839059	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999901	Status:	OK.
Std Error of Est:	0.008112		
Predicted MDL:	0.000095		
Predicted MQL:	0.000318		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00000	-.000	.000	-.00219	.001	1
S1	.10000	.10064	.001	.638	1.0887	.004	1
S2	1.2500	1.2514	.001	.110	13.562	.080	1
S3	2.5000	2.5604	.060	2.41	27.750	.063	1
S4	5.0000	5.0612	.061	1.22	54.856	.485	1
S5	10.000	9.8765	-.124	-1.24	107.05	.784	1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: S0 Acquired: 07/03/2024 16:41:05 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) 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	.00017	-.00007	-.00026	.00019	.00014	-.00255	.00917	.00028
Stddev	.00006	.00009	.00032	.00024	.00020	.00083	.00192	.00046
%RSD	34.797	136.77	125.07	125.46	142.91	32.599	20.919	161.69
#1	.00022	-.00001	.00011	.00002	.00005	-.00159	.00856	-.00024
#2	.00019	-.00002	-.00043	.00009	.00037	-.00303	.01133	.00058
#3	.00011	-.00018	-.00045	.00047	.00000	-.00303	.00764	.00052

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	.00028	.00457	.00005	-.00018	.00181	.00024	.00003	-.00065
Stddev	.00010	.00087	.00005	.00024	.00022	.00017	.00030	.00020
%RSD	36.768	19.042	110.95	133.01	12.391	73.258	990.21	31.383
#1	.00022	.00357	.00001	.00004	.00195	.00044	.00027	-.00073
#2	.00023	.00506	.00011	-.00015	.00155	.00012	-.00031	-.00042
#3	.00040	.00509	.00002	-.00043	.00194	.00015	.00014	-.00081

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	.00030	-.00099	-.01617	-.00064	-.00054	.03443	-.00140	.00074
Stddev	.00030	.00015	.00099	.00049	.00040	.00409	.00009	.00044
%RSD	98.222	14.709	6.1395	76.427	74.232	11.871	6.6552	59.867
#1	-.00004	-.00093	-.01508	-.00121	-.00025	.03606	-.00132	.00089
#2	.00049	-.00116	-.01638	-.00040	-.00037	.02978	-.00150	.00108
#3	.00046	-.00089	-.01703	-.00032	-.00099	.03746	-.00139	.00024

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	.00016	.00014	.00785	.00026	.00438	.01608	-.00219
Stddev	.00027	.00012	.00051	.00008	.00059	.00117	.00083
%RSD	168.06	83.884	6.5491	31.541	13.590	7.2850	37.731
#1	.00035	.00002	.00824	.00033	.00369	.01718	-.00152
#2	-.00015	.00015	.00803	.00029	.00479	.01485	-.00312
#3	.00027	.00026	.00727	.00017	.00464	.01620	-.00194

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: S0 Acquired: 07/03/2024 16:41:05 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) 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	1459.6	32152.	4064.6	1022.4	2793.5
Stddev	3.8	129.	9.6	2.6	6.8
%RSD	.26167	.40224	.23637	.25441	.24223
#1	1460.4	32186.	4072.3	1021.5	2796.2
#2	1463.1	32009.	4067.7	1020.4	2798.5
#3	1455.5	32261.	4053.8	1025.3	2785.8

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: S1 Acquired: 07/03/2024 16:45:41 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) 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	.00035	.00180	.00086	.00196	.00724	.01338	.85916	.03729
Stddev	.00013	.00011	.00009	.00015	.00018	.00030	.00434	.00127
%RSD	36.511	6.0778	10.805	7.7231	2.4515	2.2223	.50522	3.3922
#1	.00020	.00170	.00075	.00188	.00704	.01308	.86329	.03611
#2	.00041	.00192	.00093	.00187	.00729	.01367	.85955	.03863
#3	.00043	.00178	.00089	.00214	.00738	.01340	.85464	.03714

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	.01048	.37154	.00137	.03190	.00506	.00200	.00678	.03645
Stddev	.00007	.00053	.00014	.00052	.00011	.00024	.00015	.00011
%RSD	.69997	.14325	9.9265	1.6389	2.1878	11.744	2.2167	.31198
#1	.01040	.37207	.00152	.03130	.00499	.00205	.00693	.03634
#2	.01054	.37100	.00133	.03214	.00500	.00221	.00680	.03644
#3	.01049	.37154	.00126	.03225	.00519	.00175	.00663	.03656

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	.01632	.00215	.03332	.00689	.00461	.22075	-.00099	.00136
Stddev	.00035	.00007	.00039	.00012	.00044	.00301	.00008	.00019
%RSD	2.1631	3.2807	1.1582	1.7249	9.5745	1.3657	8.3625	14.316
#1	.01597	.00222	.03370	.00681	.00411	.22111	-.00093	.00151
#2	.01630	.00208	.03333	.00684	.00481	.22358	-.00096	.00143
#3	.01668	.00214	.03293	.00703	.00492	.21758	-.00109	.00114

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	.00737	.00179	.22703	.00070	.04724	.03962	1.0887
Stddev	.00028	.00009	.00161	.00009	.00066	.00307	.0045
%RSD	3.7536	4.7526	.70715	12.334	1.3886	7.7598	.40918
#1	.00767	.00174	.22560	.00069	.04776	.03776	1.0937
#2	.00713	.00175	.22671	.00079	.04746	.04317	1.0869
#3	.00731	.00189	.22877	.00062	.04650	.03793	1.0854

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: S1 Acquired: 07/03/2024 16:45:41 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) 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	1456.8	31817.	4067.4	1018.2	2770.2
Stddev	12.8	61.	8.1	2.4	27.1
%RSD	.88005	.19257	.19969	.23554	.97689
#1	1471.6	31882.	4074.9	1019.3	2801.2
#2	1450.3	31760.	4058.8	1015.5	2758.5
#3	1448.6	31809.	4068.7	1019.9	2751.0

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: S2 Acquired: 07/03/2024 16:50:13 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) 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	.02067	.09260	.72087	.06259	.14700	2.8332	10.590	.91208
Stddev	.00020	.00017	.00207	.00013	.00022	.0105	.019	.00436
%RSD	.98523	.17933	.28778	.20217	.14877	.37113	.18199	.47798
#1	.02059	.09279	.71869	.06272	.14717	2.8301	10.602	.90704
#2	.02052	.09250	.72110	.06259	.14707	2.8450	10.600	.91446
#3	.02090	.09251	.72281	.06247	.14675	2.8247	10.568	.91473

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.3017	4.5355	.47343	.42460	.42110	.69564	1.5578	.45809
Stddev	.0024	.0099	.00019	.00082	.00179	.00090	.0037	.00085
%RSD	.18773	.21822	.04113	.19364	.42397	.12975	.23412	.18659
#1	1.2993	4.5446	.47360	.42402	.41968	.69608	1.5596	.45755
#2	1.3017	4.5371	.47322	.42425	.42311	.69623	1.5602	.45907
#3	1.3042	4.5250	.47347	.42554	.42052	.69460	1.5536	.45764

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	.25556	.09682	.35035	.08749	.32858	1.4773	.04328	.63622
Stddev	.00082	.00055	.00238	.00098	.00591	.0118	.00022	.00337
%RSD	.31906	.56905	.67896	1.1245	1.7994	.80039	.51191	.52927
#1	.25467	.09743	.34816	.08737	.33190	1.4636	.04308	.63234
#2	.25626	.09667	.35003	.08853	.33209	1.4849	.04325	.63796
#3	.25577	.09636	.35288	.08657	.32175	1.4832	.04352	.63836

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	.92058	.02316	1.1572	.09541	.55810	1.1529	13.562
Stddev	.00149	.00027	.0084	.00048	.00250	.0014	.080
%RSD	.16176	1.1794	.72978	.50460	.44850	.11983	.58981
#1	.91889	.02291	1.1481	.09485	.55523	1.1527	13.480
#2	.92169	.02311	1.1590	.09571	.55982	1.1544	13.640
#3	.92117	.02345	1.1647	.09566	.55926	1.1517	13.564

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: S2 Acquired: 07/03/2024 16:50:13 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) 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	1374.1	30475.	4018.3	961.14	2460.3
Stddev	4.0	102.	21.1	8.53	4.2
%RSD	.28883	.33585	.52628	.88779	.17167
#1	1376.6	30357.	4038.7	952.82	2465.0
#2	1369.6	30535.	4019.8	960.73	2456.7
#3	1376.3	30533.	3996.5	969.87	2459.4

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: S3 Acquired: 07/03/2024 16:54:30 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) 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	.04370	.18705	1.4730	.12965	.30299	5.8326	21.623	1.8513
Stddev	.00023	.00117	.0062	.00041	.00138	.0103	.028	.0112
%RSD	.52492	.62512	.41737	.31939	.45439	.17716	.12812	.60285
#1	.04350	.18634	1.4713	.12932	.30187	5.8255	21.591	1.8641
#2	.04364	.18641	1.4679	.12953	.30257	5.8277	21.637	1.8462
#3	.04395	.18840	1.4798	.13012	.30453	5.8444	21.640	1.8435

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	2.6628	9.1743	.95255	.87295	.85264	1.3974	3.1217	.94664
Stddev	.0081	.0051	.00236	.00326	.00082	.0017	.0026	.00303
%RSD	.30608	.05527	.24805	.37354	.09607	.12430	.08379	.31959
#1	2.6581	9.1685	.95224	.87025	.85291	1.3969	3.1216	.94390
#2	2.6582	9.1772	.95505	.87201	.85172	1.3960	3.1244	.94988
#3	2.6723	9.1773	.95036	.87657	.85329	1.3994	3.1192	.94613

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	.52197	.19776	.73181	.17699	.67771	3.0232	.09265	1.2887
Stddev	.00231	.00081	.00106	.00115	.00876	.0110	.00056	.0071
%RSD	.44168	.40781	.14552	.64870	1.2928	.36375	.60666	.55278
#1	.52082	.19687	.73220	.17681	.66771	3.0350	.09257	1.2962
#2	.52046	.19845	.73263	.17595	.68405	3.0212	.09213	1.2877
#3	.52462	.19795	.73061	.17822	.68137	3.0133	.09325	1.2821

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	1.8823	.04934	2.3194	.19698	1.1291	2.4183	27.750
Stddev	.0094	.00044	.0119	.00061	.0010	.0020	.063
%RSD	.50129	.89195	.51395	.31152	.09327	.08290	.22638
#1	1.8772	.04891	2.3320	.19653	1.1300	2.4191	27.818
#2	1.8764	.04932	2.3179	.19673	1.1293	2.4198	27.738
#3	1.8932	.04979	2.3083	.19768	1.1279	2.4160	27.694

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: S3 Acquired: 07/03/2024 16:54:30 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) 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	1309.9	29612.	3941.7	921.45	2307.4
Stddev	6.2	84.	19.5	8.27	9.1
%RSD	.47618	.28345	.49389	.89703	.39233
#1	1311.9	29687.	3922.1	930.39	2308.6
#2	1314.8	29521.	3942.1	914.09	2315.7
#3	1302.8	29628.	3961.0	919.87	2297.7

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: S4 Acquired: 07/03/2024 16:58:43 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) 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	.09182	.36866	2.9762	.26652	.63012	11.895	43.158	3.6316
Stddev	.00025	.00039	.0064	.00045	.00118	.051	.153	.0194
%RSD	.27662	.10658	.21423	.16940	.18694	.43284	.35444	.53329
#1	.09171	.36852	2.9705	.26629	.62955	11.946	43.291	3.6263
#2	.09163	.36836	2.9750	.26622	.62934	11.894	43.191	3.6530
#3	.09211	.36910	2.9831	.26704	.63148	11.843	42.991	3.6154

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.3468	18.264	1.8722	1.7603	1.6970	2.7369	6.1139	1.9124
Stddev	.0103	.045	.0041	.0052	.0062	.0043	.0121	.0049
%RSD	.19259	.24894	.22082	.29336	.36293	.15588	.19832	.25694
#1	5.3390	18.304	1.8769	1.7548	1.7039	2.7408	6.1153	1.9143
#2	5.3431	18.274	1.8692	1.7610	1.6951	2.7324	6.1252	1.9160
#3	5.3585	18.215	1.8705	1.7651	1.6920	2.7376	6.1011	1.9068

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	1.0427	.40472	1.4843	.35028	1.4230	6.1289	.19421	2.5147
Stddev	.0014	.00131	.0077	.00193	.0040	.0105	.00062	.0092
%RSD	.13728	.32308	.51792	.55196	.28432	.17130	.32011	.36457
#1	1.0412	.40552	1.4906	.34911	1.4264	6.1390	.19364	2.5105
#2	1.0428	.40542	1.4864	.35251	1.4186	6.1295	.19410	2.5252
#3	1.0441	.40321	1.4757	.34922	1.4241	6.1181	.19487	2.5084

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.8360	.10351	4.5231	.40029	2.2325	5.1073	54.856
Stddev	.0083	.00048	.0190	.00149	.0139	.0063	.485
%RSD	.21755	.45891	.41898	.37222	.62222	.12235	.88387
#1	3.8322	.10297	4.5173	.39861	2.2480	5.1050	54.350
#2	3.8303	.10383	4.5443	.40143	2.2282	5.1144	55.317
#3	3.8456	.10375	4.5078	.40084	2.2213	5.1026	54.902

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: S4 Acquired: 07/03/2024 16:58:43 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) 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	1215.3	28388.	3880.2	856.58	2134.5
Stddev	1.8	70.	4.0	2.61	3.7
%RSD	.14546	.24496	.10316	.30520	.17484
#1	1217.1	28313.	3880.4	859.56	2138.9
#2	1215.2	28450.	3876.1	855.52	2132.3
#3	1213.6	28400.	3884.1	854.66	2132.4

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: S5 Acquired: 07/03/2024 17:03:05 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) 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	.19326	.71923	5.9441	.56423	1.3386	24.218	83.935	7.0711
Stddev	.00026	.00096	.0087	.00201	.0053	.064	.303	.0228
%RSD	.13525	.13302	.14686	.35664	.39781	.26263	.36143	.32223
#1	.19307	.71827	5.9355	.56397	1.3395	24.271	83.660	7.0794
#2	.19315	.71925	5.9439	.56236	1.3328	24.148	83.883	7.0453
#3	.19356	.72018	5.9530	.56636	1.3434	24.237	84.260	7.0885

Elem	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598	Mn2576	Mg2790
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	10.556	35.858	3.6171	3.4603	3.3429	5.2627	11.781	3.8002
Stddev	.018	.087	.0557	.0047	.0104	.0147	.019	.0099
%RSD	.17421	.24281	1.5397	.13653	.31152	.27838	.16005	.25946
#1	10.536	35.888	3.6275	3.4549	3.3448	5.2663	11.786	3.8035
#2	10.561	35.760	3.5570	3.4620	3.3316	5.2466	11.760	3.7891
#3	10.571	35.926	3.6669	3.4638	3.3522	5.2752	11.796	3.8080

Elem	Ni2316	Ag3280	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.0374	.82057	2.9651	.67965	3.0270	12.316	.40225	4.8067
Stddev	.0034	.01329	.0098	.00251	.0210	.029	.00092	.0266
%RSD	.16748	1.6191	.33025	.36877	.69263	.23732	.22886	.55389
#1	2.0362	.82178	2.9720	.68245	3.0292	12.319	.40218	4.8159
#2	2.0348	.80672	2.9539	.67887	3.0050	12.285	.40320	4.7767
#3	2.0413	.83320	2.9693	.67762	3.0467	12.343	.40136	4.8276

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707	Sr4077
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7.9045	.21456	8.7821	.79424	4.3569	12.324	107.05
Stddev	.0285	.00025	.0510	.00114	.0214	.016	.78
%RSD	.36012	.11565	.58039	.14344	.49179	.12706	.73231
#1	7.8938	.21432	8.7998	.79434	4.3639	12.342	106.21
#2	7.8829	.21455	8.7247	.79305	4.3328	12.318	107.18
#3	7.9367	.21482	8.8219	.79532	4.3739	12.312	107.76

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: S5 Acquired: 07/03/2024 17:03:05 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) 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	1080.3	27034.	3801.6	768.86	1943.9
Stddev	3.7	375.	10.2	4.74	1.8
%RSD	.34310	1.3882	.26826	.61602	.09433
#1	1082.6	27018.	3805.4	770.83	1946.0
#2	1082.4	27416.	3809.3	772.30	1943.2
#3	1076.1	26666.	3790.0	763.46	1942.5

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: S6 Acquired: 07/03/2024 17:07:31 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S06 Custom ID2: Custom ID3:
Comment:

Elem	Al3961	Ca3736	Fe2598	Mg2790	Na8183
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	59.944	56.970	13.554	6.0676	7.9160
Stddev	.022	.229	.064	.0270	.0332
%RSD	.03600	.40135	.47196	.44420	.41990
#1	59.921	57.010	13.535	6.0737	7.8951
#2	59.964	56.724	13.502	6.0381	7.8985
#3	59.948	57.176	13.625	6.0910	7.9543

Int. Std.	Y_3710
Units	Cts/S
Avg	3700.5
Stddev	22.3
%RSD	.60348
#1	3691.5
#2	3725.9
#3	3684.1

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: ICV015 Acquired: 07/03/2024 17:30:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV015 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9292961	.9980069	.9428701	.9276602	F .8999394	2.396302
Stddev	.0116931	.0006139	.0036453	.0080887	.0020569	.010605
%RSD	1.258272	.0615153	.3866194	.8719509	.2285643	.4425479
#1	.9405407	.9982930	.9438810	.9254810	.8977286	2.399163
#2	.9301468	.9973022	.9388259	.9208844	.9017966	2.405183
#3	.9172010	.9984256	.9459032	.9366153	.9002929	2.384560

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4947867	.5016289	.4749500	9.774888	.5364705	.4759927
Stddev	.0014071	.0004526	.0009575	.049515	.0014329	.0013459
%RSD	.2843860	.0902262	.2015944	.5065504	.2670883	.2827466
#1	.4957898	.5017992	.4739564	9.755668	.5351739	.4747220
#2	.4953921	.5019717	.4750268	9.831131	.5362287	.4758531
#3	.4931783	.5011159	.4758668	9.737865	.5380088	.4774028

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5091297	10.58488	.5225304	5.573199	.4864367	.2318709
Stddev	.0018242	.02068	.0027696	.076335	.0019751	.0014165
%RSD	.3583036	.1953567	.5300379	1.369678	.4060373	.6109168
#1	.5072735	10.56116	.5240708	5.491101	.4848763	.2308113
#2	.5091954	10.59914	.5241875	5.642031	.4857763	.2313216
#3	.5109202	10.59432	.5193331	5.586465	.4886573	.2334798

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.485448	.4995099	.9755413	9.542063	F .0005699	F -.003430
Stddev	.164541	.0056759	.0116531	.027820	.0006846	.002204
%RSD	1.734666	1.136289	1.194532	.2915479	120.1293	64.26680
#1	9.483570	.4971670	.9629948	9.529869	.0013295	-.000917
#2	9.321854	.5059821	.9860259	9.522423	.0000006	-.004337
#3	9.650920	.4953805	.9776030	9.573898	.0003796	-.005036

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: ICV015 Acquired: 07/03/2024 17:30:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV015 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.777201	F .0086050	F -.025639	F -.003792	F -.000499	F -.000553
Stddev	.011967	.0032129	.000382	.001308	.001219	.002648
%RSD	.2505053	37.33790	1.488403	34.50220	244.1514	478.9138
#1	4.767335	.0077958	-.025695	-.004137	-.001907	-.000106
#2	4.773754	.0058741	-.025233	-.002345	.000204	-.003396
#3	4.790513	.0121452	-.025989	-.004892	.000205	.001844

Elem	Sr4077
Units	ppm
Avg	F .0012083
Stddev	.0000296
%RSD	2.450286
#1	.0011741
#2	.0012244
#3	.0012263

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1439.767	31898.13	4093.627	1014.923	2690.357
Stddev	1.579	63.22	4.599	8.648	2.407
%RSD	.1096506	.1981932	.1123397	.8521211	.0894560
#1	1441.562	31947.10	4098.937	1024.825	2692.758
#2	1439.145	31920.54	4090.922	1008.853	2690.367
#3	1438.595	31826.76	4091.022	1011.091	2687.945

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: ICB015 Acquired: 07/03/2024 17:34:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB015 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053273	-.000332	.0011329	.0038187	.0027440	.0115146	-.000485
Stddev	.0051227	.000805	.0021967	.0003700	.0025120	.0092155	.000454
%RSD	96.15939	242.2382	193.9034	9.688641	91.54571	80.03312	93.67290
#1	-.000585	-.001261	-.000961	.0041977	.0053144	.0204655	-.000880
#2	.008451	.000158	.003420	.0037999	.0002948	.0120225	.000012
#3	.008115	.000106	.000940	.0034585	.0026228	.0020556	-.000587

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000391	.0000026	-.000350	-.000324	.0000342	.0008684	.0060102
Stddev	.0000125	.0000505	.008784	.000807	.0002755	.0026803	.0163644
%RSD	31.96354	1951.273	2509.610	249.4497	805.7024	308.6415	272.2772
#1	.0000452	.0000439	.005734	-.001255	-.000266	-.001256	.0247288
#2	.0000474	-.000054	-.010421	.000178	.000094	-.000019	-.005586
#3	.0000247	.000018	.003637	.000106	.000275	.003880	-.001112

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000093	.0086042	-.000228	-.000302	.3107377	.0018206	-.000934
Stddev	.000419	.0814352	.000069	.000290	.1826268	.0022298	.008576
%RSD	450.6436	946.4551	30.19159	95.98604	58.77199	122.4736	917.7509
#1	.000187	.0617525	-.000152	-.000633	.4174336	.0039861	-.007758
#2	.000110	.0492100	-.000248	-.000090	.4149161	-.000468	.008692
#3	-.000575	-.085150	-.000285	-.000183	.0998635	.001944	-.003737

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.131343	.0034480	.0038079	-.000088	.0038517	.0003189	-.001639
Stddev	.014433	.0036012	.0003125	.000218	.0030539	.0001981	.000436
%RSD	10.98884	104.4404	8.205655	246.5644	79.28636	62.12756	26.57727
#1	-.147942	.0055480	.0039722	-.000168	.0005065	.0001659	-.001945
#2	-.121758	-.000710	.0034475	.000158	.0064905	.0005427	-.001140
#3	-.124328	.005506	.0040039	-.000256	.0045581	.0002481	-.001832

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: ICB015 Acquired: 07/03/2024 17:34:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB015 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000667	.0002770	-.000017
Stddev	.000381	.0020053	.000006
%RSD	57.09891	723.8732	37.27137
#1	-.000239	.0004836	-.000021
#2	-.000795	-.001824	-.000010
#3	-.000969	.002171	-.000020

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1452.689	32140.78	4074.237	1018.163	2789.474
Stddev	3.660	34.07	5.392	2.852	4.928
%RSD	.2519315	.1059904	.1323558	.2801553	.1766646
#1	1455.289	32139.96	4077.370	1015.702	2795.064
#2	1448.503	32175.25	4068.010	1021.290	2785.759
#3	1454.273	32107.13	4077.330	1017.499	2787.598

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: ICSA015 Acquired: 07/03/2024 17:38:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA015 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000325	-.003718	-.005596	-.010918	.0079013	250.3812
Stddev	.009342	.003079	.004036	.004418	.0049796	1.0224
%RSD	2877.626	82.80833	72.11944	40.46866	63.02329	.4083489
#1	.007339	-.000553	-.003379	-.005889	.0021537	249.6684
#2	.002419	-.003898	-.010255	-.014179	.0109188	249.9226
#3	-.010732	-.006703	-.003155	-.012684	.0106313	251.5527

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061024	.0000622	.0002163	244.7484	.0559850	-.001700
Stddev	.0005495	.0001060	.0000754	.3181	.0002721	.000188
%RSD	9.004908	170.3656	34.83136	.1299738	.4861020	11.06382
#1	.0066446	.0001845	.0001798	244.3832	.0559653	-.001912
#2	.0061167	.0000053	.0001662	244.9650	.0562665	-.001637
#3	.0055458	-.000003	.0003030	244.8971	.0557233	-.001552

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.010688	102.9757	.0129136	237.4796	.0058873	-.000729
Stddev	.002263	.3605	.0007114	.4421	.0001780	.000472
%RSD	21.17203	.3500732	5.508581	.1861639	3.023544	64.72030
#1	-.012793	102.5669	.0129893	237.0698	.0060548	-.001112
#2	-.008295	103.1124	.0135840	237.4209	.0057004	-.000202
#3	-.010976	103.2479	.0121674	237.9481	.0059066	-.000875

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0599627	.0052556	.0173108	-.068387	.0062661	F .0146532
Stddev	.2333419	.0055755	.0035520	.027373	.0065076	.0010248
%RSD	389.1453	106.0852	20.51884	40.02700	103.8539	6.993369
#1	.2576167	.0082653	.0158462	-.038976	-.000506	.0154272
#2	.1197171	-.001178	.0147253	-.073067	.012472	.0150413
#3	-.197446	.008680	.0213609	-.093119	.006832	.0134911

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: ICSA015 Acquired: 07/03/2024 17:38:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA015 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001447	-.007191	-.002867	F -.009656	-.001135	.0013376
Stddev	.000108	.007757	.000791	.000986	.001000	.0027443
%RSD	7.445117	107.8724	27.58493	10.21202	88.12217	205.1690
#1	-.001359	-.009120	-.002769	-.010642	-.000898	-.001106
#2	-.001567	.001349	-.002129	-.009657	-.002233	.000811
#3	-.001415	-.013801	-.003702	-.008669	-.000274	.004307

Elem	Sr4077
Units	ppm
Avg	F .1013776
Stddev	.0009621
%RSD	.9490561
#1	.1007234
#2	.1009271
#3	.1024823

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1319.493	28834.92	3963.132	919.5115	2268.924
Stddev	2.421	85.55	16.791	7.4051	3.247
%RSD	.1835154	.2966737	.4236905	.8053255	.1430927
#1	1319.787	28756.83	3982.322	920.9150	2269.644
#2	1321.754	28821.58	3955.938	911.5051	2271.750
#3	1316.938	28926.35	3951.136	926.1143	2265.378

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: ICSAB015 Acquired: 07/03/2024 17:43:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB015 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0929070	.0993924	.0461493	.0361568	.5537964	251.7139
Stddev	.0138151	.0027419	.0021819	.0056256	.0060128	.6951
%RSD	14.86986	2.758658	4.727849	15.55881	1.085738	.2761469
#1	.0781399	.1011594	.0443198	.0382383	.5475373	252.1197
#2	.0950648	.0962338	.0455639	.0404450	.5543237	250.9113
#3	.1055163	.1007841	.0485642	.0297871	.5595282	252.1107

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5124221	.5116036	.9727991	245.4411	.5896442	.4838694
Stddev	.0008085	.0026686	.0021045	.5232	.0011921	.0004491
%RSD	.1577786	.5216099	.2163369	.2131787	.2021755	.0928144
#1	.5121170	.5105029	.9705698	245.4368	.5888585	.4834245
#2	.5118106	.5096614	.9747514	244.9200	.5890581	.4843226
#3	.5133388	.5146465	.9730759	245.9664	.5910159	.4838610

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4941019	103.2974	.5265908	238.8112	.9755609	.2008623
Stddev	.0012728	.3407	.0020104	.4967	.0030478	.0006869
%RSD	.2576032	.3298584	.3817733	.2080023	.3124180	.3419689
#1	.4955459	103.2586	.5264757	238.3507	.9722604	.2016544
#2	.4931426	102.9778	.5246404	238.7453	.9761531	.2005016
#3	.4936173	103.6559	.5286562	239.3376	.9782691	.2004309

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0943160	.5007975	.9475185	-.173282	.0045057	F .0161349
Stddev	.1245473	.0024897	.0130083	.092916	.0012528	.0007037
%RSD	132.0532	.4971444	1.372883	53.62135	27.80478	4.361222
#1	.0045724	.5000460	.9325591	-.084703	.0037995	.0156804
#2	.0418658	.4987702	.9538240	-.165144	.0059521	.0157787
#3	.2365099	.5035764	.9561723	-.270000	.0037653	.0169454

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: ICSAB015 Acquired: 07/03/2024 17:43:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB015 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.001510	-.001969	-.002482	F -.008002	-.002294	.0010420
Stddev	.000228	.003265	.001196	.002519	.001148	.0013591
%RSD	15.08663	165.8393	48.19976	31.47211	50.02600	130.4399
#1	-.001473	.001777	-.002817	-.010748	-.001028	-.000021
#2	-.001755	-.003470	-.001154	-.007460	-.003267	.002573
#3	-.001304	-.004213	-.003476	-.005799	-.002587	.000573

Elem	Sr4077
Units	ppm
Avg	F .1019841
Stddev	.0005116
%RSD	.5016538
#1	.1020480
#2	.1014435
#3	.1024608

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1317.103	28981.77	3952.508	925.6116	2270.962
Stddev	3.741	98.25	10.988	6.3011	4.978
%RSD	.2840233	.3389991	.2780012	.6807478	.2192027
#1	1316.096	28919.14	3958.944	922.2916	2276.029
#2	1321.244	28931.17	3958.759	921.6647	2270.778
#3	1313.969	29095.01	3939.820	932.8784	2266.078

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: CCV031 Acquired: 07/03/2024 17:47:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV031 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.136810	4.927707	24.89445	4.880016	4.937384	424.4396
Stddev	.005875	.021821	.08883	.003194	.008383	1.6692
%RSD	.1143701	.4428136	.3568154	.0654432	.1697823	.3932641
#1	5.142277	4.938417	24.90054	4.882433	4.930595	424.0842
#2	5.130598	4.902601	24.80274	4.876395	4.934803	422.9768
#3	5.137554	4.942104	24.98008	4.881220	4.946754	426.2579

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.09983	.5130878	2.540586	399.2305	15.63550	2.485794
Stddev	.01907	.0029920	.008381	.7212	.00648	.008486
%RSD	.1888311	.5831295	.3298954	.1806495	.0414146	.3413755
#1	10.09921	.5138452	2.542429	399.2629	15.62885	2.487331
#2	10.08107	.5097899	2.531437	398.4936	15.63586	2.476645
#3	10.11920	.5156283	2.547893	399.9349	15.64179	2.493407

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.24912	414.4263	14.97434	399.3807	2.496174	1.288210
Stddev	.07929	1.4113	.04849	1.3576	.008051	.001169
%RSD	.5199508	.3405526	.3238080	.3399186	.3225173	.0907517
#1	15.21766	414.6549	14.96544	398.7840	2.493161	1.287065
#2	15.19040	412.9146	14.93091	398.4237	2.490063	1.289402
#3	15.33932	415.7093	15.02666	400.9345	2.505296	1.288163

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	409.3040	2.482655	15.10764	158.1734	5.180506	4.849805
Stddev	.9034	.022677	.03900	.7944	.010911	.025389
%RSD	.2207074	.9134346	.2581303	.5022230	.2106169	.5234998
#1	409.1422	2.474820	15.11283	157.8514	5.177373	4.858580
#2	408.4924	2.464934	15.14379	157.5906	5.171505	4.821192
#3	410.2773	2.508211	15.06631	159.0783	5.192641	4.869641

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: CCV031 Acquired: 07/03/2024 17:47:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV031 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.758194	5.099479	F 4.249345	4.900370	4.885079	F 6.780759
Stddev	.008877	.021138	.021174	.013064	.022909	.005240
%RSD	.1865525	.4145196	.4982966	.2665960	.4689583	.0772722
#1	4.753306	5.103175	4.259187	4.908154	4.895675	6.776841
#2	4.752836	5.076736	4.225041	4.885288	4.858790	6.778724
#3	4.768440	5.118525	4.263807	4.907670	4.900772	6.786710

Elem	Sr4077
Units	ppm
Avg	5.024861
Stddev	.081243
%RSD	1.616815
#1	5.079109
#2	4.931456
#3	5.064019

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1156.468	26872.55	3794.598	814.5569	1991.271
Stddev	2.199	55.55	14.826	2.5916	4.405
%RSD	.1901244	.2067300	.3907088	.3181554	.2212060
#1	1158.326	26860.27	3785.707	813.6160	1991.864
#2	1157.038	26824.16	3811.713	812.5673	1995.349
#3	1154.041	26933.21	3786.374	817.4875	1986.600

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: CCB031 Acquired: 07/03/2024 17:52:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB031 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.009673	.0007447	.0025312	.0014548	.0027597	.0277013	-.000053
Stddev	.006556	.0027242	.0016506	.0007803	.0014129	.0042340	.000298
%RSD	67.76994	365.8384	65.20909	53.63423	51.19960	15.28463	560.4620
#1	-.009871	-.002399	.0027384	.0006746	.0022793	.0325416	.000192
#2	-.003021	.002232	.0040684	.0014548	.0016496	.0246850	.000033
#3	-.016128	.002401	.0007868	.0022351	.0043502	.0258772	-.000384

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000768	.0001392	.0025550	-.000363	.0001050	.0030319	.0121531
Stddev	.0000680	.0000687	.0108047	.000879	.0001296	.0025298	.0191937
%RSD	88.48605	49.32903	422.8918	241.9071	123.5087	83.43869	157.9328
#1	.0001482	.0000622	-.007967	-.000036	-.000045	.0054996	-.009169
#2	.0000128	.0001940	.013622	-.001359	.000174	.0031518	.028051
#3	.0000696	.0001614	.002010	.000305	.000185	.0004443	.017577

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004151	.0922476	-.000011	-.000112	.0790920	.0027080	-.000728
Stddev	.0000999	.0717741	.000360	.000370	.2291364	.0004664	.002438
%RSD	24.06570	77.80598	3407.786	330.9498	289.7088	17.22365	334.8183
#1	.0005305	.1462767	-.000291	-.000135	.2118320	.0021730	-.002133
#2	.0003566	.0108072	-.000135	.000269	.2109353	.0030294	.002087
#3	.0003583	.1196588	.000395	-.000469	-.185491	.0029216	-.002138

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0704676	.0053809	.0115444	-.000349	.0031207	.0016582	-.003376
Stddev	.0840265	.0009858	.0011841	.000470	.0026580	.0006411	.000569
%RSD	119.2414	18.32078	10.25706	134.7215	85.17444	38.66254	16.85097
#1	-.018547	.0064303	.0126178	-.000451	.0057657	.0013112	-.003464
#2	.081541	.0044743	.0102742	-.000759	.0004498	.0012653	-.003896
#3	.148408	.0052380	.0117411	.000164	.0031466	.0023979	-.002768

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: CCB031 Acquired: 07/03/2024 17:52:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB031 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000680	.0000590	.0002656
Stddev	.001733	.0005727	.0001273
%RSD	254.9311	971.5949	47.91462
#1	.001176	.0001892	.0004042
#2	-.002256	-.000568	.0001540
#3	-.000960	.000555	.0002386

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1449.920	32048.13	4060.343	1014.753	2783.213
Stddev	3.784	62.51	1.913	1.787	10.029
%RSD	.2609820	.1950456	.0471024	.1761300	.3603260
#1	1451.450	32047.18	4060.230	1016.088	2790.188
#2	1452.700	32111.10	4058.490	1015.448	2787.732
#3	1445.611	31986.10	4062.310	1012.722	2771.720

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: P2836-08A Acquired: 07/03/2024 17:56:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4D3A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3852287	.0320715	.3326006	-.010504	.0152186	168.9205
Stddev	.0124044	.0006836	.0014710	.005999	.0019556	.4281
%RSD	3.220004	2.131372	.4422756	57.11500	12.84987	.2534250
#1	.3740153	.0316150	.3322323	-.015739	.0129902	168.7724
#2	.3831178	.0317421	.3313488	-.011815	.0160162	169.4030
#3	.3985531	.0328574	.3342208	-.003957	.0166493	168.5862

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.039673	.0051727	.0094469	62.20552	.4512334	.1837481
Stddev	.002522	.0001419	.0001040	.18698	.0020605	.0007308
%RSD	.2426190	2.742205	1.101194	.3005873	.4566251	.3977246
#1	1.040992	.0051889	.0095591	62.30733	.4491071	.1830248
#2	1.041263	.0050234	.0094281	62.31951	.4513720	.1837334
#3	1.036765	.0053057	.0093536	61.98973	.4532210	.1844862

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5944401	418.0813	7.416702	66.58629	.1938616	.0005207
Stddev	.0030308	.7384	.015196	.21317	.0003174	.0003019
%RSD	.5098518	.1766222	.2048917	.3201438	.1637250	57.99107
#1	.5917329	417.9217	7.425561	66.73088	.1936263	.0005704
#2	.5938730	418.8865	7.425390	66.68653	.1942226	.0007946
#3	.5977143	417.4358	7.399155	66.34148	.1937360	.0001969

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.626424	.7007576	3.254428	24.62701	F 10.59131	.0667378
Stddev	.122305	.0028363	.040141	.19246	.02287	.0019550
%RSD	7.519873	.4047436	1.233416	.7814950	.2159110	2.929441
#1	1.767387	.7029474	3.284419	24.40656	10.56799	.0646854
#2	1.563403	.7017718	3.270039	24.76159	10.61369	.0669498
#3	1.548482	.6975537	3.208828	24.71287	10.59225	.0685782

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: P2836-08A Acquired: 07/03/2024 17:56:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MYD4D3A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000345	1.189909	10.11324	-.008736	4.001876	.1299262
Stddev	.000342	.012104	.04423	.001083	.007035	.0007421
%RSD	99.13137	1.017249	.4373121	12.40189	.1757988	.5711685
#1	.000045	1.185868	10.06299	-.009873	3.997972	.1303941
#2	-.000596	1.180342	10.13046	-.007715	4.009998	.1303140
#3	-.000483	1.203517	10.14627	-.008621	3.997659	.1290705

Elem	Sr4077
Units	ppm
Avg	.2385447
Stddev	.0008913
%RSD	.3736526
#1	.2376351
#2	.2394165
#3	.2385825

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1571.796	34581.11	4644.574	1095.517	2425.367
Stddev	2.305	153.02	2.733	6.381	3.538
%RSD	.1466414	.4424829	.0588470	.5824597	.1458591
#1	1574.110	34443.00	4646.269	1088.662	2428.435
#2	1571.777	34554.73	4641.421	1096.605	2421.497
#3	1569.501	34745.60	4646.032	1101.284	2426.168

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: P2905-09A Acquired: 07/03/2024 18:17:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZWN3A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1626297	-.015410	3.210853	-.055168	.0104449	71.88022
Stddev	.0128868	.001426	.025837	.005321	.0035634	.34958
%RSD	7.924028	9.252065	.8046761	9.644356	34.11597	.4863306
#1	.1632449	-.015233	3.230042	-.056462	.0094616	72.28050
#2	.1751980	-.016916	3.221042	-.049320	.0074764	71.63498
#3	.1494464	-.014081	3.181475	-.059723	.0143967	71.72518

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.494465	.0086711	.0235578	249.1267	.1493470	.0691786
Stddev	.003659	.0002092	.0001677	.7269	.0011054	.0008579
%RSD	.2448440	2.412708	.7118355	.2917703	.7401553	1.240079
#1	1.498530	.0086772	.0234802	249.9632	.1486324	.0701293
#2	1.493427	.0088772	.0237502	248.7678	.1506202	.0689441
#3	1.491436	.0084589	.0234430	248.6492	.1487884	.0684623

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7013219	318.8528	3.755732	11.36163	.2946069	.0023552
Stddev	.0095203	1.1894	.010881	.07494	.0021620	.0001672
%RSD	1.357481	.3730111	.2897210	.6595619	.7338613	7.100186
#1	.7110628	320.2183	3.768238	11.41258	.2964095	.0025034
#2	.6920387	318.0437	3.748436	11.27558	.2952015	.0021739
#3	.7008642	318.2962	3.750521	11.39672	.2922099	.0023884

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.033114	.2420568	5.929073	7.842444	F 17.19082	.2143766
Stddev	.220623	.0025745	.032959	.010762	.12741	.0022056
%RSD	5.470281	1.063600	.5558840	.1372321	.7411762	1.028845
#1	3.793725	.2414253	5.937597	7.847061	17.27435	.2162870
#2	4.228266	.2398567	5.892690	7.850128	17.25396	.2148800
#3	4.077352	.2448883	5.956933	7.830144	17.04417	.2119628

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: P2905-09A Acquired: 07/03/2024 18:17:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZWN3A Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0252639	23.98619	3.157164	.0551137	2.125661	.0751386
Stddev	.0002425	.16451	.010614	.0019232	.010284	.0010236
%RSD	.9597228	.6858654	.3361880	3.489487	.4837819	1.362235
#1	.0253767	24.08497	3.159130	.0563164	2.137507	.0739725
#2	.0249855	24.07732	3.166658	.0528956	2.120450	.0755551
#3	.0254294	23.79628	3.145704	.0561291	2.119026	.0758883

Elem	Sr4077
Units	ppm
Avg	.8585528
Stddev	.0052237
%RSD	.6084303
#1	.8645793
#2	.8553202
#3	.8557589

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1598.077	35308.23	4757.161	1113.584	2521.554
Stddev	9.397	230.31	15.802	6.264	17.757
%RSD	.5880069	.6522925	.3321807	.5624672	.7042216
#1	1591.838	35153.98	4738.953	1109.243	2507.460
#2	1593.508	35572.97	4767.291	1120.764	2515.705
#3	1608.884	35197.75	4765.240	1110.744	2541.499

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: P2906-15A Acquired: 07/03/2024 18:22:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZWQ6A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2956264	-.014561	.2185348	-.048028	.0048802	101.3819	.6809703
Stddev	.0040156	.001508	.0022338	.004929	.0003692	.4260	.0015412
%RSD	1.358347	10.35781	1.022157	10.26261	7.564735	.4201595	.2263226
#1	.2910077	-.014766	.2209174	-.053518	.0050167	101.6783	.6817240
#2	.2982908	-.015956	.2181991	-.043984	.0051618	101.5737	.6819897
#3	.2975806	-.012961	.2164878	-.046582	.0044623	100.8938	.6791973

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054528	.0020759	18.95585	.2350709	.0910300	.1918577	277.2724
Stddev	.0000429	.0001078	.03554	.0003343	.0004836	.0046257	.5694
%RSD	.7866983	5.192409	.1874929	.1421996	.5313009	2.410998	.2053542
#1	.0054051	.0022001	18.99232	.2353927	.0905821	.1952821	277.4089
#2	.0054653	.0020204	18.95389	.2347254	.0915429	.1936955	277.7611
#3	.0054881	.0020071	18.92132	.2350945	.0909651	.1865956	276.6471

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.850065	15.52355	.2629385	.0002824	.9622930	.2236305	.6329269
Stddev	.006437	.08741	.0005724	.0008126	.1323491	.0029949	.0113133
%RSD	.1671898	.5631038	.2177123	287.7135	13.75351	1.339231	1.787462
#1	3.847071	15.47382	.2625635	-.000316	.8404480	.2208241	.6221146
#2	3.857454	15.62448	.2626546	.001208	1.103101	.2267838	.6319839
#3	3.845670	15.47235	.2635974	-.000045	.943331	.2232835	.6446822

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.301408	3.445752	.0374939	.0122277	.3954200	6.432756	.0035093
Stddev	.069210	.010032	.0015105	.0000693	.0033074	.046654	.0009549
%RSD	1.609016	.2911415	4.028516	.5669433	.8364200	.7252606	27.21081
#1	4.368845	3.448008	.0377012	.0122084	.3927495	6.486239	.0044026
#2	4.230551	3.434785	.0358906	.0123046	.3991196	6.411608	.0036224
#3	4.304827	3.454465	.0388901	.0121700	.3943910	6.400420	.0025029

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: P2906-15A Acquired: 07/03/2024 18:22:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZWQ6A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.6953582	.1046861	.0705944
Stddev	.0037582	.0019629	.0004855
%RSD	.5404731	1.875043	.6877472
#1	.6978753	.1040174	.0709046
#2	.6910383	.1031449	.0708437
#3	.6971612	.1068960	.0700349

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1549.889	33987.97	4487.094	1089.664	2624.458
Stddev	1.000	55.19	35.769	4.292	4.475
%RSD	.0644965	.1623727	.7971550	.3938867	.1704961
#1	1548.754	33930.40	4445.798	1092.369	2628.803
#2	1550.637	34040.41	4507.091	1091.908	2619.864
#3	1550.277	33993.11	4508.393	1084.715	2624.707

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: P2911-20A Acquired: 07/03/2024 18:26:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZX32A Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3969074	-.008487	33.69117	-.040096	.0075260	69.03209	2.337594
Stddev	.0167218	.002188	.14450	.003725	.0030379	.15970	.003039
%RSD	4.213016	25.78528	.4289104	9.289893	40.36508	.2313480	.1300261
#1	.4017503	-.008384	33.65233	-.035798	.0040469	69.21523	2.341082
#2	.3782987	-.010725	33.57006	-.042114	.0088771	68.92181	2.335514
#3	.4106732	-.006351	33.85113	-.042377	.0096540	68.95923	2.336184

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0080310	.0133960	218.7921	.1682989	.0861213	.3398199	230.3350
Stddev	.0001952	.0002361	.2622	.0010187	.0003323	.0032974	.5112
%RSD	2.430275	1.762381	.1198185	.6052852	.3858267	.9703245	.2219219
#1	.0079478	.0131875	218.6879	.1672959	.0858106	.3385226	230.3395
#2	.0078912	.0133480	218.5980	.1693326	.0860818	.3373685	229.8216
#3	.0082540	.0136524	219.0903	.1682681	.0864716	.3435686	230.8439

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.224484	70.36419	.2126322	.0032169	1.704300	.3378372	2.685842
Stddev	.016182	.05943	.0004987	.0005912	.238412	.0046790	.038248
%RSD	.3097412	.0844640	.2345118	18.37624	13.98883	1.384978	1.424069
#1	5.241906	70.41271	.2121580	.0035605	1.839454	.3324378	2.720605
#2	5.209922	70.29790	.2125864	.0025343	1.429021	.3407048	2.644869
#3	5.221625	70.38195	.2131522	.0035560	1.844425	.3403688	2.692053

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.966454	9.715451	.1716178	.0593084	9.016939	8.309008	.1102464
Stddev	.189757	.047905	.0014582	.0002177	.049066	.040050	.0020731
%RSD	1.903959	.4930814	.8496947	.3669902	.5441514	.4820029	1.880386
#1	10.11559	9.703079	.1731901	.0590921	8.983006	8.262829	.1097824
#2	9.75286	9.674945	.1703097	.0593058	8.994614	8.329965	.1125122
#3	10.03091	9.768328	.1713537	.0595274	9.073198	8.334231	.1084447

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: P2911-20A Acquired: 07/03/2024 18:26:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: EZX32A Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	.9468847	.1027896	.2855337
Stddev	.0028640	.0006314	.0013559
%RSD	.3024675	.6142481	.4748613
#1	.9495925	.1028674	.2865878
#2	.9438865	.1021229	.2840041
#3	.9471751	.1033785	.2860091

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1480.422	32861.42	4454.360	1032.365	2401.682
Stddev	5.402	41.55	7.612	2.574	11.673
%RSD	.3649160	.1264516	.1708907	.2492922	.4860407
#1	1481.577	32817.02	4460.882	1029.711	2402.630
#2	1485.153	32867.84	4456.203	1032.532	2412.853
#3	1474.535	32899.38	4445.996	1034.850	2389.564

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: CCV032 Acquired: 07/03/2024 18:31:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV032 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.083866	4.885921	24.73555	4.864036	4.929465	422.6242
Stddev	.021283	.020212	.04720	.011156	.017868	3.1431
%RSD	.4186400	.4136723	.1908258	.2293510	.3624637	.7437077
#1	5.108403	4.896319	24.72799	4.871670	4.948377	425.3051
#2	5.070400	4.862627	24.69259	4.869204	4.927152	423.4024
#3	5.072795	4.898815	24.78608	4.851233	4.912867	419.1651

Elem	Ba4934	Be2348	Cd2144	Ca3736	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.10358	.5098226	2.521741	397.8956	15.55293	2.466768
Stddev	.07698	.0022978	.003378	3.0764	.01753	.003939
%RSD	.7619504	.4507032	.1339517	.7731754	.1126905	.1596951
#1	10.17020	.5100346	2.520301	400.3920	15.54303	2.469713
#2	10.12123	.5120071	2.519322	398.8361	15.57316	2.462294
#3	10.01930	.5074262	2.525600	394.4587	15.54258	2.468298

Elem	Cu3247	Fe2598	Mn2576	Mg2790	Ni2316	Ag3280
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.14903	412.5037	14.91398	396.7476	2.481192	1.283619
Stddev	.09769	2.6213	.10791	3.1656	.003231	.003683
%RSD	.6448564	.6354627	.7235577	.7978901	.1302141	.2869217
#1	15.24033	414.4476	14.99946	399.7919	2.480314	1.287429
#2	15.16074	413.5409	14.94976	396.9778	2.478491	1.283350
#3	15.04601	409.5224	14.79272	393.4732	2.484771	1.280078

Elem	Na8183	V_2924	Zn2138	K_7698	P_1774	B_2496
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	409.2357	2.479385	14.71706	157.7015	5.127521	4.827057
Stddev	2.8248	.025202	.05999	.9911	.016968	.024436
%RSD	.6902510	1.016473	.4076182	.6284405	.3309174	.5062379
#1	411.9168	2.500638	14.72167	158.0456	5.112149	4.833049
#2	409.5039	2.485975	14.77461	158.4746	5.124686	4.847941
#3	406.2864	2.451543	14.65490	156.5842	5.145728	4.800182

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: CCV032 Acquired: 07/03/2024 18:31:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV032 Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	S_1820	Si2516	Sn1899	Ti3361	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.729744	5.083106	F 4.235333	4.860109	4.856248	F 6.789129
Stddev	.013188	.017338	.028247	.010092	.039665	.051345
%RSD	.2788403	.3410879	.6669400	.2076486	.8167808	.7562784
#1	4.736983	5.096455	4.243620	4.862912	4.890200	6.827801
#2	4.737728	5.063510	4.258510	4.848912	4.865894	6.808712
#3	4.714522	5.089352	4.203869	4.868504	4.812650	6.730875

Elem	Sr4077
Units	ppm
Avg	4.998992
Stddev	.023072
%RSD	.4615249
#1	4.989843
#2	5.025235
#3	4.981898

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1151.743	26823.66	3784.401	807.6181	1985.998
Stddev	2.432	62.94	19.514	3.5978	3.784
%RSD	.2111452	.2346338	.5156546	.4454819	.1905542
#1	1149.757	26752.90	3769.262	807.3133	1985.211
#2	1151.016	26844.72	3777.517	804.1825	1990.115
#3	1154.455	26873.37	3806.425	811.3586	1982.670

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: CCB032 Acquired: 07/03/2024 18:35:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB032 Custom ID2: Custom ID3:
Comment:

Elem	As1890	Tl1908	Pb2203	Se1960	Sb2068	Al3961	Ba4934
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014631	.0011674	-.000008	.0040396	.0026966	.0098455	-.000239
Stddev	.0071942	.0004059	.001701	.0025711	.0010841	.0069063	.000506
%RSD	491.7203	34.76558	20206.05	63.64812	40.20195	70.14617	211.2289
#1	.0089573	.0016309	-.001521	.0062546	.0020801	.0134254	.000323
#2	-.005388	.0008754	.001833	.0012201	.0020613	.0142270	-.000657
#3	.000820	.0009960	-.000337	.0046442	.0039483	.0018843	-.000385

Elem	Be2348	Cd2144	Ca3736	Cr2677	Co2286	Cu3247	Fe2598
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.000000	.0000122	.0037328	-.000037	-.000167	.0015365	.0016527
Stddev	.000022	.0000585	.0057629	.000597	.000185	.0001593	.0148950
%RSD	7366.464	479.7108	154.3843	1619.043	110.5140	10.36863	901.2642
#1	-.000023	-.000012	.0049535	-.000607	-.000373	.0017144	.0012130
#2	.000022	-.000030	-.002543	.000584	-.000115	.0014882	.0167627
#3	-.000000	.000079	.008788	-.000087	-.000014	.0014070	-.013018

Elem	Mn2576	Mg2790	Ni2316	Ag3280	Na8183	V_2924	Zn2138
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000506	.0250416	.0003579	-.000197	-.016202	.0017892	-.004787
Stddev	.0003362	.0242123	.0000640	.000463	.281599	.0019434	.001838
%RSD	664.2405	96.68822	17.89219	235.0544	1738.036	108.6222	38.39758
#1	.0001883	-.000372	.0004316	-.000388	-.341098	-.000305	-.006868
#2	.0002962	.047840	.0003257	-.000533	.157647	.002137	-.003383
#3	-.000333	.027656	.0003163	.000331	.134845	.003535	-.004111

Elem	K_7698	P_1774	B_2496	Mo2020	S_1820	Si2516	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1730757	.0021090	.0120610	-.000055	.0052204	.0007666	-.002014
Stddev	.0796422	.0022521	.0011069	.000056	.0035315	.0006909	.000500
%RSD	46.01578	106.7863	9.177653	101.1726	67.64801	90.11892	24.84575
#1	.0842049	-.000270	.0107843	-.000117	.0082004	.0003814	-.002315
#2	.1970329	.004208	.0126462	-.000041	.0013198	.0003542	-.002290
#3	.2379894	.002389	.0127525	-.000008	.0061411	.0015642	-.001436

Reviewed By:mohan
On:7/4/2024 6:07:00 AM
Inst Id :P5

Sample Name: CCB032 Acquired: 07/03/2024 18:35:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL(v640) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB032 Custom ID2: Custom ID3:
Comment:

Elem	Ti3361	Li6707	Sr4077
Units	ppm	ppm	ppm
Avg	-.000130	.0031113	.0000905
Stddev	.000350	.0015193	.0000267
%RSD	268.6821	48.83083	29.55432
#1	-.000378	.0033388	.0000707
#2	-.000283	.0014911	.0000798
#3	.000270	.0045041	.0001209

Int. Std.	Y_2243	Y_3600	Y_3710	Y_2243	In2306
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1440.762	31831.02	4042.088	1007.337	2768.062
Stddev	1.931	104.14	7.123	4.015	2.254
%RSD	.1340571	.3271688	.1762186	.3985828	.0814311
#1	1442.301	31902.92	4035.010	1007.176	2767.668
#2	1441.391	31711.59	4049.255	1003.405	2770.487
#3	1438.595	31878.54	4042.000	1011.430	2766.031

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID : P2836

Test : Metals CLP Full

Prepbatch ID : PB161766,

Sequence ID/Qc Batch ID: LB131457,LB131513,

Standard ID :
MP80924,MP80925,MP80926,MP80927,MP80928,MP80932,MP80933,MP80934,MP80935,MP80942,MP80944,MP81026,
MP81119,MP81187,MP81208,MP81209,MP81250,MP81288,MP81289,MP81290,MP81291,MP81292,MP81293,MP81294,
MP81295,MP81296,MP81297,MP81298,MP81300,MP81301,MP81308,

Chemical ID :
M4877,M4878,M4883,M4885,M4888,M4889,M4960,M4961,M5130,M5192,M5200,M5223,M5224,M5227,M5272,M5288,M5
289,M5294,M5296,M5298,M5387,M5389,M5395,M5429,M5468,M5473,M5494,M5497,M5498,M5513,M5632,M5658,M5697
,M5698,M5747,M5754,M5768,M5769,M5798,M5799,M5800,M5801,M5804,M5815,M5817,M5818,M5819,M5875,M5895,M5
915,M5935,M5940,M5947,M5954,M5959,W2606,W3112,

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP80924	05/30/2024	06/30/2024	Sarabjit Jaswal	None	None	Mohan Bera 06/11/2024

FROM 125.00000ml of M5895 + 2350.00000ml of W2606 + 25.00000ml of M5915 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1004	ICPAES ISM01.2 (S5)	MP80925	05/30/2024	06/30/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 06/11/2024

FROM 0.25000ml of M5798 + 0.50000ml of M5429 + 0.50000ml of M5473 + 0.50000ml of M5815 + 0.50000ml of M5817 + 12.50000ml of M5200 + 12.50000ml of M5288 + 12.50000ml of M5698 + 12.50000ml of M5819 + 13.75000ml of M5697 + 14.50000ml of M5289 + 14.50000ml of M5298 + 14.50000ml of M5658 + 2.00000ml of M5513 + 22.50000ml of M5498 + 22.50000ml of M5769 + 5.00000ml of M5272 + 5.00000ml of M5296 + 5.00000ml of M5395 + 5.00000ml of M5818 + 5.00000ml of M5875 + 318.50000ml of MP80924 = Final Quantity: 500.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1005	ICPAES ISM01.2(S4)	MP80926	05/30/2024	06/30/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 06/11/2024

FROM 50.00000ml of MP80924 + 50.00000ml of MP80925 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1007	ICPAES ISM01.2(S3)	MP80927	05/30/2024	06/30/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 06/11/2024

FROM 25.00000ml of MP80925 + 75.00000ml of MP80924 = 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)	MP80928	05/30/2024	06/30/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 06/11/2024

FROM 12.50000ml of MP80925 + 87.50000ml of MP80924 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	MP80932	05/30/2024	06/30/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 06/11/2024

FROM 10.00000ml of M5130 + 90.00000ml of MP80924 = Final Quantity: 100.000 ml

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
905	ICP AES ICSAB SOLN	MP80933	05/30/2024	06/30/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 06/11/2024

FROM 10.00000ml of M5130 + 10.00000ml of M5223 + 80.00000ml of MP80924 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1119	ICPAES ISM01.2(CCV)	MP80934	05/30/2024	06/30/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 06/11/2024

FROM 12.25000ml of M5289 + 12.50000ml of M5200 + 12.50000ml of M5298 + 7.50000ml of M5498 + 7.50000ml of M5769 + 125.00000ml of MP80925 + 322.75000ml of MP80924 = Final Quantity: 500.000 ml

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2480	ICP AES STD 6 ISM01.3	MP80935	05/30/2024	06/30/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 06/11/2024

FROM 8.00000ml of M5200 + 8.00000ml of M5289 + 8.00000ml of M5298 + 8.00000ml of M5498 + 8.00000ml of M5769 + 60.00000ml of MP80924 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
919	ICP AES INTERNAL STD	MP80942	05/30/2024	06/30/2024	Sarabjit Jaswal	None	None	Mohan Bera 06/11/2024

FROM 1.00000ml of M4961 + 10.00000ml of M4960 + 1969.00000ml of W2606 + 20.00000ml of M5915 = Final Quantity: 2000.000 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
903	ICP AES RINSE SOLN	MP80944	05/30/2024	06/30/2024	Sarabjit Jaswal	None	None	Mohan Bera 06/11/2024

FROM 200.00000ml of M5915 + 9800.00000ml of W2606 = Final Quantity: 10000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
921	ICPAES SPIKE SOL#6	MP81026	06/10/2024	06/30/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 06/13/2024

FROM 0.12500ml of M4883 + 1.25000ml of M5192 + 25.00000ml of M5754 + 23.62500ml of MP80924 = Final Quantity: 50.000 ml

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
169	1:1HNO3	MP81119	06/21/2024	10/24/2024	Al-Terek Isaac	METALS_SCALE_2 (M SC-2)	METALS_PIPETTE_1 (ICP A)	Sarabjit Jaswal 06/21/2024

FROM 1250.00000ml of M5935 + 1250.00000ml of W2606 = Final Quantity: 2500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
994	ICPAES ISM01.2 S1 (CONC.)	MP81187	06/25/2024	06/30/2024	Sarabjit Jaswal	None	None	Sohil Jodhani 06/28/2024

FROM 0.03000ml of M5429 + 0.10000ml of M4877 + 0.10000ml of M5798 + 0.14000ml of M5799 + 0.20000ml of M4885 + 0.20000ml of M5298 + 0.20000ml of M5473 + 0.20000ml of M5658 + 0.20000ml of M5747 + 0.20000ml of M5801 + 0.20000ml of M5815 + 0.30000ml of M5698 + 0.40000ml of M5289 + 0.50000ml of M4889 + 0.50000ml of M5697 + 0.70000ml of M4883 + 0.70000ml of M5224 + 0.80000ml of M5494 + 1.00000ml of M5192 + 1.00000ml of M5227 + 1.00000ml of M5800 + 1.20000ml of M5817 + 1.20000ml of M5819 + 10.00000ml of M5200 + 10.00000ml of M5288 + 10.00000ml of M5498 + 10.00000ml of M5768 + 10.00000ml of M5818 + 2.00000ml of M4888 + 4.00000ml of M5389 + 32.93000ml of MP80924 = Final Quantity: 100.000 ml

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
994	ICPAES ISM01.2 S1 (CONC.)	MP81208	06/25/2024	06/30/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 06/27/2024

FROM 0.02000ml of M5815 + 0.03000ml of M5429 + 0.10000ml of M4877 + 0.10000ml of M5798 + 0.14000ml of M5799 + 0.20000ml of M4885 + 0.20000ml of M5192 + 0.20000ml of M5298 + 0.20000ml of M5473 + 0.20000ml of M5658 + 0.20000ml of M5747 + 0.20000ml of M5801 + 0.20000ml of M5817 + 0.30000ml of M5698 + 0.40000ml of M5289 + 0.50000ml of M4889 + 0.50000ml of M5697 + 0.70000ml of M4883 + 0.80000ml of M5494 + 1.00000ml of M5227 + 1.00000ml of M5800 + 1.20000ml of M5224 + 1.20000ml of M5819 + 10.00000ml of M5200 + 10.00000ml of M5288 + 10.00000ml of M5468 + 10.00000ml of M5497 + 10.00000ml of M5818 + 2.00000ml of M4888 + 4.00000ml of M5387 + 34.41000ml of MP80924 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1003	ICPAES ISM01.2 S1	MP81209	06/25/2024	06/30/2024	Sarabjit Jaswal	None	None	Mohan Bera 06/27/2024

FROM 0.50000ml of MP81208 + 99.50000ml of MP80924 = 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
1222	ICV ICPAES	MP81250	06/24/2024	06/30/2024	Sarabjit Jaswal	None	None	mohammad ahmed 07/01/2024

FROM 0.25000ml of M4878 + 5.00000ml of M5294 + 44.75000ml of MP80924 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
902	ICP AES CAL BLK (SO/ICB/CCB)	MP81288	07/01/2024	07/30/2024	Sarabjit Jaswal	None	None	Mohan Bera 07/03/2024

FROM 125.00000ml of M5947 + 2350.00000ml of W3112 + 25.00000ml of M5954 = Final Quantity: 2500.000 ml

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1004	ICPAES ISM01.2 (S5)	MP81289	07/01/2024	07/30/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 07/03/2024

FROM 0.25000ml of M5798 + 0.50000ml of M5429 + 0.50000ml of M5473 + 0.50000ml of M5815 + 0.50000ml of M5817 + 12.50000ml of M5200 + 12.50000ml of M5288 + 12.50000ml of M5698 + 12.50000ml of M5819 + 13.75000ml of M5697 + 14.50000ml of M5289 + 14.50000ml of M5298 + 14.50000ml of M5658 + 2.00000ml of M5513 + 22.50000ml of M5769 + 22.50000ml of M5804 + 5.00000ml of M5272 + 5.00000ml of M5296 + 5.00000ml of M5395 + 5.00000ml of M5818 + 5.00000ml of M5875 + 318.50000ml of MP81288 = Final Quantity: 500.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1005	ICPAES ISM01.2(S4)	MP81290	07/01/2024	07/30/2024	Sarabjit Jaswal	None	None	Mohan Bera 07/03/2024

FROM 250.00000ml of MP81288 + 250.00000ml of MP81289 = Final Quantity: 500.000 ml

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1007	ICPAES ISM01.2(S3)	MP81291	07/01/2024	07/30/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 07/03/2024

FROM 25.00000ml of MP81289 + 75.00000ml of MP81288 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1008	ICPAES ISM01.2(S2)	MP81292	07/01/2024	07/30/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 07/03/2024

FROM 12.50000ml of MP81289 + 87.50000ml of MP81288 = Final Quantity: 100.000 ml

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
994	ICPAES ISM01.2 S1 (CONC.)	MP81293	07/01/2024	07/07/2024	Sarabjit Jaswal	None	None	Mohan Bera 07/03/2024

FROM 0.02000ml of M5815 + 0.03000ml of M5429 + 0.10000ml of M4877 + 0.10000ml of M5798 + 0.14000ml of M5799 + 0.20000ml of M4885 + 0.20000ml of M5192 + 0.20000ml of M5298 + 0.20000ml of M5473 + 0.20000ml of M5658 + 0.20000ml of M5747 + 0.20000ml of M5801 + 0.20000ml of M5817 + 0.30000ml of M5698 + 0.40000ml of M5289 + 0.50000ml of M4889 + 0.50000ml of M5697 + 0.80000ml of M5494 + 1.00000ml of M5227 + 1.00000ml of M5800 + 1.20000ml of M5224 + 1.20000ml of M5819 + 10.00000ml of M5200 + 10.00000ml of M5288 + 10.00000ml of M5769 + 10.00000ml of M5804 + 10.00000ml of M5818 + 2.00000ml of M4888 + 4.00000ml of M5387 + 35.11000ml of MP81288 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1003	ICPAES ISM01.2 S1	MP81294	07/01/2024	07/07/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 07/03/2024

FROM 0.50000ml of MP81293 + 99.50000ml of MP81288 = Final Quantity: 100.000 ml

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

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
1222	ICV ICPAES	MP81295	07/01/2024	07/28/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 07/03/2024

FROM 0.25000ml of M4878 + 5.00000ml of M5294 + 44.75000ml of MP81288 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
904	ICP AES ICSA SOLN	MP81296	07/01/2024	07/30/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 07/03/2024

FROM 25.00000ml of M5130 + 225.00000ml of MP81288 = Final Quantity: 250.000 ml

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
905	ICP AES ICSAB SOLN	MP81297	07/01/2024	07/30/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 07/03/2024

FROM 25.00000ml of M5130 + 25.00000ml of M5223 + 200.00000ml of MP81288 = Final Quantity: 250.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1119	ICPAES ISM01.2(CCV)	MP81298	07/01/2024	07/30/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 07/03/2024

FROM 1.50000ml of M5200 + 1.50000ml of M5497 + 1.50000ml of M5769 + 2.45000ml of M5289 + 2.45000ml of M5298 + 39.55000ml of MP81288 + 50.00000ml of MP81289 = Final Quantity: 50.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
919	ICP AES INTERNAL STD	MP81300	07/01/2024	07/30/2024	Sarabjit Jaswal	None	METALS_PIPETTE_3 (A)	Mohan Bera 07/03/2024

FROM 1.00000ml of M5959 + 10.00000ml of M4960 + 1969.00000ml of W3112 + 20.00000ml of M5954 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
903	ICP AES RINSE SOLN	MP81301	07/01/2024	07/30/2024	Sarabjit Jaswal	None	None	Mohan Bera 07/03/2024

FROM 200.00000ml of M5954 + 9800.00000ml of W3112 = Final Quantity: 10000.000 ml

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2480	ICP AES STD 6 ISM01.3	MP81308	07/01/2024	07/30/2024	Sarabjit Jaswal	None	None	Mohan Bera 07/03/2024

FROM 4.00000ml of M5200 + 4.00000ml of M5289 + 4.00000ml of M5298 + 4.00000ml of M5769 + 4.00000ml of M5804 + 30.00000ml of MP81288 = Final Quantity: 50.000 ml

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57048 / Cd, 1000 PPM, 125 ml	072821	07/28/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4877

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57042 / Mo, 1000 PPM, 125 ml	072821	07/28/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4878

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	070221	07/02/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4883

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	072921	07/29/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4885

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57022 / Ti, 1000 PPM, 125 ml	070721	07/07/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4888

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	073021	07/30/2024	08/06/2021 / jaswal	08/05/2021 / jaswal	M4889

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGIN10-5 / INDIUM 1 x 500 ml	100721	10/07/2024	10/09/2021 / jaswal	10/08/2021 / jaswal	M4960

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58139 / Y, 10000 PPM, 500 ml	052521	06/25/2024	10/09/2021 / jaswal	01/25/2019 / jaswal	M4961

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	11/19/2024	05/20/2024 /	04/20/2021 / bin	M5130

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57042 / Mo, 1000 PPM, 125 ml	051722	05/17/2025	07/01/2022 / bin	06/17/2022 / jaswal	M5192

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	092121	09/21/2024	06/23/2022 / bin	10/05/2021 / bin	M5200

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	11/19/2024	05/20/2024 /	04/20/2021 / bin	M5223

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57051 / Sb, 1000 PPM, 125 ml	101521	10/15/2024	06/29/2022 / bin	10/18/2021 / bin	M5224

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	100121	10/01/2024	07/01/2022 / bin	10/18/2021 / bin	M5227

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Antimony (Sb)	051822	05/18/2025	05/10/2023 / bin	08/24/2022 / jaswal	M5272

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58119 / K, 10000 PPM, 500 ml	071122	07/11/2025	09/01/2022 / jaswal	07/21/2022 / jaswal	M5288

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58113 / Aluminum (Al) 10,000PPM	070622	07/06/2025	09/02/2022 / jaswal	07/12/2022 / jaswal	M5289

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-1 / ICV (ICP/ICPMS) STOCK SOLN	ICV-1014	01/01/2025	12/13/2023 / bin	02/20/2020 / bin	M5294

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	Z9651Q / CHEM-CLP-4/.25L	S2-MEB711673	11/02/2026	09/19/2022 / jaswal	08/20/2022 / jaswal	M5296

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58126 / Fe, 10000 PPM, 500 ml	020422	02/04/2025	05/02/2023 / jaswal	06/15/2022 / jaswal	M5298

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57056 / Ba, 1000 PPM, 125 ml	072122	07/21/2025	11/01/2022 / jaswal	09/18/2022 / jaswal	M5387

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	04/29/2024 / kareem	09/18/2022 / bin	M5389

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-CAL-3 / CLP CAL SOLUTION #3, 125mL	T2-MEB714159	01/13/2027	01/30/2024 / bin	09/19/2022 / bin	M5395

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57103 / Li, 10000 PPM, 125 ml	070622	07/06/2025	01/30/2023 / bin	01/26/2023 / bin	M5429

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58112 / Mg, 10000 PPM, 500 ml	120922	12/09/2025	03/14/2023 / jaswal	03/14/2023 / jaswal	M5468

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.	57028 / Ni, 1000 PPM, 125 ml	011223	01/12/2026	01/20/2023 / bin	01/19/2023 / bin	M5494

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	03/18/2023 / bin	03/17/2023 / bin	M5497

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	031523	03/15/2026	08/15/2023 / jaswal	03/17/2023 / bin	M5498

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57182 / Pb, 10000 PPM, 125 ml	061522	06/15/2025	03/19/2023 / bin	03/17/2023 / bin	M5513

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	1403 / Hydrogen Peroxide, 30% 1 gal	820803	08/31/2024	01/03/2024 /	08/03/2022 / Al-Terek	M5632

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58024 / Chromium, Cr, 500 ml, 1000 PPM	060523	06/05/2026	08/28/2023 / jaswal	08/25/2023 / jaswal	M5658

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58029 / Cu, 1000 PPM, 500 ml	102523	10/25/2026	04/03/2024 / jaswal	10/27/2023 / jaswal	M5697

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58025 / Mn, 1000 PPM, 500 ml	102623	10/26/2026	04/18/2024 / jaswal	10/27/2023 / jaswal	M5698

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ Lead (Pb) 1000PPM	100923	10/09/2026	05/20/2024 / Jaswal	12/20/2023 / jaswal	M5747

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	52166 / ICP-AES Spike sample water matrix (18 comp.)	112823	11/28/2026	05/01/2024 / jaswal	12/15/2023 / jaswal	M5754

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	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	02/09/2024 / bin	02/09/2024 / bin	M5800

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57033 / As, 1000 PPM, 125 ml	111323	11/13/2026	02/09/2024 / bin	02/09/2024 / bin	M5801

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58120 / Ca, 10000 PPM, 500 ml	122223	12/22/2026	07/01/2024 / kareem	01/03/2024 / jaswal	M5804

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.	57116 / S, 10000 PPM, 125 ml	071123	07/11/2026	03/01/2024 / jaswal	02/09/2024 / jaswal	M5817

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	57014 / Si, 1000 PPM, 125 ml	122023	12/20/2026	03/06/2024 / jaswal	02/09/2024 / jaswal	M5818

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	58030 / Zinc, Zn, 500 ml, 1000 PPM	111623	11/16/2026	03/20/2024 / jaswal	02/09/2024 / jaswal	M5819

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CLPP-CAL-1 / CLP CAL SOLUTION #1, 125mL	T2-MEB714417	01/27/2027	04/19/2024 / jaswal	02/22/2024 / jaswal	M5875

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	240415	11/06/2024	06/04/2024 / Al-Terek	05/07/2024 / Al-Terek	M5895

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	11/29/2024	05/30/2024 / Al-Terek	05/24/2024 / Al-Terek	M5915

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	12/08/2024	06/21/2024 / Al-Terek	06/07/2024 / Al-Terek	M5935

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	12/20/2024	/	06/18/2024 / Al-Terek	M5940

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)	22G2862015	12/27/2024	06/27/2024 / Al-Terek	06/23/2024 / Al-Terek	M5947

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	01/02/2025	07/01/2024 / Al-Terek	06/25/2024 / Al-Terek	M5954

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	CGY10-1 / YTTRIUM 125mL 10,000ug/mL	V2-Y740548	02/20/2029	07/01/2024 / Jaswal	06/14/2024 / Jaswal	M5959

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 01/03/24 M5804, M5805

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 122223
Description: Calcium (Ca)

Expiration Date: 122226
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 4000.0 0.06 Flask Uncertainty

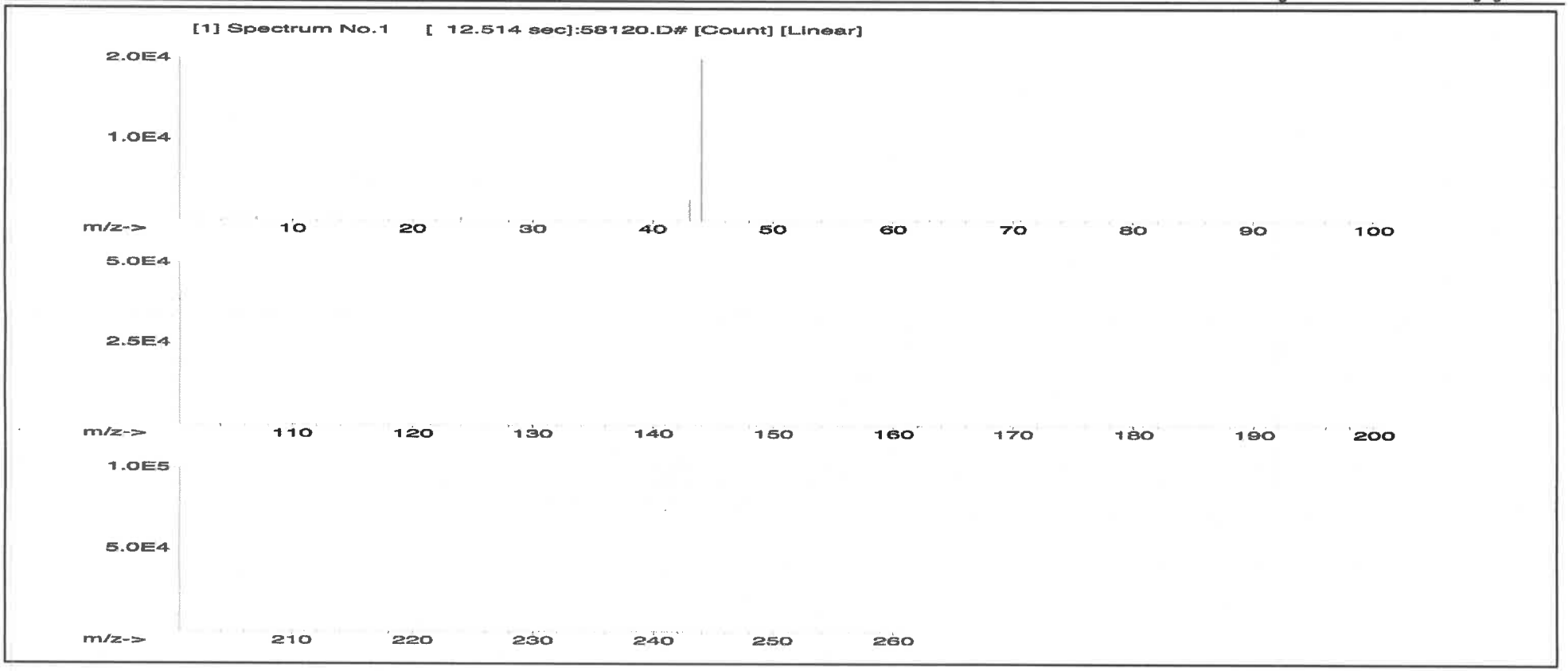
	Lot #		
Solvent:	24002546	Nitric Acid	
2%	80.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	

Giovanni Esposito
Formulated By: Giovanni Esposito 122223

Pedro Rentas
Reviewed By: Pedro L. Rentas 122223

417

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	CAD03202383	10000	99.999	0.10	39.9	100.2525	100.2670	**10001.4**	**20.0**	471-34-1	5 mg/m3	orl-rat >2000mg/kg	3109a



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	30	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

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CHEM-CLP-4
Lot Number:	S2-MEB711673
Matrix:	3% (v/v) HNO3 3% (v/v) HF
Value / Analyte(s):	1 000 µg/mL ea: Boron, Molybdenum, Silicon, Tin, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Boron, B	**1 000 ± 6 µg/mL**	**Molybdenum, Mo**	**1 000 ± 6 µg/mL**
Silicon, Si	**1 000 ± 7 µg/mL**	**Tin, Sn**	**1 000 ± 6 µg/mL**
Titanium, Ti	**1 000 ± 7 µg/mL**		

Density: 1.030 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	110830
Mo	ICP Assay	3134	130418
Si	ICP Assay	3150	130912
Sn	ICP Assay	3161a	140917
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 02, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 02, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-CAL-1
Lot Number:	T2-MEB714417
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	5 000 µg/mL ea: Calcium, Potassium, Magnesium, Sodium, 2 000 µg/mL ea: Aluminum, Barium, 1 000 µg/mL ea: Iron, 500 µg/mL ea: Nickel, Vanadium, Zinc, Cobalt, Manganese, 250 µg/mL ea: Silver, Copper, 200 µg/mL ea: Chromium, 50 µg/mL ea: Beryllium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**2 000 ± 7 µg/mL**	**Barium, Ba**	**2 000 ± 9 µg/mL**
Beryllium, Be	**50.00 ± 0.26 µg/mL**	**Calcium, Ca**	**5 000 ± 22 µg/mL**
Chromium, Cr	**200.0 ± 1.0 µg/mL**	**Cobalt, Co**	**500.0 ± 2.4 µg/mL**
Copper, Cu	**250.0 ± 1.0 µg/mL**	**Iron, Fe**	**1 000 ± 4 µg/mL**
Magnesium, Mg	**5 000 ± 20 µg/mL**	**Manganese, Mn**	**500.0 ± 2.0 µg/mL**
Nickel, Ni	**500.0 ± 2.2 µg/mL**	**Potassium, K**	**5 000 ± 19 µg/mL**
Silver, Ag	**250.0 ± 1.1 µg/mL**	**Sodium, Na**	**5 000 ± 18 µg/mL**
Vanadium, V	**499.7 ± 2.2 µg/mL**	**Zinc, Zn**	**500.0 ± 2.2 µg/mL**

Density: 1.118 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
V	IC Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 27, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 27, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

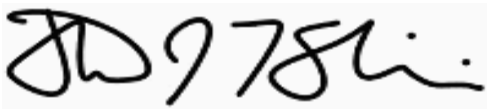
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	CLPP-CAL-3
Lot Number:	T2-MEB714159
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Arsenic, Lead, Selenium, Thallium, 500 µg/mL ea: Cadmium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Arsenic, As	**1 000 ± 8 µg/mL**	**Cadmium, Cd**	**500.0 ± 2.1 µg/mL**
Lead, Pb	**1 000 ± 5 µg/mL**	**Selenium, Se**	**1 000 ± 8 µg/mL**
Thallium, Tl	**1 000 ± 7 µg/mL**		

Density: 1.043 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Tl	ICP Assay	3158	151215

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

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

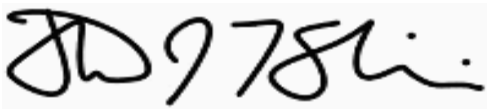
- Sealed TCT Bag Open Date: _____

- 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

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57048**	20370011	Nitric Acid	
Lot Number:	**072821**			
Description:	**Cadmium (Cd)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	072824			
Recommended Storage:	Ambient (20 ºC)			
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	

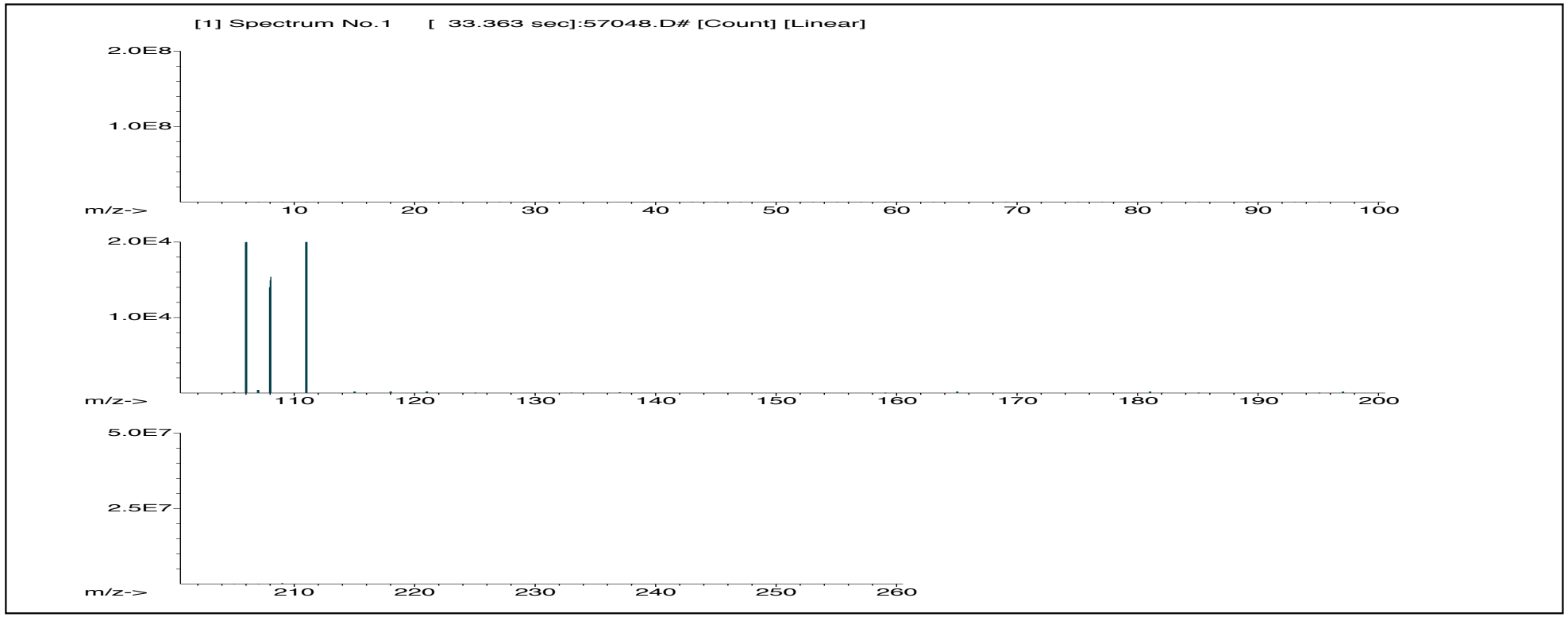
Giovanni Esposito

Formulated By:	Giovanni Esposito	072821

Pedro Rentas

Reviewed By:	Pedro L. Rentas	072821

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. Cadmium nitrate tetrahydrate (Cd)	58148	010920	0.1000	200.0	0.084	1000	10000.5	**1000.0**	**2.2**	10022-68-1	0.2 mg/m3	orl-rat 300 mg/kg	3108



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																		
Al	<0.02	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M4878 R: 8/5/21

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 57042
Lot Number: 072821
Description: Molybdenum (Mo)

Expiration Date: 072824
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 2000.02

Lot #	Solvent:			
MKBQ8597V	Ammonium hydroxide			
0.5%	10.0 (mL)	Ammonium hydroxide		

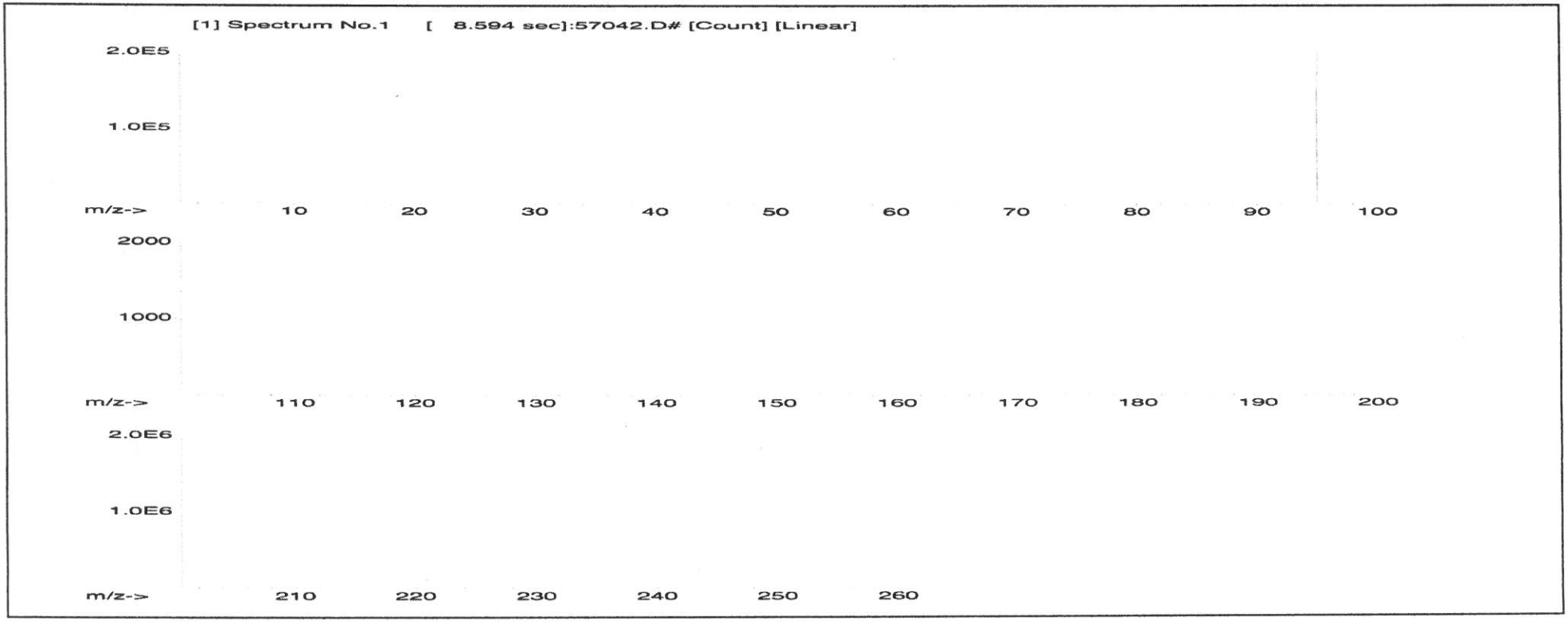
5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 072821

Pedro Rentas
Reviewed By: Pedro L. Rentas 072821

431

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 molybdate (Mo)	58142	042220	0.1000	200.0	0.084	1000	10000.9	**1000.0**	**2.2**	13106-76-8	5 mg(Mo)/m3	orl-rat 333 mg/kg	3134



432

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	<0.02	Ge	<0.02	La	<0.02	Mo	T	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57034**	20370011	Nitric Acid	
Lot Number:	**070221**			
Description:	**Selenium (Se)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	070224			
Recommended Storage:	Ambient (20 ºC)			
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	

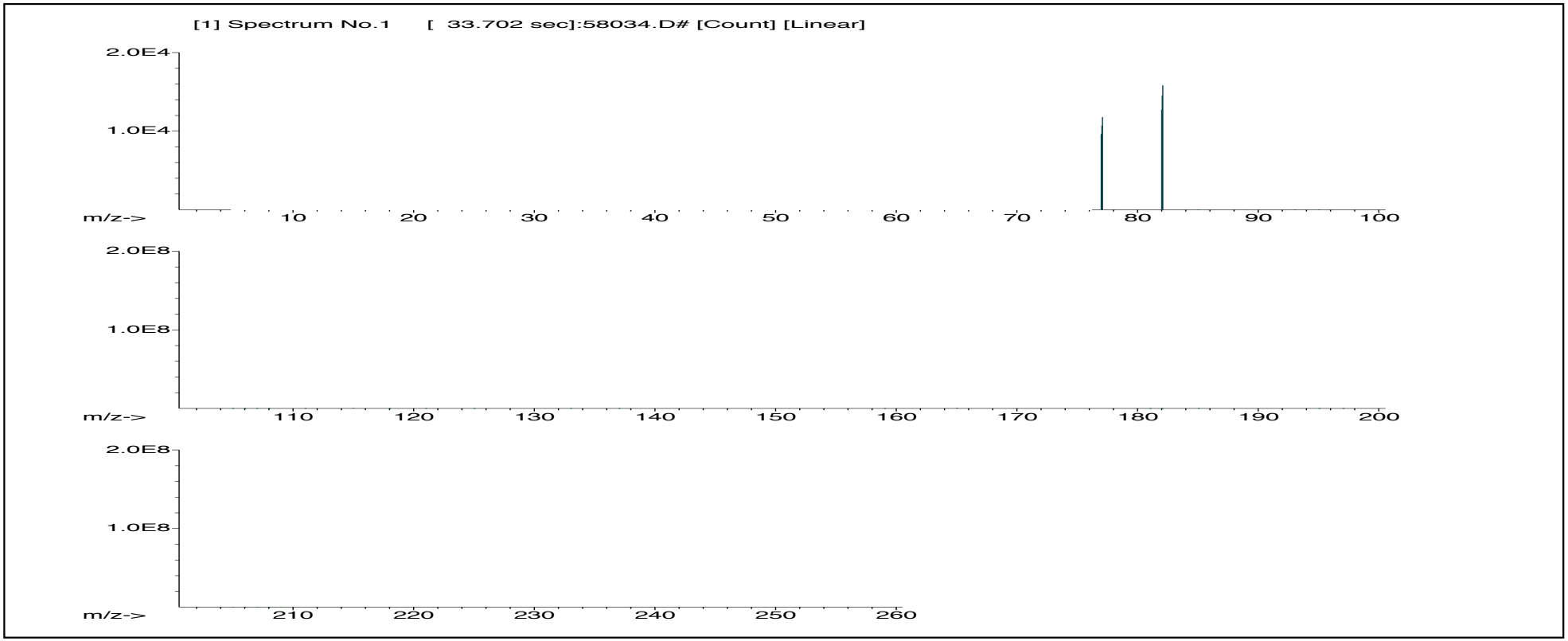
Giovanni Esposito

Formulated By:	Giovanni Esposito	070221

Pedro Rentas

Reviewed By:	Pedro L. Rentas	070221

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(IV) oxide (Se)	58134	021621	0.1000	200.0	0.084	1000	10000.2	**1000.0**	**2.2**	7446-08-4	0.2 mg/m3	orl-rat 68 mg/kg	3149



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	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

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57047**	20370011	Nitric Acid	
Lot Number:	**072921**			
Description:	**Silver (Ag)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	072924			
Recommended Storage:	Ambient (20 ºC)			
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	

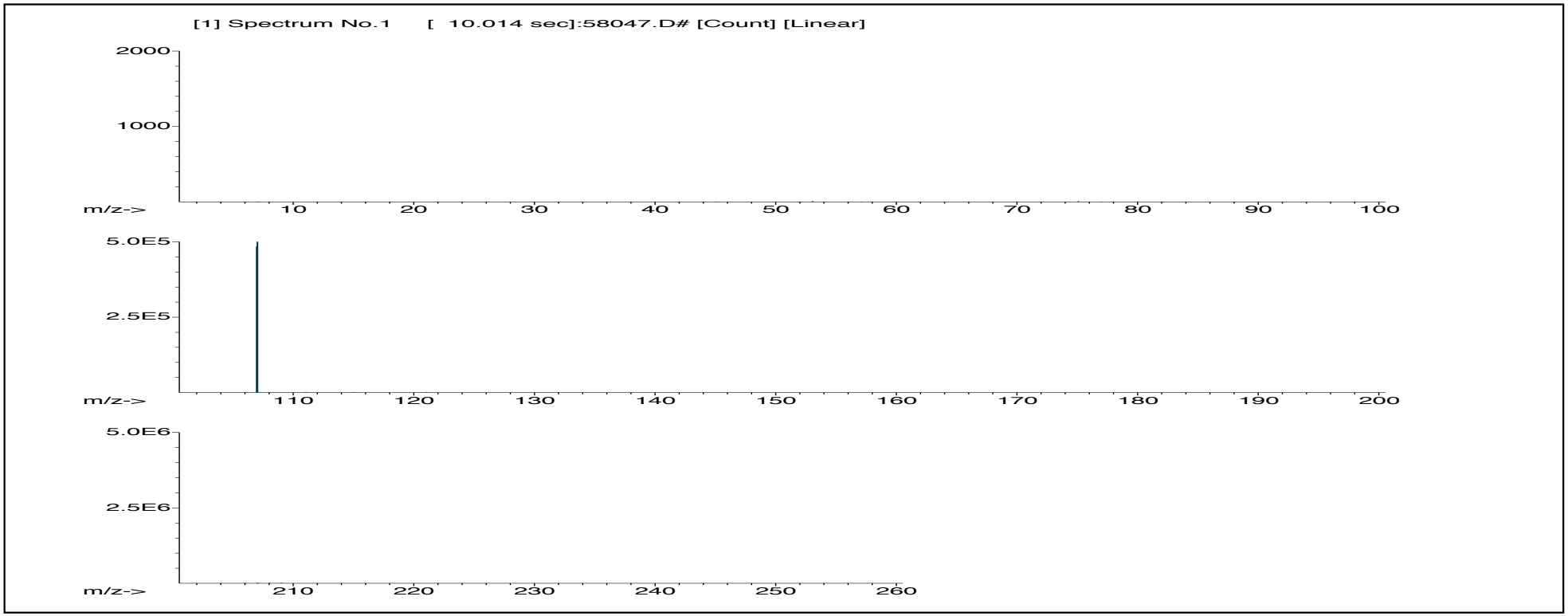
Giovanni Esposito

Formulated By:	Giovanni Esposito	072921

Pedro Rentas

Reviewed By:	Pedro L. Rentas	072921

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. Silver nitrate (Ag)	58147	010820	0.1000	200.0	0.084	1000	10000.4	**1000.0**	**2.2**	7761-88-8	10 ug/m3	N/A	3151



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	T	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

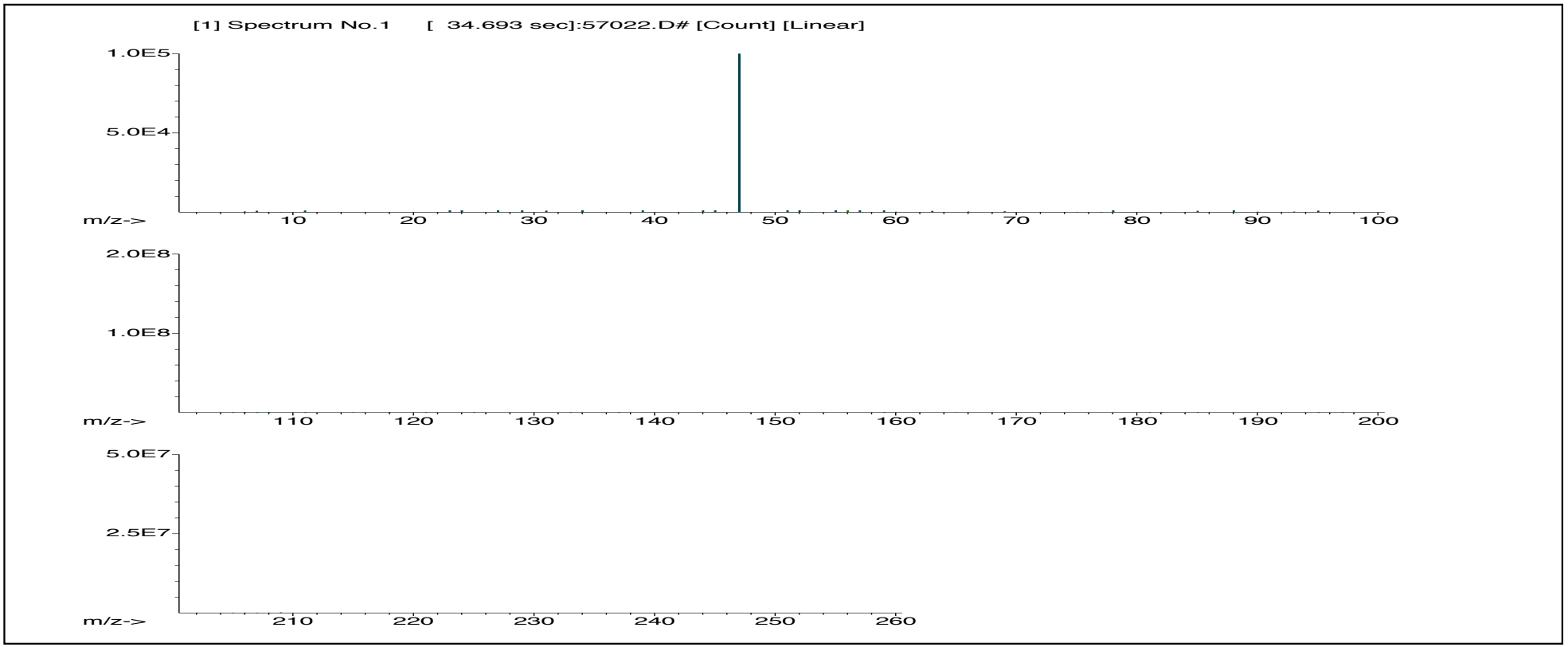
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57022**	20370011	Nitric Acid	
Lot Number:	**070721**			
Description:	**Titanium (Ti)**			
		2.0%	40.0	Nitric Acid
Expiration Date:	070724		(mL)	
Recommended Storage:	Ambient (20 ºC)			
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 070721
Reviewed By:	Pedro L. Rentas 070721

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette	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 hexafluorotitanate (Ti)	58122	070120	0.1000	200.0	0.084	1000	10000.1	**1000.0**	**2.2**	16962-40-6	2.5 (F) mg/m3	NA	3162a



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	<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	T	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57081**	20370011	Nitric Acid	
Lot Number:	**073021**			
Description:	**Thallium (Tl)**			
		2.0%	40.0	Nitric Acid
Expiration Date:	073024		(mL)	
Recommended Storage:	Ambient (20 ºC)			
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	

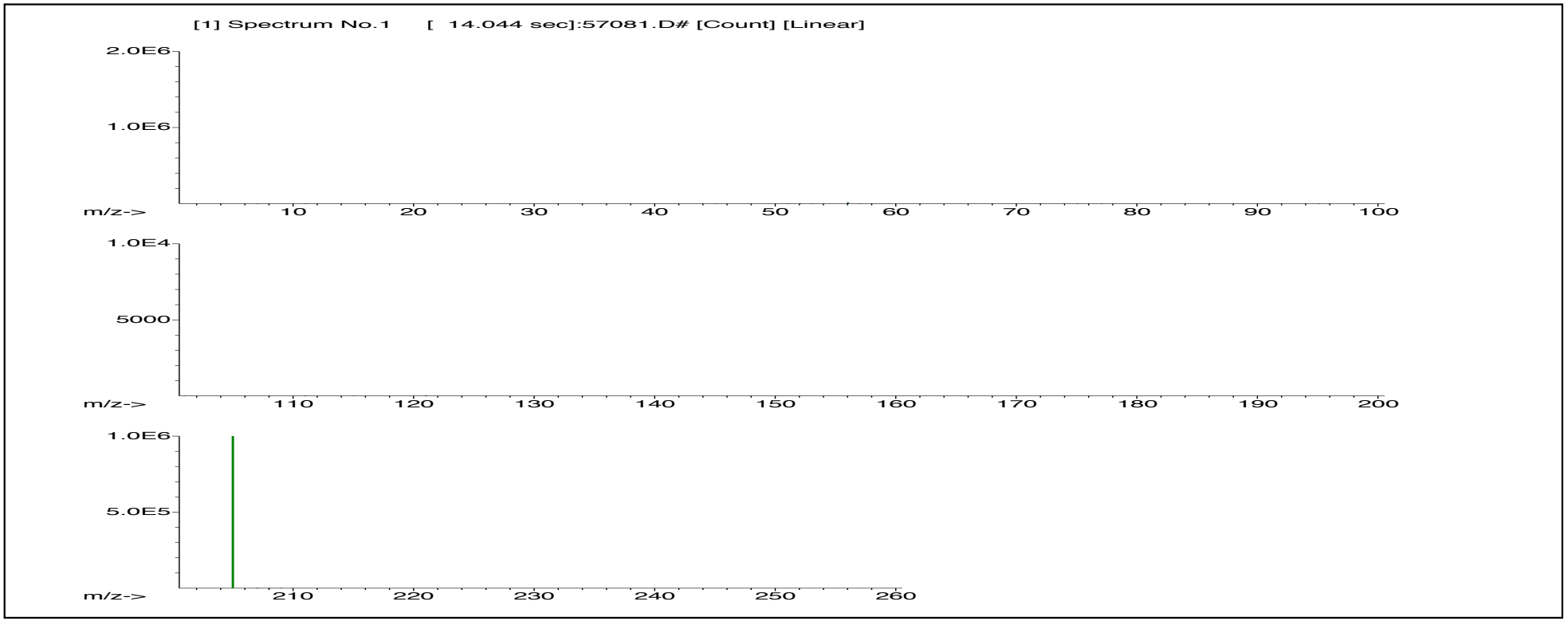
Giovanni Esposito

Formulated By:	Giovanni Esposito	073021

Pedro Rentas

Reviewed By:	Pedro L. Rentas	073021

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. Thallium (Tl)	58181	060920	0.1000	200.0	0.084	1000	10001.0	**1000.0**	**2.2**	7440-28-0	0.1 mg/m3	orl-rat 6700 mg/kg	3158



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	T	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M4960 R: 10/08/21 BH

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

441

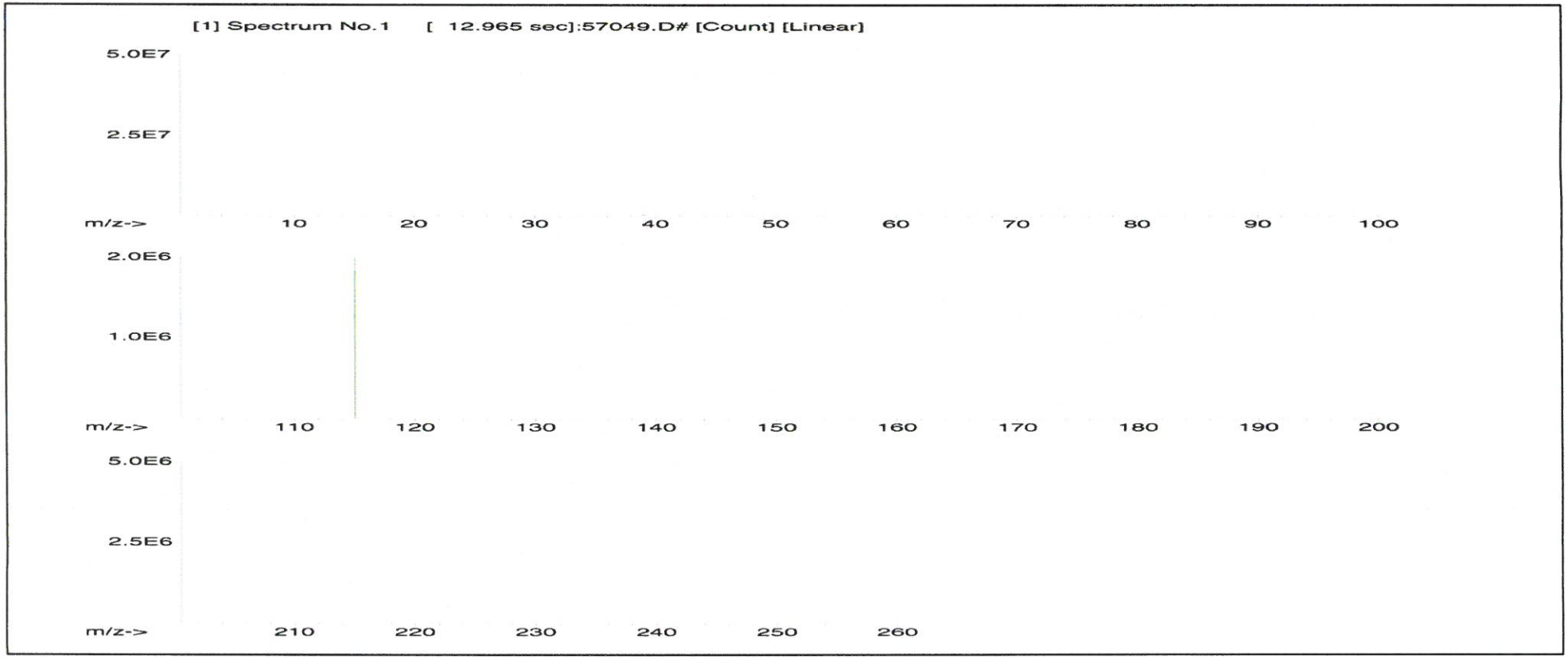
CERTIFIED WEIGHT REPORT:

Part Number:	**58149**		**Lot #**		
Lot Number:	**100721**	**Solvent:**	20370011	Nitric Acid	
Description:	**Indium (In)**	5%	25.0 (mL)	Nitric Acid	
Expiration Date:	100724				
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):	500.06	0.058	Flask Uncertainty		

Giovanni Esposito

Formulated By:	Giovanni Esposito	100721
Reviewed By:	Pedro L. Rentas	100721

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. Indium Oxide (In)	IN086	W1096A	10000	99.999	0.10	82.6	6.05408	6.05441	**10000.6**	**20.1**	1312-43-2	NA	NA	3124a



442

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	T	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

M4961 R: 10/08/21 BH

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

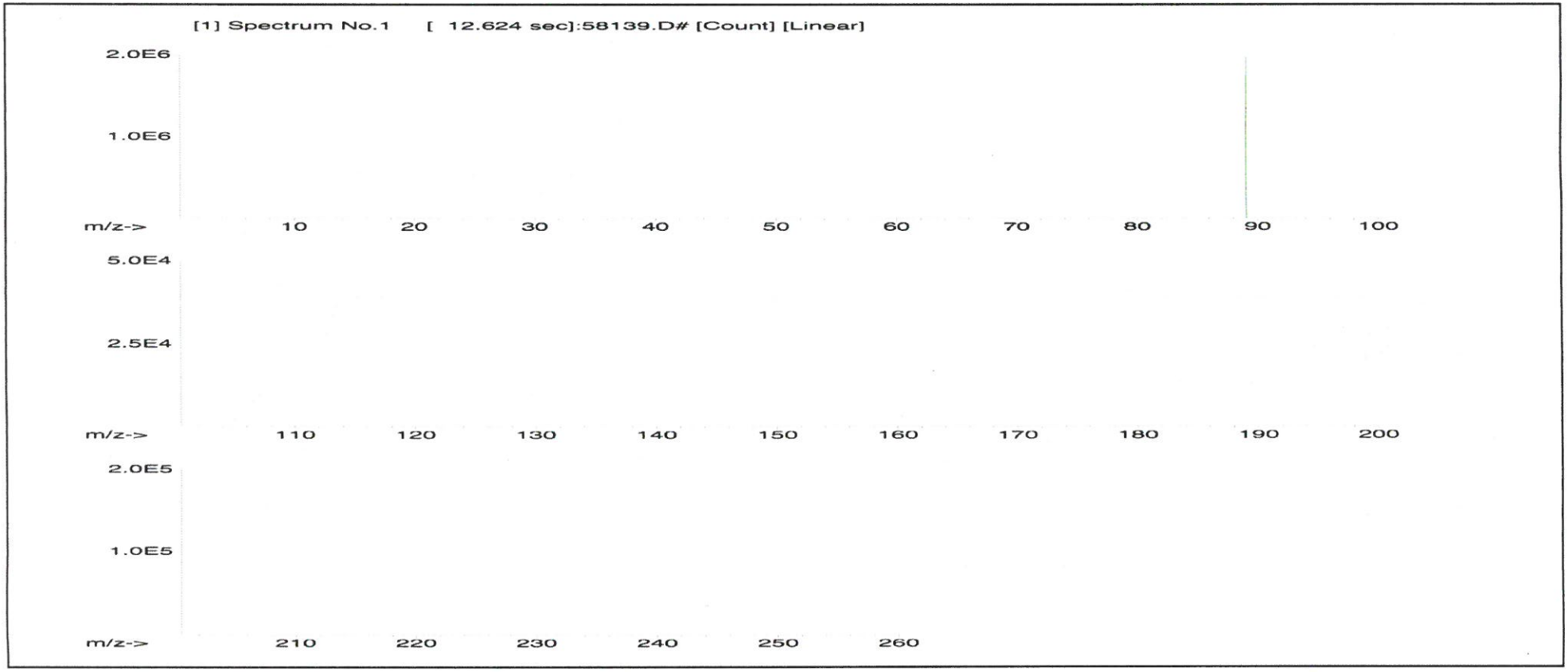
443

CERTIFIED WEIGHT REPORT:

Part Number:	**58139**		**Lot #**		
Lot Number:	**052521**	**Solvent:**	20370011	Nitric Acid	
Description:	**Yttrium (Y)**				
		2%	40.0 (mL)	Nitric Acid	
Expiration Date:	052524				
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 052521
Reviewed By:	Pedro L. Rentas 052521

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. Yttrium (III) Oxide (Y)	IN087	YV012015B1	10000	99.999	0.10	77.9	25.6744	25.6745	**10000.0**	**20.0**	1314-36-9	NA	NA	NA



444

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	T
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
INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

ICSA M5126 M5127 M5128 M5129 M5130

ICSB M5219 M5220 M5221 M5222 M5223

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5192 R: 06/17/22

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

447

CERTIFIED WEIGHT REPORT:

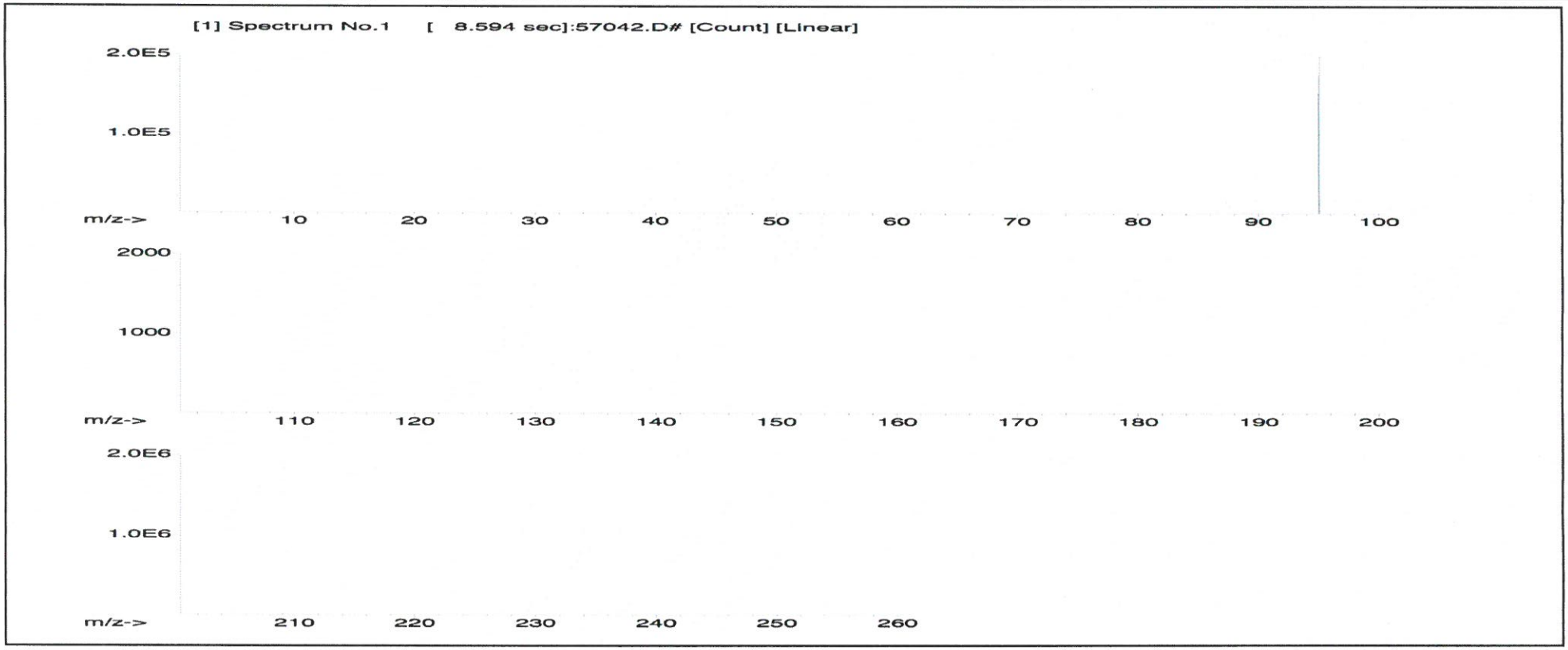
Part Number: 57042
Lot Number: 051722
Description: Molybdenum (Mo)
Expiration Date: 051725
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Volume shown below was diluted to (mL): 3000.41

Lot #	Solvent:		
MKBQ8597V	Ammonium hydroxide		
0.5%	15.0 (mL)	Ammonium hydroxide	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By:	Lawrence Barry	051722
Reviewed By:	Pedro L. Rentas	051722

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 molybdate (Mo)	58142	022222	0.1000	300.0	0.084	1000	10001.0	**1000.0**	**2.1**	13106-76-8	5 mg(Mo)/m3	orl-rat 333 mg/kg	3134



448

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	<0.02	Ge	<0.02	La	<0.02	Mo	T	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M 5700 R: 10/05/21 BH

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

449

CERTIFIED WEIGHT REPORT:

Part Number: 58111
Lot Number: 092121
Description: Sodium (Na)

Expiration Date: 092124
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

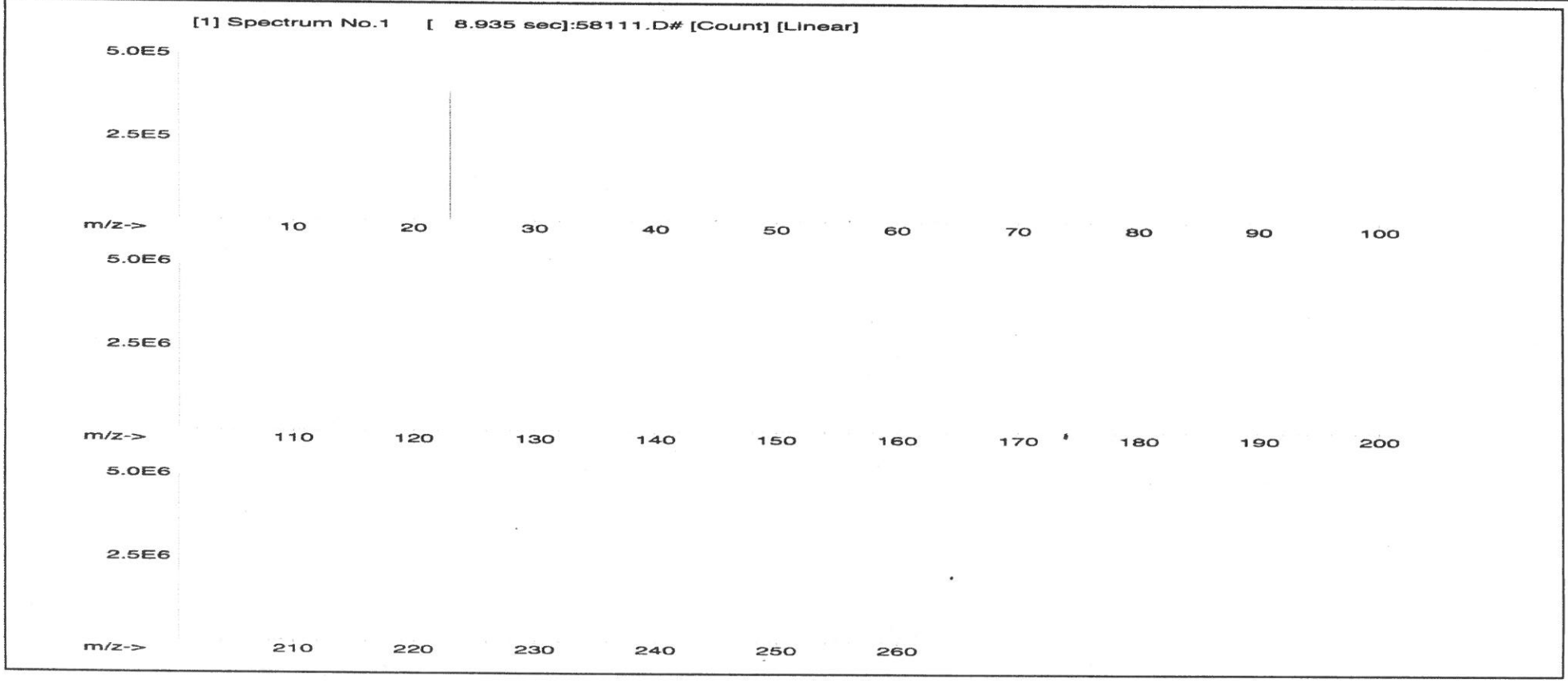
	Lot #		
Solvent:	20370011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	092121
Reviewed By:	Pedro L. Rentas	092121

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	27.0	111.1274	111.1433	**10001.4**	**20.0**	7631-99-4	5 mg/m3	orl-rat 3236 mg/kg	3152a



450

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	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).

QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

CAUTION: The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSA solution by ICP-AES.

ICSB-0710, Analytes, mixed with ICSA-1211, Interferents: Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v HNO_3. Analyze this ICSAB solution by ICP-AES.

(D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710

Element	CRQL	Part A (µg/L)	Low Limit (µg/L)	High Limit (µg/L)	Part A +Part B (µg/L)	Low Limit (µg/L)	High Limit (µg/L)
Al	200	255000	216000	294000	247000	209000	285000
Sb	60	(0.0)	-60.0	60.0	618	525	711
As	10	(0.0)	-10.0	10.0	104	88.4	120
Ba	200	(6.0)	-194	206	(537)	337	737
Be	5.0	(0.0)	-5.0	5.0	495	420	570
Cd	5.0	(1.0)	-4.0	6.0	972	826	1120
Ca	5000	245000	208000	282000	235000	199000	271000
Cr	10	(52.0)	42.0	62.0	542	460	624
Co	50	(0.0)	-50.0	50.0	476	404	548
Cu	25	(2.0)	-23.0	27.0	511	434	588
Fe	100	101000	85600	116500	99300	84400	114500
Pb	10	(0.0)	-10.0	10.0	(49.0)	39.0	59.0
Mg	5000	255000	216000	294000	248000	210000	286000
Mn	15	(7.0)	-8.0	22.0	507	430	584
Ni	40	(2.0)	-38.0	42.0	954	810	1100
Se	35	(0.0)	-35.0	35.0	(46.0)	11.0	81.0
Ag	10	(0.0)	-10.0	10.0	201	170	232
Tl	25	(0.0)	-25.0	25.0	(108)	83.0	133
V	50	(0.0)	-50.0	50.0	491	417	565
Zn	60	(0.0)	-60.0	60.0	952	809	1095

ICSA M5126 M5127 M5128 M5129 M5130

ICSB M5219 M5220 M5221 M5222 M5223

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57051**	20370011	Nitric Acid	
Lot Number:	**101521**			
Description:	**Antimony (Sb)**			
		2.0%	40.0 (mL)	Nitric Acid
Expiration Date:	101524			
Recommended Storage:	Ambient (20 ºC)			
Nominal Concentration (µg/mL):	**1000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volume shown below was diluted to (mL):	2000.25	0.116	Flask Uncertainty	

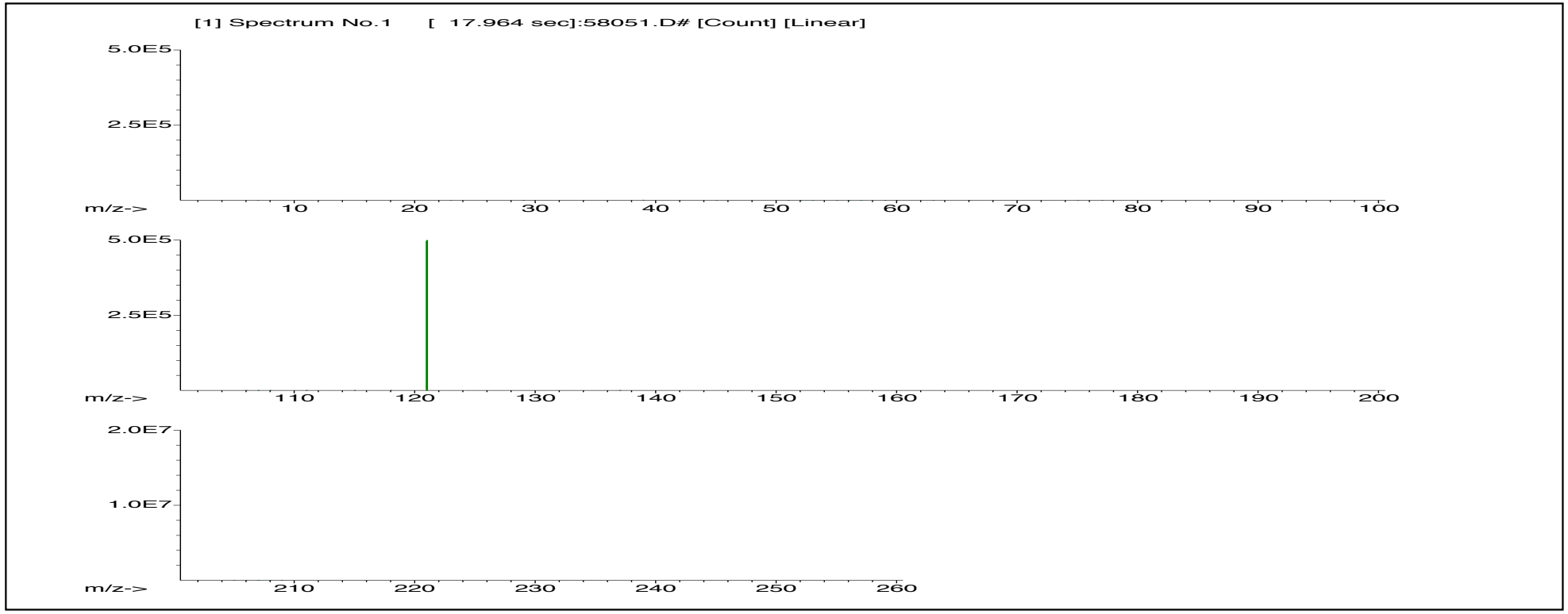
Giovanni Esposito

Formulated By:	Giovanni Esposito	101521

Pedro Rentas

Reviewed By:	Pedro L. Rentas	101521

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	081820	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



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	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:

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).

M5227 R: 10/18/2021

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:	
Part Number:	**57023**			
Lot Number:	**100121**	20370011	Nitric Acid	
Description:	**Vanadium (V)**			
		2.0%	60.0 (mL)	Nitric Acid
Expiration Date:	100124			
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):	3000.4	0.06	Flask Uncertainty	

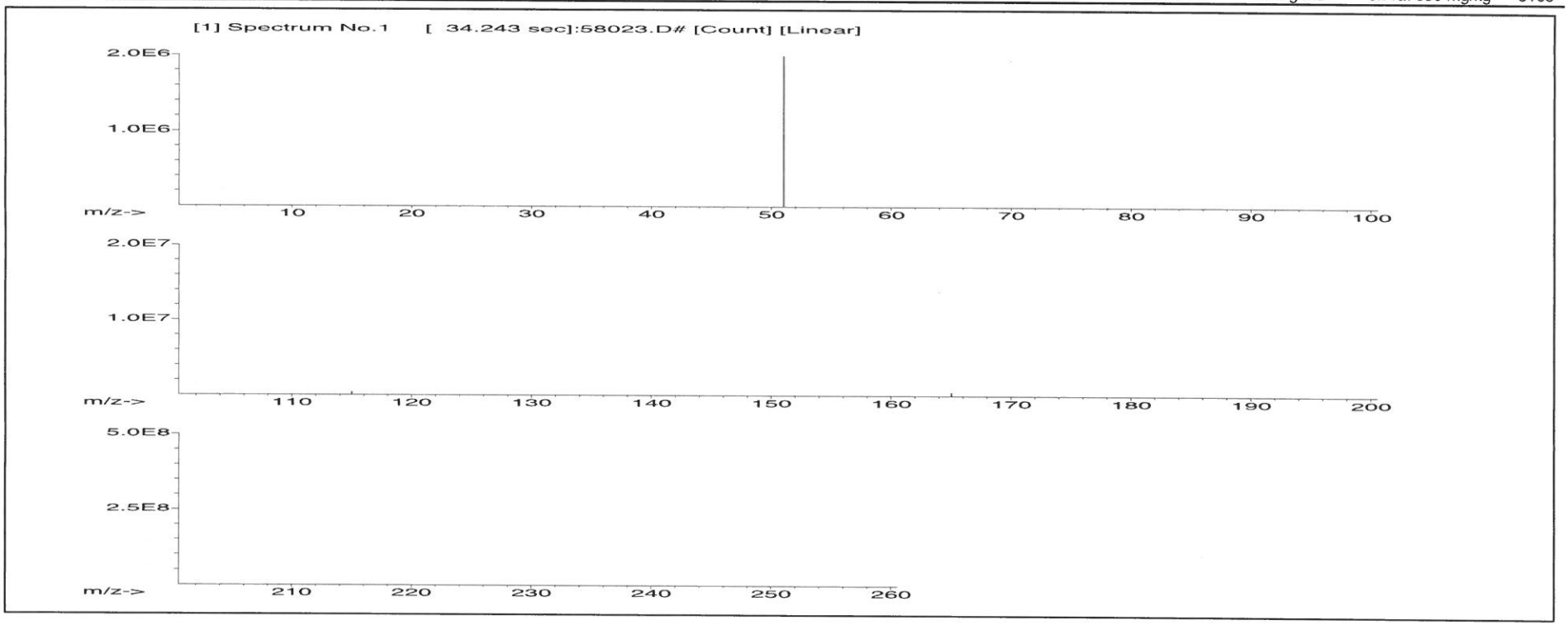
Giovanni Esposito

Formulated By:	Giovanni Esposito	100121

Pedro Rentas

Reviewed By:	Pedro L. Rentas	100121

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	070721	0.1000	300.0	0.084	1000	10000.4	**1000.0**	**2.1**	7803-55-6	1.0 mg/m3	orl-rat 630 mg/kg	3165



455

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	T
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

456

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R 8/24/22 M5272

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

457

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57051**				
Lot Number:	**051822**	20370011	Nitric Acid		
Description:	**Antimony (Sb)**				
		2.0%	60.0 (mL)	Nitric Acid	
Expiration Date:	051825				
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		

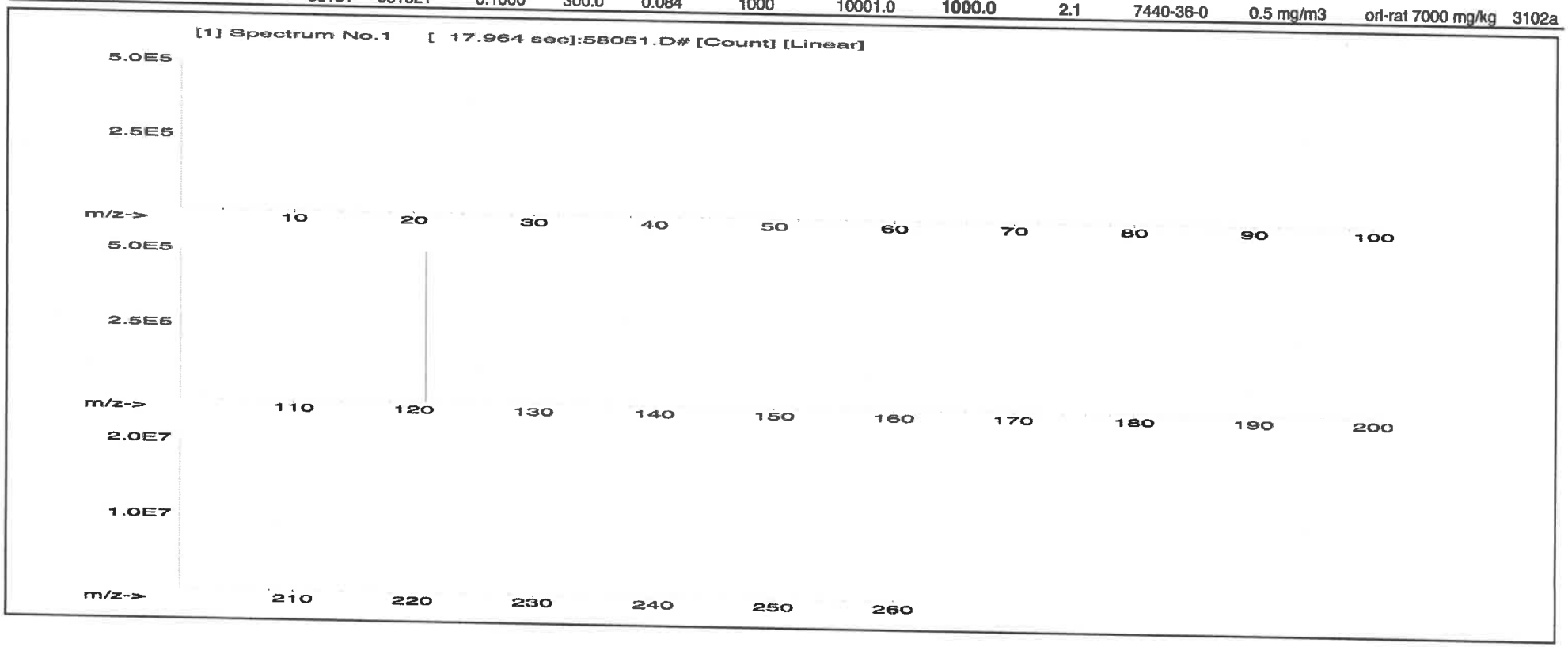
Giovanni Esposito

Formulated By:	Giovanni Esposito	051822

Pedro Rentas

Reviewed By:	Pedro L. Rentas	051822

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	061021	0.1000	300.0	0.084	1000	10001.0	**1000.0**	**2.1**	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a



458

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	T	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

V15200 R: 04/24/22 (BP)

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

459

CERTIFIED WEIGHT REPORT:

Part Number: 58119
Lot Number: 071122
Description: Potassium (K)

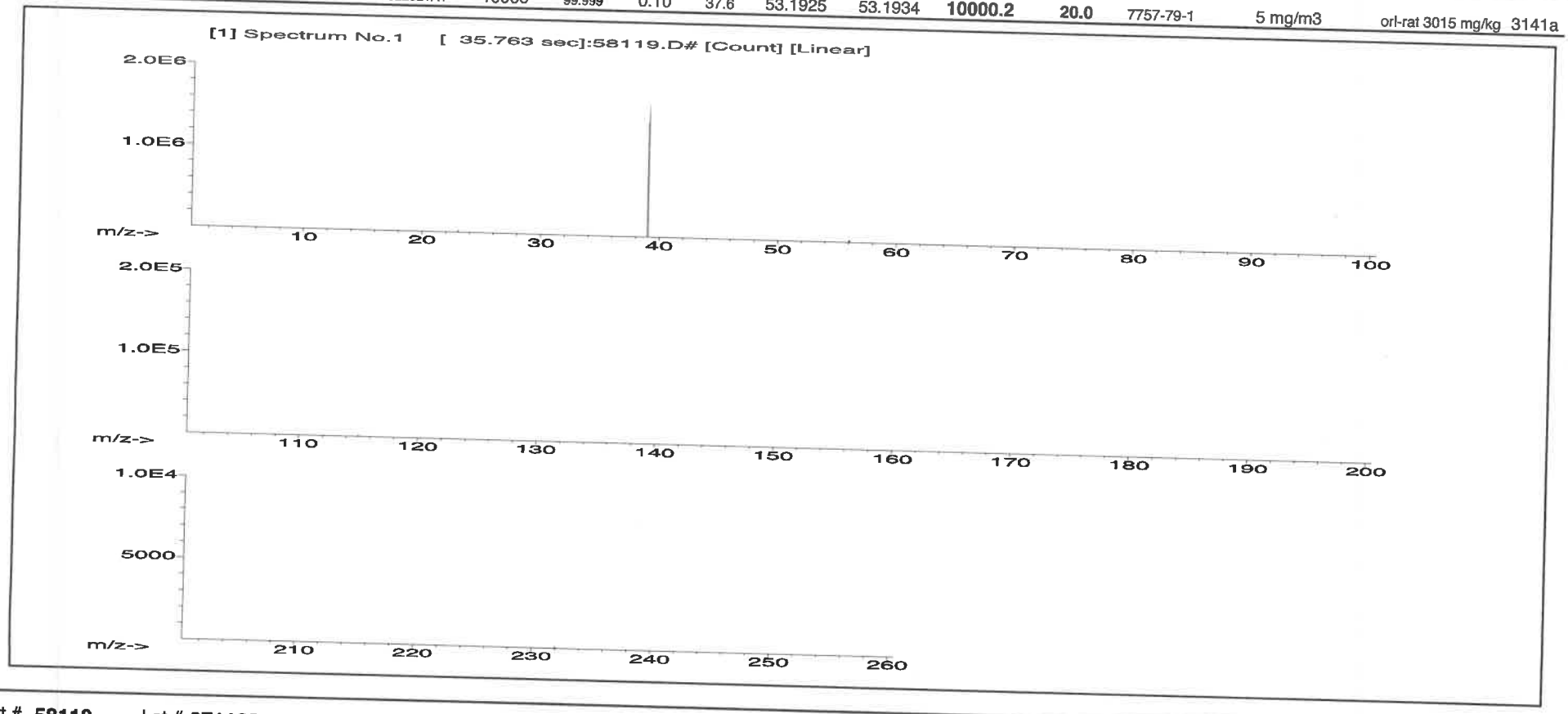
Expiration Date: 071125
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

		Lot #	
Solvent:	20510011		Nitric Acid
2%	40.0 (mL)		Nitric Acid
5E-05	Balance Uncertainty		
0.058	Flask Uncertainty		

Formulated By: Lawrence Barry 071122

Reviewed By: Pedro L. Rentas 071122

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Potassium nitrate (K)	IN034	KD022021A1	10000	99.999	0.10	37.6	53.1925	53.1934	**10000.2**	**20.0**	7757-79-1	5 mg/m3	orl-rat 3015 mg/kg	3141a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	T	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

M5289 R: 07/12/22 BH

Certified Reference Material CRM

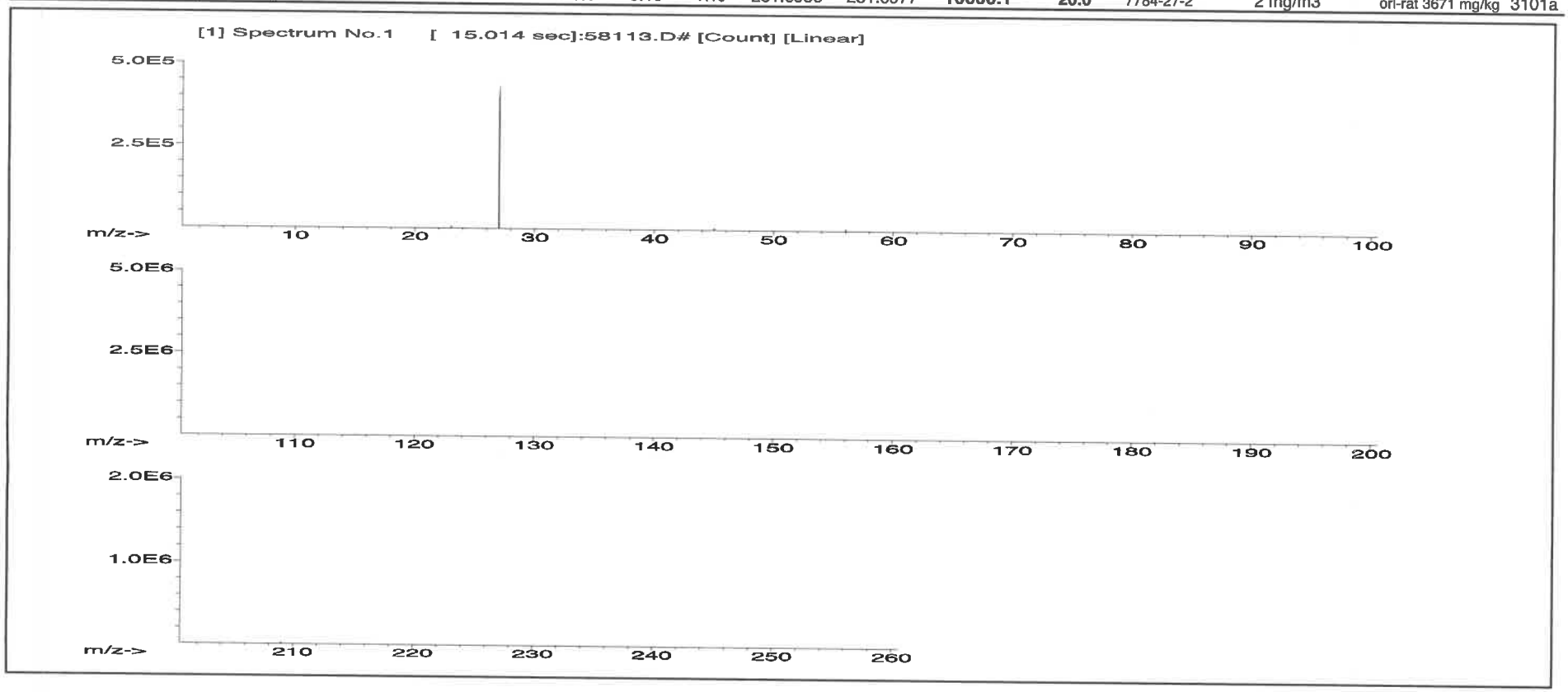
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number:	**58113**			**Lot #**	
Lot Number:	**070622**		**Solvent:**	20370011	Nitric Acid
Description:	**Aluminum (Al)**				
			2%	40.0 (mL)	Nitric Acid
Expiration Date:	070625				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	070622
Reviewed By:	Pedro L. Rentas	070622

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Aluminum nitrate nonahydrate (Al)	IN022	ALD012021A1	10000	99.999	0.10	7.10	281.6956	281.6977	**10000.1**	**20.0**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	T	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions
HAZARDOUS MATERIAL

Safety Data Sheets Available Upon Request

M5291
M5292
M5293
M5294
M5295

(A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

ICV1-1014 For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	**CN^-**	99

SJ 6/15/22

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58126
Lot Number: 020422
Description: Iron (Fe)

M5298

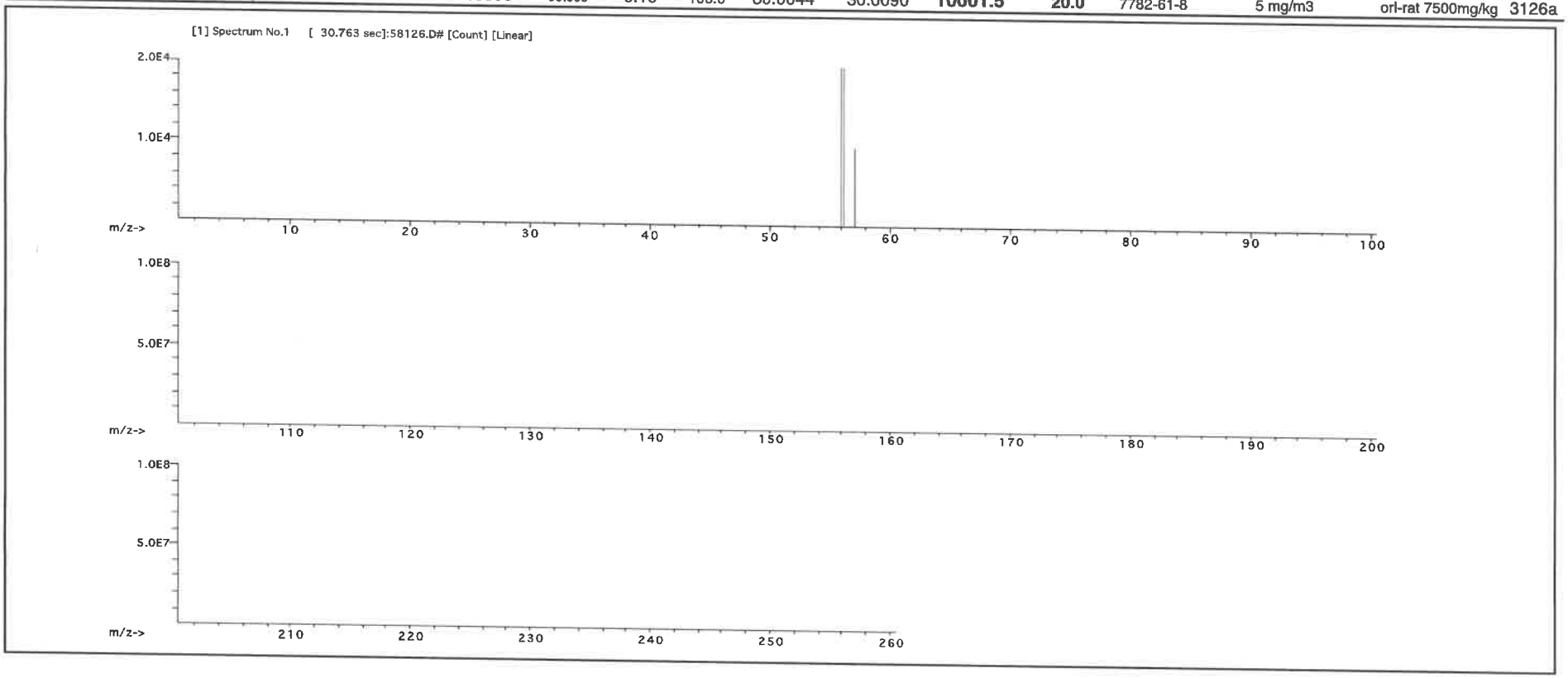
Expiration Date: 020425
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB

	Lot #	
Solvent:	20370011	Nitric Acid
5.0%	150.0 (mL)	Nitric Acid

5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 3000.41 0.058 Flask Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 020422
Reviewed By: Pedro L. Rentas 020422

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Iron(III) nitrate nonahydrate (Fe)	IN346	221035107	10000	99.999	0.10	100.0	30.0044	30.0090	**10001.5**	**20.0**	7782-61-8	5 mg/m3	orl-rat 7500mg/kg	3126a



465

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.10	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.10	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.5	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.10	Ge	<0.10	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.10	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* 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).

466

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

R: 09/08/22 (BH)

Certified Reference Material CRM

M5387 . M5389 . M5390 . M5391 . M5392

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

467

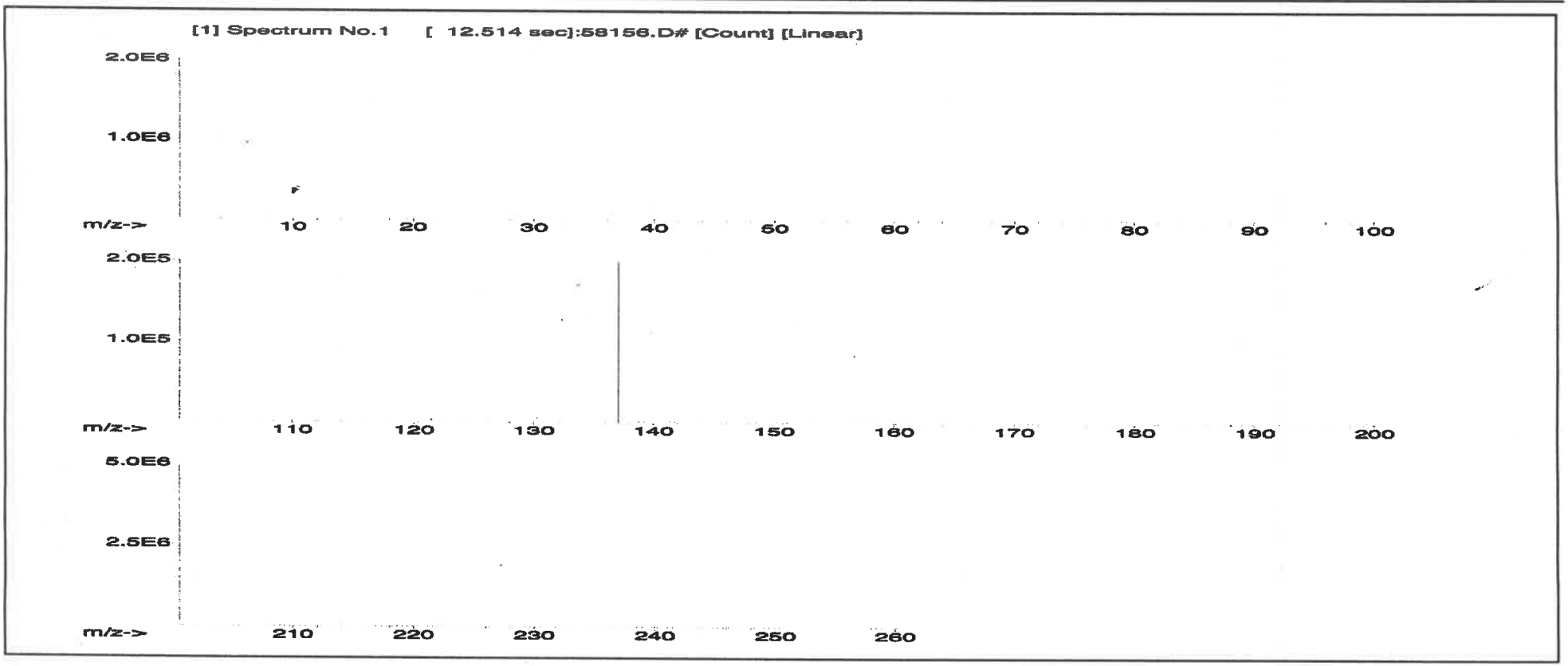
CERTIFIED WEIGHT REPORT:

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).

468

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

R: 09/08/22 (BH)

Certified Reference Material CRM

M5387 - M5389. M5390 CM5391. M5392

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

469

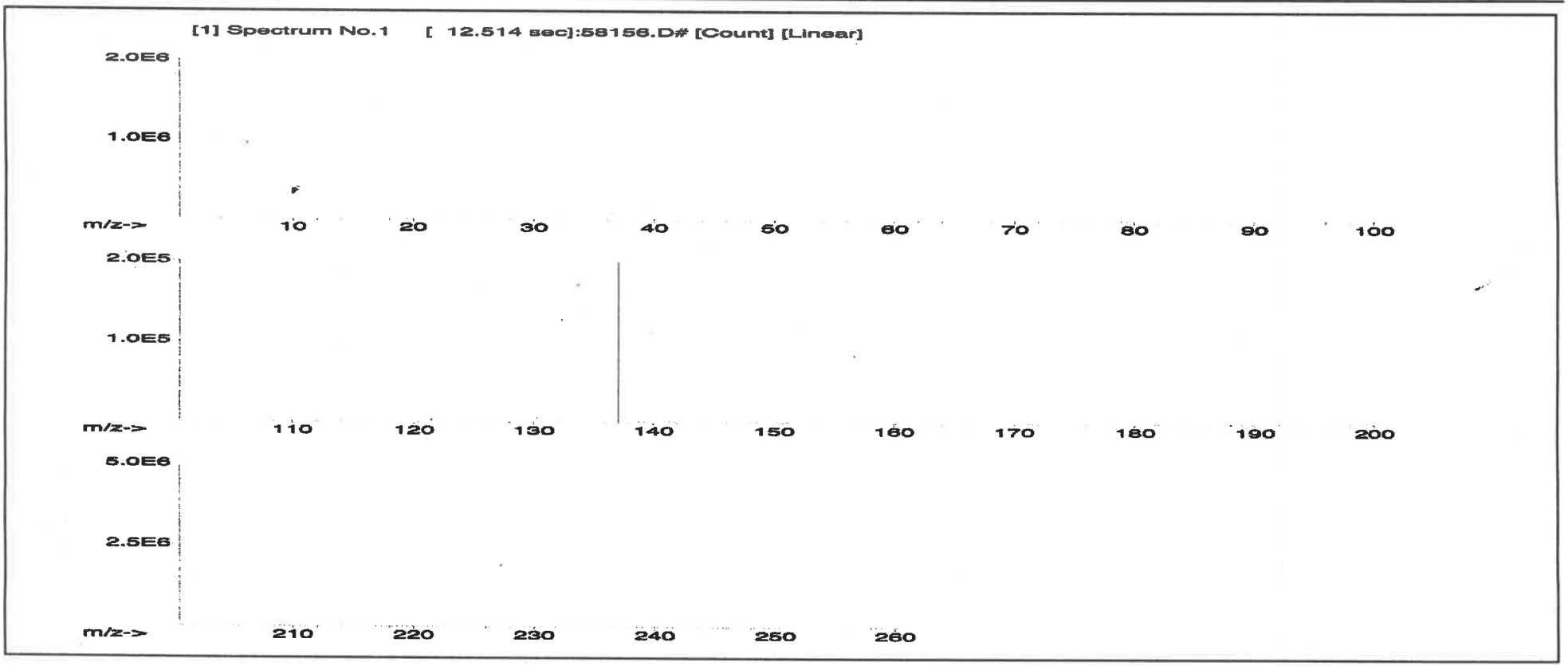
CERTIFIED WEIGHT REPORT:

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).

470

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5429 R1 01/26/23 BH

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 57103
Lot Number: 070622
Description: Lithium (Li)

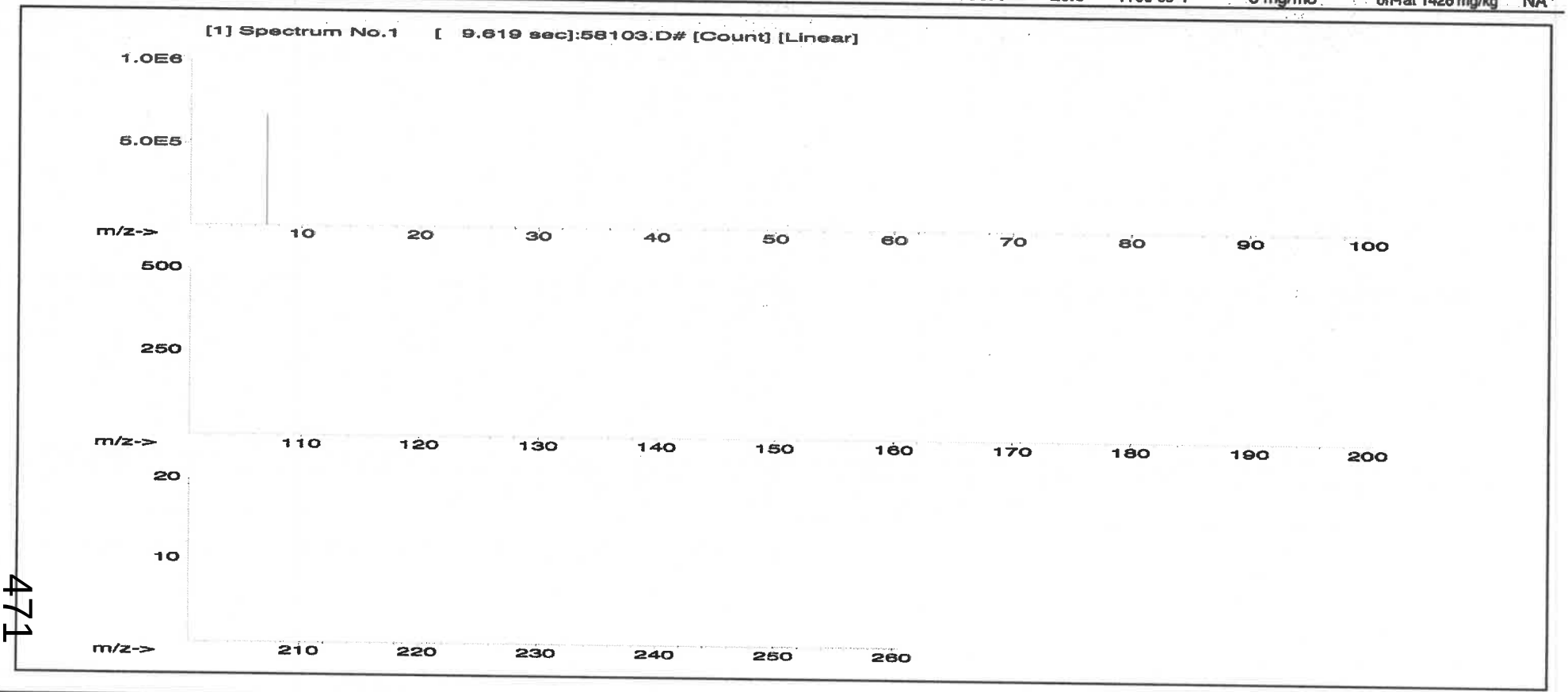
Expiration Date: 070625
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 1000.12

	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



471

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	T	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* 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).

472

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 03/14/23 M5468

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

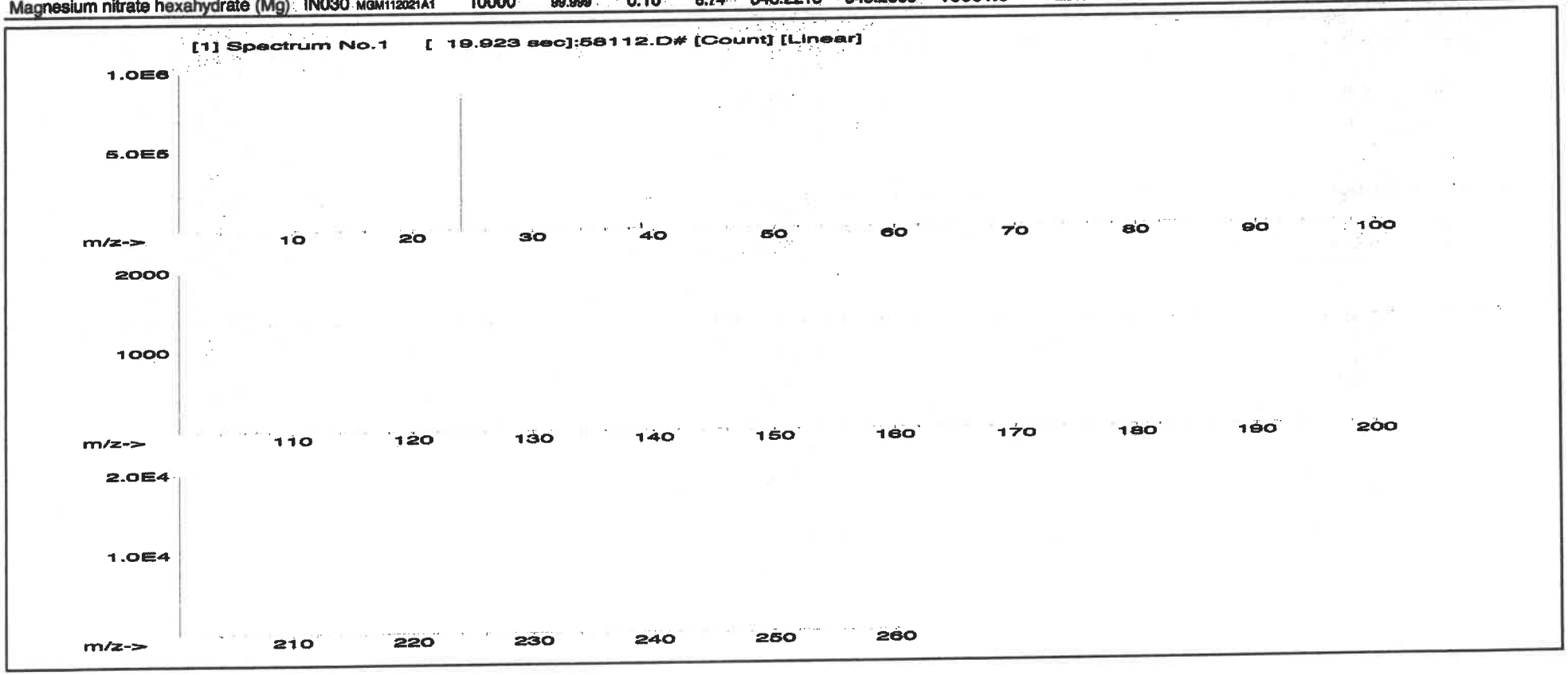
Part Number:	**58112**
Lot Number:	**120922**
Description:	**Magnesium (Mg)**
Expiration Date:	120925
Recommended Storage:	Ambient (20 °C)
Nominal Concentration (µg/mL):	**10000**
NIST Test Number:	6UTB
Weight shown below was diluted to (mL):	3000.41

Lot #			
Solvent:	20510011	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	120922
Reviewed By:	Pedro L. Rentas	120922

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	MGM112021A1	10000	99.999	0.10	8.74	343.2213	343.2669	**10001.3**	**20.0**	13446-18-9	NA	orl-rat 5440 mg/kg	3131a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

M5494 **Certified Reference Material CRM** R:01/19/23

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

475

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57028**	20510011	Nitric Acid		
Lot Number:	**011223**				
Description:	**Nickel (Ni)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	011226				
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		

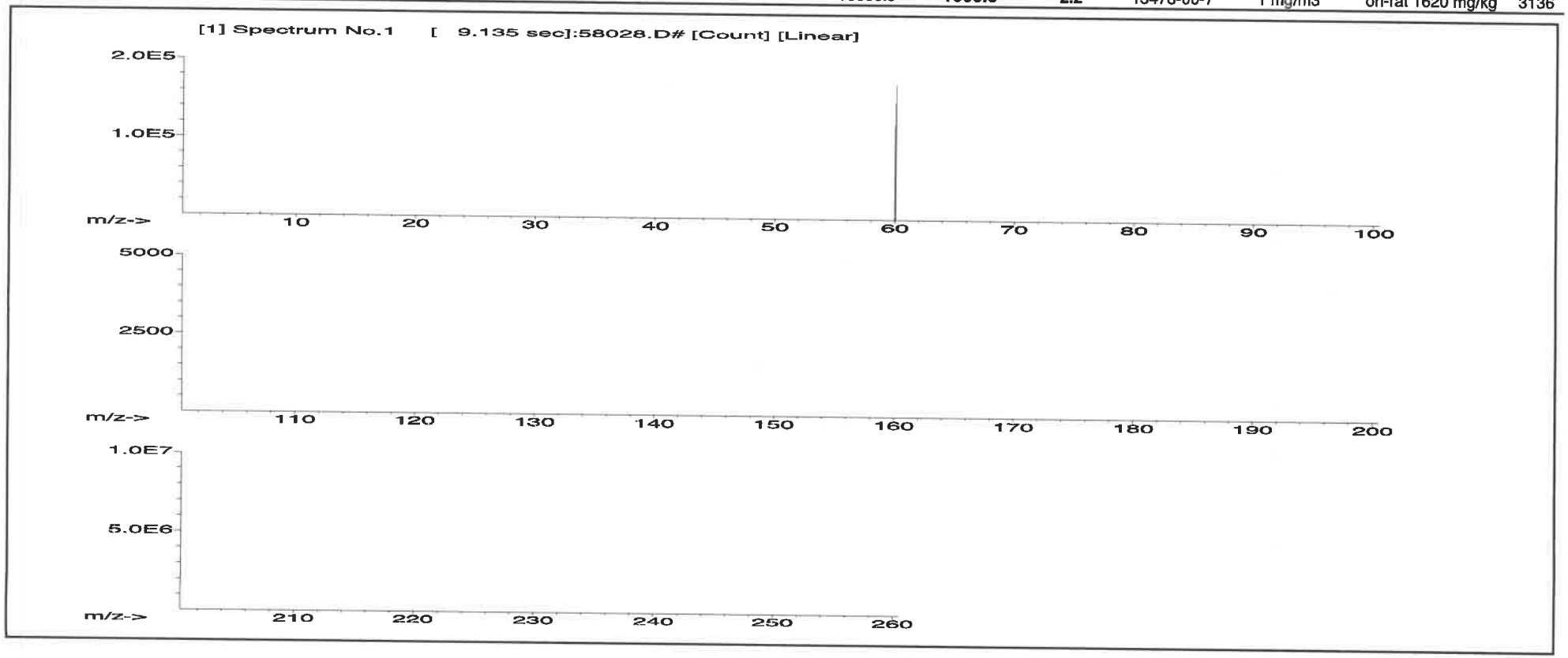
Giovanni Esposito

Formulated By:	Giovanni Esposito	011223

Pedro Rentas

Reviewed By:	Pedro L. Rentas	011223

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. Nickel(II) nitrate hexahydrate (Ni)	58128	033122	0.1000	200.0	0.084	1000	10000.9	**1000.0**	**2.2**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136



476

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	T	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

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

IN5497 - IN5498 R: 03/17/23 BH

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

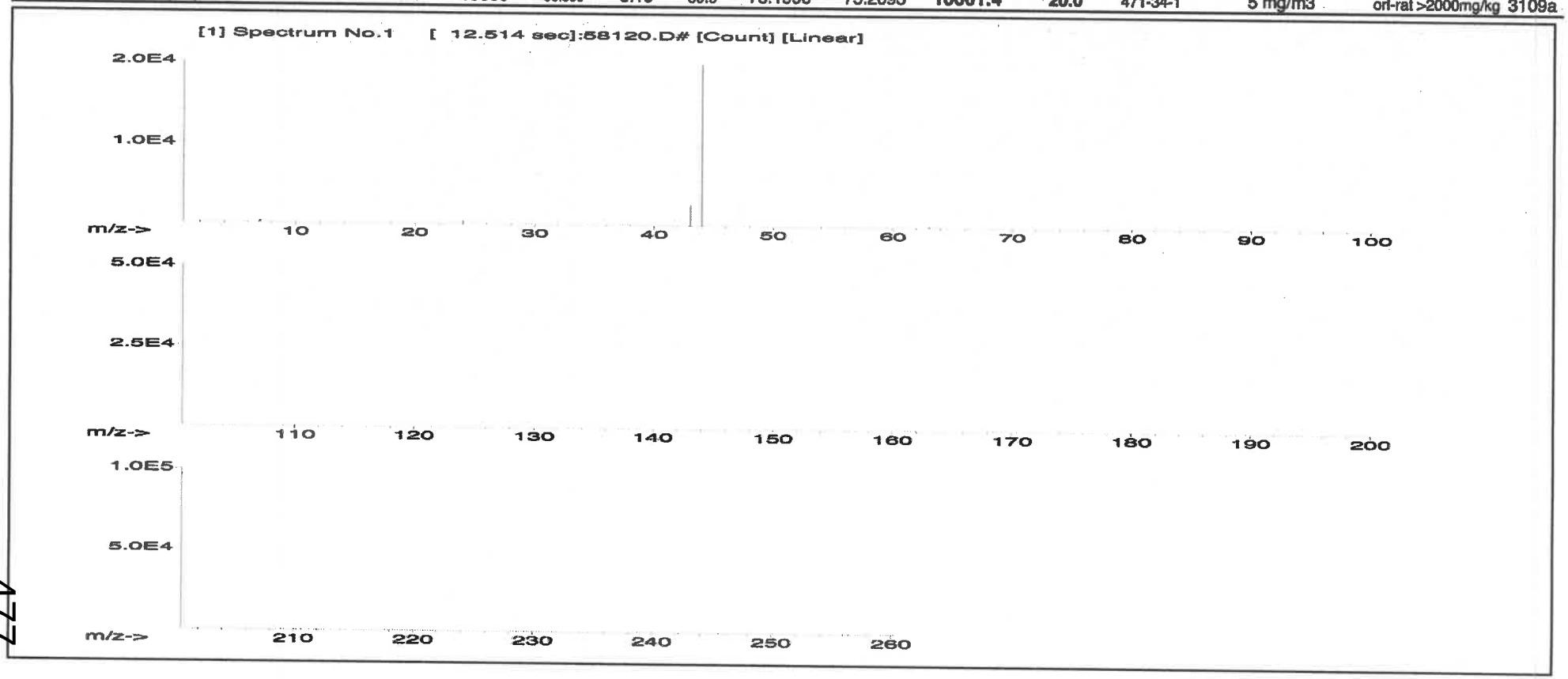
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	Lot #		
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	031523
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



477

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).

4178

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5497 - M5498 R: 03/17/23 BH

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 58120
Lot Number: 031523
Description: Calcium (Ca)

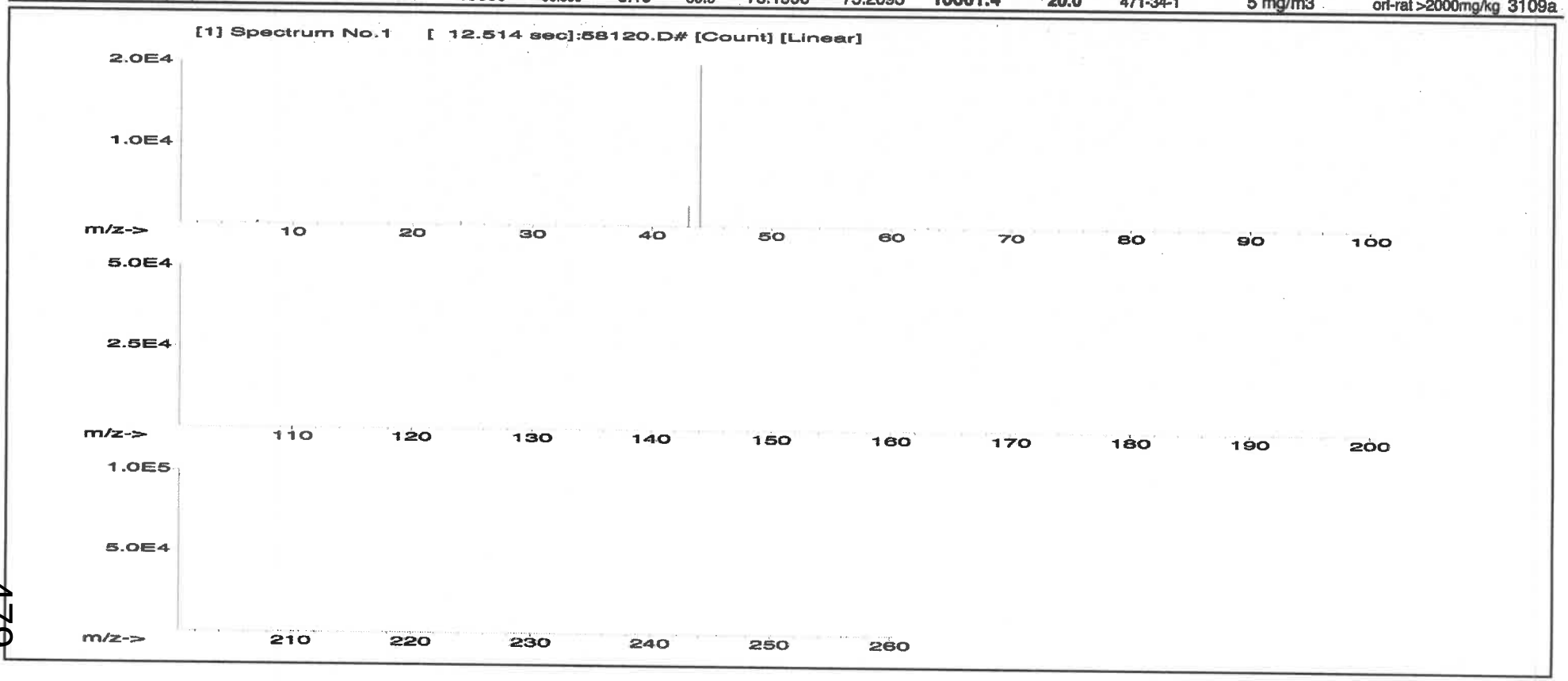
Expiration Date: 031526
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 3000.41

	Lot #		
Solvent:	21110221	Nitric Acid	
2%	60.0 (mL)	Nitric Acid	
	5E-05	Balance Uncertainty	
	0.058	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	031523
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



479

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).

4080

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

MS513 R:03/17/23

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number: 57182
Lot Number: 061522
Description: Lead (Pb)

Expiration Date: 061525
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 10000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 2000.02

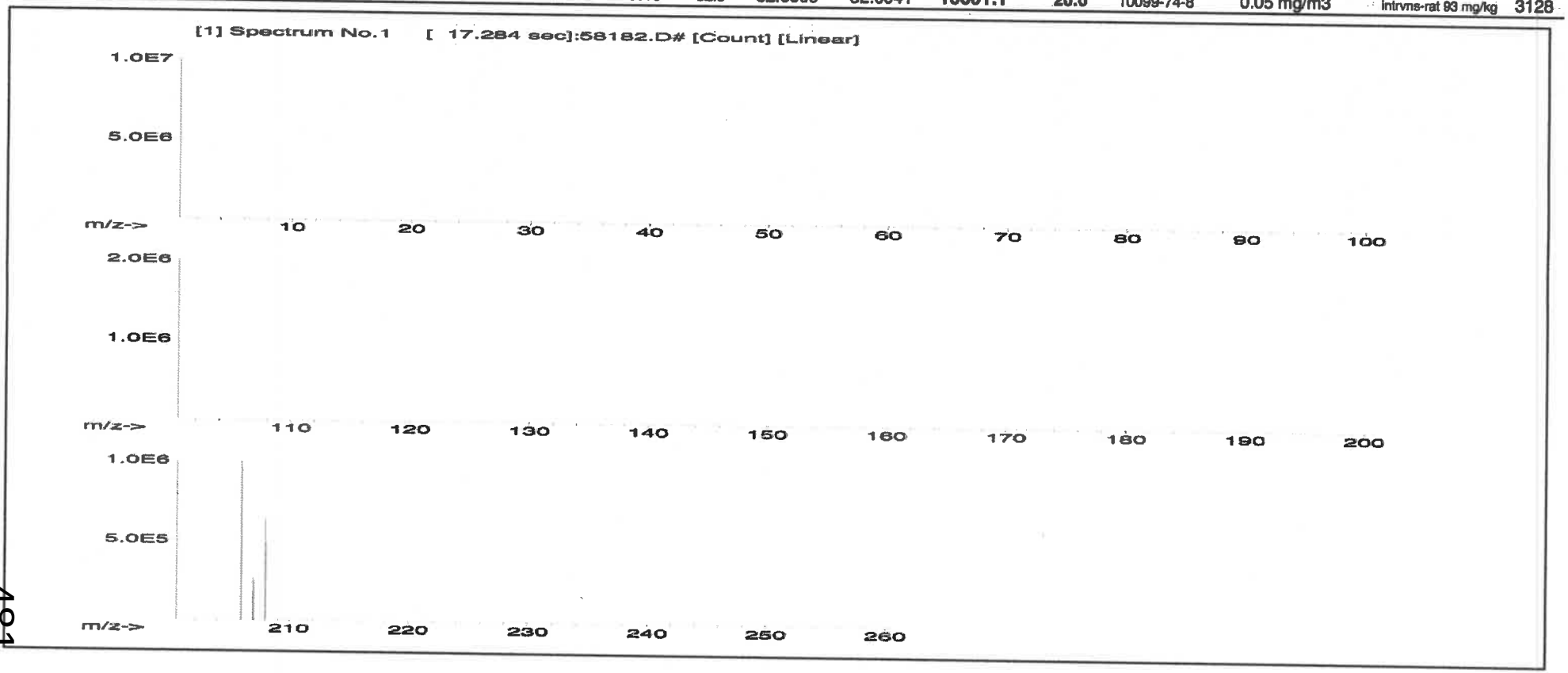
	Lot #		
Solvent:	20510011	Nitric Acid	
2%	40.0 (mL)	Nitric Acid	

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Giovanni Esposito

Formulated By:	Giovanni Esposito	061522
Reviewed By:	Pedro L. Rentas	061522

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Lead(II) nitrate (Pb)	IN029	PBD122016A1	10000	99.999	0.10	62.5	32.0006	32.0041	**10001.1**	**20.0**	10099-74-8	0.05 mg/m3	Intrvns-rat 93 mg/kg	3128



481

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).

CORCO CHEMICAL CORPORATION

Manufacturers of ACS Reagents and Semiconductor Grade Chemicals

CERTIFICATE OF ANALYSIS

Date: 8/3/2022 MS631 MS632 MS633 MS634 **Lot No 820803**

Hydrogen Peroxide, ACS
Reagent Grade

TEST	MAXIMUM LIMITS	RESULT
Appearance	Colorless and free from suspended matter or sediment	Pass
Assay	29-32%	31.4%
Color (APHA)	10	5
Residue after Evaporation	0.002%	.0001%
Titratable Acid	0.0006 meq/g	< .0006 meq/g
Chloride (Cl)	2 ppm	< 1 ppm
Nitrate (NO_3)	2 ppm	< 1 ppm
Phosphate	2 ppm	< 1 ppm
Sulfate (SO_4)	5 ppm	< .5 ppm
Ammonium (NH_4)	5 ppm	< 1 ppm
Heavy Metals (as Pb)	1 ppm	< .1 ppm
Iron (Fe)	0.5 ppm	< .1 ppm
Sodium Stannate	200 – 300 ppb	Pass

***Our Hydrogen Peroxide is considered un-stabilized because it is very slightly stabilized with Sodium Stannate, 500 ppb maximum, just for safety purposes.

Date of MFG: 8/2022
Retest date: 8/2024

Gina M. Rambo
Office Manager

CORCO CHEMICAL CORPORATION. 299 CEDAR LANE. FAIRLESS HILLS, PA 19030. 215-295-5006. FAX 215-295-0781

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5658 R ! 8/25/23

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

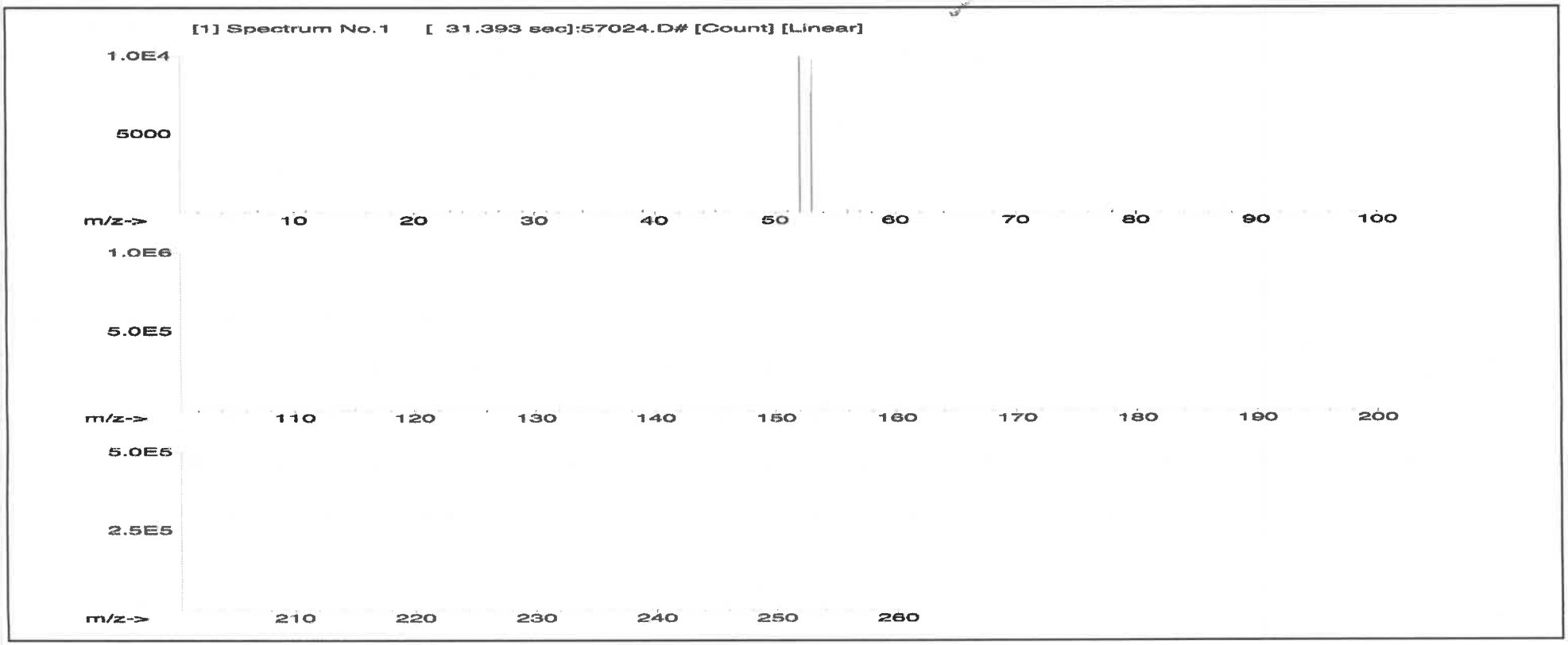
484

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



485

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	T	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5697 R: 10/27/23

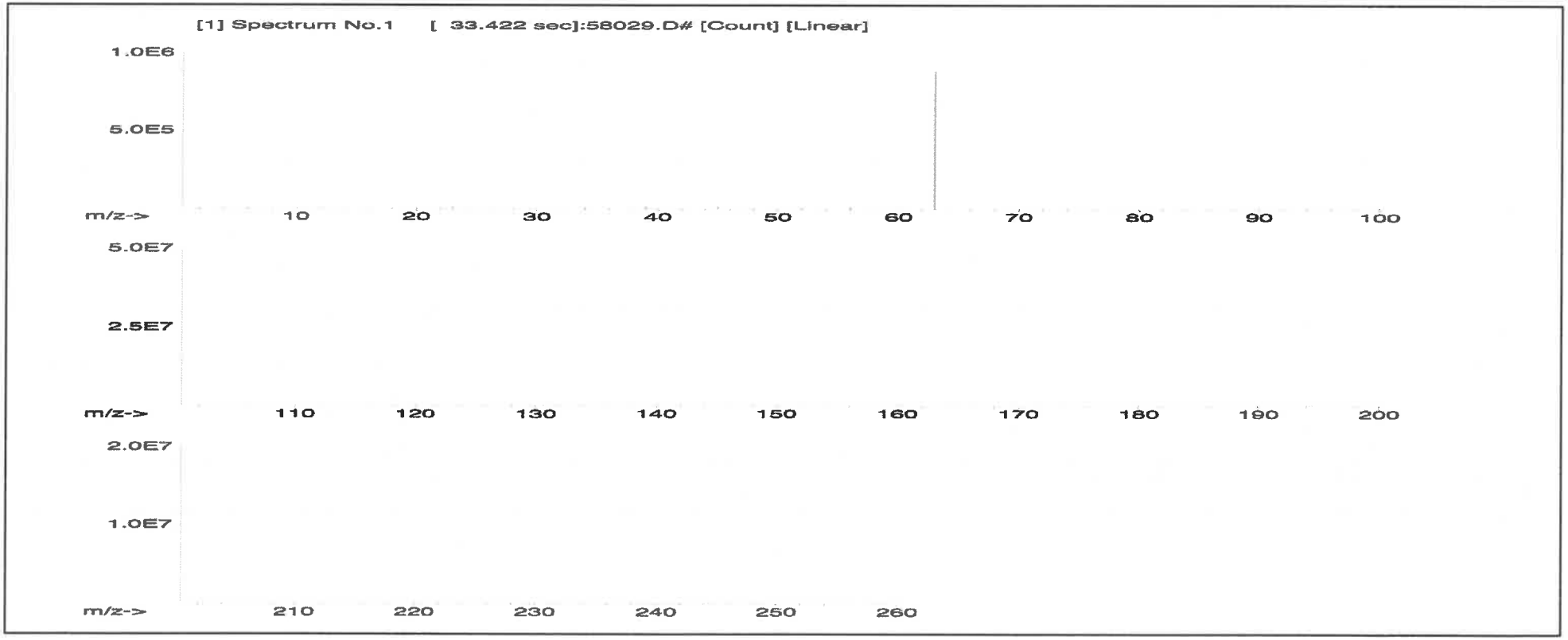
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	T	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

M5648 R: 10/27/23

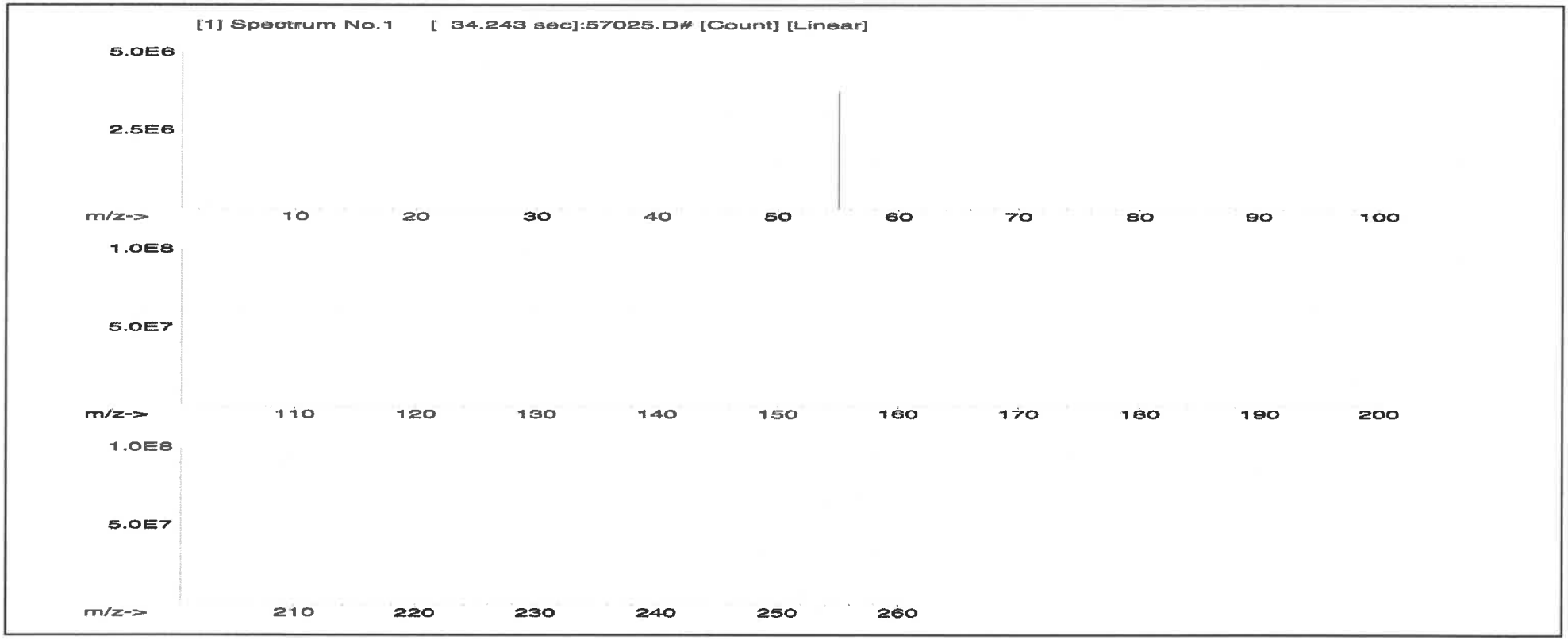
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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



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).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 12/20/23 M5747

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

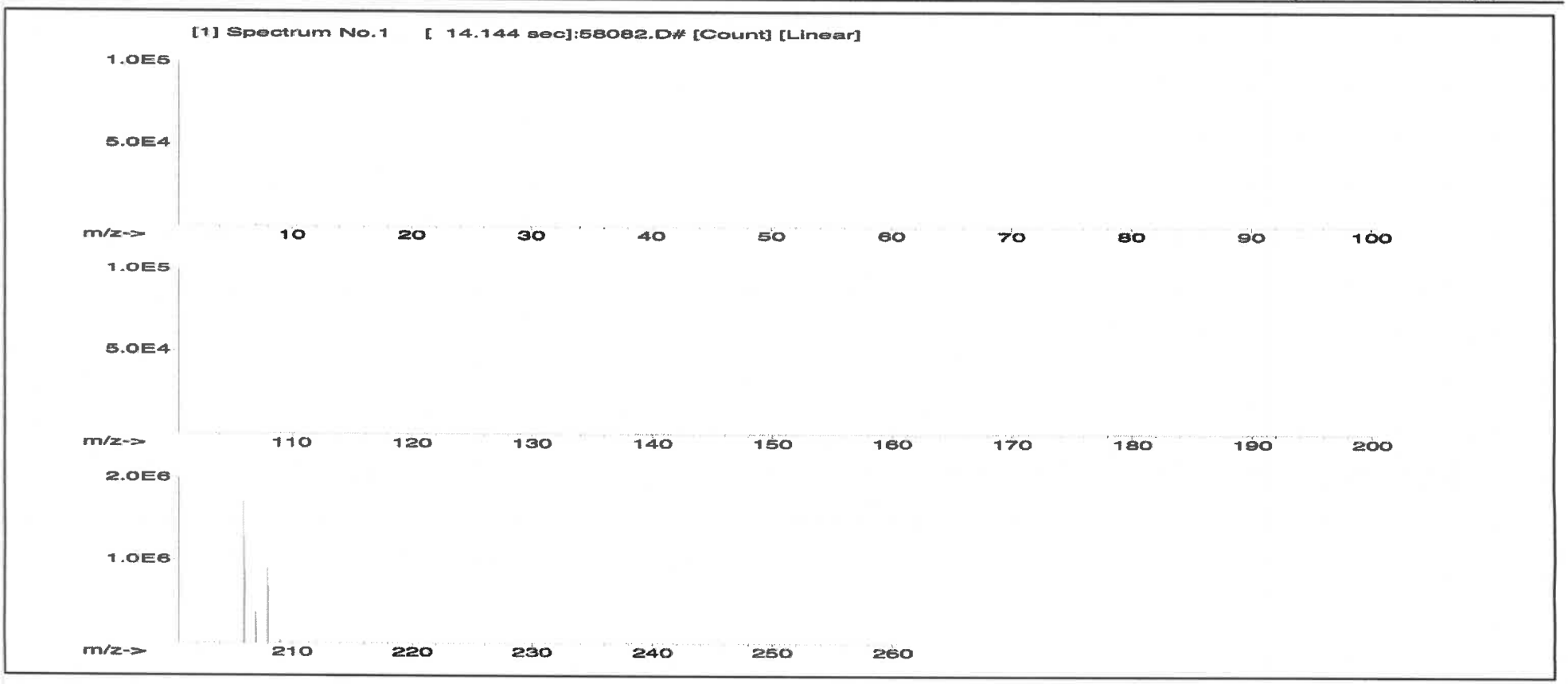
490

CERTIFIED WEIGHT REPORT:

Part Number:	**57082**			**Lot #**	
Lot Number:	**100923**		**Solvent:**	24002546	Nitric Acid
Description:	**Lead (Pb)**				
			2%	60.0 (mL)	Nitric Acid
Expiration Date:	100926				
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):	3000.41	0.06	Flask Uncertainty		

Formulated By:	Lawrence Barry	100923
Reviewed By:	Pedro L. Rentas	100923

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	1000	99.999	0.10	62.5	4.80071	4.80077	**1000.0**	**2.0**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128



491

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	T	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 12/15/23 M5752, M5753, M5754, M5755

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

492

CERTIFIED WEIGHT REPORT:

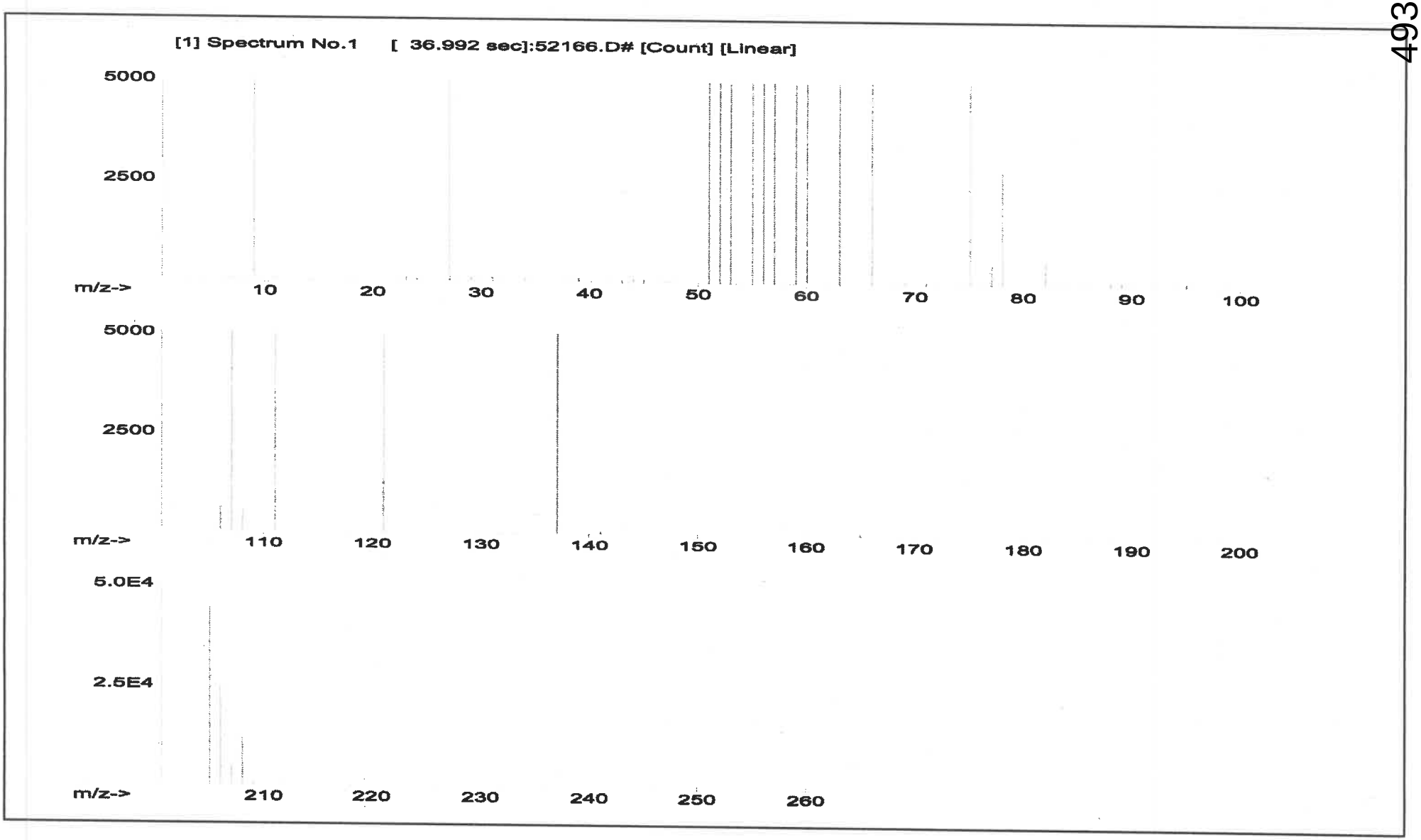
		Lot #	Solvent:	
Part Number:	**52166**			
Lot Number:	**112823**	24002546	Nitric Acid	
Description:	**ILM 05.3 ICP-AES Spike Sample**			
	18 Components - Water Matrix	5.0%	25.0 (mL)	Nitric Acid
Expiration Date:	112826			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**Varied**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Volumes shown below were diluted to (mL):	500.06	0.058	Flask Uncertainty	

Giovanni Esposito

Formulated By:	Giovanni Esposito	112823
Reviewed By:	Pedro L. Rentas	112823

	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.	Aluminum nitrate nonahydrate (Al)	58113	071123	0.0200	10.0	0.042	200	10000.1	**200.0**	**1.7**	7784-27-2	2 mg/m3	orl-rat 3671 mg/kg	3101a
2.	Antimony (Sb)	57051	041823	0.0100	5.00	0.017	10	1000.0	**10.0**	**0.07**	7440-36-0	0.5 mg/m3	orl-rat 7000 mg/kg	3102a
3.	Arsenic (As)	57033	090723	0.0040	2.00	0.017	4	1000.0	**4.00**	**0.08**	7440-38-2	0.01 mg/m3	orl-rat 763 mg/kg	3103a
4.	Barium nitrate (Ba)	58156	050222	0.0200	10.0	0.042	200	10000.1	**200.0**	**1.7**	10022-31-8	0.5 mg/m3	orl-rat 355 mg/kg	3104a
5.	Beryllium nitrate (Be)	57004	102523	0.0050	2.50	0.017	5	1000.0	**5.00**	**0.07**	13597-99-4	0.2ug/m3	intrvns-rat 3.16mg/kg	NA
6.	Cadmium nitrate tetrahydrate (Cd)	57048	071123	0.0050	2.50	0.017	5	1001.5	**5.00**	**0.07**	10022-68-1	0.01 mg/m3	orl-rat 60.2mg/kg	3108
7.	Chromium(III) nitrate nonahydrate (Cr)	57024	060523	0.0200	10.0	0.042	20	1000.0	**20.0**	**0.17**	7789-02-8	0.5 mg(Cr)/m3	orl-rat 3250 mg/kg	3112a
8.	Cobalt(II) nitrate hexahydrate (Co)	58127	050923	0.0050	2.50	0.017	50	10000.0	**50.0**	**0.7**	10026-22-9	0.02 mg/m3	orl-rat 691 mg/kg	3113
9.	Copper(II) nitrate trihydrate (Cu)	57029	102523	0.0250	12.50	0.084	25	1000.0	**25.0**	**0.3**	10031-43-3	1 mg/m3	orl-rat 794 mg/kg	3114
10.	Iron (Fe)	58126	051523	0.0100	5.00	0.017	100	10001.5	**100.0**	**0.7**	7439-89-6	5 mg/m3	orl-rat 7500mg/kg	3126a
11.	Lead(II) nitrate (Pb)	57282	101223	0.0200	10.0	0.042	2	100.0	**2.00**	**0.02**	10099-74-8	0.05 mg/m3	intrvns-rat 93 mg/kg	3128
12.	Manganese(II) nitrate tetrahydrate (Mn)	58125	071123	0.0050	2.50	0.017	50	10000.1	**50.0**	**0.7**	20694-39-7	5 mg/m3	orl-rat >300mg/kg	3132
13.	Nickel(II) nitrate hexahydrate (Ni)	58128	062023	0.0050	2.50	0.017	50	10000.4	**50.0**	**0.7**	13478-00-7	1 mg/m3	orl-rat 1620 mg/kg	3136
14.	Selenium(IV) oxide (Se)	57034	040123	0.0050	2.50	0.017	5	1000.0	**5.00**	**0.07**	7446-08-4	0.2 mg/m3	orl-rat 68 mg/kg	3149
15.	Silver nitrate (Ag)	57047	071123	0.0050	2.50	0.017	5	1000.6	**5.00**	**0.07**	7761-88-8	10 ug/m3	NA	3151
16.	Thallium nitrate (Tl)	57081	061322	0.0050	2.50	0.017	5	1000.0	**5.00**	**0.07**	10102-45-1	5 mg/m3	orl-rat 6700 mg/kg	3158
17.	Ammonium metavanadate (V)	58123	082823	0.0050	2.50	0.017	50	10000.0	**50.0**	**0.7**	7803-55-6	0.05 mg/m3	orl-rat 58.1mg/kg	3165
18.	Zinc nitrate hexahydrate (Zn)	58130	063023	0.0050	2.50	0.017	50	10000.0	**50.0**	**0.7**	10196-18-6	1 mg/m3	orl-rat 1190mg/kg	3168

493


[1] Spectrum No.1 [36.992 sec]:52166.D# [Count] [Linear]
5000
2500
m/z->
10 20 30 40 50 60 70 80 90 100
5000
2500
m/z->
110 120 130 140 150 160 170 180 190 200
5.0E4
2.5E4
m/z->
210 220 230 240 250 260

494

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	T	Cd	T	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	T	Pr	<0.02	Se	T	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	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	T	Tl	T	V	T
Ba	T	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	T	Cr	T	Ga	<0.02	Fe	T	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	T	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	T	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:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

M5768 M5769 (BP) R:1/3/24

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

495

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	

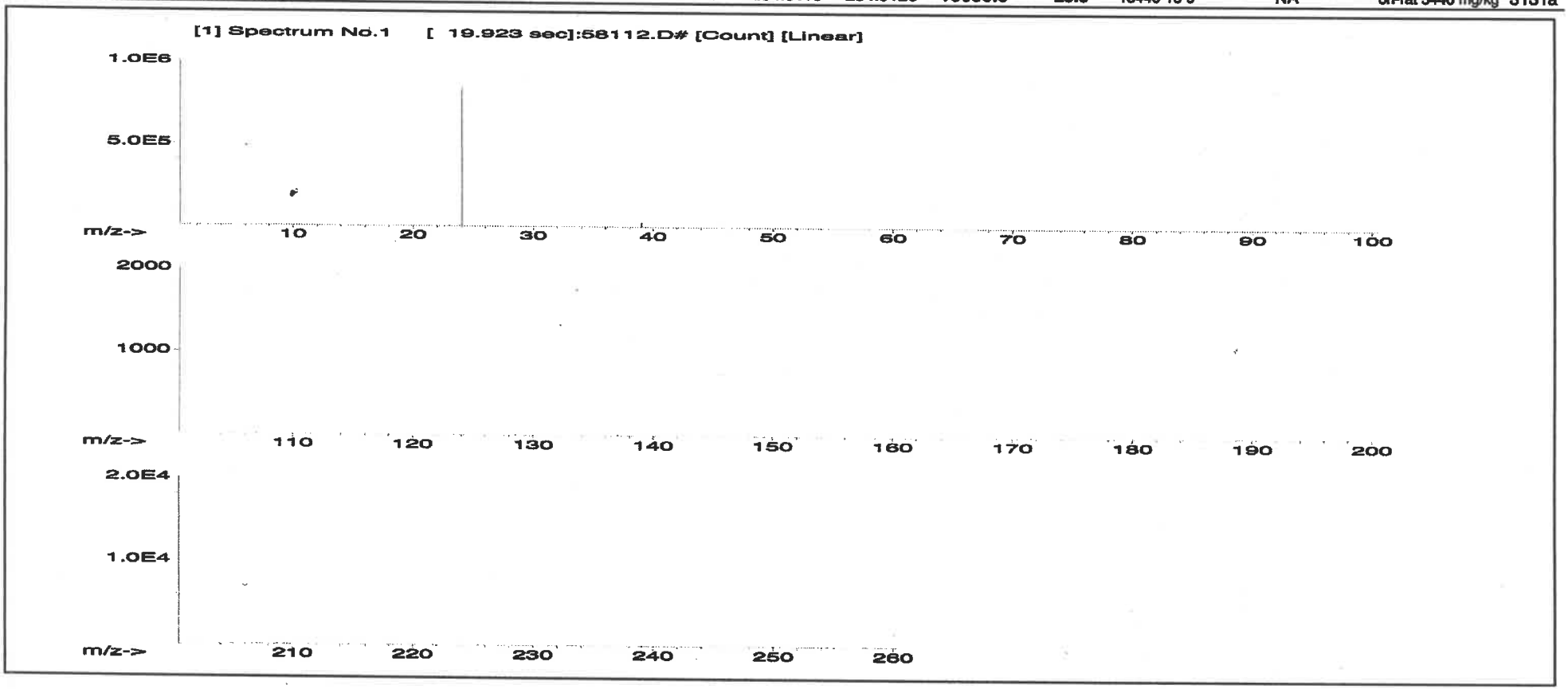
5E-05 Balance Uncertainty

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



496

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

M5768 M5769 (BP) R:1/3/24

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

497

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	

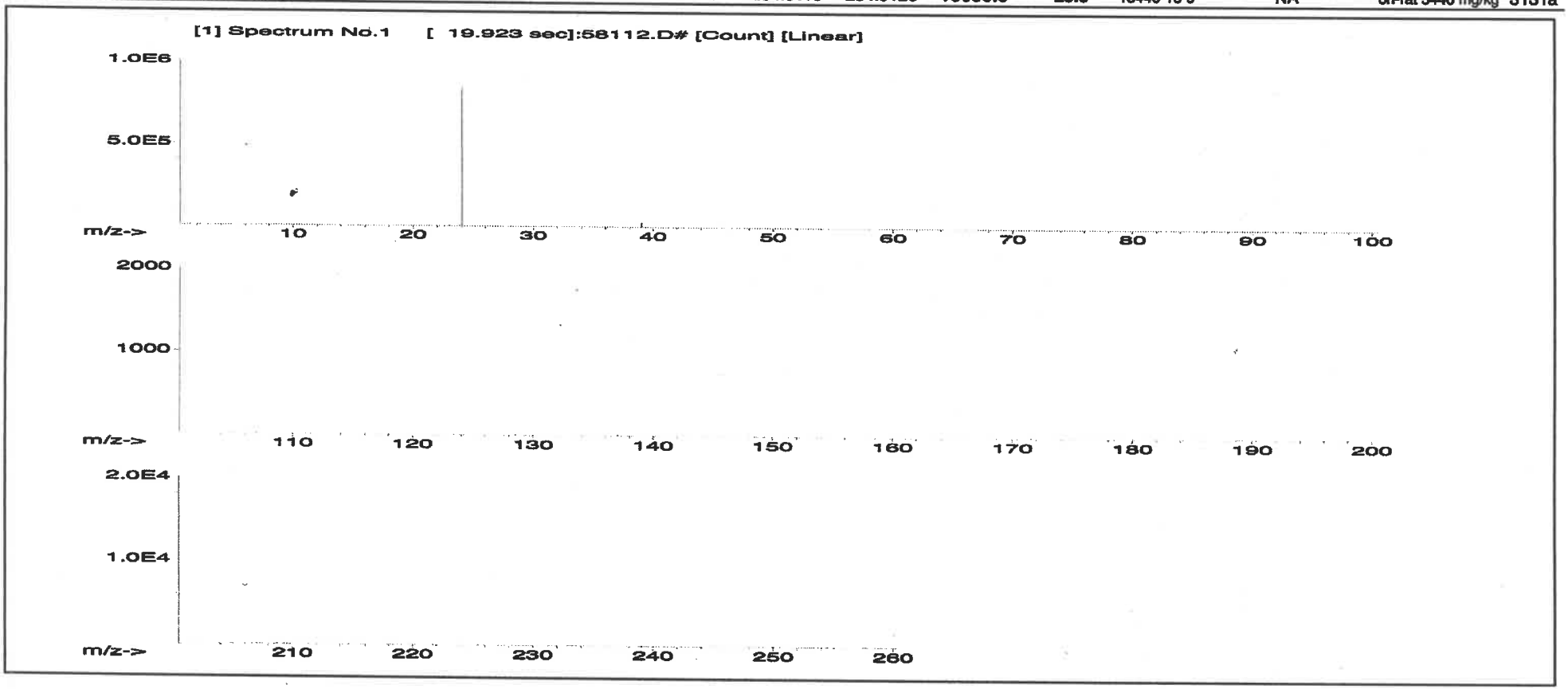
5E-05 Balance Uncertainty

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



498

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	T	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 02/09/24 – M5798

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

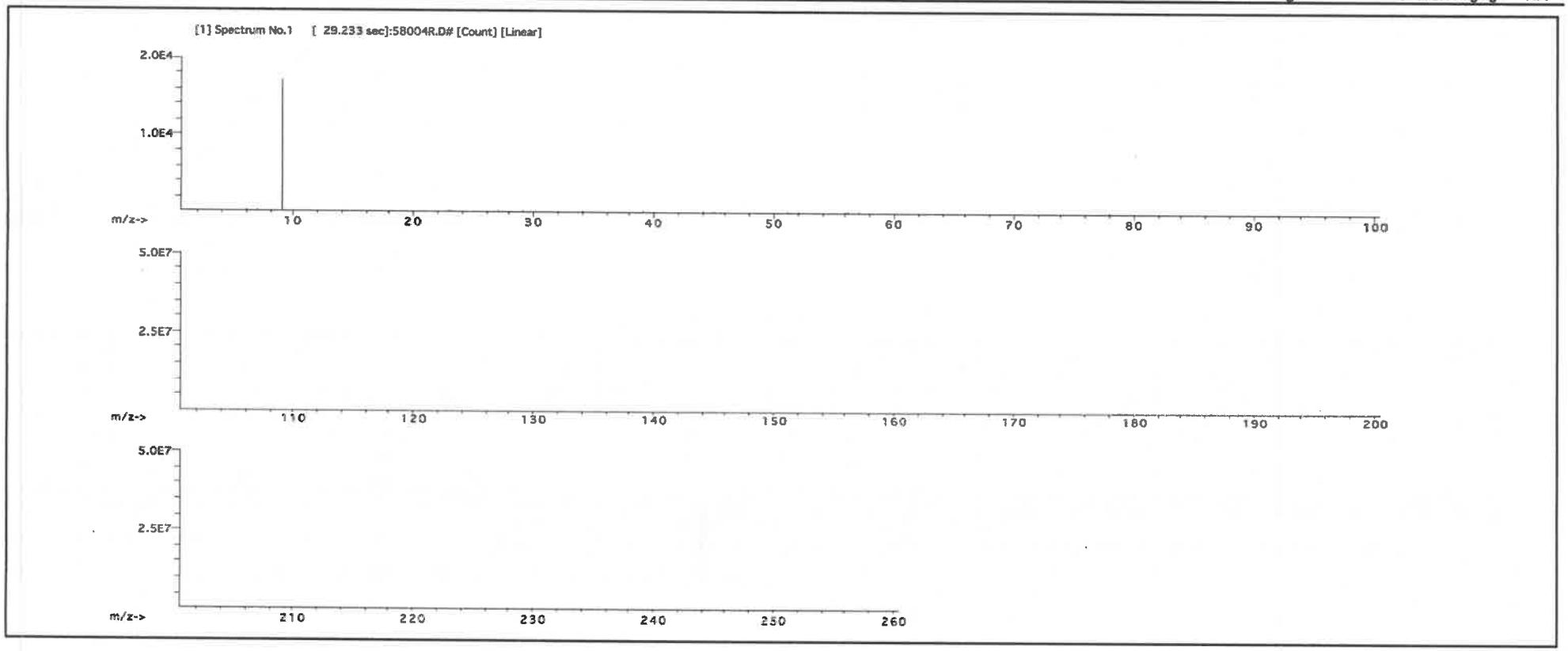
499

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57004**	24002546	Nitric Acid		
Lot Number:	**102523**				
Description:	**Beryllium (Be)**	2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	102526				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Benson Chan	102523
Reviewed By:	Pedro L. Rentas	102523

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Beryllium nitrate (Be)	58104	091423	0.1000	200.0	0.084	1000	10001.5	**1000.0**	**2.2**	13597-99-4	0.2ug/m3	intrvns-rat 3.16mg/kg	NA



Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																		
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	T	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

500

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R? 02/09/24 IV15799

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

501

CERTIFIED WEIGHT REPORT:

Part Number: 57050
Lot Number: 071123
Description: Tin (Sn)

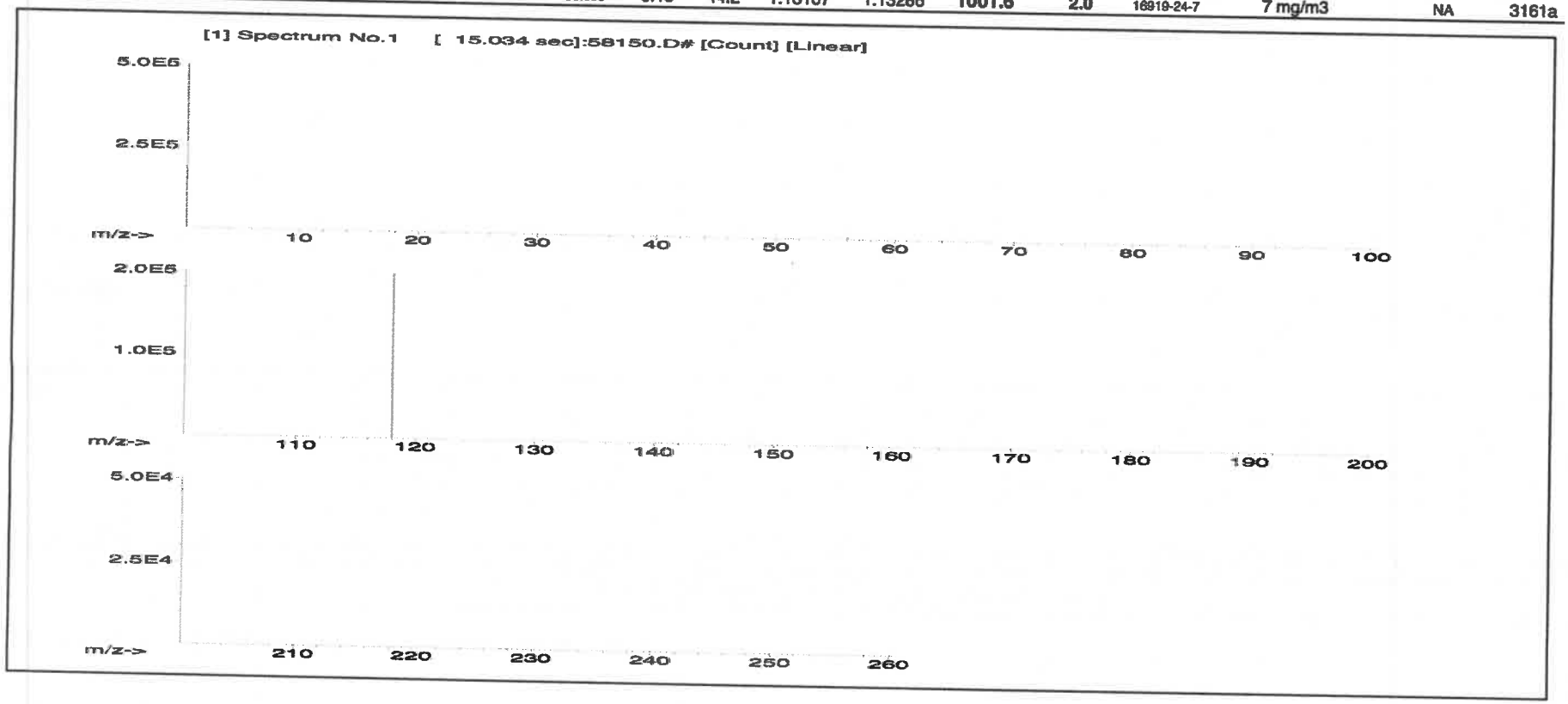
Expiration Date: 071126
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB
Weight shown below was diluted to (mL): 499.93

	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



502

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<500	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	T	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 02/09/24 IM5800 BH

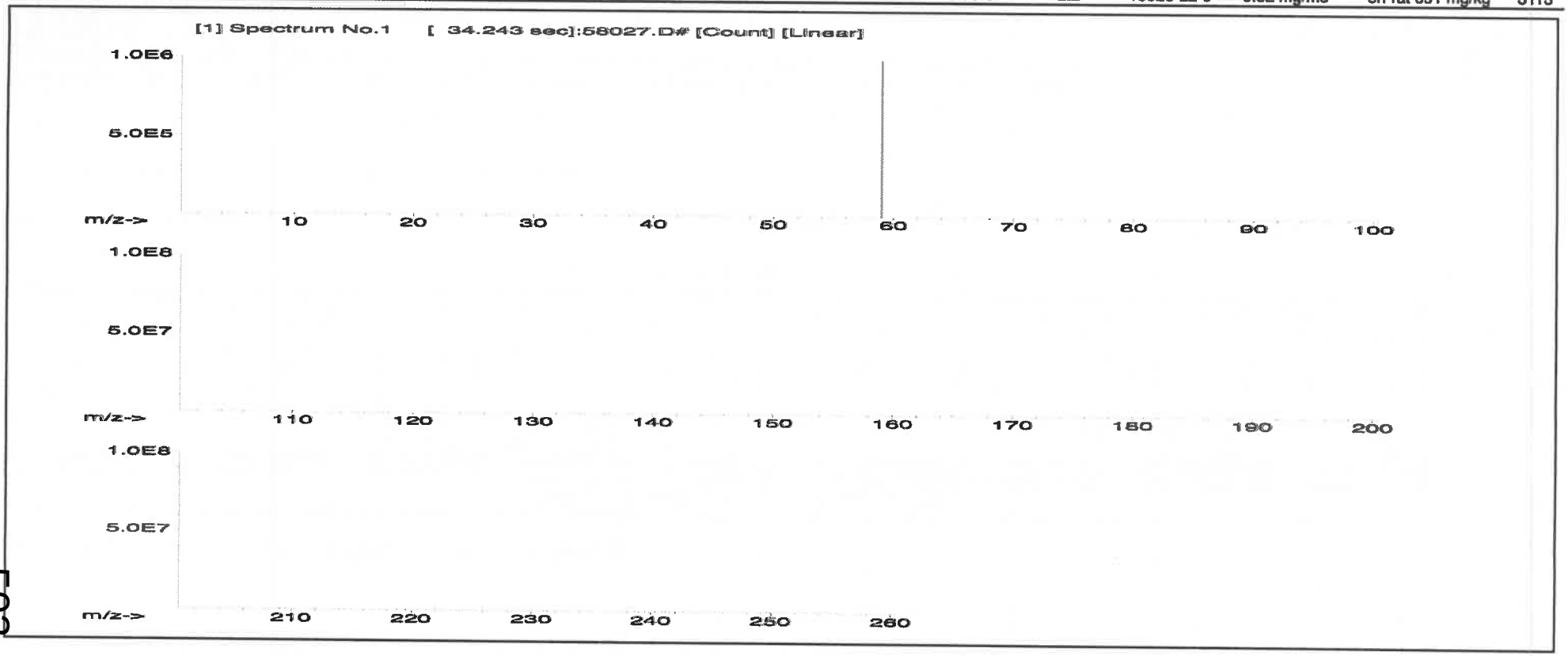
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

		Lot #	Solvent:		
Part Number:	**57027**	24002546	Nitric Acid		
Lot Number:	**091923**				
Description:	**Cobalt (Co)**				
		2.0%	40.0 (mL)	Nitric Acid	
Expiration Date:	091926				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	091923
Reviewed By:	Pedro L. Rentas	091923

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Cobalt(II) nitrate hexahydrate (Co)	58127	050923	0.1000	200.0	0.084	1000	10000.0	**1000.0**	2.2	10026-22-9	0.02 mg/m3	orl-rat 691 mg/kg	3113



503

Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	T	Gé	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

504

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 02/09/24 IM5801 BH

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

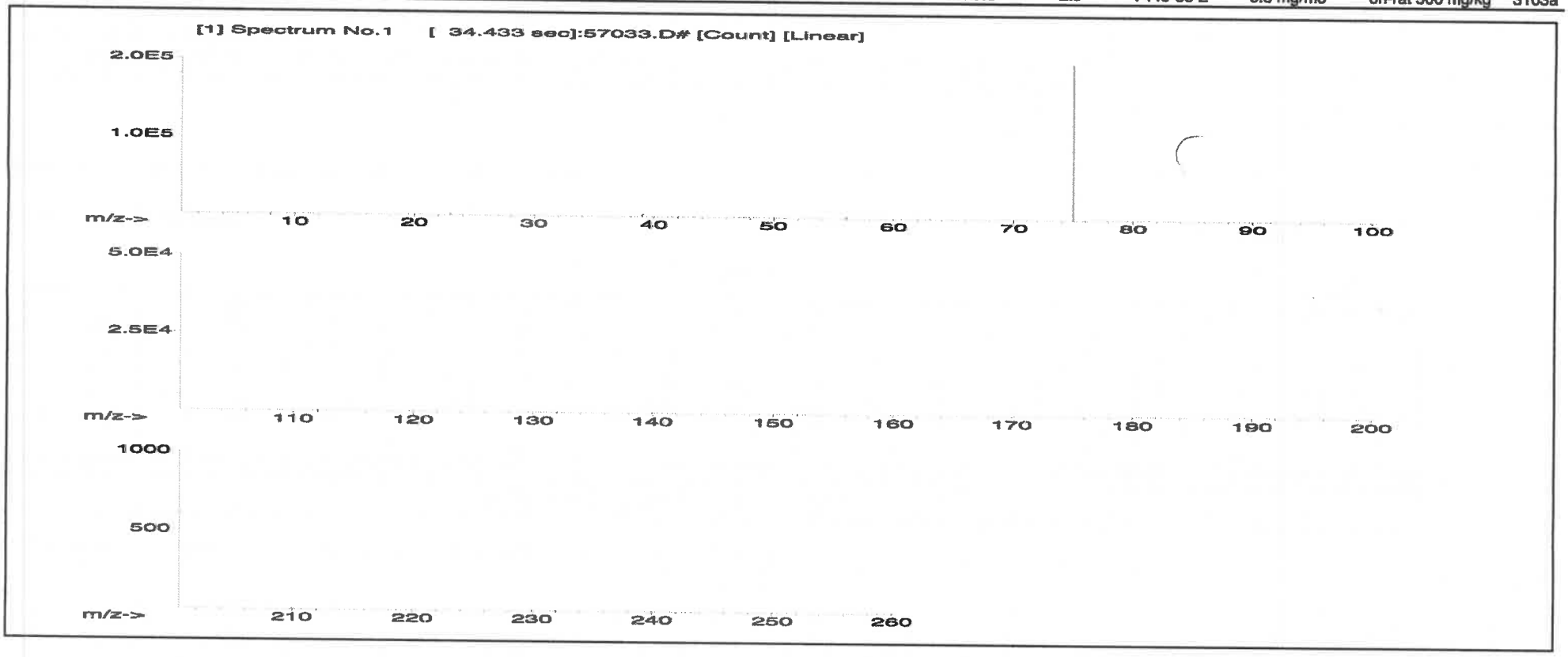
505

CERTIFIED **WEIGHT** REPORT:

		Lot #	Solvent:		
Part Number:	**57033**	24002546	Nitric Acid		
Lot Number:	**111323**				
Description:	**Arsenic (As)**	2.0%	80.0 (mL)	Nitric Acid	
Expiration Date:	111326				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**1000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Volume shown below was diluted to (mL):	4000.0	0.06	Flask Uncertainty		

Formulated By:	Lawrence Barry	111323
Reviewed By:	Pedro L. Rentas	111323

Compound	Part Number	Lot Number	Dilution Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Nominal Conc. (µg/mL)	Initial Conc. (µg/mL)	Final Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Arsenic (As)	58133	020522	0.1000	400.0	0.084	1000	10001.0	**1000.0**	**2.0**	7440-38-2	0.5 mg/m3	orl-rat 500 mg/kg	3103a



506

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	T	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge*	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R1 02/09/24. M58165

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

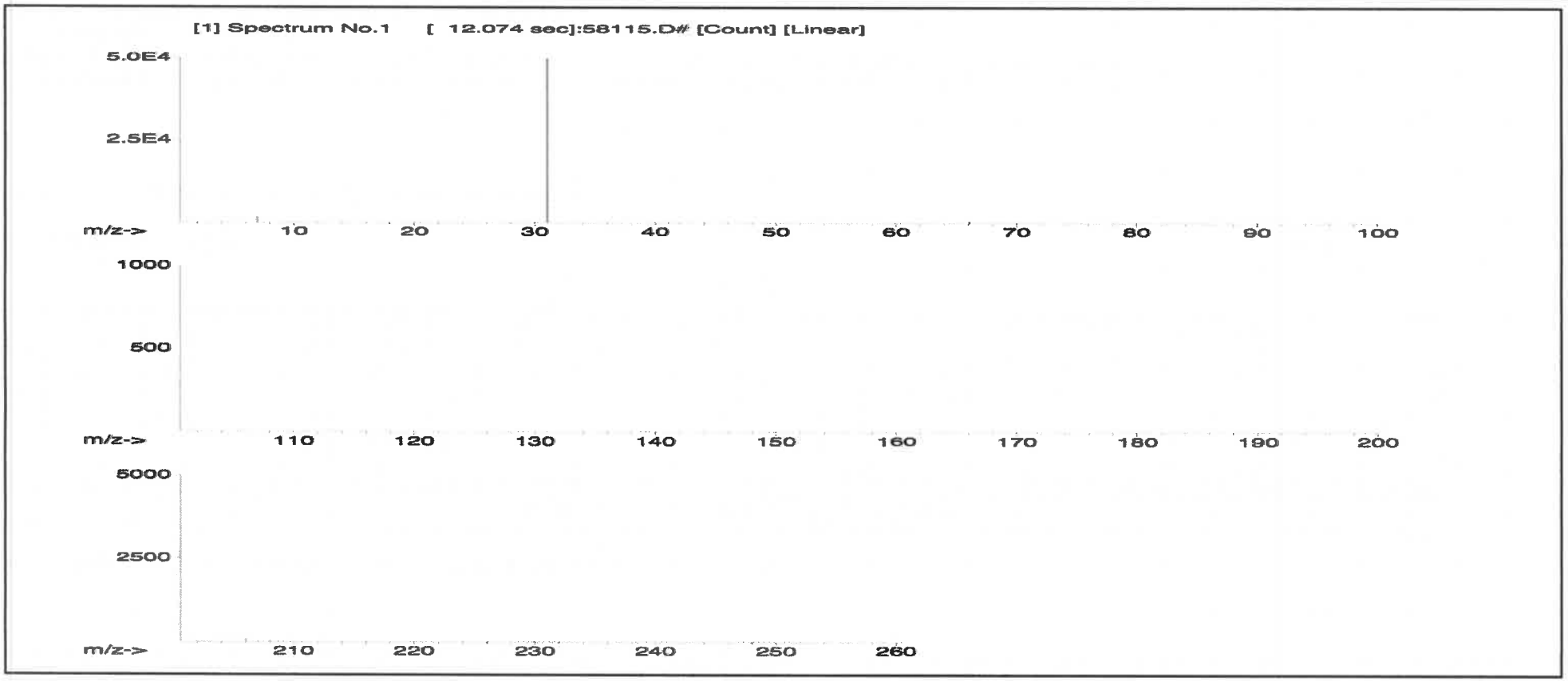
507

CERTIFIED WEIGHT REPORT:

		Lot #		
Part Number:	**57115**	**Solvent:**	21110221	Nitric Acid
Lot Number:	**041723**			
Description:	**Phosphorous (P)**	2%	40.0 (mL)	Nitric Acid
Expiration Date:	041726			
Recommended Storage:	Ambient (20 °C)			
Nominal Concentration (µg/mL):	**10000**			
NIST Test Number:	6UTB	5E-05	Balance Uncertainty	
Weight shown below was diluted to (mL):	2000.02	0.058	Flask Uncertainty	

Formulated By:	Lawrence Barry	041723
Reviewed By:	Pedro L. Rentas	041723

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	Actual Conc. (µg/mL)	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Ammonium dihydrogen phosphate (P)	IN008	PV082019A1	10000	99.999	0.10	27.5	72.7287	72.7289	**10000.0**	**20.0**	7722-76-1	5 mg/m3	orl-rat >2000mg/kg	3186



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	T	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 02/09/24 M5817

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

509

CERTIFIED WEIGHT REPORT:

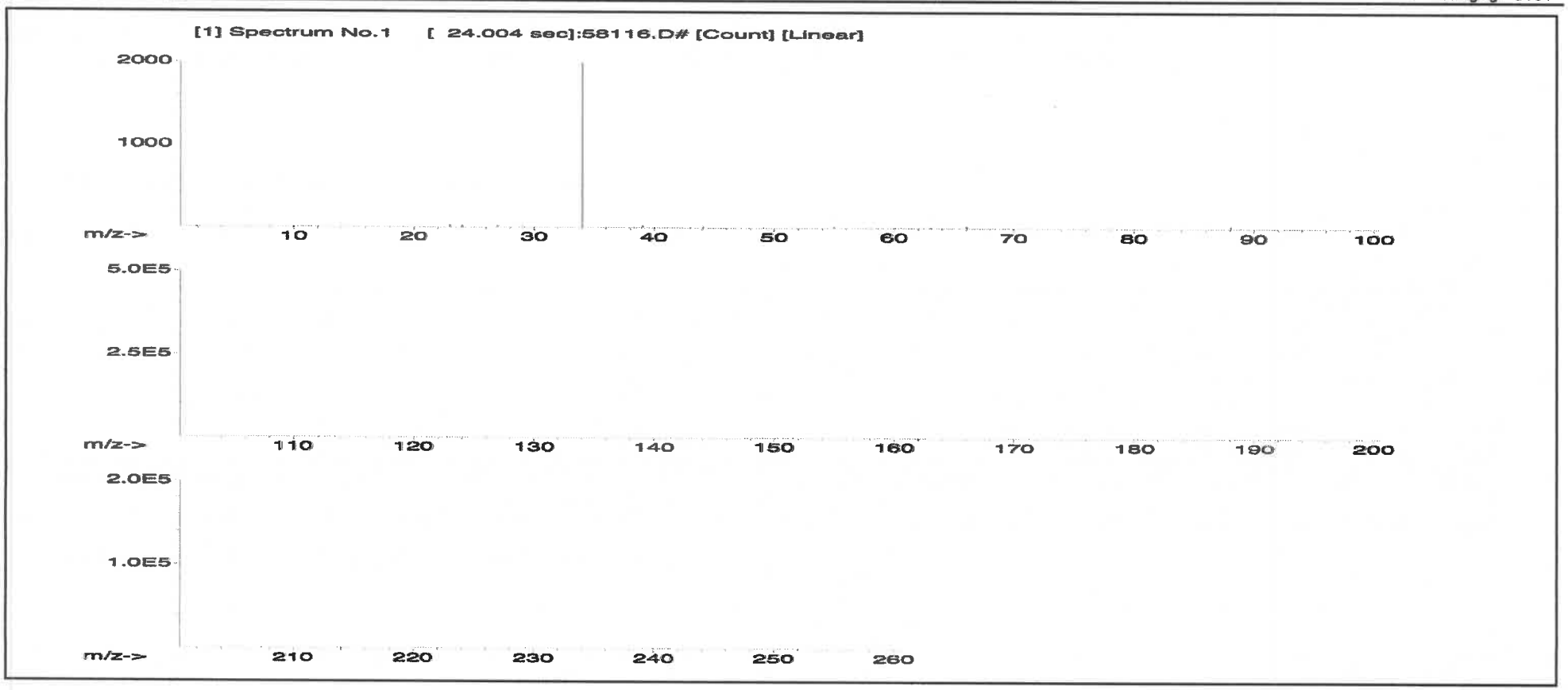
Part Number: 57116
Lot Number: 071123
Description: Sulfur (S)

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



510

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)

Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	T	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 02/09/24 M.5818

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

511

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

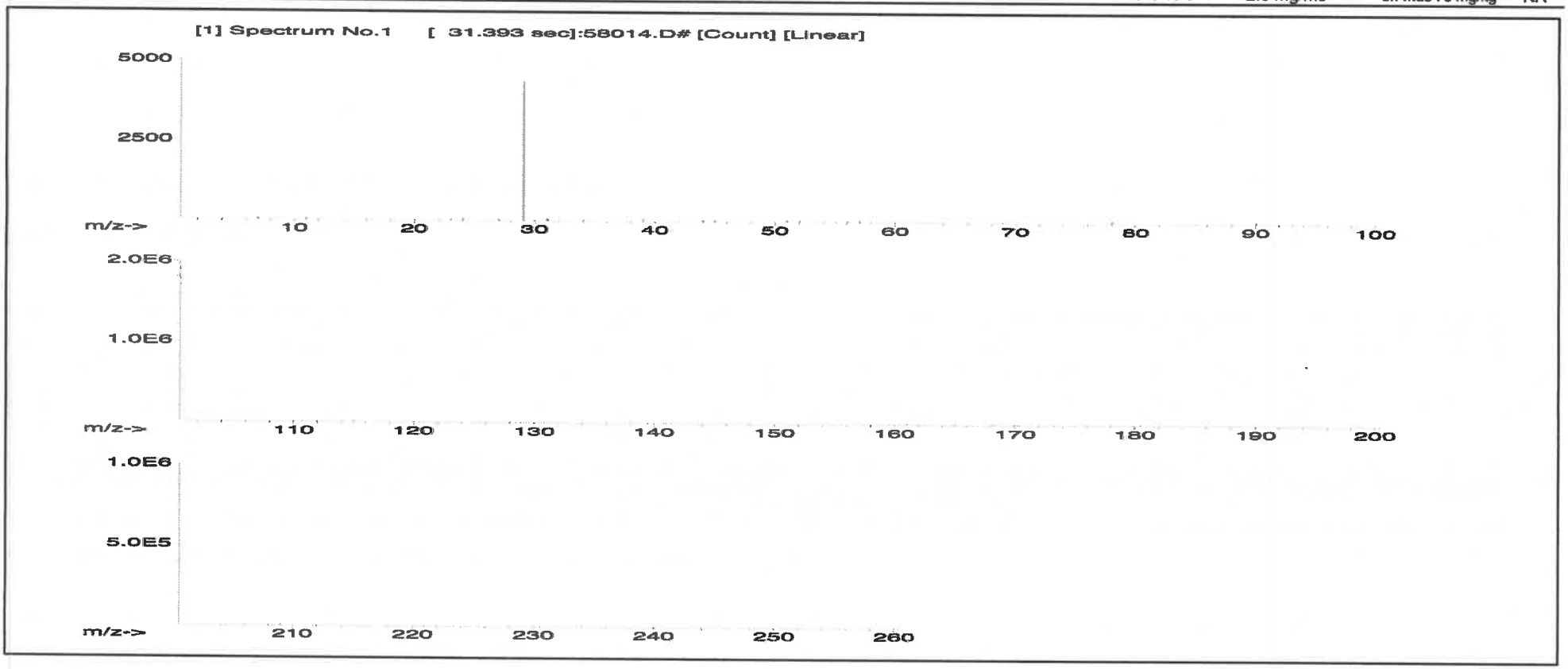
Solvent: 24002546 Nitric Acid ± 5E-05 Balance Uncertainty

2% 40.0 (mL) Nitric Acid

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



512

Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	T	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	<0.02	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T) = Target analyte

Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 02/09/24 M5819

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

513

CERTIFIED WEIGHT REPORT:

Part Number: 58030
Lot Number: 111623
Description: Zinc (Zn)

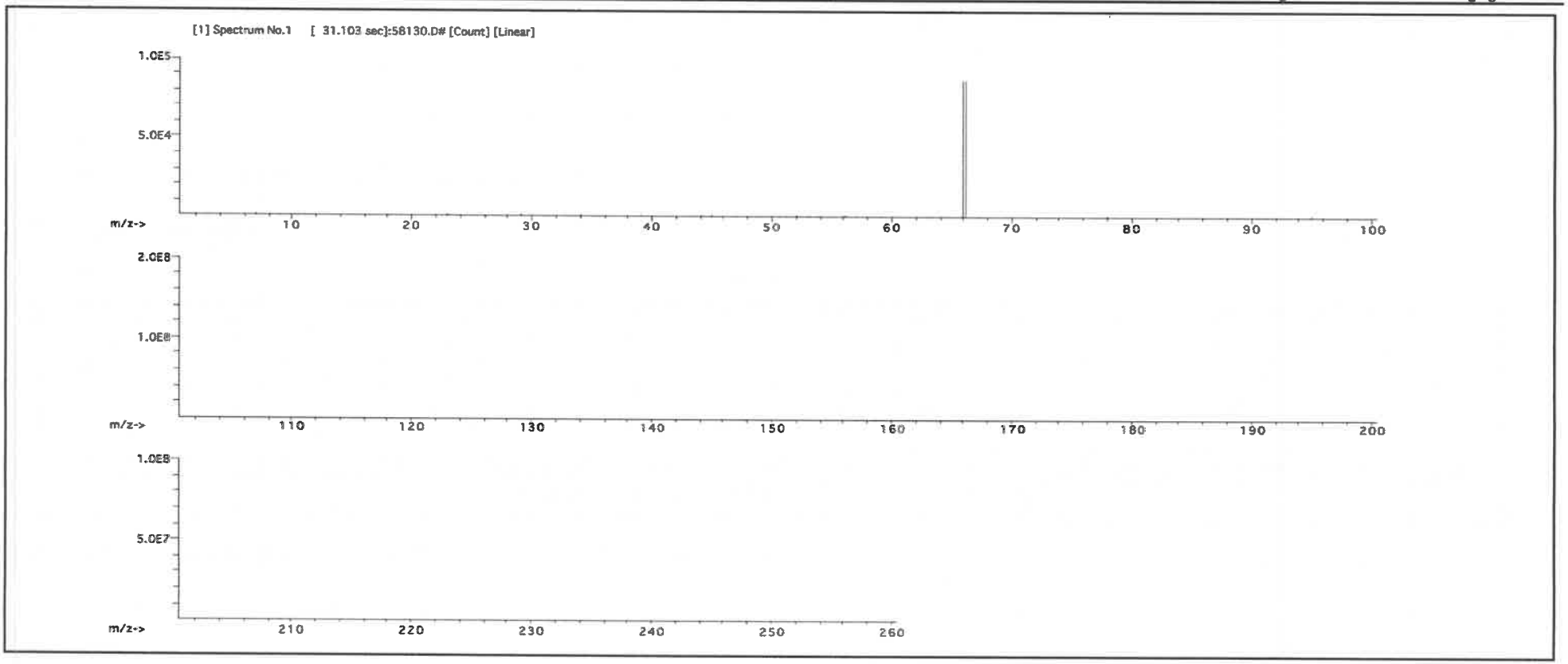
Expiration Date: 111626
Recommended Storage: Ambient (20 °C)
Nominal Concentration (µg/mL): 1000
NIST Test Number: 6UTB

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



514

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).

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

MS947 MS948 MS949
MS950 MS951 MS952

Material No.: 9530-33
Batch No.: 22G2862015
Manufactured Date: 2022-06-15
Retest Date: 2027-06-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.9 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.191
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	1.3 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	163.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

For questions on this Certificate of Analysis please contact Technical Services at 855 282 6867 or +1 610 386 1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	2.9 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	0.8 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	0.5 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	2.3 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	1.6 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	4.0 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	1.5 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	0.3 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

MS954 MS955 MS956
MS957 MS958

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

For questions on this Certificate of Analysis please contact Technical Services at 855 282 6867 or +1 610 386 1700

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count – 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

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

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

M5959 R: 6/14/24.

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 863.01
ACCREDITED Reference Material Producer Certificate 863.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGY10
Lot Number:	V2-Y740548
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Yttrium
Starting Material:	Yttrium Oxide
Starting Material Lot#:	2661 and 06230520YL
Starting Material Purity:	99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10000 ± 30 µg/mL

Density: 1.032 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1	**10011 ± 25 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #2	**9997 ± 50 µg/mL** ICP Assay NIST SRM 3167a Lot Number: 190730
Assay Method #3	**9984 ± 31 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

524

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.004600	M	Eu		0.009037	M	Na		0.086360	M	Se	<	0.005200	M	Zn		0.030125
M	Al		0.014862	O	Fe		0.002410	M	Nb	<	0.000570	O	Si		0.024100	O	Zr	<	0.002600
M	As	<	0.003500	M	Ga	<	0.000570	M	Nd		0.000923	M	Sm		0.000461				
M	Au	<	0.001700	M	Gd	<	0.003500	M	Ni	<	0.005700	M	Sn	<	0.002300				
O	B		0.002209	M	Ge	<	0.005200	M	Os	<	0.001200	M	Sr	<	0.004600				
O	Ba	<	0.002500	M	Hf	<	0.000570	n	P	<		M	Ta	<	0.000570				
O	Be	<	0.001400	M	Hg	<	0.000570	M	Pb		0.005020	M	Tb		0.001044				
M	Bi	<	0.003500	M	Ho		0.009037	M	Pd	<	0.005100	M	Te	<	0.002300				
O	Ca		0.009841	M	In	<	0.002300	M	Pr	<	0.002300	M	Th	<	0.000570				
M	Cd	<	0.000570	M	Ir	<	0.000570	M	Pt	<	0.000570	M	Ti	<	0.003500				
M	Ce	<	0.002300	O	K		0.018677	M	Rb	<	0.000570	M	Tl	<	0.000570				
M	Co	<	0.000570	M	La		0.000461	M	Re	<	0.000570	M	Tm	<	0.003500				
M	Cr	<	0.004000	O	Li	<	0.009300	M	Rh	<	0.008000	M	U	<	0.000570				
M	Cs	<	0.000570	M	Lu		0.000582	M	Ru	<	0.000570	M	V		0.001265				
M	Cu		0.002610	O	Mg		0.001486	n	S	<		M	W	<	0.002300				
M	Dy		0.003815	M	Mn		0.000582	M	Sb		0.005422	s	Y	<					
M	Er		0.003615	M	Mo	<	0.005700	M	Sc	<	0.001200	M	Yb		0.001827				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 88.91 +3 6 Y(OH)(H2O)x+2

Chemical Compatibility -Soluble in HCl, H2SO4 and HNO3. Avoid HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming an insoluble carbonate, oxide, oxalate, and fluoride. Avoid mixing with elements / solutions containing moderate amounts of fluoride.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

Y Containing Samples (Preparation and Solution) - Metal (Soluble in acids); Oxide (Dissolve by heating in H2O/ HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolve in 1:1 H2O / HCl or HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 89 amu	0.8 ppt	N/A	73Ge16O, 178Hf+2
ICP-OES 360.073 nm	0.005 / 0.000036 µg/mL	1	Ce, Th
ICP-OES 371.030 nm	0.004 / 0.00007 µg/mL	1	Ce
ICP-OES 377.433 nm	0.005 / 0.0009 µg/mL	1	Ta, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 20, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- February 20, 2029

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Custom Processing Supervisor

Certificate Approved By:

Muzzammil Khan
Stock Laboratory Supervisor

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

R: 03/16/23 M5473, M5474, M5475, M5476

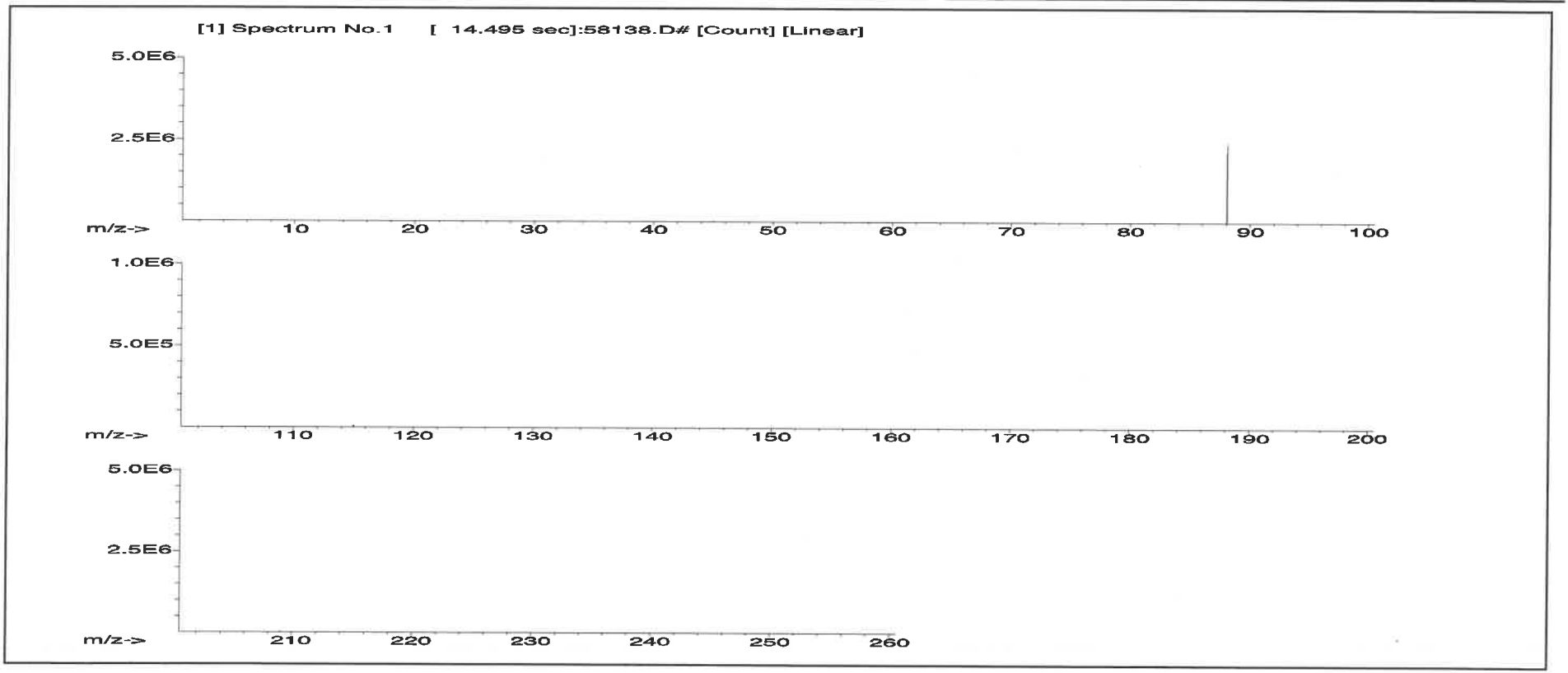
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

Part Number:	**56138**		**Lot #**		
Lot Number:	**082922**	**Solvent:**	20510011	Nitric Acid	
Description:	**Strontium (Sr)**				
		2%	20.0 (mL)	Nitric Acid	
Expiration Date:	082925				
Recommended Storage:	Ambient (20 °C)				
Nominal Concentration (µg/mL):	**10000**				
NIST Test Number:	6UTB	5E-05	Balance Uncertainty		
Weight shown below was diluted to (mL):	1000.12	0.058	Flask Uncertainty		

Formulated By:	Lawrence Barry	082922
Reviewed By:	Pedro L. Rentas	082922

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Strontium nitrate (Sr)	IN017	SRZ022018A1	10000	99.997	0.10	41.2	24.2756	24.2758	**10000.1**	**20.0**	10042-76-9	NA	orl-rat >2000mg/kg	3153a



Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):

Trace Metals Verification by ICP-MS (µg/mL)																	
Al	<0.02	Cd	<0.02	Dy	<0.02	Hf	<0.02	Li	<0.02	Ni	<0.02	Pr	<0.02	Se	<0.2	Tb	<0.02	W	<0.02
Sb	<0.02	Ca	<0.2	Er	<0.02	Ho	<0.02	Lu	<0.02	Nb	<0.02	Re	<0.02	Si	<0.02	Te	<0.02	U	<0.02
As	<0.2	Ce	<0.02	Eu	<0.02	In	<0.02	Mg	<0.01	Os	<0.02	Rh	<0.02	Ag	<0.02	Tl	<0.02	V	<0.02
Ba	<0.02	Cs	<0.02	Gd	<0.02	Ir	<0.02	Mn	<0.02	Pd	<0.02	Rb	<0.02	Na	<0.2	Th	<0.02	Yb	<0.02
Be	<0.01	Cr	<0.02	Ga	<0.02	Fe	<0.2	Hg	<0.2	P	<0.02	Ru	<0.02	Sr	T	Tm	<0.02	Y	<0.02
Bi	<0.02	Co	<0.02	Ge	<0.02	La	<0.02	Mo	<0.02	Pt	<0.02	Sm	<0.02	S	<0.02	Sn	<0.02	Zn	<0.02
B	<0.02	Cu	<0.02	Au	<0.02	Pb	<0.02	Nd	<0.02	K	<0.2	Sc	<0.02	Ta	<0.02	Ti	<0.02	Zr	<0.02

(T)= Target analyte

Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB131457

Review By	Sarabjit Jaswal	Review On	6/30/2024 8:09:37 PM
Supervise By	Mohan Bera	Supervise On	6/30/2024 8:11:46 PM

STD. NAME	STD REF.#
ICAL Standard	MP80924,MP81209,MP80928,MP80927,MP80926,MP80925,MP80935
ICV Standard	MP81250
CCV Standard	MP80934
ICSA Standard	MP80932,MP80933
CRI Standard	
LCS Standard	MP81187
Chk Standard	MP80942,MP80944

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	06/30/24 14:22		Kareem	OK
2	S1	S01	CAL2	06/30/24 14:27		Kareem	OK
3	S2	S02	CAL3	06/30/24 14:32		Kareem	OK
4	S3	S03	CAL4	06/30/24 14:36		Kareem	OK
5	S4	S04	CAL5	06/30/24 14:40		Kareem	OK
6	S5	S05	CAL6	06/30/24 14:45		Kareem	OK
7	S6	S06	CAL7	06/30/24 14:49		Kareem	OK
8	ICV013	ICV013	ICV	06/30/24 14:54		Kareem	OK
9	ICB013	ICB013	ICB	06/30/24 14:59		Kareem	OK
10	ICSA013	ICSA013	ICSA	06/30/24 15:03		Kareem	OK
11	ICSAB013	ICSAB013	ICSAB	06/30/24 15:08		Kareem	OK
12	CCV002	CCV002	CCV	06/30/24 15:23	Inst. paused for review	Kareem	OK
13	CCB002	CCB002	CCB	06/30/24 15:27		Kareem	OK
14	PB161768BL	PBS768	MB	06/30/24 15:32		Kareem	OK
15	PB161768BS	LCS768	LCS	06/30/24 15:36		Kareem	OK
16	PB161766BL	PBS766	MB	06/30/24 15:41		Kareem	OK
17	PB161766BS	LCS766	LCS	06/30/24 15:45		Kareem	OK
18	PB161770BL	PBS770	MB	06/30/24 15:50		Kareem	OK

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB131457

Review By	Sarabjit Jaswal	Review On	6/30/2024 8:09:37 PM
Supervise By	Mohan Bera	Supervise On	6/30/2024 8:11:46 PM

STD. NAME	STD REF.#
ICAL Standard	MP80924,MP81209,MP80928,MP80927,MP80926,MP80925,MP80935
ICV Standard	MP81250
CCV Standard	MP80934
ICSA Standard	MP80932,MP80933
CRI Standard	
LCS Standard	MP81187
Chk Standard	MP80942,MP80944

19	PB161770BS	LCS770	LCS	06/30/24 15:54		Kareem	OK
20	PB161771BL	PBS771	MB	06/30/24 15:59		Kareem	OK
21	PB161771BS	LCS771	LCS	06/30/24 16:04		Kareem	OK
22	PB161772BL	PBS772	MB	06/30/24 16:08		Kareem	OK
23	PB161772BS	LCS772	LCS	06/30/24 16:13		Kareem	OK
24	PB161774BL	PBS774	MB	06/30/24 16:17		Kareem	OK
25	PB161774BS	LCS774	LCS	06/30/24 16:22		Kareem	OK
26	PB161775BL	PBS775	MB	06/30/24 16:26		Kareem	OK
27	PB161775BS	LCS775	LCS	06/30/24 16:31	,	Kareem	OK
28	PB161777BL	PBS777	MB	06/30/24 16:35		Kareem	OK
29	PB161777BS	LCS777	LCS	06/30/24 16:40		Kareem	OK
30	P2817-11	MYD576	SAM	06/30/24 16:44		Kareem	OK
31	P2814-19DL	MYD522	SAM	06/30/24 16:49	Not use	Kareem	Not Ok
32	P2836-21RE	MYD4E4	SAM	06/30/24 16:53	Not use	Kareem	Not Ok
33	P2814-19DL2	MYD522	SAM	06/30/24 16:57	2X for As	Kareem	Confirms
34	CCV003	CCV003	CCV	06/30/24 17:02		Kareem	OK
35	CCB003	CCB003	CCB	06/30/24 17:06		Kareem	OK
36	P2836-01	MYD4C6	SAM	06/30/24 17:11		Kareem	OK
37	P2836-02	MYD4C7	SAM	06/30/24 17:15		Kareem	OK
38	P2836-03	MYD4C8	SAM	06/30/24 17:19		Kareem	OK

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB131457

Review By	Sarabjit Jaswal	Review On	6/30/2024 8:09:37 PM
Supervise By	Mohan Bera	Supervise On	6/30/2024 8:11:46 PM

STD. NAME	STD REF.#
ICAL Standard	MP80924,MP81209,MP80928,MP80927,MP80926,MP80925,MP80935
ICV Standard	MP81250
CCV Standard	MP80934
ICSA Standard	MP80932,MP80933
CRI Standard	
LCS Standard	MP81187
Chk Standard	MP80942,MP80944

39	P2836-04	MYD4C9	SAM	06/30/24 17:24		Kareem	OK
40	P2836-05	MYD4D0	SAM	06/30/24 17:28		Kareem	OK
41	P2836-06	MYD4D1	SAM	06/30/24 17:33		Kareem	OK
42	P2836-07	MYD4D2	SAM	06/30/24 17:37		Kareem	OK
43	P2836-08	MYD4D3	SAM	06/30/24 17:41		Kareem	OK
44	P2836-09	MYD4D3D	DUP	06/30/24 17:46		Kareem	OK
45	P2836-08L	MYD4D3L	SD	06/30/24 18:26		Kareem	OK
46	P2836-10	MYD4D3S	MS	06/30/24 18:30	MS fail for Cr (135.20 ppb), Zn (1229.07 ppb), Se,Tl (Below RL)	Kareem	OK
47	CCV004	CCV004	CCV	06/30/24 18:34		Kareem	OK
48	CCB004	CCB004	CCB	06/30/24 18:39		Kareem	OK
49	P2836-11	MYD4D4	SAM	06/30/24 18:43		Kareem	OK
50	P2836-12	MYD4D5	SAM	06/30/24 18:48		Kareem	OK
51	P2836-13	MYD4D6	SAM	06/30/24 18:52		Kareem	OK
52	P2836-14	MYD4D7	SAM	06/30/24 18:56		Kareem	OK
53	P2836-15	MYD4D8	SAM	06/30/24 19:01		Kareem	OK
54	P2836-16	MYD4D9	SAM	06/30/24 19:05		Kareem	OK
55	P2836-17	MYD4E0	SAM	06/30/24 19:09		Kareem	OK
56	P2836-18	MYD4E1	SAM	06/30/24 19:14		Kareem	OK
57	P2836-19RE	MYD4E2	SAM	06/30/24 19:18	Not use	Kareem	Not Ok

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB131457

Review By	Sarabjit Jaswal	Review On	6/30/2024 8:09:37 PM
Supervise By	Mohan Bera	Supervise On	6/30/2024 8:11:46 PM

STD. NAME	STD REF.#
ICAL Standard	MP80924,MP81209,MP80928,MP80927,MP80926,MP80925,MP80935
ICV Standard	MP81250
CCV Standard	MP80934
ICSA Standard	MP80932,MP80933
CRI Standard	
LCS Standard	MP81187
Chk Standard	MP80942,MP80944

58	CCV005	CCV005	CCV	06/30/24 19:23		Kareem	OK
59	CCB005	CCB005	CCB	06/30/24 19:27		Kareem	OK
60	P2900-19RE	EZWF1	SAM	06/30/24 19:32	Not use	Kareem	Not Ok
61	P2900-21RE	EZWF1S	MS	06/30/24 19:36	Not use	Kareem	Not Ok
62	P2845-02	MA4C64	SAM	06/30/24 19:40		Kareem	OK
63	P2845-03	MA4C64D	DUP	06/30/24 19:45		Kareem	OK
64	P2845-02L	MA4C64L	SD	06/30/24 19:49		Kareem	OK
65	P2845-04	MA4C64S	MS	06/30/24 19:54		Kareem	OK
66	P2845-05	MA4C46	SAM	06/30/24 19:58		Kareem	OK
67	P2845-06	MA4C47	SAM	06/30/24 20:02		Kareem	OK
68	P2845-07	MA4C48	SAM	06/30/24 20:07		Kareem	OK
69	P2845-08	MA4C53	SAM	06/30/24 20:11		Kareem	OK
70	P2845-09	MA4C57	SAM	06/30/24 20:16		Kareem	OK
71	P2845-10	MA4CN4	SAM	06/30/24 20:20		Kareem	OK
72	P2845-11	MA4CN5	SAM	06/30/24 20:25		Kareem	OK
73	P2845-12	MA4CN7	SAM	06/30/24 20:29		Kareem	OK
74	P2845-13	MA4C52	SAM	06/30/24 20:33		Kareem	OK
75	P2845-14	MA4C54	SAM	06/30/24 20:38		Kareem	OK
76	P2845-15	MA4C55	SAM	06/30/24 20:42		Kareem	OK
77	P2845-16	MA4C58	SAM	06/30/24 20:47		Kareem	OK

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB131457

Review By	Sarabjit Jaswal	Review On	6/30/2024 8:09:37 PM
Supervise By	Mohan Bera	Supervise On	6/30/2024 8:11:46 PM

STD. NAME	STD REF.#
ICAL Standard	MP80924,MP81209,MP80928,MP80927,MP80926,MP80925,MP80935
ICV Standard	MP81250
CCV Standard	MP80934
ICSA Standard	MP80932,MP80933
CRI Standard	
LCS Standard	MP81187
Chk Standard	MP80942,MP80944

78	P2845-17	MA4C60	SAM	06/30/24 20:51		Kareem	OK
79	P2845-18	MA4CJ1	SAM	06/30/24 20:56		Kareem	OK
80	CCV006	CCV006	CCV	06/30/24 21:00		Kareem	OK
81	CCB006	CCB006	CCB	06/30/24 21:04		Kareem	OK
82	P2845-19	MA4CJ2	SAM	06/30/24 21:09		Kareem	OK
83	P2845-20	MA4CN3	SAM	06/30/24 21:13		Kareem	OK
84	P2845-21	MA4C49	SAM	06/30/24 21:18		Kareem	OK
85	P2845-22	MA4C50	SAM	06/30/24 21:22		Kareem	OK
86	P2836-22RE	MYD4E5	SAM	06/30/24 21:27	Not use	Kareem	Not Ok
87	P2874-01	EZW34	SAM	06/30/24 21:31		Kareem	OK
88	P2874-02	EZW35	SAM	06/30/24 21:35		Kareem	OK
89	P2874-03	EZW36	SAM	06/30/24 21:40		Kareem	OK
90	P2874-04	EZW37	SAM	06/30/24 21:44		Kareem	OK
91	P2874-05	EZW38	SAM	06/30/24 21:49		Kareem	OK
92	P2874-06	EZW39	SAM	06/30/24 21:53		Kareem	OK
93	P2874-07	EZW40	SAM	06/30/24 21:58		Kareem	OK
94	P2874-08	EZW41	SAM	06/30/24 22:02		Kareem	OK
95	P2874-09	EZW42	SAM	06/30/24 22:06		Kareem	OK
96	P2874-10	EZW43	SAM	06/30/24 22:11		Kareem	OK
97	P2874-11	EZW44	SAM	06/30/24 22:15		Kareem	OK

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB131457

Review By	Sarabjit Jaswal	Review On	6/30/2024 8:09:37 PM
Supervise By	Mohan Bera	Supervise On	6/30/2024 8:11:46 PM

STD. NAME	STD REF.#
ICAL Standard	MP80924,MP81209,MP80928,MP80927,MP80926,MP80925,MP80935
ICV Standard	MP81250
CCV Standard	MP80934
ICSA Standard	MP80932,MP80933
CRI Standard	
LCS Standard	MP81187
Chk Standard	MP80942,MP80944

98	P2874-12	EZW45	SAM	06/30/24 22:20		Kareem	OK
99	P2874-13	EZW46	SAM	06/30/24 22:24		Kareem	OK
100	P2874-14	EZW47	SAM	06/30/24 22:28		Kareem	OK
101	P2874-15	EZW48	SAM	06/30/24 22:33		Kareem	OK
102	CCV007	CCV007	CCV	06/30/24 22:37		Kareem	OK
103	CCB007	CCB007	CCB	06/30/24 22:42		Kareem	OK
104	P2874-16	EZW49	SAM	06/30/24 22:46		Kareem	OK
105	P2874-17	EZW50	SAM	06/30/24 22:51		Kareem	OK
106	P2874-18	EZW51	SAM	06/30/24 22:55		Kareem	OK
107	P2874-19	EZW52	SAM	06/30/24 22:59		Kareem	OK
108	P2874-20	EZW56	SAM	06/30/24 23:04		Kareem	OK
109	P2874-21	EZW56D	DUP	06/30/24 23:08		Kareem	OK
110	P2874-20L	EZW56L	SD	06/30/24 23:13		Kareem	OK
111	P2874-22	EZW56S	MS	06/30/24 23:17		Kareem	OK
112	P2836-19	MYD4E2	SAM	06/30/24 23:22		Kareem	OK
113	P2836-20	MYD4E3	SAM	06/30/24 23:26		Kareem	OK
114	P2836-21	MYD4E4	SAM	06/30/24 23:30		Kareem	OK
115	P2836-22	MYD4E5	SAM	06/30/24 23:35		Kareem	OK
116	P2902-19RE	EZWF0	SAM	06/30/24 23:39	Not use	Kareem	Not Ok
117	P2902-20RE	EZWS9	SAM	06/30/24 23:44	Not use	Kareem	Not Ok

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB131457

Review By	Sarabjit Jaswal	Review On	6/30/2024 8:09:37 PM
Supervise By	Mohan Bera	Supervise On	6/30/2024 8:11:46 PM

STD. NAME	STD REF.#
ICAL Standard	MP80924,MP81209,MP80928,MP80927,MP80926,MP80925,MP80935
ICV Standard	MP81250
CCV Standard	MP80934
ICSA Standard	MP80932,MP80933
CRI Standard	
LCS Standard	MP81187
Chk Standard	MP80942,MP80944

118	P2875-01	EZW53	SAM	06/30/24 23:48		Kareem	OK
119	P2875-02	EZW54	SAM	06/30/24 23:52		Kareem	OK
120	P2875-03	EZW55	SAM	06/30/24 23:57		Kareem	OK
121	P2875-04	EZW57	SAM	07/01/24 00:01		Kareem	OK
122	CCV008	CCV008	CCV	07/01/24 00:09		Kareem	OK
123	CCB008	CCB008	CCB	07/01/24 00:13		Kareem	OK
124	P2875-05	EZW58	SAM	07/01/24 00:18		Kareem	OK
125	P2875-06	EZW59	SAM	07/01/24 00:22		Kareem	OK
126	P2875-07	EZW60	SAM	07/01/24 00:26		Kareem	OK
127	P2875-08	EZW61	SAM	07/01/24 00:31		Kareem	OK
128	P2875-09	EZW62	SAM	07/01/24 00:35		Kareem	OK
129	P2875-10	EZW63	SAM	07/01/24 00:40		Kareem	OK
130	P2875-11	EZW64	SAM	07/01/24 00:44		Kareem	OK
131	P2875-12	EZW65	SAM	07/01/24 00:48		Kareem	OK
132	P2845-01	MA4D90	SAM	07/01/24 01:02		Kareem	OK
133	CCV009	CCV009	CCV	07/01/24 01:13		Kareem	OK
134	CCB009	CCB009	CCB	07/01/24 01:17		Kareem	OK
135	P2875-13	EZW66	SAM	07/01/24 01:22		Kareem	OK
136	P2875-14	EZW67	SAM	07/01/24 01:26		Kareem	OK
137	P2875-15	EZW68	SAM	07/01/24 01:30		Kareem	OK

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB131457

Review By	Sarabjit Jaswal	Review On	6/30/2024 8:09:37 PM
Supervise By	Mohan Bera	Supervise On	6/30/2024 8:11:46 PM

STD. NAME	STD REF.#
ICAL Standard	MP80924,MP81209,MP80928,MP80927,MP80926,MP80925,MP80935
ICV Standard	MP81250
CCV Standard	MP80934
ICSA Standard	MP80932,MP80933
CRI Standard	
LCS Standard	MP81187
Chk Standard	MP80942,MP80944

138	P2875-16	EZW69	SAM	07/01/24 01:35		Kareem	OK
139	P2875-17	EZW70	SAM	07/01/24 01:39		Kareem	OK
140	P2875-18	EZW71	SAM	07/01/24 01:43		Kareem	OK
141	P2875-19	EZW72	SAM	07/01/24 01:48		Kareem	OK
142	P2875-20	EZW79	SAM	07/01/24 01:52		Kareem	OK
143	P2875-21	EZW79D	DUP	07/01/24 01:57		Kareem	OK
144	P2875-20L	EZW79L	SD	07/01/24 02:01		Kareem	OK
145	P2875-22	EZW79S	MS	07/01/24 02:05	MS fail for As(88.1139ppb)	Kareem	OK
146	P2876-01	EZW81	SAM	07/01/24 02:10		Kareem	OK
147	P2876-02	EZW82	SAM	07/01/24 02:14		Kareem	OK
148	P2876-03	EZW83	SAM	07/01/24 02:19		Kareem	OK
149	P2876-04	EZW84	SAM	07/01/24 02:23		Kareem	OK
150	P2876-05	EZW85	SAM	07/01/24 02:27		Kareem	OK
151	P2876-06	EZW86	SAM	07/01/24 02:32		Kareem	OK
152	P2876-07	EZW87	SAM	07/01/24 02:36		Kareem	OK
153	P2876-08	EZW88	SAM	07/01/24 02:41		Kareem	OK
154	P2876-09	EZW89	SAM	07/01/24 02:45		Kareem	OK
155	CCV010	CCV010	CCV	07/01/24 02:49		Kareem	OK
156	CCB010	CCB010	CCB	07/01/24 02:54		Kareem	OK
157	P2876-10	EZW90	SAM	07/01/24 02:58		Kareem	OK

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB131457

Review By	Sarabjit Jaswal	Review On	6/30/2024 8:09:37 PM
Supervise By	Mohan Bera	Supervise On	6/30/2024 8:11:46 PM

STD. NAME	STD REF.#
ICAL Standard	MP80924,MP81209,MP80928,MP80927,MP80926,MP80925,MP80935
ICV Standard	MP81250
CCV Standard	MP80934
ICSA Standard	MP80932,MP80933
CRI Standard	
LCS Standard	MP81187
Chk Standard	MP80942,MP80944

158	P2876-11	EZW91	SAM	07/01/24 03:03		Kareem	OK
159	P2876-12	EZW92	SAM	07/01/24 03:07		Kareem	OK
160	P2876-13	EZW93	SAM	07/01/24 03:12		Kareem	OK
161	P2876-14	EZW94	SAM	07/01/24 03:16		Kareem	OK
162	P2876-15	EZW95	SAM	07/01/24 03:20		Kareem	OK
163	P2876-16	EZW96	SAM	07/01/24 03:25		Kareem	OK
164	P2876-17	EZW97	SAM	07/01/24 03:29		Kareem	OK
165	P2876-18	EZW98	SAM	07/01/24 03:34		Kareem	OK
166	P2876-19	EZW99	SAM	07/01/24 03:38		Kareem	OK
167	P2876-20	EZWA2	SAM	07/01/24 03:42		Kareem	OK
168	P2876-21	EZWA2D	DUP	07/01/24 03:47		Kareem	OK
169	P2876-20L	EZWA2L	SD	07/01/24 03:51		Kareem	OK
170	P2876-22	EZWA2S	MS	07/01/24 03:56		Kareem	OK
171	P2877-01	EZW73	SAM	07/01/24 04:00		Kareem	OK
172	P2877-02	EZW74	SAM	07/01/24 04:05		Kareem	OK
173	P2877-03	EZW75	SAM	07/01/24 04:09		Kareem	OK
174	P2877-04	EZW76	SAM	07/01/24 04:14		Kareem	OK
175	P2877-05	EZW77	SAM	07/01/24 04:18		Kareem	OK
176	P2877-06	EZW78	SAM	07/01/24 04:22		Kareem	OK
177	CCV011	CCV011	CCV	07/01/24 04:27		Kareem	OK

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB131457

Review By	Sarabjit Jaswal	Review On	6/30/2024 8:09:37 PM
Supervise By	Mohan Bera	Supervise On	6/30/2024 8:11:46 PM

STD. NAME	STD REF.#
ICAL Standard	MP80924,MP81209,MP80928,MP80927,MP80926,MP80925,MP80935
ICV Standard	MP81250
CCV Standard	MP80934
ICSA Standard	MP80932,MP80933
CRI Standard	
LCS Standard	MP81187
Chk Standard	MP80942,MP80944

178	CCB011	CCB011	CCB	07/01/24 04:31		Kareem	OK
179	P2877-07	EZW80	SAM	07/01/24 04:36		Kareem	OK
180	P2877-08	EZWA0	SAM	07/01/24 04:40		Kareem	OK
181	P2877-09	EZWA1	SAM	07/01/24 04:45		Kareem	OK
182	P2877-13	EZWC4	SAM	07/01/24 04:49		Kareem	OK
183	P2877-14	EZWC5	SAM	07/01/24 04:53		Kareem	OK
184	P2877-15	EZWC6	SAM	07/01/24 04:58		Kareem	OK
185	P2877-16	EZWC7	SAM	07/01/24 05:02		Kareem	OK
186	P2877-20	EZWC9	SAM	07/01/24 05:07		Kareem	OK
187	P2877-21	EZWD0	SAM	07/01/24 05:11		Kareem	OK
188	P2877-22	EZWD1	SAM	07/01/24 05:15		Kareem	OK
189	P2877-17	EZWC8	SAM	07/01/24 05:20		Kareem	OK
190	P2877-18	EZWC8D	DUP	07/01/24 05:24		Kareem	OK
191	P2877-17L	EZWC8L	SD	07/01/24 05:29		Kareem	OK
192	P2877-19	EZWC8S	MS	07/01/24 05:33		Kareem	OK
193	P2900-01	EZWA6	SAM	07/01/24 05:38		Kareem	OK
194	P2900-02	EZWA7	SAM	07/01/24 05:42		Kareem	OK
195	P2900-03	EZWA8	SAM	07/01/24 05:46		Kareem	OK
196	P2900-04	EZWA9	SAM	07/01/24 05:51		Kareem	OK
197	P2900-05	EZWB0	SAM	07/01/24 05:55		Kareem	OK

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB131457

Review By	Sarabjit Jaswal	Review On	6/30/2024 8:09:37 PM
Supervise By	Mohan Bera	Supervise On	6/30/2024 8:11:46 PM

STD. NAME	STD REF.#
ICAL Standard	MP80924,MP81209,MP80928,MP80927,MP80926,MP80925,MP80935
ICV Standard	MP81250
CCV Standard	MP80934
ICSA Standard	MP80932,MP80933
CRI Standard	
LCS Standard	MP81187
Chk Standard	MP80942,MP80944

198	P2900-06	EZWB1	SAM	07/01/24 06:00		Kareem	OK
199	P2900-07	EZWB2	SAM	07/01/24 06:04		Kareem	OK
200	CCV012	CCV012	CCV	07/01/24 06:09		Kareem	OK
201	CCB012	CCB012	CCB	07/01/24 06:13		Kareem	OK
202	P2900-08	EZWB3	SAM	07/01/24 06:17		Kareem	OK
203	P2900-09	EZWB4	SAM	07/01/24 06:22		Kareem	OK
204	P2900-10	EZWB5	SAM	07/01/24 06:26	Not use	Kareem	Not Ok
205	P2900-11	EZWB6	SAM	07/01/24 06:31		Kareem	OK
206	P2900-12	EZWB7	SAM	07/01/24 06:35		Kareem	OK
207	P2900-13	EZWB8	SAM	07/01/24 06:40		Kareem	OK
208	P2900-14	EZWB9	SAM	07/01/24 06:44		Kareem	OK
209	P2900-15	EZWC0	SAM	07/01/24 06:48		Kareem	OK
210	P2900-16	EZWC1	SAM	07/01/24 06:53		Kareem	OK
211	P2900-17	EZWC2	SAM	07/01/24 06:57		Kareem	OK
212	P2900-18RE	EZWC3	SAM	07/01/24 07:02	Not use	Kareem	Not Ok
213	P2900-19RE2	EZWF1	SAM	07/01/24 07:06	Not use	Kareem	Not Ok
214	P2900-20RE	EZWF1D	DUP	07/01/24 07:11	Not use	Kareem	Not Ok
215	P2900-19LRE	EZWF1L	SD	07/01/24 07:15	Not use	Kareem	Not Ok
216	P2900-21RE2	EZWF1S	MS	07/01/24 07:20	Not use	Kareem	Not Ok
217	P2901-01	EZWF3	SAM	07/01/24 07:24		Kareem	OK

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB131457

Review By	Sarabjit Jaswal	Review On	6/30/2024 8:09:37 PM
Supervise By	Mohan Bera	Supervise On	6/30/2024 8:11:46 PM

STD. NAME	STD REF.#
ICAL Standard	MP80924,MP81209,MP80928,MP80927,MP80926,MP80925,MP80935
ICV Standard	MP81250
CCV Standard	MP80934
ICSA Standard	MP80932,MP80933
CRI Standard	
LCS Standard	MP81187
Chk Standard	MP80942,MP80944

218	P2901-02	EZWF4	SAM	07/01/24 07:28		Kareem	OK
219	P2901-03	EZWF5	SAM	07/01/24 07:33		Kareem	OK
220	P2901-04	EZWF6	SAM	07/01/24 07:37		Kareem	OK
221	P2901-05RE	EZWF7	SAM	07/01/24 07:42	Not use	Kareem	Not Ok
222	CCV013	CCV013	CCV	07/01/24 07:46		Kareem	OK
223	CCB013	CCB013	CCB	07/01/24 07:51		Kareem	OK
224	P2901-06RE	EZWF8	SAM	07/01/24 07:55	Not use	Kareem	Not Ok
225	P2901-07RE	EZWF9	SAM	07/01/24 08:00	Not use	Kareem	Not Ok
226	P2901-08RE	EZWG0	SAM	07/01/24 08:04	Not use	Kareem	Not Ok
227	P2901-09RE	EZWG1	SAM	07/01/24 08:09	Not use	Kareem	Not Ok
228	P2901-10	EZWG2	SAM	07/01/24 08:13		Kareem	OK
229	P2901-11	EZWG3	SAM	07/01/24 08:18		Kareem	OK
230	P2901-12RE	EZWG4	SAM	07/01/24 08:22	Not use	Kareem	Not Ok
231	P2901-13RE	EZWG5	SAM	07/01/24 08:27	Not use	Kareem	Not Ok
232	P2901-14	EZWG6	SAM	07/01/24 08:31		Kareem	OK
233	P2901-15	EZWG7	SAM	07/01/24 08:35		Kareem	OK
234	P2901-16	EZWG8	SAM	07/01/24 08:40		Kareem	OK
235	P2901-17	EZWG9	SAM	07/01/24 08:44		Kareem	OK
236	P2901-18RE	EZWH0	SAM	07/01/24 08:49	Not use	Kareem	Not Ok
237	P2901-19RE	EZWH1	SAM	07/01/24 08:53	Not use	Kareem	Not Ok

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB131457

Review By	Sarabjit Jaswal	Review On	6/30/2024 8:09:37 PM
Supervise By	Mohan Bera	Supervise On	6/30/2024 8:11:46 PM

STD. NAME	STD REF.#
ICAL Standard	MP80924,MP81209,MP80928,MP80927,MP80926,MP80925,MP80935
ICV Standard	MP81250
CCV Standard	MP80934
ICSA Standard	MP80932,MP80933
CRI Standard	
LCS Standard	MP81187
Chk Standard	MP80942,MP80944

238	P2901-20RE	EZWH4	SAM	07/01/24 08:58	Not use	Kareem	Not Ok
239	P2901-21RE	EZWH4D	DUP	07/01/24 09:02	Not use	Kareem	Not Ok
240	P2901-20LRE	EZWH4L	SD	07/01/24 09:07	Not use	Kareem	Not Ok
241	P2901-22RE	EZWH4S	MS	07/01/24 09:11	Not use	Kareem	Not Ok
242	P2829-03	MYD5T4	SAM	07/01/24 09:16	Not use	Kareem	Not Ok
243	CCV014	CCV014	CCV	07/01/24 09:20		Kareem	OK
244	CCB014	CCB014	CCB	07/01/24 09:25		Kareem	OK
245	P2902-01RE	EZWD2	SAM	07/01/24 09:29	Not use	Kareem	Not Ok
246	P2902-02	EZWD3	SAM	07/01/24 09:34		Kareem	OK
247	P2902-03	EZWD4	SAM	07/01/24 09:38		Kareem	OK
248	P2902-04RE	EZWD5	SAM	07/01/24 09:42	Not use	Kareem	Not Ok
249	P2902-05RE	EZWD6	SAM	07/01/24 09:47	Not use	Kareem	Not Ok
250	P2902-06RE	EZWD7	SAM	07/01/24 09:51	Not use	Kareem	Not Ok
251	P2902-07RE	EZWD8	SAM	07/01/24 09:56	Not use	Kareem	Not Ok
252	P2902-08RE	EZWD9	SAM	07/01/24 10:01	Not use	Kareem	Not Ok
253	P2902-09RE	EZWE0	SAM	07/01/24 10:05	Not use	Kareem	Not Ok
254	P2902-10RE	EZWE1	SAM	07/01/24 10:10	Not use	Kareem	Not Ok
255	P2902-11RE	EZWE2	SAM	07/01/24 10:14	Not use	Kareem	Not Ok
256	P2902-12RE	EZWE3	SAM	07/01/24 10:19	Not use	Kareem	Not Ok
257	P2902-13	EZWE4	SAM	07/01/24 10:23		Kareem	OK

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB131457

Review By	Sarabjit Jaswal	Review On	6/30/2024 8:09:37 PM
Supervise By	Mohan Bera	Supervise On	6/30/2024 8:11:46 PM

STD. NAME	STD REF.#
ICAL Standard	MP80924,MP81209,MP80928,MP80927,MP80926,MP80925,MP80935
ICV Standard	MP81250
CCV Standard	MP80934
ICSA Standard	MP80932,MP80933
CRI Standard	
LCS Standard	MP81187
Chk Standard	MP80942,MP80944

258	P2902-14RE	EZWE5	SAM	07/01/24 10:28	Not use	Kareem	Not Ok
259	P2902-15	EZWE6	SAM	07/01/24 10:32		Kareem	OK
260	P2902-16	EZWE7	SAM	07/01/24 10:36		Kareem	OK
261	P2902-17	EZWE8	SAM	07/01/24 10:41		Kareem	OK
262	P2902-18	EZWE9	SAM	07/01/24 10:45		Kareem	OK
263	P2902-19	EZWF0	SAM	07/01/24 10:50		Kareem	OK
264	P2902-20	EZWS9	SAM	07/01/24 10:54		Kareem	OK
265	CCV015	CCV015	CCV	07/01/24 10:59		Kareem	OK
266	CCB015	CCB015	CCB	07/01/24 11:03		Kareem	OK
267	P2902-21	EZWS9D	DUP	07/01/24 11:08		Kareem	OK
268	P2902-20L	EZWS9L	SD	07/01/24 11:12		Kareem	OK
269	P2902-22	EZWS9S	MS	07/01/24 11:16		Kareem	OK
270	P2900-22	EZWF2	SAM	07/01/24 11:21		Kareem	OK
271	CCV016	CCV016	CCV	07/01/24 11:25		Kareem	OK
272	CCB016	CCB016	CCB	07/01/24 11:30		Kareem	OK
273	CCV017	CCV017	CCV	07/01/24 12:56		Kareem	OK
274	CCB017	CCB017	CCB	07/01/24 13:00		Kareem	OK
275	PB161780BL	PBS780	MB	07/01/24 13:14		Kareem	OK
276	PB161780BS	LCS780	LCS	07/01/24 13:18		Kareem	OK
277	PB161778BL	PBS778	MB	07/01/24 13:23		Kareem	OK

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB131457

Review By	Sarabjit Jaswal	Review On	6/30/2024 8:09:37 PM
Supervise By	Mohan Bera	Supervise On	6/30/2024 8:11:46 PM

STD. NAME	STD REF.#
ICAL Standard	MP80924,MP81209,MP80928,MP80927,MP80926,MP80925,MP80935
ICV Standard	MP81250
CCV Standard	MP80934
ICSA Standard	MP80932,MP80933
CRI Standard	
LCS Standard	MP81187
Chk Standard	MP80942,MP80944

278	PB161778BS	LCS778	LCS	07/01/24 13:27		Kareem	OK
279	P2903-01	EZWK4	SAM	07/01/24 13:32		Kareem	OK
280	P2903-02	EZWK5	SAM	07/01/24 13:36		Kareem	OK
281	P2903-03	EZWK6	SAM	07/01/24 13:41		Kareem	OK
282	P2903-04	EZWL1	SAM	07/01/24 13:45		Kareem	OK
283	P2903-05	EZWL2	SAM	07/01/24 13:50		Kareem	OK
284	P2903-06	EZWL3	SAM	07/01/24 13:54		Kareem	OK
285	P2903-07	EZWL4	SAM	07/01/24 13:58		Kareem	OK
286	P2903-08	EZWL5	SAM	07/01/24 14:03		Kareem	OK
287	P2903-09	EZWL6	SAM	07/01/24 14:07		Kareem	OK
288	P2903-10	EZWL7	SAM	07/01/24 14:12		Kareem	OK
289	P2903-11	EZWL8	SAM	07/01/24 14:16		Kareem	OK
290	P2903-12	EZWL9	SAM	07/01/24 14:21		Kareem	OK
291	P2903-13	EZWM0	SAM	07/01/24 14:25		Kareem	OK
292	P2903-14	EZWM1	SAM	07/01/24 14:29		Kareem	OK
293	CCV018	CCV018	CCV	07/01/24 14:34		Kareem	OK
294	CCB018	CCB018	CCB	07/01/24 14:38		Kareem	OK
295	P2903-15	EZWM2	SAM	07/01/24 14:43		Kareem	OK
296	P2903-16	EZWM3	SAM	07/01/24 14:47		Kareem	OK
297	P2903-17	EZWM4	SAM	07/01/24 14:52		Kareem	OK

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB131457

Review By	Sarabjit Jaswal	Review On	6/30/2024 8:09:37 PM
Supervise By	Mohan Bera	Supervise On	6/30/2024 8:11:46 PM

STD. NAME	STD REF.#
ICAL Standard	MP80924,MP81209,MP80928,MP80927,MP80926,MP80925,MP80935
ICV Standard	MP81250
CCV Standard	MP80934
ICSA Standard	MP80932,MP80933
CRI Standard	
LCS Standard	MP81187
Chk Standard	MP80942,MP80944

298	P2903-18	EZWH2	SAM	07/01/24 14:56		Kareem	OK
299	P2903-19	EZWH3	SAM	07/01/24 15:00		Kareem	OK
300	P2903-20	EZX20	SAM	07/01/24 15:05		Kareem	OK
301	P2903-21	EZX20D	DUP	07/01/24 15:09		Kareem	OK
302	P2903-20L	EZX20L	SD	07/01/24 15:13		Kareem	OK
303	P2903-22	EZX20S	MS	07/01/24 15:18	MS Fail For As(165.39ppb)	Kareem	OK
304	P2904-01	EZWH5	SAM	07/01/24 15:22		Kareem	OK
305	P2904-02	EZWH6	SAM	07/01/24 15:27		Kareem	OK
306	P2904-03	EZWH7	SAM	07/01/24 15:31		Kareem	OK
307	P2904-04	EZWH8	SAM	07/01/24 15:36		Kareem	OK
308	P2904-05	EZWH9	SAM	07/01/24 15:40		Kareem	OK
309	P2904-06	EZWJ0	SAM	07/01/24 15:44		Kareem	OK
310	P2904-07	EZWJ1	SAM	07/01/24 15:49		Kareem	OK
311	P2904-08	EZWJ2	SAM	07/01/24 15:53		Kareem	OK
312	P2904-09	EZWJ3	SAM	07/01/24 15:58		Kareem	OK
313	P2904-10	EZWJ4	SAM	07/01/24 16:02		Kareem	OK
314	P2904-11	EZWJ5	SAM	07/01/24 16:06		Kareem	OK
315	CCV019	CCV019	CCV	07/01/24 16:11		Kareem	OK
316	CCB019	CCB019	CCB	07/01/24 16:15		Kareem	OK
317	P2904-12	EZWJ6	SAM	07/01/24 16:20		Kareem	OK

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB131457

Review By	Sarabjit Jaswal	Review On	6/30/2024 8:09:37 PM
Supervise By	Mohan Bera	Supervise On	6/30/2024 8:11:46 PM

STD. NAME	STD REF.#
ICAL Standard	MP80924,MP81209,MP80928,MP80927,MP80926,MP80925,MP80935
ICV Standard	MP81250
CCV Standard	MP80934
ICSA Standard	MP80932,MP80933
CRI Standard	
LCS Standard	MP81187
Chk Standard	MP80942,MP80944

318	P2904-13	EZWJ7	SAM	07/01/24 16:24		Kareem	OK
319	P2904-14	EZWJ8	SAM	07/01/24 16:28		Kareem	OK
320	P2904-15	EZWJ9	SAM	07/01/24 16:33		Kareem	OK
321	P2904-16	EZWK0	SAM	07/01/24 16:37		Kareem	OK
322	P2904-17	EZWK1	SAM	07/01/24 16:42		Kareem	OK
323	P2904-18	EZWK2	SAM	07/01/24 16:46		Kareem	OK
324	P2904-19	EZWK3	SAM	07/01/24 16:50		Kareem	OK
325	P2904-20	EZWK7	SAM	07/01/24 16:55		Kareem	OK
326	P2904-21	EZWK7D	DUP	07/01/24 16:59		Kareem	OK
327	P2904-20L	EZWK7L	SD	07/01/24 17:04		Kareem	OK
328	P2904-22	EZWK7S	MS	07/01/24 17:08		Kareem	OK
329	P2901-05	EZWF7	SAM	07/01/24 17:13		Kareem	OK
330	P2901-06	EZWF8	SAM	07/01/24 17:17	Not Use	Kareem	Not Ok
331	P2901-07	EZWF9	SAM	07/01/24 17:21		Kareem	OK
332	P2901-08	EZWG0	SAM	07/01/24 17:26		Kareem	OK
333	P2901-09	EZWG1	SAM	07/01/24 17:30		Kareem	OK
334	P2901-12	EZWG4	SAM	07/01/24 17:35		Kareem	OK
335	P2901-13	EZWG5	SAM	07/01/24 17:39		Kareem	OK
336	P2901-18	EZWH0	SAM	07/01/24 17:43		Kareem	OK
337	CCV020	CCV020	CCV	07/01/24 17:48		Kareem	OK

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB131457

Review By	Sarabjit Jaswal	Review On	6/30/2024 8:09:37 PM
Supervise By	Mohan Bera	Supervise On	6/30/2024 8:11:46 PM

STD. NAME	STD REF.#
ICAL Standard	MP80924,MP81209,MP80928,MP80927,MP80926,MP80925,MP80935
ICV Standard	MP81250
CCV Standard	MP80934
ICSA Standard	MP80932,MP80933
CRI Standard	
LCS Standard	MP81187
Chk Standard	MP80942,MP80944

338	CCB020	CCB020	CCB	07/01/24 17:52		Kareem	OK
339	P2901-19	EZWH1	SAM	07/01/24 17:57		Kareem	OK
340	P2901-20	EZWH4	SAM	07/01/24 18:01		Kareem	OK
341	P2901-21	EZWH4D	DUP	07/01/24 18:05		Kareem	OK
342	P2901-20L	EZWH4L	SD	07/01/24 18:10		Kareem	OK
343	P2902-01	EZWD2	SAM	07/01/24 18:19		Kareem	OK
344	P2902-04	EZWD5	SAM	07/01/24 18:23		Kareem	OK
345	P2902-05	EZWD6	SAM	07/01/24 18:28		Kareem	OK
346	P2902-06	EZWD7	SAM	07/01/24 18:32		Kareem	OK
347	P2902-07	EZWD8	SAM	07/01/24 18:37		Kareem	OK
348	P2902-08	EZWD9	SAM	07/01/24 18:41		Kareem	OK
349	P2902-09	EZWE0	SAM	07/01/24 18:45		Kareem	OK
350	P2902-10	EZWE1	SAM	07/01/24 18:50		Kareem	OK
351	P2902-11	EZWE2	SAM	07/01/24 18:54		Kareem	OK
352	P2900-18	EZWC3	SAM	07/01/24 18:59		Kareem	OK
353	CCV021	CCV021	CCV	07/01/24 19:24		Kareem	OK
354	CCB021	CCB021	CCB	07/01/24 19:28		Kareem	OK
355	P2902-12	EZWE3	SAM	07/01/24 19:48		Kareem	OK
356	P2902-14	EZWE5	SAM	07/01/24 19:52		Kareem	OK
357	P2901-22	EZWH4S	MS	07/01/24 19:56		Kareem	OK

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB131457

Review By	Sarabjit Jaswal	Review On	6/30/2024 8:09:37 PM
Supervise By	Mohan Bera	Supervise On	6/30/2024 8:11:46 PM

STD. NAME	STD REF.#
ICAL Standard	MP80924,MP81209,MP80928,MP80927,MP80926,MP80925,MP80935
ICV Standard	MP81250
CCV Standard	MP80934
ICSA Standard	MP80932,MP80933
CRI Standard	
LCS Standard	MP81187
Chk Standard	MP80942,MP80944

358	P2900-19	EZWF1	SAM	07/01/24 20:01		Kareem	OK
359	P2900-20	EZWF1D	DUP	07/01/24 20:05		Kareem	OK
360	P2900-19L	EZWF1L	SD	07/01/24 20:10		Kareem	OK
361	P2900-21	EZWF1S	MS	07/01/24 20:14	MS Fail For As(151.00ppb)	Kareem	OK
362	CCV022	CCV022	CCV	07/01/24 20:18		Kareem	OK
363	CCB022	CCB022	CCB	07/01/24 20:23		Kareem	OK

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB131513

Review By	Sarabjit Jaswal	Review On	7/4/2024 6:05:35 AM
Supervise By	Mohan Bera	Supervise On	7/4/2024 6:07:00 AM

STD. NAME	STD REF.#
ICAL Standard	MP81288,MP81294,MP81292,MP81291,MP81290,MP81289,MP81308
ICV Standard	MP81295
CCV Standard	MP81298
ICSA Standard	MP81296,MP81297
CRI Standard	
LCS Standard	
Chk Standard	MP81300,MP81301

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	07/03/24 16:41		Kareem	OK
2	S1	S01	CAL2	07/03/24 16:45		Kareem	OK
3	S2	S02	CAL3	07/03/24 16:50		Kareem	OK
4	S3	S03	CAL4	07/03/24 16:54		Kareem	OK
5	S4	S04	CAL5	07/03/24 16:58		Kareem	OK
6	S5	S05	CAL6	07/03/24 17:03		Kareem	OK
7	S6	S06	CAL7	07/03/24 17:07		Kareem	OK
8	ICV015	ICV015	ICV	07/03/24 17:30		Kareem	OK
9	ICB015	ICB015	ICB	07/03/24 17:34		Kareem	OK
10	ICSA015	ICSA015	ICSA	07/03/24 17:38		Kareem	OK
11	ICSAB015	ICSAB015	ICSAB	07/03/24 17:43		Kareem	OK
12	CCV031	CCV031	CCV	07/03/24 17:47		Kareem	OK
13	CCB031	CCB031	CCB	07/03/24 17:52		Kareem	OK
14	P2836-08A	MYD4D3A	PS	07/03/24 17:56	PS for Cr,Se,Tl,Zn	Kareem	OK
15	P2905-09A	EZWN3A	PS	07/03/24 18:17	PS for As	Kareem	OK
16	P2906-15A	EZWQ6A	PS	07/03/24 18:22	PS for As	Kareem	OK
17	P2911-20A	EZX32A	PS	07/03/24 18:26	PS for As	Kareem	OK
18	CCV032	CCV032	CCV	07/03/24 18:31		Kareem	OK

CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: P5

Daily Analysis Runlog For Sequence/QCBatch ID # LB131513

Review By	Sarabjit Jaswal	Review On	7/4/2024 6:05:35 AM
Supervise By	Mohan Bera	Supervise On	7/4/2024 6:07:00 AM

STD. NAME	STD REF.#
ICAL Standard	MP81288,MP81294,MP81292,MP81291,MP81290,MP81289,MP81308
ICV Standard	MP81295
CCV Standard	MP81298
ICSA Standard	MP81296,MP81297
CRI Standard	
LCS Standard	
Chk Standard	MP81300,MP81301

19	CCB032	CCB032	CCB	07/03/24 18:35		Kareem	OK

ORIGIN ID:MSCA (480) 477-4900
CAROLINA GUAJARRO
WESTON SOLUTIONS
105 SOUTH ALARCO STREET
APARTMENT #6
PRESCOTT, AZ 86284
UNITED STATES US

SHIP DATE: 13JUN24
ACTWGT: 60.00 LB
CAD: 110555859/INET4730
DIMS: 25x14x15 IN

BILL SENDER

TO **SOHIL JODHANI**
ALLIANCE TECHNICAL GROUP LLC
284 SHEFFIELD ST
MOUNTAINSIDE NJ 07092
(908) 789-8900
INV:
PO:
REF: W3150.1.043.09MX.A.KOP551.0700
DEPT:

583J5/B21D/9AE3

J242024032601uv

FedEx Express

6/14/24 925 23.1C

FRI - 14 JUN 10:30A
PRIORITY OVERNIGHT

TRK# 0201 **7768 3169 7861**

NF KBCA

07092
NJ-US EWR

After printing this label:
CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH
1. Fold the printed page along the horizontal line.
2. Place label in shipping pouch and affix it to your shipment.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Login Summary Report

Order ID :	P2836	Order Date :	6/14/2024 9:25:00 AM	Project Mgr :	Deepak
Client :	USEPA CLP SMO	Project :	51495	Report Type :	USEPA CLP
Contact :	Anita Kapadia	Receive Date :	6/14/2024 9:25:00 AM	EDD Type :	EPA CLP
Date Sign Off :	6/15/2024 8:40:51 AM				

Sample ID	Client ID	Matrix	Sampling Date	Test	Test Group	Method	TAT Days	Fax Due Date	HC Due Date
P2836-01	MYD4C6	Solid	06/04/2024						
				Metals CLP Full		SFAM_AES	15	07/05/2024	07/05/2024
				Percent Solids		Chemtech -SOP	15	07/05/2024	07/05/2024
P2836-02	MYD4C7	Solid	06/04/2024						
				Metals CLP Full		SFAM_AES	15	07/05/2024	07/05/2024
				Percent Solids		Chemtech -SOP	15	07/05/2024	07/05/2024
P2836-03	MYD4C8	Solid	06/04/2024						
				Metals CLP Full		SFAM_AES	15	07/05/2024	07/05/2024
				Percent Solids		Chemtech -SOP	15	07/05/2024	07/05/2024
P2836-04	MYD4C9	Solid	06/04/2024						
				Metals CLP Full		SFAM_AES	15	07/05/2024	07/05/2024
				Percent Solids		Chemtech -SOP	15	07/05/2024	07/05/2024
P2836-05	MYD4D0	Solid	06/04/2024						
				Metals CLP Full		SFAM_AES	15	07/05/2024	07/05/2024
				Percent Solids		Chemtech -SOP	15	07/05/2024	07/05/2024
P2836-06	MYD4D1	Solid	06/04/2024						
				Metals CLP Full		SFAM_AES	15	07/05/2024	07/05/2024
				Percent Solids		Chemtech -SOP	15	07/05/2024	07/05/2024
P2836-07	MYD4D2	Solid	06/04/2024						
				Metals CLP Full		SFAM_AES	15	07/05/2024	07/05/2024
				Percent Solids		Chemtech -SOP	15	07/05/2024	07/05/2024
P2836-08	MYD4D3	Solid	06/04/2024						
				Metals CLP Full		SFAM_AES	15	07/05/2024	07/05/2024
				Percent Solids		Chemtech -SOP	15	07/05/2024	07/05/2024
P2836-09	MYD4D3D	Solid	06/04/2024						
				Metals CLP Full		SFAM_AES	15	07/05/2024	07/05/2024
				Percent Solids		Chemtech -SOP	15	07/05/2024	07/05/2024
P2836-10	MYD4D3S	Solid	06/04/2024						
				Metals CLP Full		SFAM_AES	15	07/05/2024	07/05/2024
				Percent Solids		Chemtech -SOP	15	07/05/2024	07/05/2024

P2836-11	MYD4D4	Solid	06/04/2024					
				Metals CLP Full	SFAM_AES	15	07/05/2024	07/05/2024
				Percent Solids	Chemtech -SOP	15	07/05/2024	07/05/2024
P2836-12	MYD4D5	Solid	06/04/2024					
				Metals CLP Full	SFAM_AES	15	07/05/2024	07/05/2024
				Percent Solids	Chemtech -SOP	15	07/05/2024	07/05/2024
P2836-13	MYD4D6	Solid	06/04/2024					
				Metals CLP Full	SFAM_AES	15	07/05/2024	07/05/2024
				Percent Solids	Chemtech -SOP	15	07/05/2024	07/05/2024
P2836-14	MYD4D7	Solid	06/04/2024					
				Metals CLP Full	SFAM_AES	15	07/05/2024	07/05/2024
				Percent Solids	Chemtech -SOP	15	07/05/2024	07/05/2024
P2836-15	MYD4D8	Solid	06/04/2024					
				Metals CLP Full	SFAM_AES	15	07/05/2024	07/05/2024
				Percent Solids	Chemtech -SOP	15	07/05/2024	07/05/2024
P2836-16	MYD4D9	Solid	06/04/2024					
				Metals CLP Full	SFAM_AES	15	07/05/2024	07/05/2024
				Percent Solids	Chemtech -SOP	15	07/05/2024	07/05/2024
P2836-17	MYD4E0	Solid	06/04/2024					
				Metals CLP Full	SFAM_AES	15	07/05/2024	07/05/2024
				Percent Solids	Chemtech -SOP	15	07/05/2024	07/05/2024
P2836-18	MYD4E1	Solid	06/04/2024					
				Metals CLP Full	SFAM_AES	15	07/05/2024	07/05/2024
				Percent Solids	Chemtech -SOP	15	07/05/2024	07/05/2024
P2836-19	MYD4E2	Solid	06/04/2024					
				Metals CLP Full	SFAM_AES	15	07/05/2024	07/05/2024
				Percent Solids	Chemtech -SOP	15	07/05/2024	07/05/2024
P2836-20	MYD4E3	Solid	06/04/2024					
				Metals CLP Full	SFAM_AES	15	07/05/2024	07/05/2024
				Percent Solids	Chemtech -SOP	15	07/05/2024	07/05/2024
P2836-21	MYD4E4	Solid	06/04/2024					
				Metals CLP Full	SFAM_AES	15	07/05/2024	07/05/2024
				Percent Solids	Chemtech -SOP	15	07/05/2024	07/05/2024
P2836-22	MYD4E5	Solid	06/04/2024					
				Metals CLP Full	SFAM_AES	15	07/05/2024	07/05/2024
				Percent Solids	Chemtech -SOP	15	07/05/2024	07/05/2024