SDG COVER PAGE

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

Lab Code: ACE Case No.: 51879 MA No.: SDG No.: MBHKS4

SOW No. : SFAM01.1

| EPA Sample No. | Lab Sample Id | Analysis Method ICP-AES | ICP-MS | Mercury | Cyanide |
|---|---|---|---|---|---|
| MBHKS4 | P5055-01 | X | | | |
| MBHKS5 | P5055-02 | X | | | |
| MBHKS6 | P5055-03 | X | | | |
| MBHKS7 | P5055-04 | X | | | |
| MBHKS8 | P5055-05 | X | | | |
| MBHKS9 | P5055-06 | X | | | |
| MBHKT0 | P5055-07 | X | | | |
| MBHKT1 | P5055-08 | X | | | |
| MBHKT2 | P5055-09 | X | | | |
| MBHKT3 | P5055-10 | X | | | |
| MBHKT3D | P5055-11 | X | | | |
| MBHKT3S | P5055-12 | X | | | |
| MBHKT4 | P5055-13 | X | | | |
| MBHKT5 | P5055-14 | X | | | |
| MBHKT6 | P5055-15 | X | | | |
| MBHKT7 | P5055-16 | X | | | |
| MBHKW5 | P5055-17 | X | | | |
| MBHKW6 | P5055-18 | X | | | |
| MBHKW7 | P5055-19 | X | | | |
| MBHKW8 | P5055-20 | X | | | |
| MBHKW9 | P5055-21 | X | | | |
| MBHKX0 | P5055-22 | 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 # MBHKS4

**USEPA CLP COC (LAB COPY)**
DateShipped: 12/2/2024
CarrierName: FedEx
AirbillNo: 7704 1901 2650

**CHAIN OF CUSTODY RECORD**

Case #: 51879
Cooler #: 2

**No: 2-120224-112207-0035**
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

2

| Sample Identifier | CLP Sample No. | Matrix/Sampler | Coll. Method | Analysis/Turnaround (Days) | Tag/Preservative/Bottles | Location | Collection Date/Time | For Lab Use Only |
|---|---|---|---|---|---|---|---|---|
| P176-SB-08-Z00-02 | MBHKS4 | Soil/ | | ICP-AES(35) | 4914 (Wet ice < 6 C) (1) | P176-SB-08 | 11/21/2024 10:18 | |
| P176-SB-08-Z02-06 | MBHKS5 | Soil/ | | ICP-AES(35) | 4915 (Wet ice < 6 C) (1) | P176-SB-08 | 11/21/2024 10:18 | |
| P176-SB-08-Z06-12 | MBHKS6 | Soil/ | | ICP-AES(35) | 4916 (Wet ice < 6 C) (1) | P176-SB-08 | 11/21/2024 10:18 | |
| P176-SB-08-Z12-18 | MBHKS7 | Soil/ | | ICP-AES(35) | 4917 (Wet ice < 6 C) (1) | P176-SB-08 | 11/21/2024 10:18 | |
| P176-SB-08-Z18-24 | MBHKS8 | Soil/ | | ICP-AES(35) | 4918 (Wet ice < 6 C) (1) | P176-SB-08 | 11/21/2024 10:18 | |
| P176-SB-08-Z24-30 | MBHKS9 | Soil/ | | ICP-AES(35) | 4919 (Wet ice < 6 C) (1) | P176-SB-08 | 11/21/2024 10:18 | |
| P176-SB-08-Z30-36 | MBHKT0 | Soil/ | | ICP-AES(35) | 4920 (Wet ice < 6 C) (1) | P176-SB-08 | 11/21/2024 10:18 | |
| P176-SB-03-Z00-02 | MBHKT1 | Soil/ | | ICP-AES(35) | 4879 (Wet ice < 6 C) (1) | P176-SB-03 | 11/21/2024 09:55 | |
| P176-SB-03-Z02-06 | MBHKT2 | Soil/ | | ICP-AES(35) | 4880 (Wet ice < 6 C) (1) | P176-SB-03 | 11/21/2024 09:55 | |
| P176-SB-03-Z06-12 | MBHKT3 | Soil/ | | ICP-AES(35) | 4881 (Wet ice < 6 C) (1) | P176-SB-03 | 11/21/2024 09:55 | QV |

Sample(s) to be used for Lab QC: P176-SB-03-Z06-12 Tag 4881 - Special Instructions: Samples MBHKT3 and MBHKX5 are MS/MSDs. Samples MBHKW7 and MBHKX3 have limited sample mass.

**Shipment for Case Complete? N**

**Samples Transferred From Chain of Custody #**

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

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|---|---|---|---|---|---|
| 1 Cooler | [signature] WSP | 12/02/24 1700 | [signature] | 12-3-24 0950 | 2.1°C IR Gun #1 |
| | | N/A | [signature] | 12/02/24 | custody seals intact |
| | | | | | Temp Blk. present |
| | | | | | |

68HERH20D0011

SDG # MBHKS4

**USEPA CLP COC (LAB COPY)**
DateShipped: 12/2/2024
CarrierName: FedEx
AirbillNo: 7704 1901 2650

**CHAIN OF CUSTODY RECORD**

Case #: 51879
Cooler #: 2

**No: 2-120224-112207-0035**
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

3

| Sample Identifier | CLP Sample No. | Matrix/Sampler | Coll. Method | Analysis/Turnaround (Days) | Tag/Preservative/Bottles | Location | Collection Date/Time | For Lab Use Only |
|---|---|---|---|---|---|---|---|---|
| P176-SB-03-Z12-18 | MBHKT4 | Soil/ | | ICP-AES(35) | 4882 (Wet ice < 6 C) (1) | P176-SB-03 | 11/21/2024 09:55 | |
| P176-SB-03-Z18-24 | MBHKT5 | Soil/ | | ICP-AES(35) | 4883 (Wet ice < 6 C) (1) | P176-SB-03 | 11/21/2024 09:55 | |
| P176-SB-03-Z24-30 | MBHKT6 | Soil/ | | ICP-AES(35) | 4884 (Wet ice < 6 C) (1) | P176-SB-03 | 11/21/2024 09:55 | |
| P176-SB-03-Z30-36 | MBHKT7 | Soil/ | | ICP-AES(35) | 4885 (Wet ice < 6 C) (1) | P176-SB-03 | 11/21/2024 09:55 | |
| P176-SB-07-Z00-02 | MBHKW5 | Soil/ | | ICP-AES(35) | 4907 (Wet ice < 6 C) (1) | P176-SB-07 | 11/21/2024 10:20 | |
| P176-SB-07-Z02-06 | MBHKW6 | Soil/ | | ICP-AES(35) | 4908 (Wet ice < 6 C) (1) | P176-SB-07 | 11/21/2024 10:20 | |
| P176-SB-07-Z06-12 | MBHKW7 | Soil/ | | ICP-AES(35) | 4909 (Wet ice < 6 C) (1) | P176-SB-07 | 11/21/2024 10:20 | |
| P176-SB-07-Z12-18 | MBHKW8 | Soil/ | | ICP-AES(35) | 4910 (Wet ice < 6 C) (1) | P176-SB-07 | 11/21/2024 10:20 | |
| P176-SB-07-Z18-24 | MBHKW9 | Soil/ | | ICP-AES(35) | 4911 (Wet ice < 6 C) (1) | P176-SB-07 | 11/21/2024 10:20 | |
| P176-SB-07-Z24-30 | MBHKX0 | Soil/ | | ICP-AES(35) | 4912 (Wet ice < 6 C) (1) | P176-SB-07 | 11/21/2024 10:20 | |

Special Instructions: Samples MBHKT3 and MBHKX5 are MS/MSDs. Samples MBHKW7 and MBHKX3 have limited sample mass.

**Shipment for Case Complete? N**

**Samples Transferred From Chain of Custody #**

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

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|---|---|---|---|---|---|
| 1 Cooler | WSP | 12/02/24 1700 | | 12-3-24 0932 | 2-1°C IR GUN #1 |
| | | N/A | | | custody seals intact |
| | | 12/02/24 | | | Temp BLK present |

FORM DC-1

SAMPLE LOG-IN SHEET

| | | |
|---|---|---|
| Lab Name : Alliance Technical Group, LLC | | Page 1 of 1 |
| Received By (Print Name) Gonst Nguon | | Log-in Date **12/3/2024** |
| Received By (Signature) | | |
| Case Number 51879 | SDG No. MBHKS4 | MA No. N/A |

| Remarks: | |
|---|---|
| 1. Custody Seal (s) | Present, Intact |
| 2. Custody Seal Nos. | n/a |
| 3. Traffic Reports/Chain Of Custody Records | Present |
| 4. Airbill | Present |
| 5. Airbill No. and Shipping Container ID No. | 770419012650<br>1 |
| 6. Shipping Container Temperature Indicator Bottle | Present |
| 7. Shipping Container Temperature | 2.1 Degree C |
| 8. Sample Condition | Intact |
| 9. Sample Tags Sample Tag Numbers | Absent<br>Listed on Traffic Report |
| 10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ? | Yes |
| 11. Date Received at Lab | 12/03/2024 |
| 12.Time Received | 09:50 |

| | EPA Sample # | Aqueous/ Water Sample pH | Corresponding Sample Tag # | Corresponding Assigned Lab # | Remarks: Condition of Sample Shipment, etc. |
|---|---|---|---|---|---|
| 1 | MBHKS4 | N/A | 4914 | P5055-01 | Intact |
| 2 | MBHKS5 | N/A | 4915 | P5055-02 | Intact |
| 3 | MBHKS6 | N/A | 4916 | P5055-03 | Intact |
| 4 | MBHKS7 | N/A | 4917 | P5055-04 | Intact |
| 5 | MBHKS8 | N/A | 4918 | P5055-05 | Intact |
| 6 | MBHKS9 | N/A | 4919 | P5055-06 | Intact |
| 7 | MBHKT0 | N/A | 4920 | P5055-07 | Intact |
| 8 | MBHKT1 | N/A | 4879 | P5055-08 | Intact |
| 9 | MBHKT2 | N/A | 4880 | P5055-09 | Intact |
| 10 | MBHKT3 | N/A | 4881 | P5055-10 | Intact |
| 11 | MBHKT3D | N/A | 4881 | P5055-11 | Intact |
| 12 | MBHKT3S | N/A | 4881 | P5055-12 | Intact |
| 13 | MBHKT4 | N/A | 4882 | P5055-13 | Intact |
| 14 | MBHKT5 | N/A | 4883 | P5055-14 | Intact |
| 15 | MBHKT6 | N/A | 4884 | P5055-15 | Intact |
| 16 | MBHKT7 | N/A | 4885 | P5055-16 | Intact |
| 17 | MBHKW5 | N/A | 4907 | P5055-17 | Intact |
| 18 | MBHKW6 | N/A | 4908 | P5055-18 | Intact |
| 19 | MBHKW7 | N/A | 4909 | P5055-19 | Intact |
| 20 | MBHKW8 | N/A | 4910 | P5055-20 | Intact |
| 21 | MBHKW9 | N/A | 4911 | P5055-21 | Intact |
| 22 | MBHKX0 | N/A | 4912 | P5055-22 | 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 | 12/3/24 | Logbook Page No. | N/A |

FORM DC-2
COMPLETE SDG FILE (CSF) INVENTORY SHEET

| | | | |
|---|---|---|---|
| LAB NAME | **Alliance Technical Group, LLC** | | |
| LAB CODE | **ACE** | | |
| CONTRACT NO. | **68HERH20D0011** | | |
| CASE NO. | **51879** | SDG NO. | **MBHKS4** |
| MA NO. | | SOW NO. | **SFAM01.1** |

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

| | PAGE NOs: FROM | PAGE NOs: TO | CHECK LAB | CHECK REGION |
|---|---|---|---|---|
| 1. SDG Cover Page | 1 | 1 | ✓ | |
| 2. Traffic Report/Chain of Custody Record(s) | 2 | 3 | ✓ | |
| 3. Sample Log-In Sheet (DC-1) | 4 | 4 | ✓ | |
| 4. CSF Inventory Sheet (DC-2) | 5 | 7 | ✓ | |
| 5. SDG Narrative | 8 | 10 | ✓ | |
| 6. Communication Logs | NA | NA | ✓ | |
| 7. Percent Solids Log | 11 | 13 | ✓ | |
| **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 | 14 | 33 | ✓ | |
| 9. Instrument raw data by instrument in analysis order | 34 | 824 | ✓ | |
| **Other Data** | | | | |
| 10. Standard and Reagent Preparation Logs | 825 | 963 | ✓ | |
| 11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks | 964 | 965 | ✓ | |
| 12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks | 966 | 1000 | ✓ | |
| 13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions | NA | NA | ✓ | |
| 14. Extraction Logs for TCLP and SPLP | NA | NA | ✓ | |
| 15. Raw GPC Data | NA | NA | ✓ | |
| 16. Raw Florisil Data | NA | NA | ✓ | |
| **Analysis Forms and Data (ICP-MS)** | | | | |
| 17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable | NA | NA | ✓ | |
| 18. Instrument raw data by instrument in analysis order | NA | NA | ✓ | |
| **Other Data** | | | | |
| 19. Standard and Reagent Preparation Logs | NA | NA | ✓ | |
| 20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks | NA | NA | ✓ | |
| 21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks | NA | NA | ✓ | |
| 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions | NA | NA | ✓ | |

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

| | PAGE NOs: FROM | TO | CHECK LAB | REGION |
|---|---|---|---|---|
| **Additional** | | | | |
| 44. EPA Shipping/Receiving Documents | | | | |
| Airbill (No. of Shipments 1 ) | 1001 | 1001 | ✓ | |
| Sample Tags | NA | NA | ✓ | |
| Sample Log-In Sheet (Lab) | 1002 | 1003 | ✓ | |
| 45. Misc. Shipping/Receiving Records (list all individual records) | | | | |
| | NA | NA | ✓ | |
| | | | | |
| | | | | |
| 46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list) | | | | |
| | 1004 | 1005 | ✓ | |
| | | | | |
| 47. Other Records and related Communication Logs (describe or list) | | | | |
| | NA | NA | ✓ | |
| | | | | |
| | | | | |

48. Comments:

Completed by:
(CLP Lab)

| (Signature) | Nimisha Pandya, Document Control Officer (Print Name & Title) | (Date) |
|---|---|---|

Audited by:
(EPA)

| (Signature) | (Print Name & Title) | (Date) |
|---|---|---|

**284 Sheffield Street**
**Mountainside, NJ 07092**

**SDG NARRATIVE**

**USEPA**
**SDG # MBHKS4**
**CASE # 51879**
**CONTRACT # 68HERH20D0011**
**SOW# SFAM01.1**
**LAB NAME: Alliance Technical Group, LLC**
**LAB CODE: ACE**
**LAB ORDER ID # P5055**

**A. Number of Samples and Date of Receipt**

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

**B. Parameters**

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

**C. Cooler Temp**

Indicator Bottle**: Presence/**Absence

Cooler: 2.1$^{o}$C

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

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

**E. Corrective Action taken for above:**

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

**F. Analytical Techniques:**

All analyses were based on CLP Methodology by method SFAM01.1.

Inter Element correction factors (IECs) are determined annually and correction factor are applied during ICP-AES analysis.

**G. Calculation:**

**Calculation for ICP-AES Soil Sample:**

Conversion of Results from mg/L or ppm to mg/kg (Dry Weight Basis):

$$\text{Concentration (mg/kg)} = C \times \frac{Vf}{W \times S} \times DF$$

Where,

C = Instrument value in ppm (The average of all replicate exposures)
Vf = Final digestion volume (mL)
W = Initial aliquot amount (g) (Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

**Example Calculation For Sample MBHKS4 For Antimony:**

If C = 0.0248182 ppm
Vf = 100 ml
W = 1.45 g
S = 0.772(77.2/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.0248182 \times \frac{100}{1.45 \times 0.772} \times 1$$

$$= 2.2171 \text{ mg/kg}$$

= 2.2 mg/kg (Reported Result with Signification

**H. QA/ QC**

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

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

**284 Sheffield Street**
**Mountainside, NJ 07092**

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

Signature_____ Name: Nimisha Pandya

Date _____ Title: Document Control Officer

# PERCENT SOLID

**Supervisor:** rubina
**Analyst:** jignesh
**Date:** 12/4/2024

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 15:40
**In Date:** 12/03/2024
**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:** 12/04/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLID- OVEN

**QC:** LB133709

| 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 |
|---|---|---|---|---|---|---|---|---|
| P5055-01 | MBHKS4 | 1 | 1.15 | 8.81 | 9.96 | 7.95 | 77.2 | |
| P5055-02 | MBHKS5 | 2 | 1.12 | 8.69 | 9.81 | 7.94 | 78.5 | |
| P5055-03 | MBHKS6 | 3 | 1.19 | 8.71 | 9.9 | 8.42 | 83.0 | |
| P5055-04 | MBHKS7 | 4 | 1.16 | 8.46 | 9.62 | 8.69 | 89.0 | |
| P5055-05 | MBHKS8 | 5 | 1.14 | 8.40 | 9.54 | 8.8 | 91.2 | |
| P5055-06 | MBHKS9 | 6 | 1.15 | 8.40 | 9.55 | 8.71 | 90.0 | |
| P5055-07 | MBHKT0 | 7 | 1.15 | 8.81 | 9.96 | 9.08 | 90.0 | |
| P5055-08 | MBHKT1 | 8 | 1.15 | 8.38 | 9.53 | 8.17 | 83.8 | |
| P5055-09 | MBHKT2 | 9 | 1.15 | 8.65 | 9.8 | 8.89 | 89.5 | |
| P5055-10 | MBHKT3 | 10 | 1.15 | 8.81 | 9.96 | 8.26 | 80.7 | |
| P5055-11 | MBHKT3D | 11 | 1.15 | 8.81 | 9.96 | 8.26 | 80.7 | |
| P5055-12 | MBHKT3S | 12 | 1.15 | 8.81 | 9.96 | 8.26 | 80.7 | |
| P5055-13 | MBHKT4 | 13 | 1.18 | 8.40 | 9.58 | 8.7 | 89.5 | |
| P5055-14 | MBHKT5 | 14 | 1.12 | 8.74 | 9.86 | 9.05 | 90.7 | |
| P5055-15 | MBHKT6 | 15 | 1.18 | 8.53 | 9.71 | 8.61 | 87.1 | |
| P5055-16 | MBHKT7 | 16 | 1.16 | 8.80 | 9.96 | 8.78 | 86.6 | |
| P5055-17 | MBHKW5 | 17 | 1.15 | 8.63 | 9.78 | 7.41 | 72.5 | |
| P5055-18 | MBHKW6 | 18 | 1.15 | 8.37 | 9.52 | 7.78 | 79.2 | |
| P5055-19 | MBHKW7 | 19 | 1.15 | 8.40 | 9.55 | 8.41 | 86.4 | |
| P5055-20 | MBHKW8 | 20 | 1.13 | 8.81 | 9.94 | 8.86 | 87.7 | |
| P5055-21 | MBHKW9 | 21 | 1.15 | 8.44 | 9.59 | 8.79 | 90.5 | |
| P5055-22 | MBHKX0 | 22 | 1.16 | 8.48 | 9.64 | 8.76 | 89.6 | |

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

# WORKLIST(Hardcopy Internal Chain)

VM133709

**WorkList Name :** %1-p5055 **WorkList ID :** 185931 **Department :** Wet-Chemistry **Date :** 12-03-2024 14:46:18

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P5055-01 | MBHKS4 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | Chemtech -SO |
| P5055-02 | MBHKS5 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | Chemtech -SO |
| P5055-03 | MBHKS6 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | Chemtech -SO |
| P5055-04 | MBHKS7 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | Chemtech -SO |
| P5055-05 | MBHKS8 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | Chemtech -SO |
| P5055-06 | MBHKS9 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | Chemtech -SO |
| P5055-07 | MBHKT0 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | Chemtech -SO |
| P5055-08 | MBHKT1 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | Chemtech -SO |
| P5055-09 | MBHKT2 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | Chemtech -SO |
| P5055-10 | MBHKT3 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | Chemtech -SO |
| P5055-11 | MBHKT3D | Solid | Percent Solids | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | Chemtech -SO |
| P5055-12 | MBHKT3S | Solid | Percent Solids | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | Chemtech -SO |
| P5055-13 | MBHKT4 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | Chemtech -SO |
| P5055-14 | MBHKT5 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | Chemtech -SO |
| P5055-15 | MBHKT6 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | Chemtech -SO |
| P5055-16 | MBHKT7 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | Chemtech -SO |
| P5055-17 | MBHKW5 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | Chemtech -SO |
| P5055-18 | MBHKW6 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | Chemtech -SO |
| P5055-19 | MBHKW7 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | Chemtech -SO |
| P5055-20 | MBHKW8 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | Chemtech -SO |
| P5055-21 | MBHKW9 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | Chemtech -SO |

12

**Date/Time** 12/03/24 15:10

**Raw Sample Received by:** JB MWC

**Raw Sample Relinquished by:** CR

**Date/Time** 12/03/24 15:45

**Raw Sample Received by:** CR

**Raw Sample Relinquished by:** JB MWC

# WORKLIST(Hardcopy Internal Chain)

VB133709

**WorkList Name :** %1-p5055 **WorkList ID :** 185931 **Department :** Wet-Chemistry **Date :** 12-03-2024 14:46:18

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P5055-22 | MBHKX0 | Solid | Percent Solids | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | Chemtech -SO |

13

**Date/Time** 12/03/24 15:10
**Raw Sample Received by:** [signature]
**Raw Sample Relinquished by:** [signature]

**Date/Time** 12/03/24 15:45
**Raw Sample Received by:** [signature]
**Raw Sample Relinquished by:** [signature]

EPA SAMPLE NO.

MBHKS4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHKS4

Matrix: SOIL Lab Sample ID: P5055-01

% Solids: 77.2 Date Received: 12/03/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 5600 | | 12/17/2024 | 2334 |
| 7440-36-0 | Antimony | 2.2 | J* | 12/17/2024 | 2334 |
| 7440-38-2 | Arsenic | 7.4 | | 12/17/2024 | 2334 |
| 7440-39-3 | Barium | 110 | | 12/17/2024 | 2334 |
| 7440-41-7 | Beryllium | 0.72 | | 12/17/2024 | 2334 |
| 7440-43-9 | Cadmium | 0.66 | | 12/17/2024 | 2334 |
| 7440-70-2 | Calcium | 12000 | | 12/17/2024 | 2334 |
| 7440-47-3 | Chromium | 11 | * | 12/17/2024 | 2334 |
| 7440-48-4 | Cobalt | 9.1 | * | 12/17/2024 | 2334 |
| 7440-50-8 | Copper | 25 | | 12/17/2024 | 2334 |
| 7439-89-6 | Iron | 14000 | * | 12/17/2024 | 2334 |
| 7439-92-1 | Lead | 110 | | 12/17/2024 | 2334 |
| 7439-95-4 | Magnesium | 3700 | | 12/17/2024 | 2334 |
| 7439-96-5 | Manganese | 390 | * | 12/17/2024 | 2334 |
| 7440-02-0 | Nickel | 16 | | 12/17/2024 | 2334 |
| 7440-09-7 | Potassium | 890 | | 12/17/2024 | 2334 |
| 7782-49-2 | Selenium | 4.6 | * | 12/17/2024 | 2334 |
| 7440-22-4 | Silver | 0.41 | J* | 12/17/2024 | 2334 |
| 7440-23-5 | Sodium | 450 | U | 12/17/2024 | 2334 |
| 7440-28-0 | Thallium | 2.2 | U* | 12/17/2024 | 2334 |
| 7440-62-2 | Vanadium | 16 | | 12/17/2024 | 2334 |
| 7440-66-6 | Zinc | 160 | * | 12/17/2024 | 2334 |

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

Comments:

EPA SAMPLE NO.

MBHKS5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHKS4

Matrix: SOIL Lab Sample ID: P5055-02

% Solids: 78.5 Date Received: 12/03/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 5800 | | 12/17/2024 | 2345 |
| 7440-36-0 | Antimony | 2.4 | J* | 12/17/2024 | 2345 |
| 7440-38-2 | Arsenic | 7.9 | | 12/17/2024 | 2345 |
| 7440-39-3 | Barium | 110 | | 12/17/2024 | 2345 |
| 7440-41-7 | Beryllium | 0.79 | | 12/17/2024 | 2345 |
| 7440-43-9 | Cadmium | 0.97 | | 12/17/2024 | 2345 |
| 7440-70-2 | Calcium | 24000 | | 12/17/2024 | 2345 |
| 7440-47-3 | Chromium | 12 | * | 12/17/2024 | 2345 |
| 7440-48-4 | Cobalt | 10 | * | 12/17/2024 | 2345 |
| 7440-50-8 | Copper | 29 | | 12/17/2024 | 2345 |
| 7439-89-6 | Iron | 15000 | * | 12/17/2024 | 2345 |
| 7439-92-1 | Lead | 120 | | 12/17/2024 | 2345 |
| 7439-95-4 | Magnesium | 3300 | | 12/17/2024 | 2345 |
| 7439-96-5 | Manganese | 420 | * | 12/17/2024 | 2345 |
| 7440-02-0 | Nickel | 17 | | 12/17/2024 | 2345 |
| 7440-09-7 | Potassium | 850 | | 12/17/2024 | 2345 |
| 7782-49-2 | Selenium | 4.4 | * | 12/17/2024 | 2345 |
| 7440-22-4 | Silver | 0.39 | J* | 12/17/2024 | 2345 |
| 7440-23-5 | Sodium | 520 | U | 12/17/2024 | 2345 |
| 7440-28-0 | Thallium | 2.6 | U* | 12/17/2024 | 2345 |
| 7440-62-2 | Vanadium | 17 | | 12/17/2024 | 2345 |
| 7440-66-6 | Zinc | 180 | * | 12/17/2024 | 2345 |

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

Comments:

EPA SAMPLE NO.

MBHKS6

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHKS4

Matrix: SOIL Lab Sample ID: P5055-03

% Solids: 83 Date Received: 12/03/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 5900 | | 12/17/2024 | 2349 |
| 7440-36-0 | Antimony | 2.4 | J* | 12/17/2024 | 2349 |
| 7440-38-2 | Arsenic | 8.0 | | 12/17/2024 | 2349 |
| 7440-39-3 | Barium | 110 | | 12/17/2024 | 2349 |
| 7440-41-7 | Beryllium | 0.74 | | 12/17/2024 | 2349 |
| 7440-43-9 | Cadmium | 0.71 | | 12/17/2024 | 2349 |
| 7440-70-2 | Calcium | 10000 | | 12/17/2024 | 2349 |
| 7440-47-3 | Chromium | 10 | * | 12/17/2024 | 2349 |
| 7440-48-4 | Cobalt | 9.3 | * | 12/17/2024 | 2349 |
| 7440-50-8 | Copper | 24 | | 12/17/2024 | 2349 |
| 7439-89-6 | Iron | 14000 | * | 12/17/2024 | 2349 |
| 7439-92-1 | Lead | 100 | | 12/17/2024 | 2349 |
| 7439-95-4 | Magnesium | 3500 | | 12/17/2024 | 2349 |
| 7439-96-5 | Manganese | 380 | * | 12/17/2024 | 2349 |
| 7440-02-0 | Nickel | 15 | | 12/17/2024 | 2349 |
| 7440-09-7 | Potassium | 670 | | 12/17/2024 | 2349 |
| 7782-49-2 | Selenium | 4.9 | * | 12/17/2024 | 2349 |
| 7440-22-4 | Silver | 0.39 | J* | 12/17/2024 | 2349 |
| 7440-23-5 | Sodium | 490 | U | 12/17/2024 | 2349 |
| 7440-28-0 | Thallium | 2.5 | U* | 12/17/2024 | 2349 |
| 7440-62-2 | Vanadium | 16 | | 12/17/2024 | 2349 |
| 7440-66-6 | Zinc | 150 | * | 12/17/2024 | 2349 |

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

Comments:

EPA SAMPLE NO.

MBHKS7

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHKS4

Matrix: SOIL Lab Sample ID: P5055-04

% Solids: 89 Date Received: 12/03/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 4800 | | 12/17/2024 | 2353 |
| 7440-36-0 | Antimony | 1.8 | J* | 12/17/2024 | 2353 |
| 7440-38-2 | Arsenic | 6.1 | | 12/17/2024 | 2353 |
| 7440-39-3 | Barium | 69 | | 12/17/2024 | 2353 |
| 7440-41-7 | Beryllium | 0.58 | | 12/17/2024 | 2353 |
| 7440-43-9 | Cadmium | 0.35 | J | 12/17/2024 | 2353 |
| 7440-70-2 | Calcium | 6500 | | 12/17/2024 | 2353 |
| 7440-47-3 | Chromium | 8.3 | * | 12/17/2024 | 2353 |
| 7440-48-4 | Cobalt | 7.1 | * | 12/17/2024 | 2353 |
| 7440-50-8 | Copper | 14 | | 12/17/2024 | 2353 |
| 7439-89-6 | Iron | 12000 | * | 12/17/2024 | 2353 |
| 7439-92-1 | Lead | 40 | | 12/17/2024 | 2353 |
| 7439-95-4 | Magnesium | 2700 | | 12/17/2024 | 2353 |
| 7439-96-5 | Manganese | 250 | * | 12/17/2024 | 2353 |
| 7440-02-0 | Nickel | 10 | | 12/17/2024 | 2353 |
| 7440-09-7 | Potassium | 290 | J | 12/17/2024 | 2353 |
| 7782-49-2 | Selenium | 4.1 | * | 12/17/2024 | 2353 |
| 7440-22-4 | Silver | 0.30 | J* | 12/17/2024 | 2353 |
| 7440-23-5 | Sodium | 420 | U | 12/17/2024 | 2353 |
| 7440-28-0 | Thallium | 2.1 | U* | 12/17/2024 | 2353 |
| 7440-62-2 | Vanadium | 14 | | 12/17/2024 | 2353 |
| 7440-66-6 | Zinc | 61 | * | 12/17/2024 | 2353 |

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

Comments:

EPA SAMPLE NO.

MBHKS8

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHKS4

Matrix: SOIL Lab Sample ID: P5055-05

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

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 4500 | | 12/17/2024 | 2357 |
| 7440-36-0 | Antimony | 2.8 | J* | 12/17/2024 | 2357 |
| 7440-38-2 | Arsenic | 6.4 | | 12/17/2024 | 2357 |
| 7440-39-3 | Barium | 64 | | 12/17/2024 | 2357 |
| 7440-41-7 | Beryllium | 0.63 | | 12/17/2024 | 2357 |
| 7440-43-9 | Cadmium | 0.37 | J | 12/17/2024 | 2357 |
| 7440-70-2 | Calcium | 19000 | | 12/17/2024 | 2357 |
| 7440-47-3 | Chromium | 7.2 | * | 12/17/2024 | 2357 |
| 7440-48-4 | Cobalt | 9.3 | * | 12/17/2024 | 2357 |
| 7440-50-8 | Copper | 15 | | 12/17/2024 | 2357 |
| 7439-89-6 | Iron | 18000 | * | 12/17/2024 | 2357 |
| 7439-92-1 | Lead | 12 | | 12/17/2024 | 2357 |
| 7439-95-4 | Magnesium | 6800 | | 12/17/2024 | 2357 |
| 7439-96-5 | Manganese | 630 | * | 12/17/2024 | 2357 |
| 7440-02-0 | Nickel | 13 | | 12/17/2024 | 2357 |
| 7440-09-7 | Potassium | 240 | J | 12/17/2024 | 2357 |
| 7782-49-2 | Selenium | 5.8 | * | 12/17/2024 | 2357 |
| 7440-22-4 | Silver | 0.42 | J* | 12/17/2024 | 2357 |
| 7440-23-5 | Sodium | 390 | U | 12/17/2024 | 2357 |
| 7440-28-0 | Thallium | 2.0 | U* | 12/17/2024 | 2357 |
| 7440-62-2 | Vanadium | 15 | | 12/17/2024 | 2357 |
| 7440-66-6 | Zinc | 26 | * | 12/17/2024 | 2357 |

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

Comments:

EPA SAMPLE NO.

MBHKS9

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHKS4

Matrix: SOIL Lab Sample ID: P5055-06

% Solids: 90 Date Received: 12/03/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 4200 | | 12/18/2024 | 0001 |
| 7440-36-0 | Antimony | 1.8 | J* | 12/18/2024 | 0001 |
| 7440-38-2 | Arsenic | 5.7 | | 12/18/2024 | 0001 |
| 7440-39-3 | Barium | 45 | | 12/18/2024 | 0001 |
| 7440-41-7 | Beryllium | 0.60 | | 12/18/2024 | 0001 |
| 7440-43-9 | Cadmium | 0.34 | J | 12/18/2024 | 0001 |
| 7440-70-2 | Calcium | 61000 | | 12/18/2024 | 0001 |
| 7440-47-3 | Chromium | 6.3 | * | 12/18/2024 | 0001 |
| 7440-48-4 | Cobalt | 9.1 | * | 12/18/2024 | 0001 |
| 7440-50-8 | Copper | 19 | | 12/18/2024 | 0001 |
| 7439-89-6 | Iron | 15000 | * | 12/18/2024 | 0001 |
| 7439-92-1 | Lead | 16 | | 12/18/2024 | 0001 |
| 7439-95-4 | Magnesium | 15000 | | 12/18/2024 | 0001 |
| 7439-96-5 | Manganese | 380 | * | 12/18/2024 | 0001 |
| 7440-02-0 | Nickel | 12 | | 12/18/2024 | 0001 |
| 7440-09-7 | Potassium | 260 | J | 12/18/2024 | 0001 |
| 7782-49-2 | Selenium | 3.4 | * | 12/18/2024 | 0001 |
| 7440-22-4 | Silver | 0.35 | J* | 12/18/2024 | 0001 |
| 7440-23-5 | Sodium | 380 | U | 12/18/2024 | 0001 |
| 7440-28-0 | Thallium | 1.9 | U* | 12/18/2024 | 0001 |
| 7440-62-2 | Vanadium | 14 | | 12/18/2024 | 0001 |
| 7440-66-6 | Zinc | 35 | * | 12/18/2024 | 0001 |

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

Comments:

EPA SAMPLE NO.

MBHKT0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHKS4

Matrix: SOIL Lab Sample ID: P5055-07

% Solids: 90 Date Received: 12/03/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 3600 | | 12/18/2024 | 0004 |
| 7440-36-0 | Antimony | 1.5 | J* | 12/18/2024 | 0004 |
| 7440-38-2 | Arsenic | 5.5 | | 12/18/2024 | 0004 |
| 7440-39-3 | Barium | 31 | | 12/18/2024 | 0004 |
| 7440-41-7 | Beryllium | 0.53 | | 12/18/2024 | 0004 |
| 7440-43-9 | Cadmium | 0.29 | J | 12/18/2024 | 0004 |
| 7440-70-2 | Calcium | 89000 | D | 01/03/2025 | 2240 |
| 7440-47-3 | Chromium | 6.3 | * | 12/18/2024 | 0004 |
| 7440-48-4 | Cobalt | 9.4 | * | 12/18/2024 | 0004 |
| 7440-50-8 | Copper | 19 | | 12/18/2024 | 0004 |
| 7439-89-6 | Iron | 14000 | * | 12/18/2024 | 0004 |
| 7439-92-1 | Lead | 12 | | 12/18/2024 | 0004 |
| 7439-95-4 | Magnesium | 17000 | | 12/18/2024 | 0004 |
| 7439-96-5 | Manganese | 570 | * | 12/18/2024 | 0004 |
| 7440-02-0 | Nickel | 11 | | 12/18/2024 | 0004 |
| 7440-09-7 | Potassium | 290 | J | 12/18/2024 | 0004 |
| 7782-49-2 | Selenium | 2.7 | J* | 12/18/2024 | 0004 |
| 7440-22-4 | Silver | 0.20 | J* | 12/18/2024 | 0004 |
| 7440-23-5 | Sodium | 410 | U | 12/18/2024 | 0004 |
| 7440-28-0 | Thallium | 2.0 | U* | 12/18/2024 | 0004 |
| 7440-62-2 | Vanadium | 14 | | 12/18/2024 | 0004 |
| 7440-66-6 | Zinc | 49 | * | 12/18/2024 | 0004 |

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

Comments:

EPA SAMPLE NO.

MBHKT1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHKS4

Matrix: SOIL Lab Sample ID: P5055-08

% Solids: 83.8 Date Received: 12/03/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 2400 | | 12/18/2024 | 0008 |
| 7440-36-0 | Antimony | 0.44 | J* | 12/18/2024 | 0008 |
| 7440-38-2 | Arsenic | 4.5 | | 12/18/2024 | 0008 |
| 7440-39-3 | Barium | 42 | | 12/18/2024 | 0008 |
| 7440-41-7 | Beryllium | 0.36 | J | 12/18/2024 | 0008 |
| 7440-43-9 | Cadmium | 0.46 | | 12/18/2024 | 0008 |
| 7440-70-2 | Calcium | 120000 | D | 01/03/2025 | 2243 |
| 7440-47-3 | Chromium | 5.9 | * | 12/18/2024 | 0008 |
| 7440-48-4 | Cobalt | 8.9 | * | 12/18/2024 | 0008 |
| 7440-50-8 | Copper | 11 | | 12/18/2024 | 0008 |
| 7439-89-6 | Iron | 9100 | * | 12/18/2024 | 0008 |
| 7439-92-1 | Lead | 53 | | 12/18/2024 | 0008 |
| 7439-95-4 | Magnesium | 64000 | | 12/18/2024 | 0008 |
| 7439-96-5 | Manganese | 600 | * | 12/18/2024 | 0008 |
| 7440-02-0 | Nickel | 9.0 | | 12/18/2024 | 0008 |
| 7440-09-7 | Potassium | 540 | | 12/18/2024 | 0008 |
| 7782-49-2 | Selenium | 3.0 | U* | 12/18/2024 | 0008 |
| 7440-22-4 | Silver | 0.28 | J* | 12/18/2024 | 0008 |
| 7440-23-5 | Sodium | 430 | U | 12/18/2024 | 0008 |
| 7440-28-0 | Thallium | 1.7 | J* | 12/18/2024 | 0008 |
| 7440-62-2 | Vanadium | 7.2 | | 12/18/2024 | 0008 |
| 7440-66-6 | Zinc | 91 | * | 12/18/2024 | 0008 |

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

Comments:

EPA SAMPLE NO.

MBHKT2

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHKS4

Matrix: SOIL Lab Sample ID: P5055-09

% Solids: 89.5 Date Received: 12/03/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 2300 | | 12/18/2024 | 0012 |
| 7440-36-0 | Antimony | 5.9 | U* | 12/18/2024 | 0012 |
| 7440-38-2 | Arsenic | 5.6 | | 12/18/2024 | 0012 |
| 7440-39-3 | Barium | 34 | | 12/18/2024 | 0012 |
| 7440-41-7 | Beryllium | 0.37 | J | 12/18/2024 | 0012 |
| 7440-43-9 | Cadmium | 0.34 | J | 12/18/2024 | 0012 |
| 7440-70-2 | Calcium | 140000 | D | 01/03/2025 | 2247 |
| 7440-47-3 | Chromium | 5.0 | * | 12/18/2024 | 0012 |
| 7440-48-4 | Cobalt | 9.2 | * | 12/18/2024 | 0012 |
| 7440-50-8 | Copper | 11 | | 12/18/2024 | 0012 |
| 7439-89-6 | Iron | 10000 | * | 12/18/2024 | 0012 |
| 7439-92-1 | Lead | 49 | | 12/18/2024 | 0012 |
| 7439-95-4 | Magnesium | 71000 | | 12/18/2024 | 0012 |
| 7439-96-5 | Manganese | 620 | * | 12/18/2024 | 0012 |
| 7440-02-0 | Nickel | 8.8 | | 12/18/2024 | 0012 |
| 7440-09-7 | Potassium | 460 | J | 12/18/2024 | 0012 |
| 7782-49-2 | Selenium | 3.5 | U* | 12/18/2024 | 0012 |
| 7440-22-4 | Silver | 0.30 | J* | 12/18/2024 | 0012 |
| 7440-23-5 | Sodium | 490 | U | 12/18/2024 | 0012 |
| 7440-28-0 | Thallium | 1.9 | J* | 12/18/2024 | 0012 |
| 7440-62-2 | Vanadium | 7.4 | | 12/18/2024 | 0012 |
| 7440-66-6 | Zinc | 80 | * | 12/18/2024 | 0012 |

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

Comments:

EPA SAMPLE NO.

MBHKT3

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHKS4

Matrix: SOIL Lab Sample ID: P5055-10

% Solids: 80.7 Date Received: 12/03/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 6500 | | 12/18/2024 | 0016 |
| 7440-36-0 | Antimony | 2.5 | J* | 12/18/2024 | 0016 |
| 7440-38-2 | Arsenic | 13 | | 12/18/2024 | 0016 |
| 7440-39-3 | Barium | 140 | | 12/18/2024 | 0016 |
| 7440-41-7 | Beryllium | 0.76 | | 12/18/2024 | 0016 |
| 7440-43-9 | Cadmium | 0.61 | | 12/18/2024 | 0016 |
| 7440-70-2 | Calcium | 12000 | | 12/18/2024 | 0016 |
| 7440-47-3 | Chromium | 11 | * | 12/18/2024 | 0016 |
| 7440-48-4 | Cobalt | 12 | * | 12/18/2024 | 0016 |
| 7440-50-8 | Copper | 20 | | 12/18/2024 | 0016 |
| 7439-89-6 | Iron | 16000 | * | 12/18/2024 | 0016 |
| 7439-92-1 | Lead | 97 | | 12/18/2024 | 0016 |
| 7439-95-4 | Magnesium | 4500 | | 12/18/2024 | 0016 |
| 7439-96-5 | Manganese | 990 | * | 12/18/2024 | 0016 |
| 7440-02-0 | Nickel | 15 | | 12/18/2024 | 0016 |
| 7440-09-7 | Potassium | 750 | | 12/18/2024 | 0016 |
| 7782-49-2 | Selenium | 5.5 | * | 12/18/2024 | 0016 |
| 7440-22-4 | Silver | 0.61 | J* | 12/18/2024 | 0016 |
| 7440-23-5 | Sodium | 510 | U | 12/18/2024 | 0016 |
| 7440-28-0 | Thallium | 2.6 | U* | 12/18/2024 | 0016 |
| 7440-62-2 | Vanadium | 18 | | 12/18/2024 | 0016 |
| 7440-66-6 | Zinc | 90 | * | 12/18/2024 | 0016 |

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

Comments:

EPA SAMPLE NO.

MBHKT4

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHKS4

Matrix: SOIL Lab Sample ID: P5055-13

% Solids: 89.5 Date Received: 12/03/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 3300 | | 12/18/2024 | 0031 |
| 7440-36-0 | Antimony | 0.63 | J* | 12/18/2024 | 0031 |
| 7440-38-2 | Arsenic | 5.8 | | 12/18/2024 | 0031 |
| 7440-39-3 | Barium | 63 | | 12/18/2024 | 0031 |
| 7440-41-7 | Beryllium | 0.42 | J | 12/18/2024 | 0031 |
| 7440-43-9 | Cadmium | 0.32 | J | 12/18/2024 | 0031 |
| 7440-70-2 | Calcium | 60000 | | 12/18/2024 | 0031 |
| 7440-47-3 | Chromium | 6.0 | * | 12/18/2024 | 0031 |
| 7440-48-4 | Cobalt | 9.2 | * | 12/18/2024 | 0031 |
| 7440-50-8 | Copper | 7.6 | | 12/18/2024 | 0031 |
| 7439-89-6 | Iron | 10000 | * | 12/18/2024 | 0031 |
| 7439-92-1 | Lead | 28 | | 12/18/2024 | 0031 |
| 7439-95-4 | Magnesium | 19000 | | 12/18/2024 | 0031 |
| 7439-96-5 | Manganese | 700 | * | 12/18/2024 | 0031 |
| 7440-02-0 | Nickel | 8.9 | | 12/18/2024 | 0031 |
| 7440-09-7 | Potassium | 260 | J | 12/18/2024 | 0031 |
| 7782-49-2 | Selenium | 1.5 | J* | 12/18/2024 | 0031 |
| 7440-22-4 | Silver | 0.35 | J* | 12/18/2024 | 0031 |
| 7440-23-5 | Sodium | 440 | U | 12/18/2024 | 0031 |
| 7440-28-0 | Thallium | 1.5 | J* | 12/18/2024 | 0031 |
| 7440-62-2 | Vanadium | 11 | | 12/18/2024 | 0031 |
| 7440-66-6 | Zinc | 34 | * | 12/18/2024 | 0031 |

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

Comments:

EPA SAMPLE NO.

MBHKT5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHKS4

Matrix: SOIL Lab Sample ID: P5055-14

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

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 3600 | | 12/18/2024 | 0035 |
| 7440-36-0 | Antimony | 1.2 | J* | 12/18/2024 | 0035 |
| 7440-38-2 | Arsenic | 4.1 | | 12/18/2024 | 0035 |
| 7440-39-3 | Barium | 42 | | 12/18/2024 | 0035 |
| 7440-41-7 | Beryllium | 0.48 | | 12/18/2024 | 0035 |
| 7440-43-9 | Cadmium | 0.30 | J | 12/18/2024 | 0035 |
| 7440-70-2 | Calcium | 91000 | D | 01/03/2025 | 2251 |
| 7440-47-3 | Chromium | 6.5 | * | 12/18/2024 | 0035 |
| 7440-48-4 | Cobalt | 10 | * | 12/18/2024 | 0035 |
| 7440-50-8 | Copper | 13 | | 12/18/2024 | 0035 |
| 7439-89-6 | Iron | 13000 | * | 12/18/2024 | 0035 |
| 7439-92-1 | Lead | 19 | | 12/18/2024 | 0035 |
| 7439-95-4 | Magnesium | 17000 | | 12/18/2024 | 0035 |
| 7439-96-5 | Manganese | 670 | * | 12/18/2024 | 0035 |
| 7440-02-0 | Nickel | 12 | | 12/18/2024 | 0035 |
| 7440-09-7 | Potassium | 540 | | 12/18/2024 | 0035 |
| 7782-49-2 | Selenium | 2.3 | J* | 12/18/2024 | 0035 |
| 7440-22-4 | Silver | 0.31 | J* | 12/18/2024 | 0035 |
| 7440-23-5 | Sodium | 410 | U | 12/18/2024 | 0035 |
| 7440-28-0 | Thallium | 2.0 | U* | 12/18/2024 | 0035 |
| 7440-62-2 | Vanadium | 15 | | 12/18/2024 | 0035 |
| 7440-66-6 | Zinc | 53 | * | 12/18/2024 | 0035 |

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

Comments:

EPA SAMPLE NO.

MBHKT6

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHKS4

Matrix: SOIL Lab Sample ID: P5055-15

% Solids: 87.1 Date Received: 12/03/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 3000 | | 12/18/2024 | 0039 |
| 7440-36-0 | Antimony | 0.68 | J* | 12/18/2024 | 0039 |
| 7440-38-2 | Arsenic | 6.1 | | 12/18/2024 | 0039 |
| 7440-39-3 | Barium | 74 | | 12/18/2024 | 0039 |
| 7440-41-7 | Beryllium | 0.42 | | 12/18/2024 | 0039 |
| 7440-43-9 | Cadmium | 0.36 | J | 12/18/2024 | 0039 |
| 7440-70-2 | Calcium | 140000 | D | 01/05/2025 | 1846 |
| 7440-47-3 | Chromium | 5.3 | * | 12/18/2024 | 0039 |
| 7440-48-4 | Cobalt | 11 | * | 12/18/2024 | 0039 |
| 7440-50-8 | Copper | 19 | | 12/18/2024 | 0039 |
| 7439-89-6 | Iron | 11000 | * | 12/18/2024 | 0039 |
| 7439-92-1 | Lead | 27 | | 12/18/2024 | 0039 |
| 7439-95-4 | Magnesium | 19000 | | 12/18/2024 | 0039 |
| 7439-96-5 | Manganese | 910 | * | 12/18/2024 | 0039 |
| 7440-02-0 | Nickel | 13 | | 12/18/2024 | 0039 |
| 7440-09-7 | Potassium | 610 | | 12/18/2024 | 0039 |
| 7782-49-2 | Selenium | 0.84 | J* | 12/18/2024 | 0039 |
| 7440-22-4 | Silver | 0.30 | J* | 12/18/2024 | 0039 |
| 7440-23-5 | Sodium | 410 | U | 12/18/2024 | 0039 |
| 7440-28-0 | Thallium | 1.4 | J* | 12/18/2024 | 0039 |
| 7440-62-2 | Vanadium | 8.7 | | 12/18/2024 | 0039 |
| 7440-66-6 | Zinc | 39 | * | 12/18/2024 | 0039 |

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

Comments:

EPA SAMPLE NO.

MBHKT7

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHKS4

Matrix: SOIL Lab Sample ID: P5055-16

% Solids: 86.6 Date Received: 12/03/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 2700 | | 12/18/2024 | 0043 |
| 7440-36-0 | Antimony | 4.7 | U* | 12/18/2024 | 0043 |
| 7440-38-2 | Arsenic | 3.8 | | 12/18/2024 | 0043 |
| 7440-39-3 | Barium | 52 | | 12/18/2024 | 0043 |
| 7440-41-7 | Beryllium | 0.42 | | 12/18/2024 | 0043 |
| 7440-43-9 | Cadmium | 0.32 | J | 12/18/2024 | 0043 |
| 7440-70-2 | Calcium | 210000 | D | 01/03/2025 | 2259 |
| 7440-47-3 | Chromium | 4.9 | * | 12/18/2024 | 0043 |
| 7440-48-4 | Cobalt | 9.6 | * | 12/18/2024 | 0043 |
| 7440-50-8 | Copper | 13 | | 12/18/2024 | 0043 |
| 7439-89-6 | Iron | 8300 | * | 12/18/2024 | 0043 |
| 7439-92-1 | Lead | 19 | | 12/18/2024 | 0043 |
| 7439-95-4 | Magnesium | 9900 | | 12/18/2024 | 0043 |
| 7439-96-5 | Manganese | 580 | * | 12/18/2024 | 0043 |
| 7440-02-0 | Nickel | 9.1 | | 12/18/2024 | 0043 |
| 7440-09-7 | Potassium | 740 | | 12/18/2024 | 0043 |
| 7782-49-2 | Selenium | 2.7 | U* | 12/18/2024 | 0043 |
| 7440-22-4 | Silver | 0.26 | J* | 12/18/2024 | 0043 |
| 7440-23-5 | Sodium | 390 | U | 12/18/2024 | 0043 |
| 7440-28-0 | Thallium | 1.9 | J* | 12/18/2024 | 0043 |
| 7440-62-2 | Vanadium | 6.1 | | 12/18/2024 | 0043 |
| 7440-66-6 | Zinc | 32 | * | 12/18/2024 | 0043 |

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

Comments:

EPA SAMPLE NO.

MBHKW5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHKS4

Matrix: SOIL Lab Sample ID: P5055-17

% Solids: 72.5 Date Received: 12/03/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 6000 | | 12/18/2024 | 0047 |
| 7440-36-0 | Antimony | 2.3 | J* | 12/18/2024 | 0047 |
| 7440-38-2 | Arsenic | 9.2 | | 12/18/2024 | 0047 |
| 7440-39-3 | Barium | 180 | | 12/18/2024 | 0047 |
| 7440-41-7 | Beryllium | 0.78 | | 12/18/2024 | 0047 |
| 7440-43-9 | Cadmium | 0.93 | | 12/18/2024 | 0047 |
| 7440-70-2 | Calcium | 28000 | | 12/18/2024 | 0047 |
| 7440-47-3 | Chromium | 13 | * | 12/18/2024 | 0047 |
| 7440-48-4 | Cobalt | 12 | * | 12/18/2024 | 0047 |
| 7440-50-8 | Copper | 32 | | 12/18/2024 | 0047 |
| 7439-89-6 | Iron | 16000 | * | 12/18/2024 | 0047 |
| 7439-92-1 | Lead | 190 | | 12/18/2024 | 0047 |
| 7439-95-4 | Magnesium | 5500 | | 12/18/2024 | 0047 |
| 7439-96-5 | Manganese | 720 | * | 12/18/2024 | 0047 |
| 7440-02-0 | Nickel | 19 | | 12/18/2024 | 0047 |
| 7440-09-7 | Potassium | 1100 | | 12/18/2024 | 0047 |
| 7782-49-2 | Selenium | 4.5 | * | 12/18/2024 | 0047 |
| 7440-22-4 | Silver | 0.47 | J* | 12/18/2024 | 0047 |
| 7440-23-5 | Sodium | 530 | U | 12/18/2024 | 0047 |
| 7440-28-0 | Thallium | 2.6 | U* | 12/18/2024 | 0047 |
| 7440-62-2 | Vanadium | 17 | | 12/18/2024 | 0047 |
| 7440-66-6 | Zinc | 250 | * | 12/18/2024 | 0047 |

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

Comments:

EPA SAMPLE NO.

MBHKW6

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHKS4

Matrix: SOIL Lab Sample ID: P5055-18

% Solids: 79.2 Date Received: 12/03/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 6000 | | 12/18/2024 | 0051 |
| 7440-36-0 | Antimony | 2.6 | J* | 12/18/2024 | 0051 |
| 7440-38-2 | Arsenic | 8.8 | | 12/18/2024 | 0051 |
| 7440-39-3 | Barium | 180 | | 12/18/2024 | 0051 |
| 7440-41-7 | Beryllium | 0.76 | | 12/18/2024 | 0051 |
| 7440-43-9 | Cadmium | 0.98 | | 12/18/2024 | 0051 |
| 7440-70-2 | Calcium | 33000 | | 12/18/2024 | 0051 |
| 7440-47-3 | Chromium | 13 | * | 12/18/2024 | 0051 |
| 7440-48-4 | Cobalt | 12 | * | 12/18/2024 | 0051 |
| 7440-50-8 | Copper | 32 | | 12/18/2024 | 0051 |
| 7439-89-6 | Iron | 17000 | * | 12/18/2024 | 0051 |
| 7439-92-1 | Lead | 200 | | 12/18/2024 | 0051 |
| 7439-95-4 | Magnesium | 6500 | | 12/18/2024 | 0051 |
| 7439-96-5 | Manganese | 850 | * | 12/18/2024 | 0051 |
| 7440-02-0 | Nickel | 19 | | 12/18/2024 | 0051 |
| 7440-09-7 | Potassium | 910 | | 12/18/2024 | 0051 |
| 7782-49-2 | Selenium | 4.8 | * | 12/18/2024 | 0051 |
| 7440-22-4 | Silver | 0.56 | J* | 12/18/2024 | 0051 |
| 7440-23-5 | Sodium | 480 | U | 12/18/2024 | 0051 |
| 7440-28-0 | Thallium | 2.4 | U* | 12/18/2024 | 0051 |
| 7440-62-2 | Vanadium | 17 | | 12/18/2024 | 0051 |
| 7440-66-6 | Zinc | 240 | * | 12/18/2024 | 0051 |

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

Comments:

EPA SAMPLE NO.

MBHKW7

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHKS4

Matrix: SOIL Lab Sample ID: P5055-19

% Solids: 86.4 Date Received: 12/03/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 5500 | | 12/18/2024 | 0055 |
| 7440-36-0 | Antimony | 2.6 | J* | 12/18/2024 | 0055 |
| 7440-38-2 | Arsenic | 11 | | 12/18/2024 | 0055 |
| 7440-39-3 | Barium | 170 | | 12/18/2024 | 0055 |
| 7440-41-7 | Beryllium | 0.68 | | 12/18/2024 | 0055 |
| 7440-43-9 | Cadmium | 0.89 | | 12/18/2024 | 0055 |
| 7440-70-2 | Calcium | 37000 | | 12/18/2024 | 0055 |
| 7440-47-3 | Chromium | 11 | * | 12/18/2024 | 0055 |
| 7440-48-4 | Cobalt | 14 | * | 12/18/2024 | 0055 |
| 7440-50-8 | Copper | 26 | | 12/18/2024 | 0055 |
| 7439-89-6 | Iron | 17000 | * | 12/18/2024 | 0055 |
| 7439-92-1 | Lead | 120 | | 12/18/2024 | 0055 |
| 7439-95-4 | Magnesium | 6400 | | 12/18/2024 | 0055 |
| 7439-96-5 | Manganese | 1300 | * | 12/18/2024 | 0055 |
| 7440-02-0 | Nickel | 19 | | 12/18/2024 | 0055 |
| 7440-09-7 | Potassium | 700 | | 12/18/2024 | 0055 |
| 7782-49-2 | Selenium | 5.7 | * | 12/18/2024 | 0055 |
| 7440-22-4 | Silver | 0.62 | J* | 12/18/2024 | 0055 |
| 7440-23-5 | Sodium | 420 | U | 12/18/2024 | 0055 |
| 7440-28-0 | Thallium | 2.1 | U* | 12/18/2024 | 0055 |
| 7440-62-2 | Vanadium | 16 | | 12/18/2024 | 0055 |
| 7440-66-6 | Zinc | 170 | * | 12/18/2024 | 0055 |

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

Comments:

EPA SAMPLE NO.

MBHKW8

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHKS4

Matrix: SOIL Lab Sample ID: P5055-20

% Solids: 87.7 Date Received: 12/03/2024

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 3900 | | 12/18/2024 | 0058 |
| 7440-36-0 | Antimony | 1.4 | J* | 12/18/2024 | 0058 |
| 7440-38-2 | Arsenic | 7.5 | | 12/18/2024 | 0058 |
| 7440-39-3 | Barium | 140 | | 12/18/2024 | 0058 |
| 7440-41-7 | Beryllium | 0.51 | | 12/18/2024 | 0058 |
| 7440-43-9 | Cadmium | 0.49 | | 12/18/2024 | 0058 |
| 7440-70-2 | Calcium | 110000 | D | 01/03/2025 | 2303 |
| 7440-47-3 | Chromium | 7.3 | * | 12/18/2024 | 0058 |
| 7440-48-4 | Cobalt | 13 | * | 12/18/2024 | 0058 |
| 7440-50-8 | Copper | 24 | | 12/18/2024 | 0058 |
| 7439-89-6 | Iron | 14000 | * | 12/18/2024 | 0058 |
| 7439-92-1 | Lead | 45 | | 12/18/2024 | 0058 |
| 7439-95-4 | Magnesium | 20000 | | 12/18/2024 | 0058 |
| 7439-96-5 | Manganese | 1400 | * | 12/18/2024 | 0058 |
| 7440-02-0 | Nickel | 15 | | 12/18/2024 | 0058 |
| 7440-09-7 | Potassium | 710 | | 12/18/2024 | 0058 |
| 7782-49-2 | Selenium | 3.0 | * | 12/18/2024 | 0058 |
| 7440-22-4 | Silver | 0.41 | J* | 12/18/2024 | 0058 |
| 7440-23-5 | Sodium | 400 | U | 12/18/2024 | 0058 |
| 7440-28-0 | Thallium | 2.0 | U* | 12/18/2024 | 0058 |
| 7440-62-2 | Vanadium | 11 | | 12/18/2024 | 0058 |
| 7440-66-6 | Zinc | 66 | * | 12/18/2024 | 0058 |

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

Comments:

EPA SAMPLE NO.

MBHKW9

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHKS4

Matrix: SOIL Lab Sample ID: P5055-21

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

Analytical Method: ICP_AES

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 3600 | | 12/18/2024 | 0110 |
| 7440-36-0 | Antimony | 0.57 | J* | 12/18/2024 | 0110 |
| 7440-38-2 | Arsenic | 5.9 | | 12/18/2024 | 0110 |
| 7440-39-3 | Barium | 55 | | 12/18/2024 | 0110 |
| 7440-41-7 | Beryllium | 0.42 | | 12/18/2024 | 0110 |
| 7440-43-9 | Cadmium | 0.34 | J | 12/18/2024 | 0110 |
| 7440-70-2 | Calcium | 170000 | D | 01/03/2025 | 2307 |
| 7440-47-3 | Chromium | 6.3 | * | 12/18/2024 | 0110 |
| 7440-48-4 | Cobalt | 11 | * | 12/18/2024 | 0110 |
| 7440-50-8 | Copper | 21 | | 12/18/2024 | 0110 |
| 7439-89-6 | Iron | 9800 | * | 12/18/2024 | 0110 |
| 7439-92-1 | Lead | 22 | | 12/18/2024 | 0110 |
| 7439-95-4 | Magnesium | 17000 | | 12/18/2024 | 0110 |
| 7439-96-5 | Manganese | 910 | * | 12/18/2024 | 0110 |
| 7440-02-0 | Nickel | 12 | | 12/18/2024 | 0110 |
| 7440-09-7 | Potassium | 880 | | 12/18/2024 | 0110 |
| 7782-49-2 | Selenium | 2.6 | U* | 12/18/2024 | 0110 |
| 7440-22-4 | Silver | 0.30 | J* | 12/18/2024 | 0110 |
| 7440-23-5 | Sodium | 380 | U | 12/18/2024 | 0110 |
| 7440-28-0 | Thallium | 1.4 | J* | 12/18/2024 | 0110 |
| 7440-62-2 | Vanadium | 8.1 | | 12/18/2024 | 0110 |
| 7440-66-6 | Zinc | 42 | * | 12/18/2024 | 0110 |

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

Comments:

EPA SAMPLE NO.

MBHKX0

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51879 MA No. : SDG No.: MBHKS4

Matrix: SOIL Lab Sample ID: P5055-22

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

Analytical Method: ICP_AES

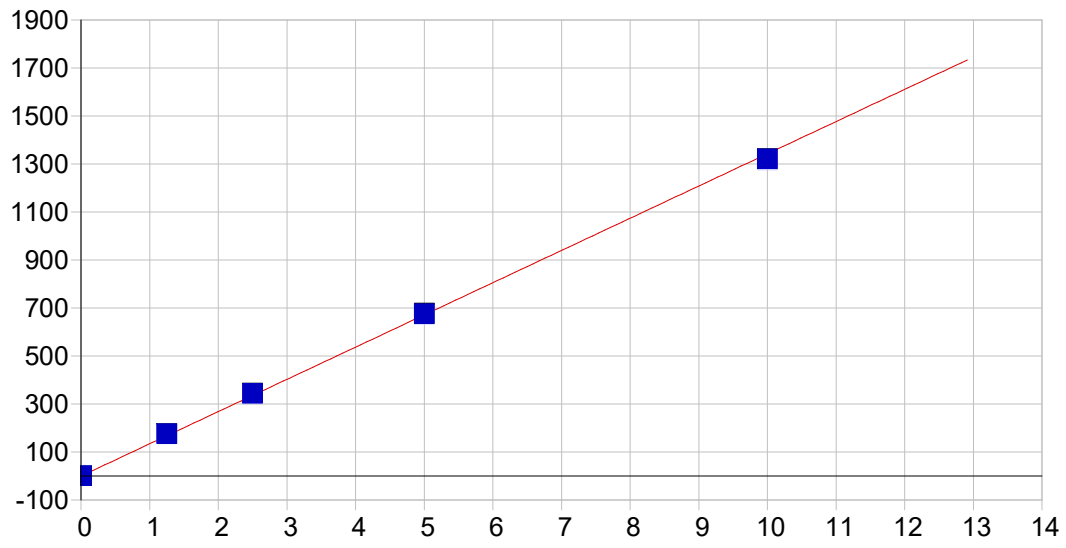
Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): mg/kg

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 3800 | | 12/18/2024 | 0114 |
| 7440-36-0 | Antimony | 1.4 | J* | 12/18/2024 | 0114 |
| 7440-38-2 | Arsenic | 11 | | 12/18/2024 | 0114 |
| 7440-39-3 | Barium | 50 | | 12/18/2024 | 0114 |
| 7440-41-7 | Beryllium | 0.60 | | 12/18/2024 | 0114 |
| 7440-43-9 | Cadmium | 0.38 | J | 12/18/2024 | 0114 |
| 7440-70-2 | Calcium | 120000 | D | 01/03/2025 | 2310 |
| 7440-47-3 | Chromium | 5.9 | * | 12/18/2024 | 0114 |
| 7440-48-4 | Cobalt | 12 | * | 12/18/2024 | 0114 |
| 7440-50-8 | Copper | 35 | | 12/18/2024 | 0114 |
| 7439-89-6 | Iron | 15000 | * | 12/18/2024 | 0114 |
| 7439-92-1 | Lead | 22 | | 12/18/2024 | 0114 |
| 7439-95-4 | Magnesium | 13000 | | 12/18/2024 | 0114 |
| 7439-96-5 | Manganese | 650 | * | 12/18/2024 | 0114 |
| 7440-02-0 | Nickel | 15 | | 12/18/2024 | 0114 |
| 7440-09-7 | Potassium | 980 | | 12/18/2024 | 0114 |
| 7782-49-2 | Selenium | 2.8 | * | 12/18/2024 | 0114 |
| 7440-22-4 | Silver | 0.35 | J* | 12/18/2024 | 0114 |
| 7440-23-5 | Sodium | 400 | U | 12/18/2024 | 0114 |
| 7440-28-0 | Thallium | 2.0 | U* | 12/18/2024 | 0114 |
| 7440-62-2 | Vanadium | 10 | | 12/18/2024 | 0114 |
| 7440-66-6 | Zinc | 41 | * | 12/18/2024 | 0114 |

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

Comments:

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



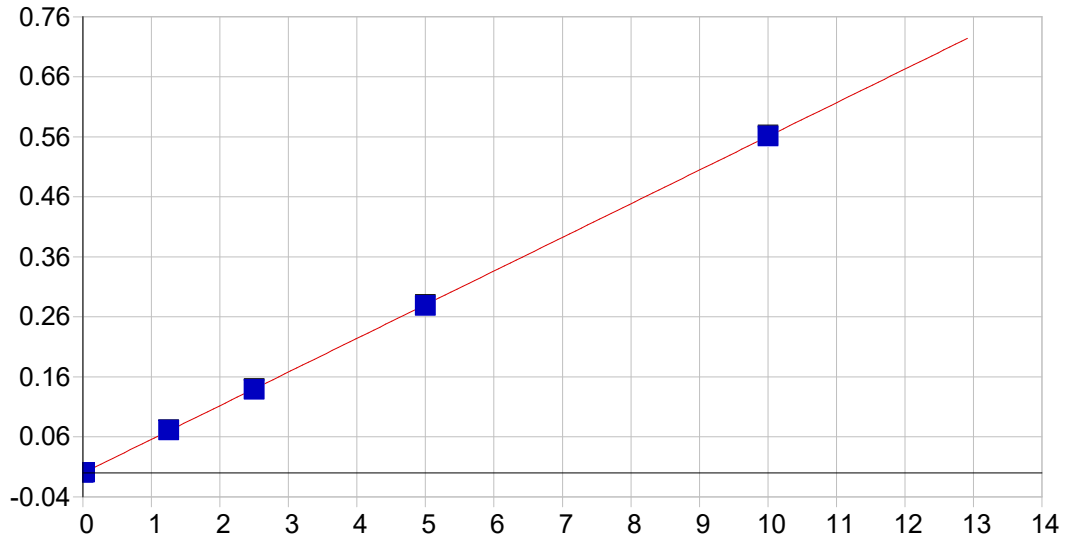

**As 189.042 {478}**

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

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

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

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



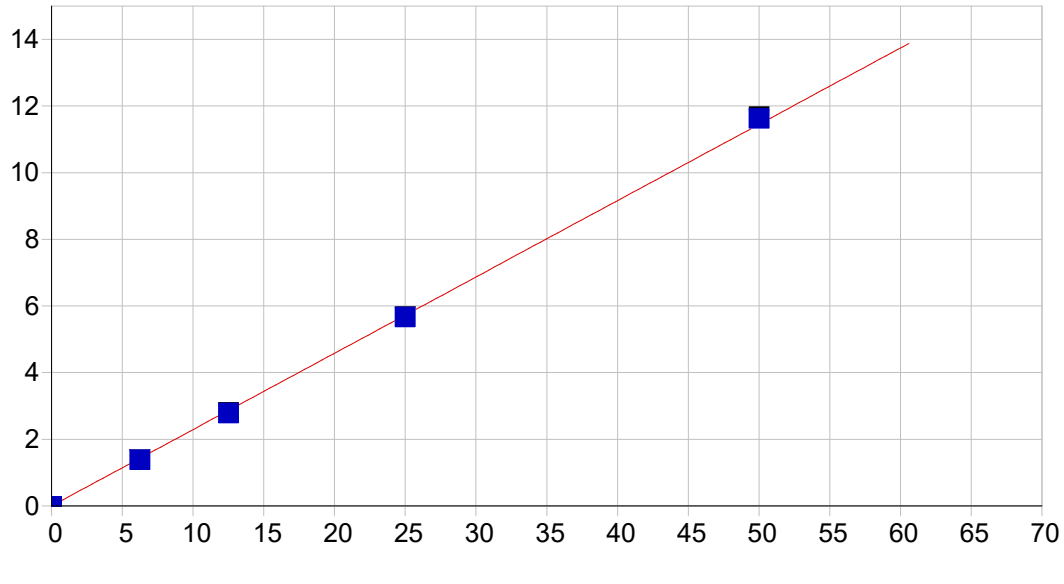

**Tl 190.856 {477}**

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

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

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

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



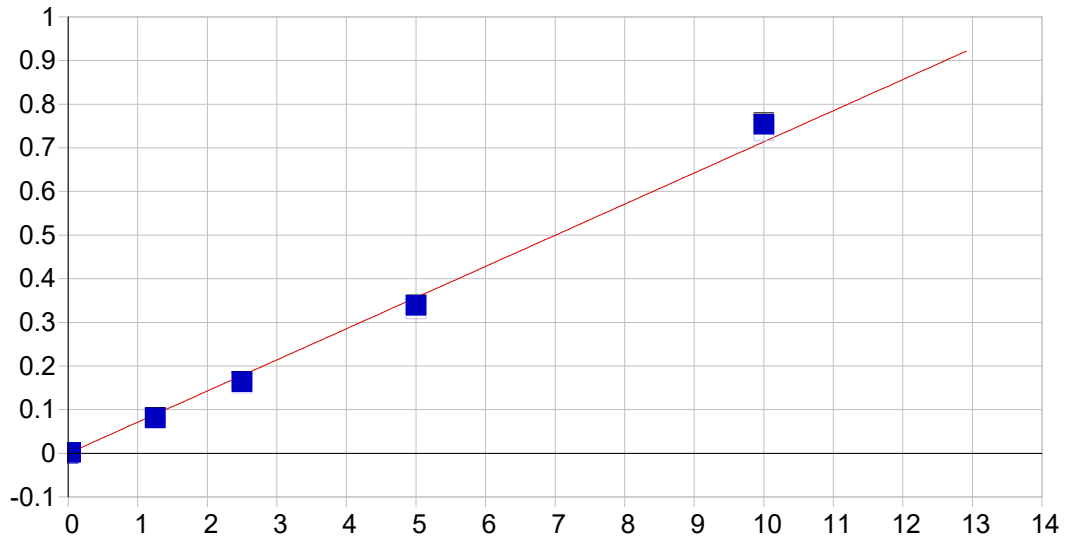

**Pb 220.353 {453}**

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

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

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

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



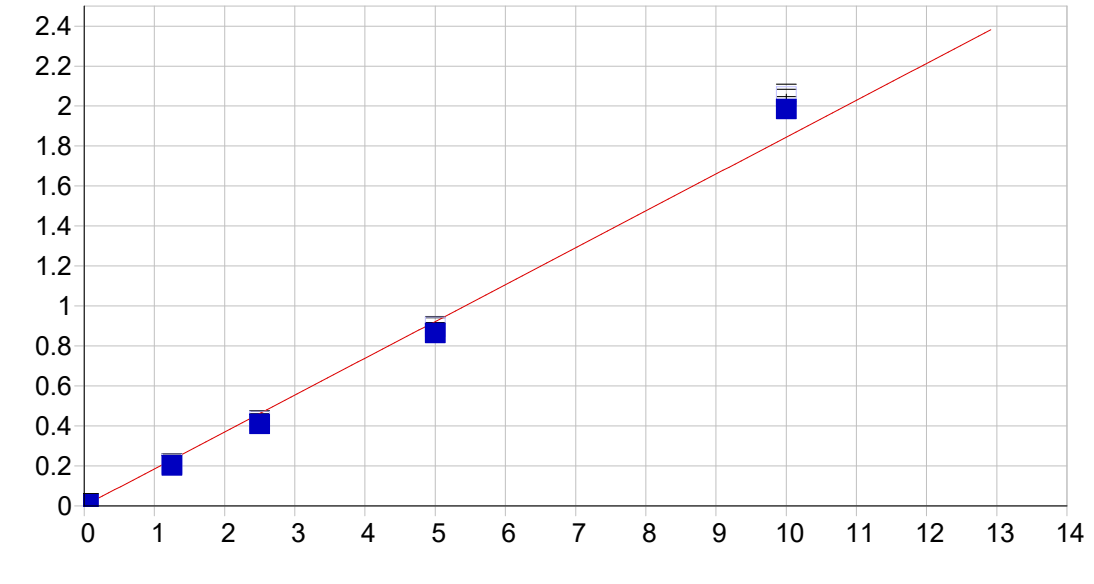

**Se 196.090 {472}**

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

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

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

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



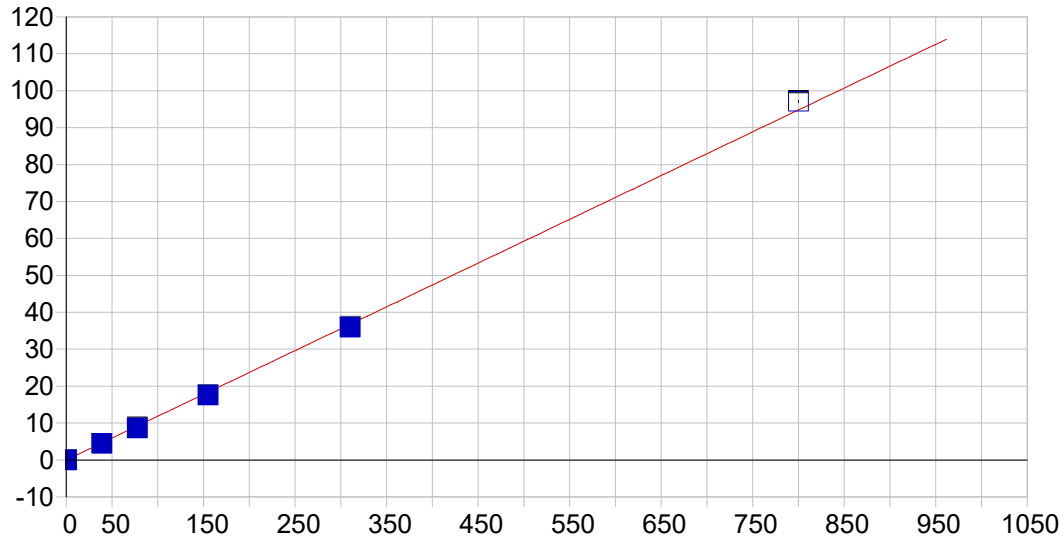

**Sb 206.833 {463}**

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

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

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

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



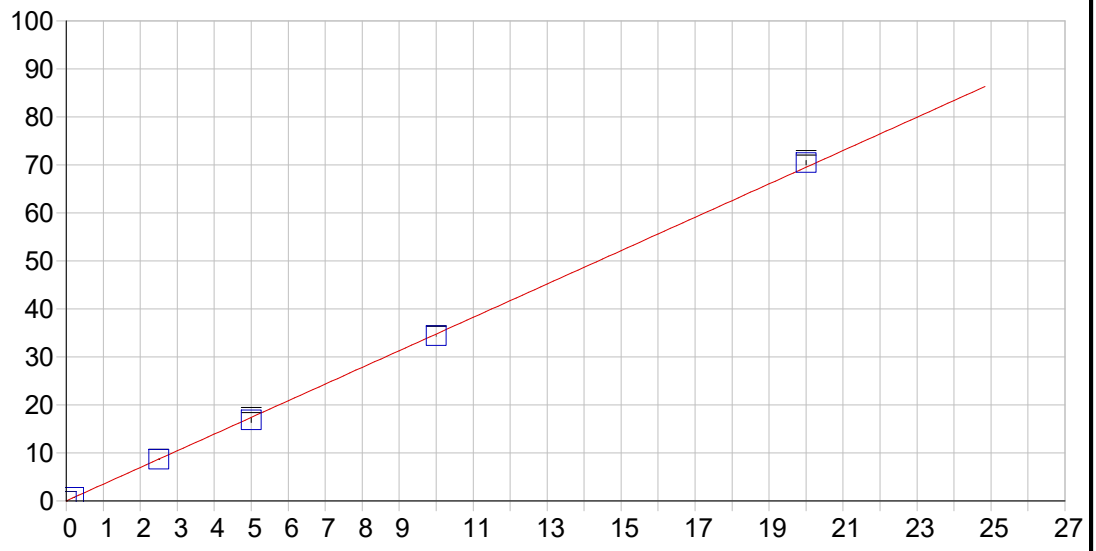

**Al 396.152 { 85}**

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

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

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

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



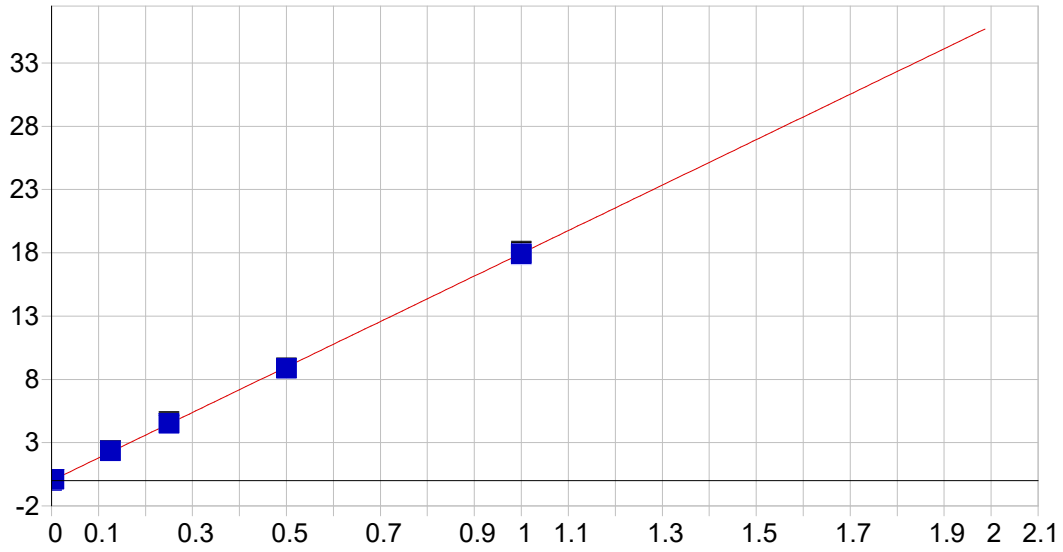

**Ba 493.409 { 68}**

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

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

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

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



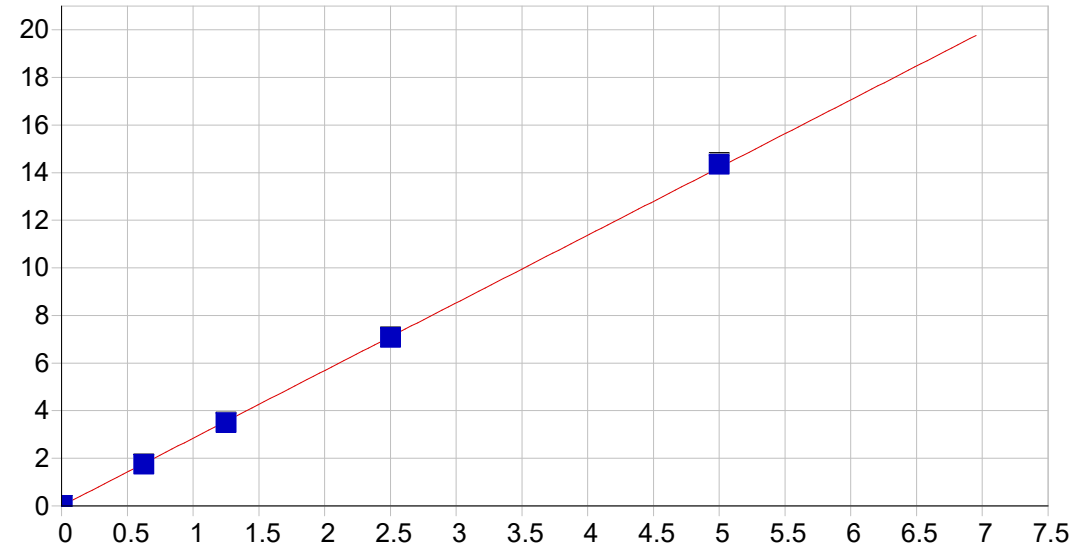

**Be 234.861 {144}**

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

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

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

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



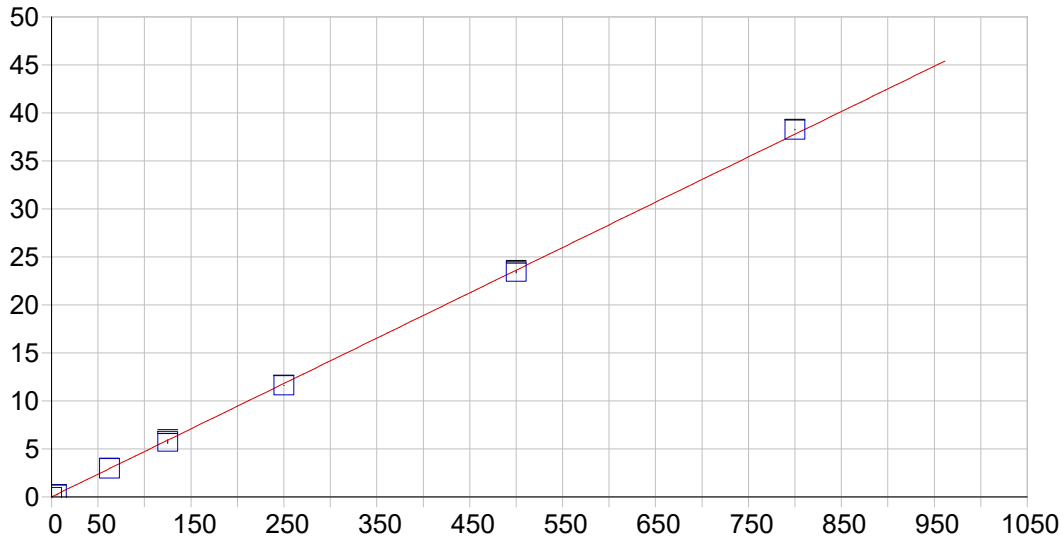

**Cd 214.438 {457}**

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

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

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

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



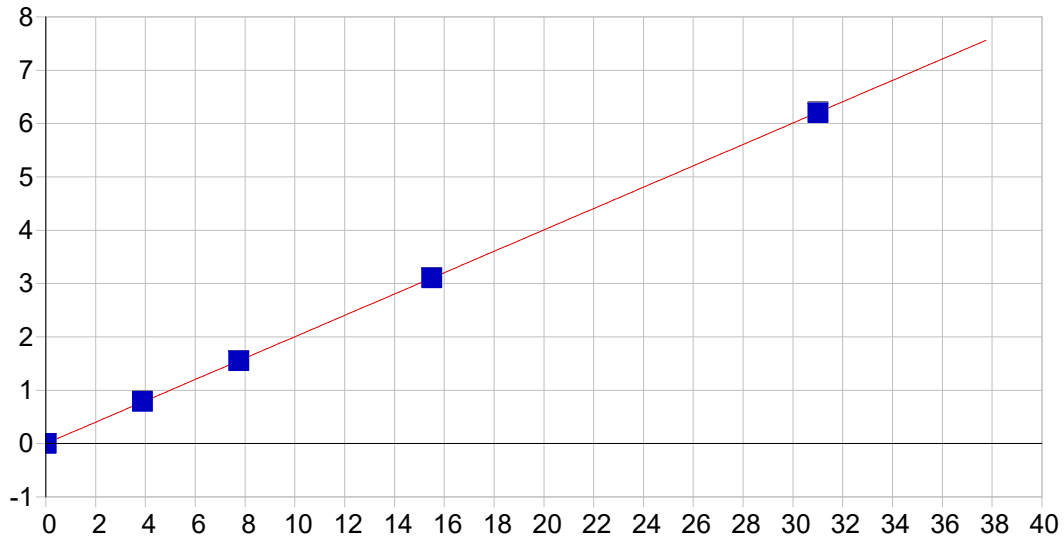

**Ca 373.690 { 90}**

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

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

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

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



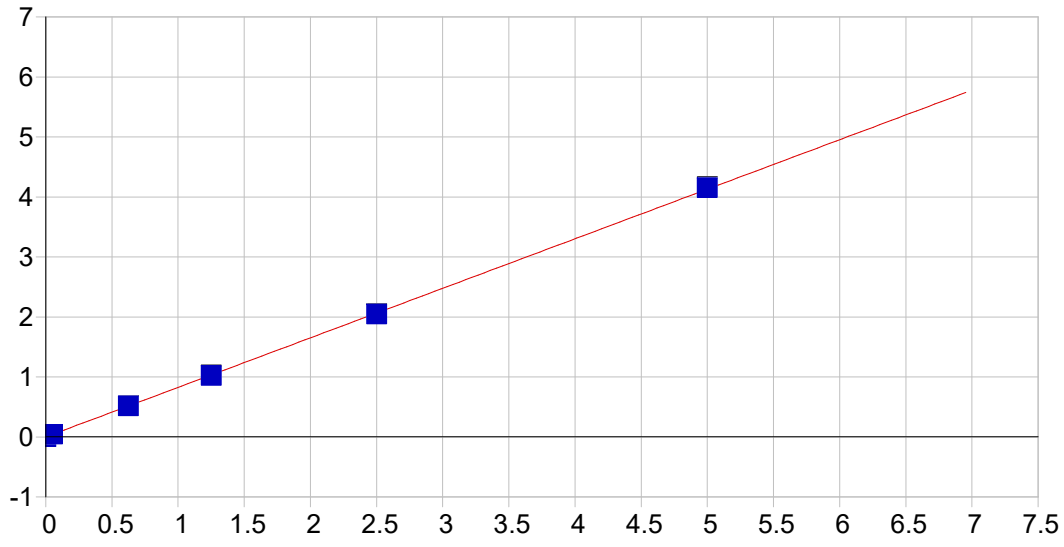

**Cr 267.716 {126}**

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

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

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

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



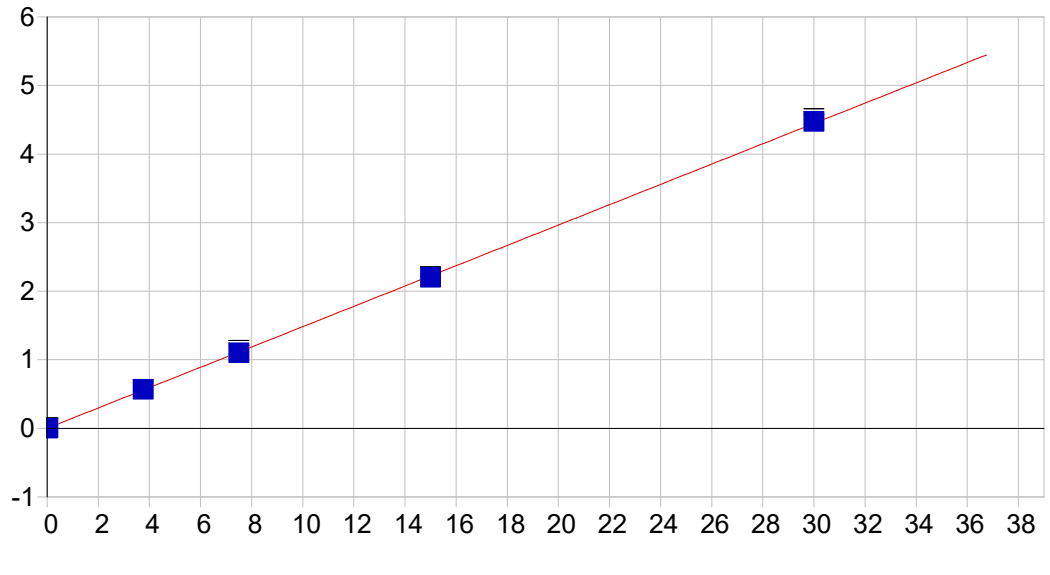

**Co 228.616 {448}**

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

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

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

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



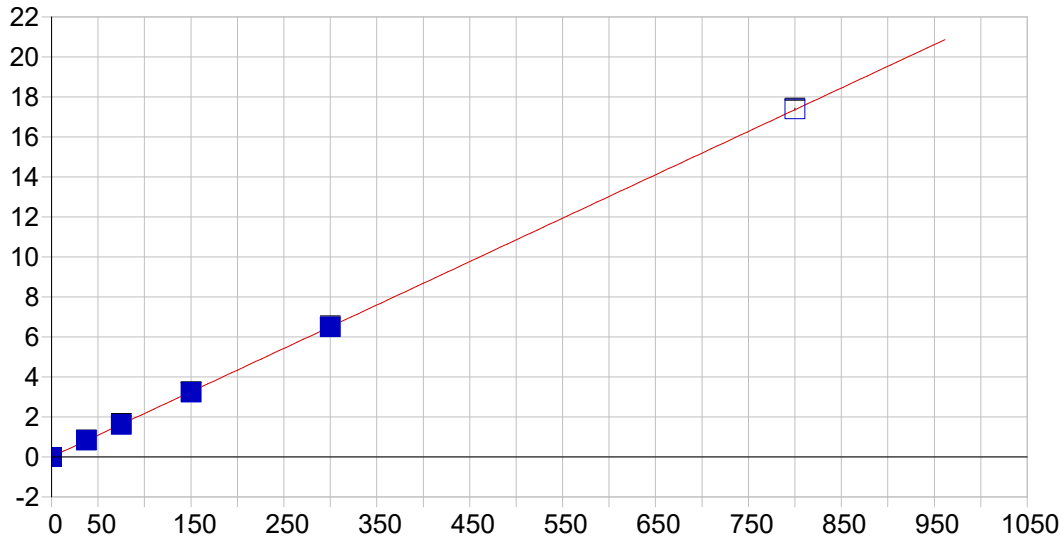

**Cu 324.754 {104}**

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

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

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

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



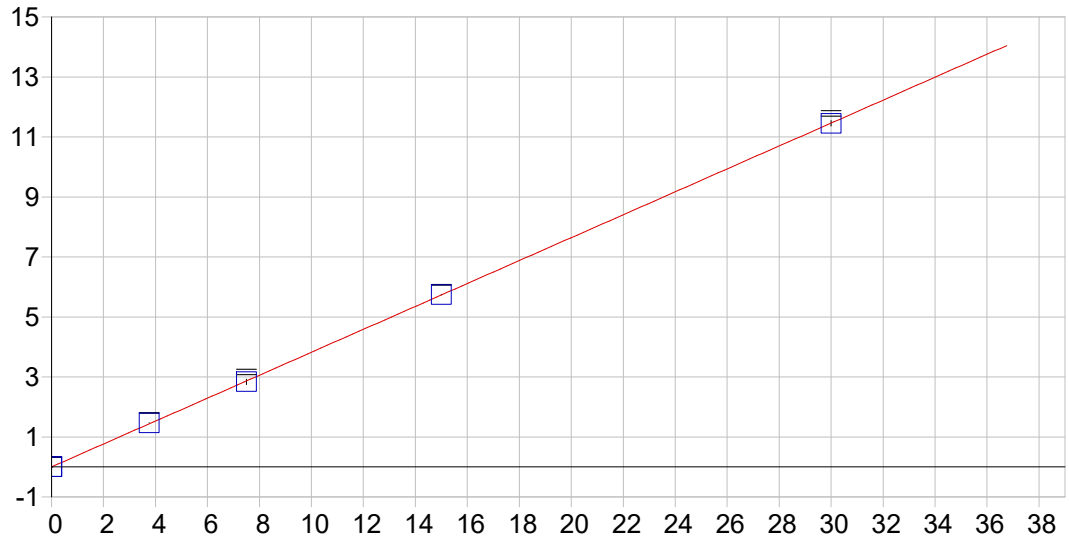

**Fe 259.837 {130}**

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

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

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

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



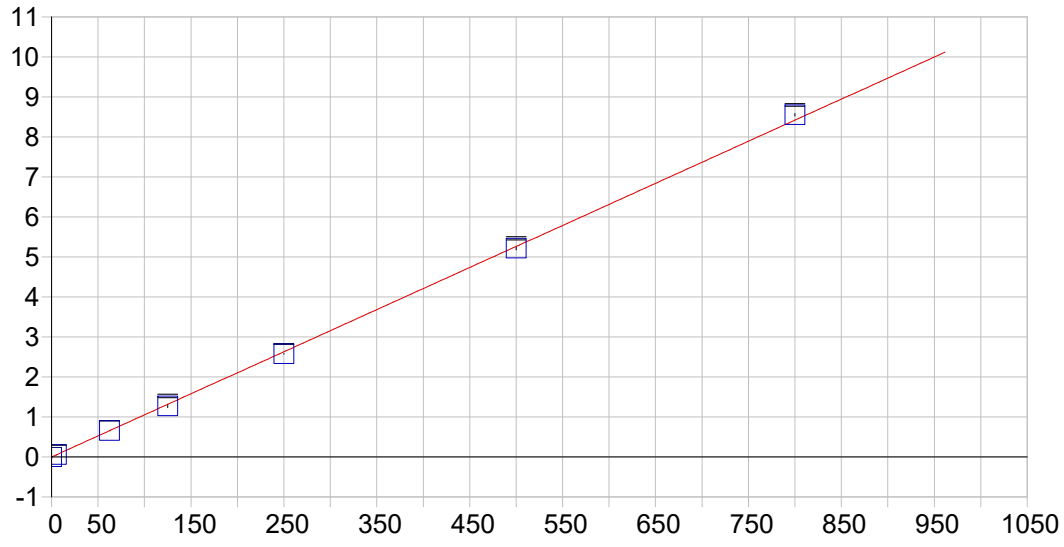

**Mn 257.610 {131}**

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

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

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

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



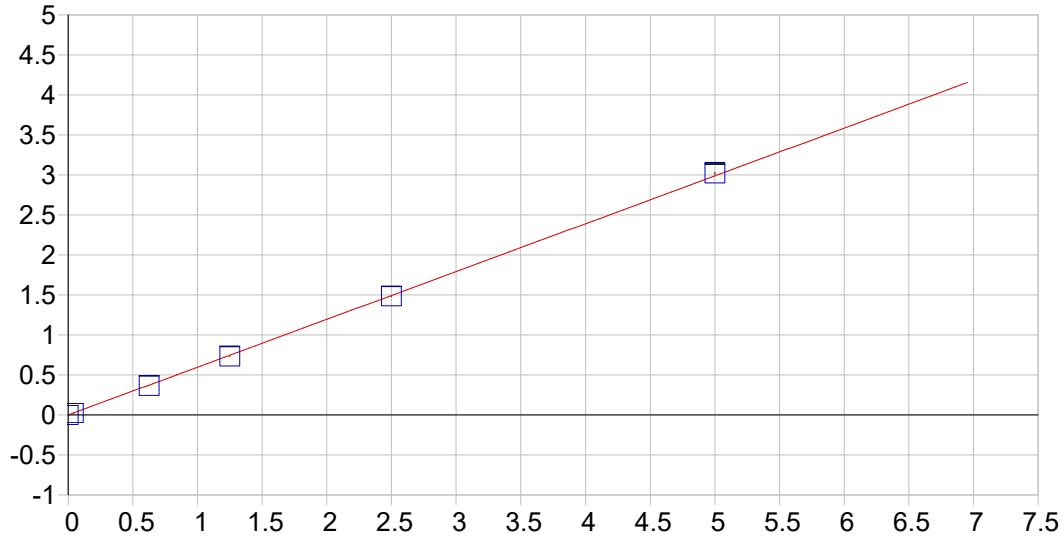

**Mg 279.079 {121}**

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

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

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

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



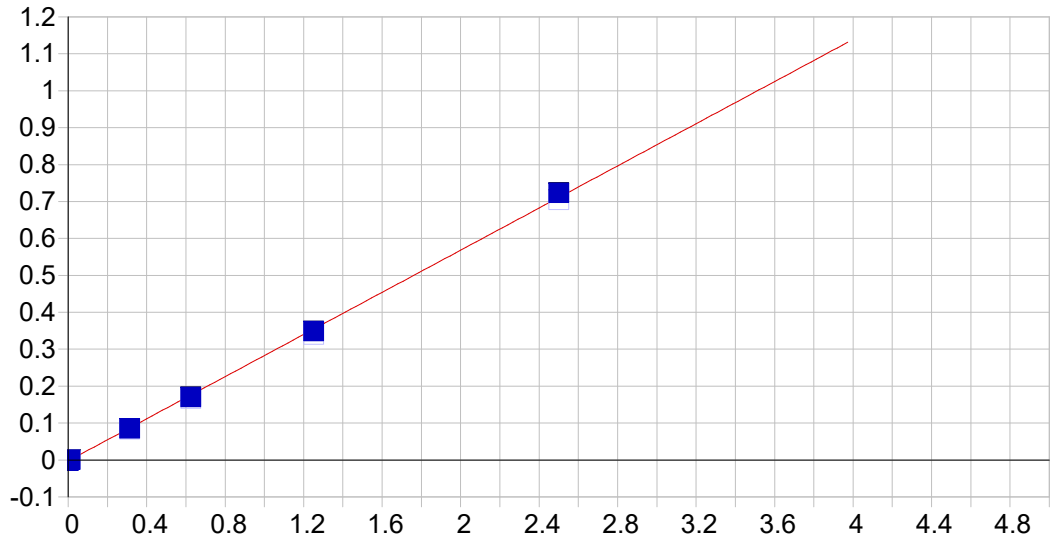

**Ni 231.604 {446}**

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

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

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

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



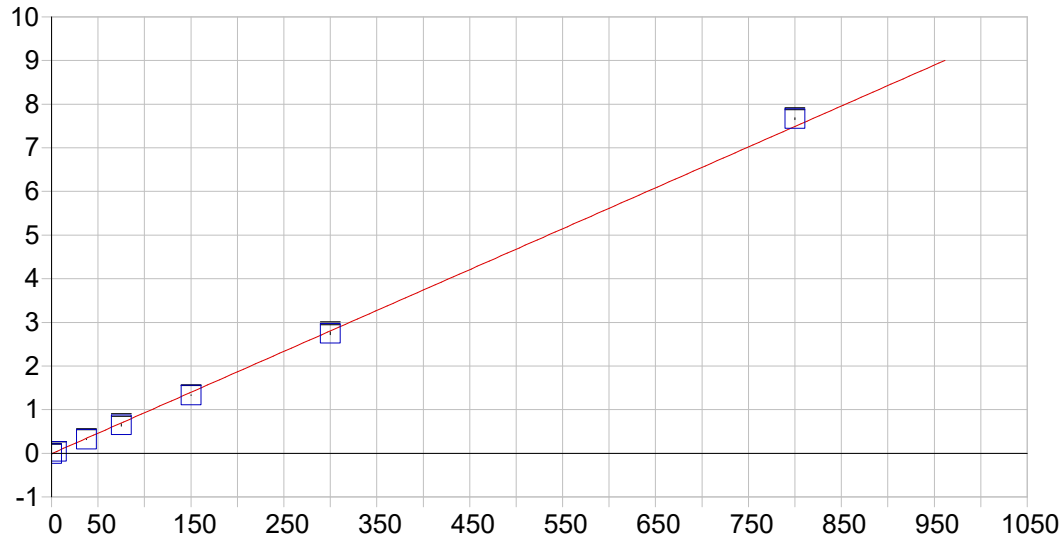

**Ag 328.068 {103}**

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

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

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

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



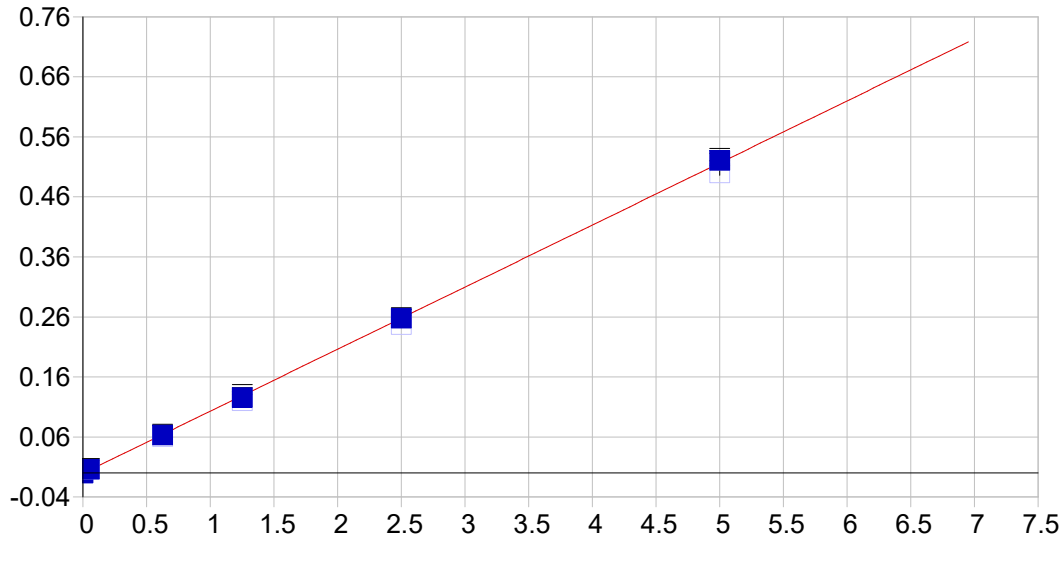

**Na 818.326 { 41}**

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

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

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

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



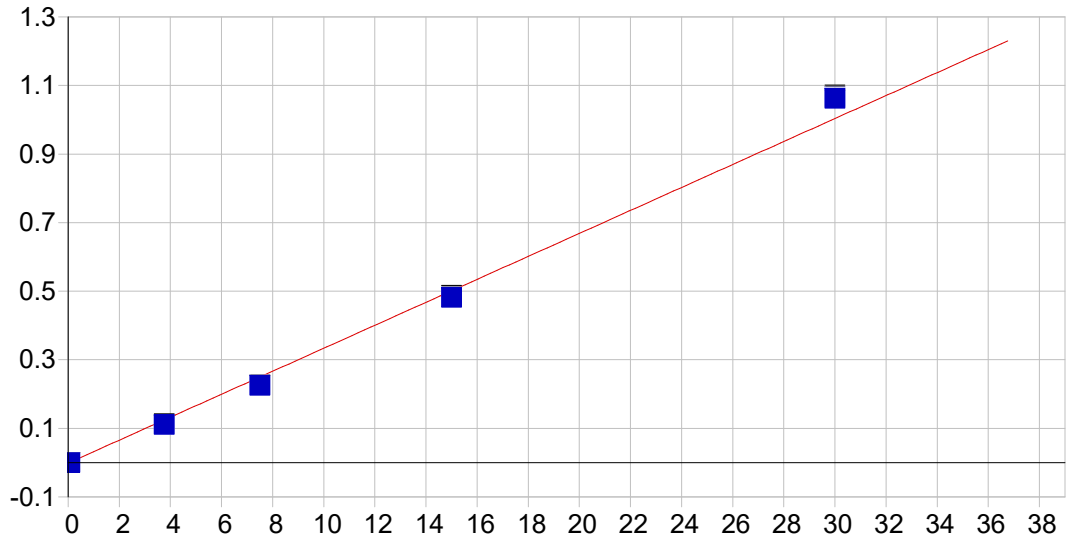

**V 292.402 {115}**

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

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

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

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



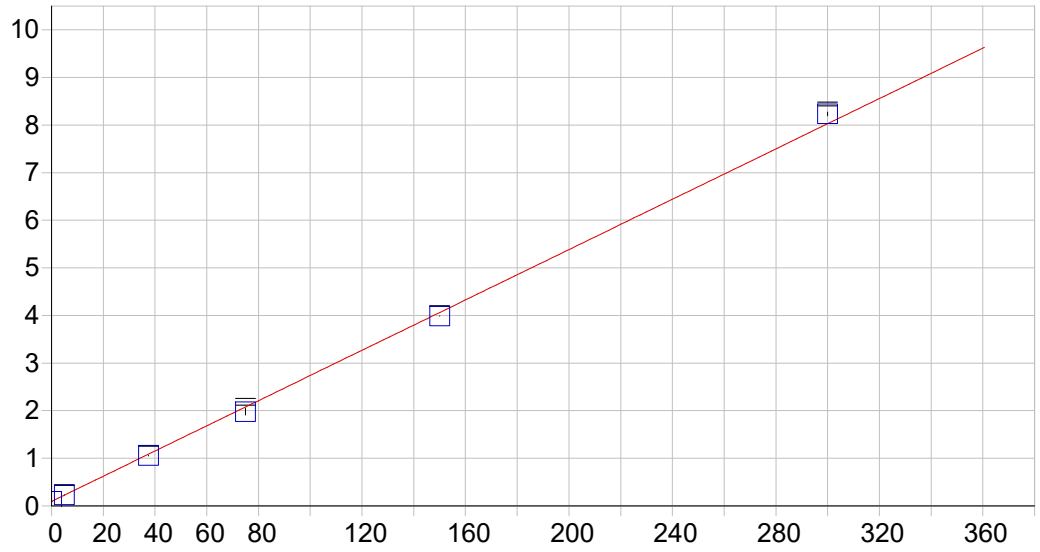

**Zn 213.856 {158}**

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

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

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

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



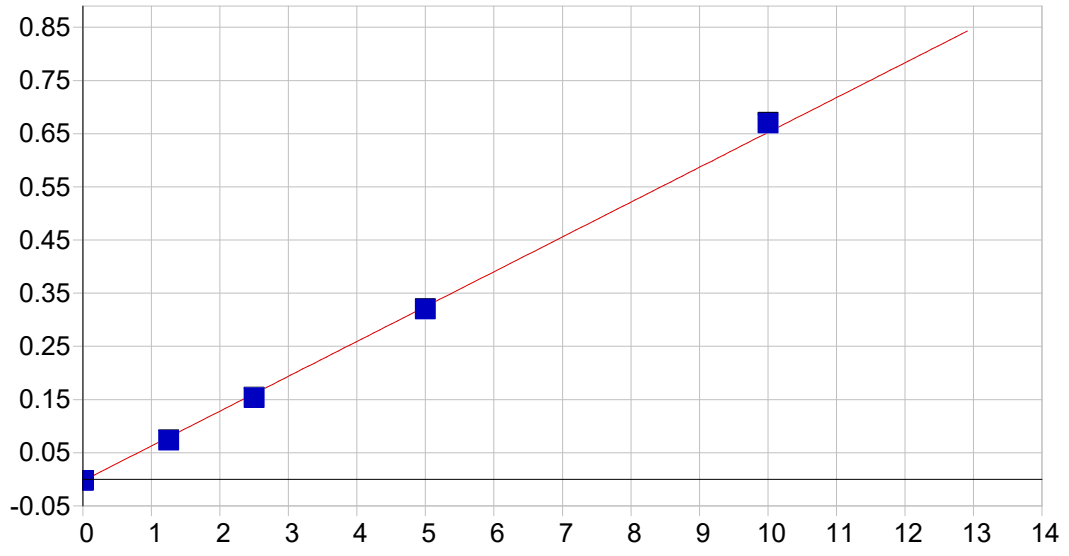

**K 769.896 { 44}**

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

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

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

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



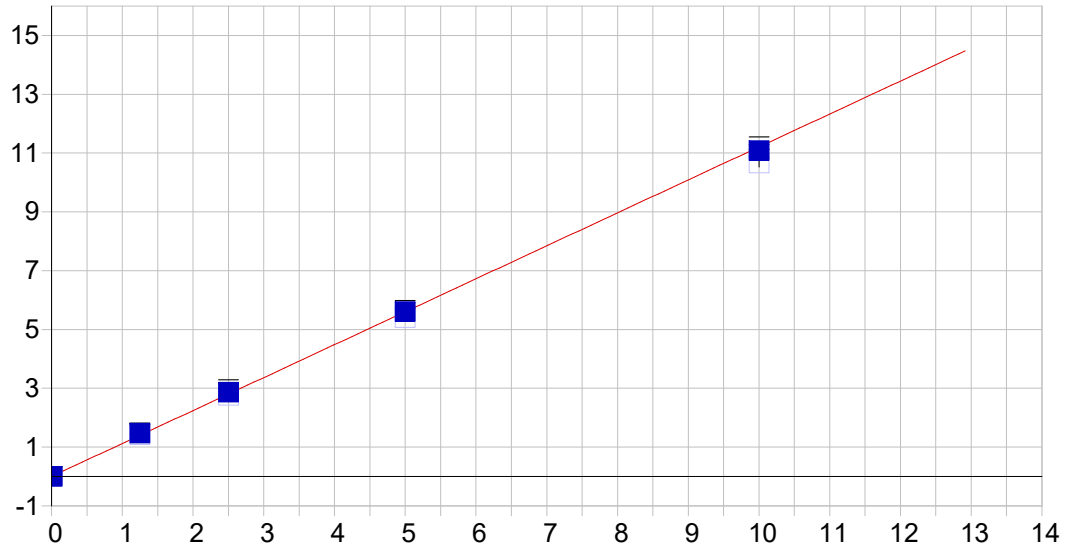

**P 177.495 {490}**

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

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

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

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



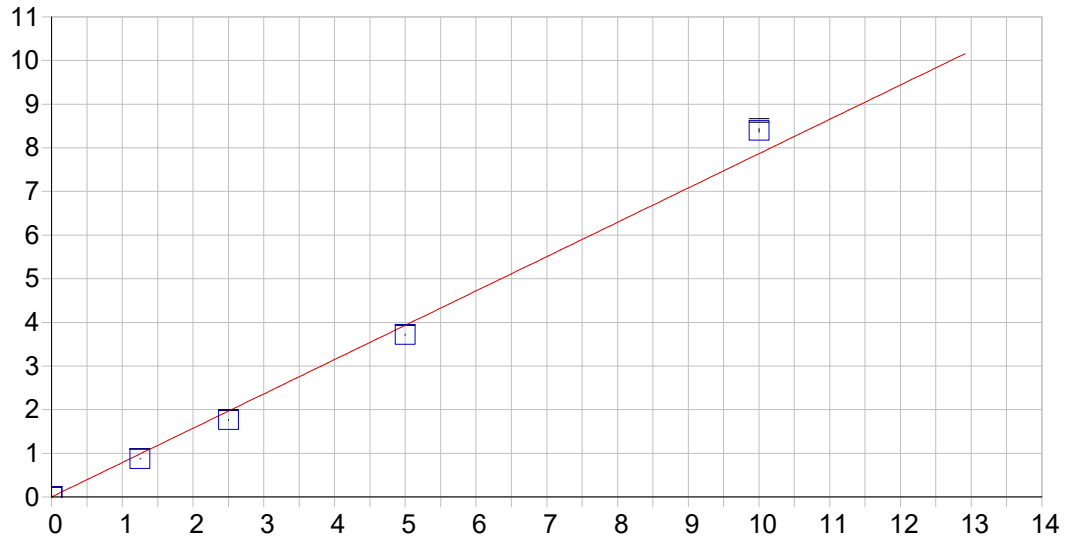

**B 249.678 {135}**

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

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

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

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



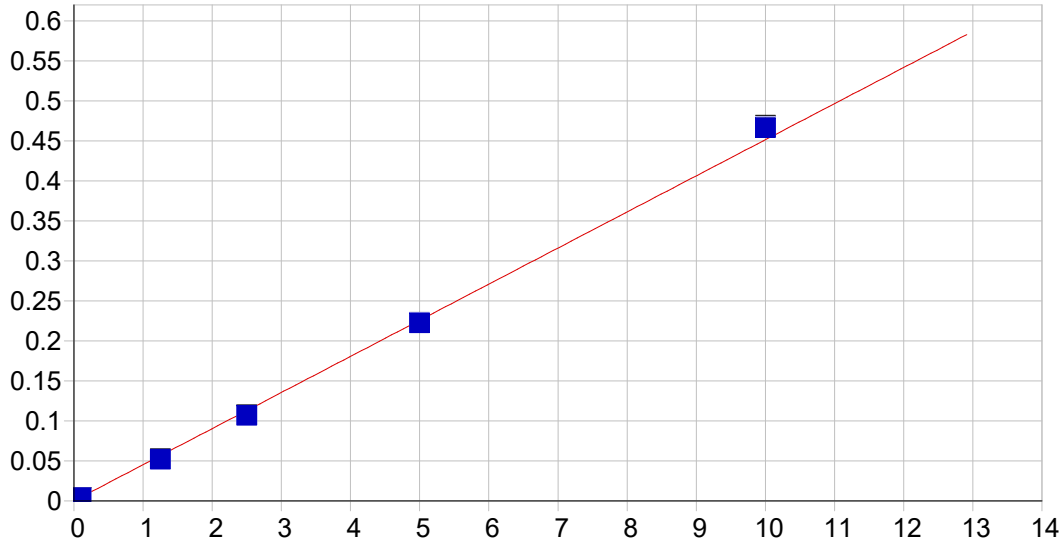

**Mo 202.030 {467}**

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

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

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

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



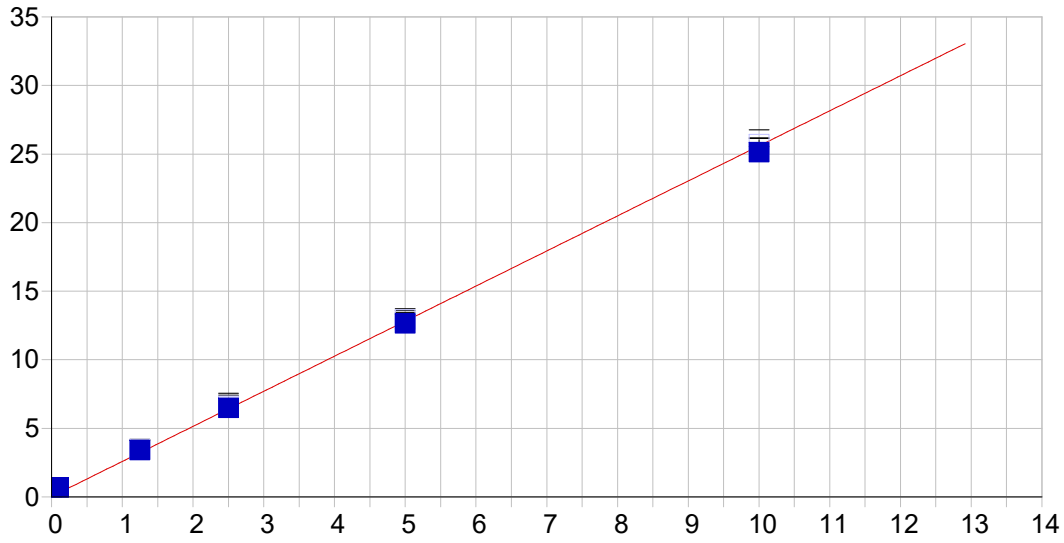

**S 182.034 {485}**

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

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

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

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



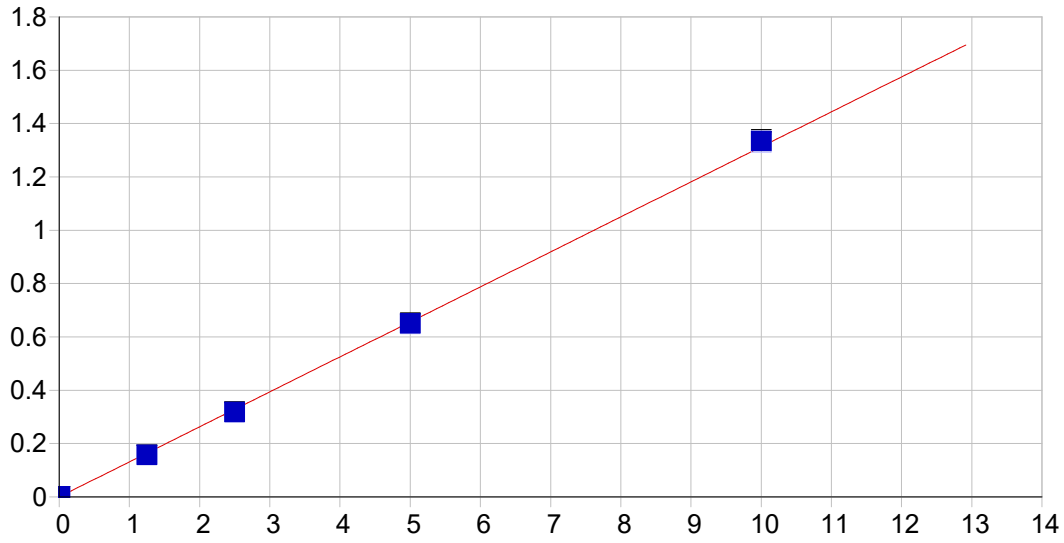

**Si 251.611 {134}**

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

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

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

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



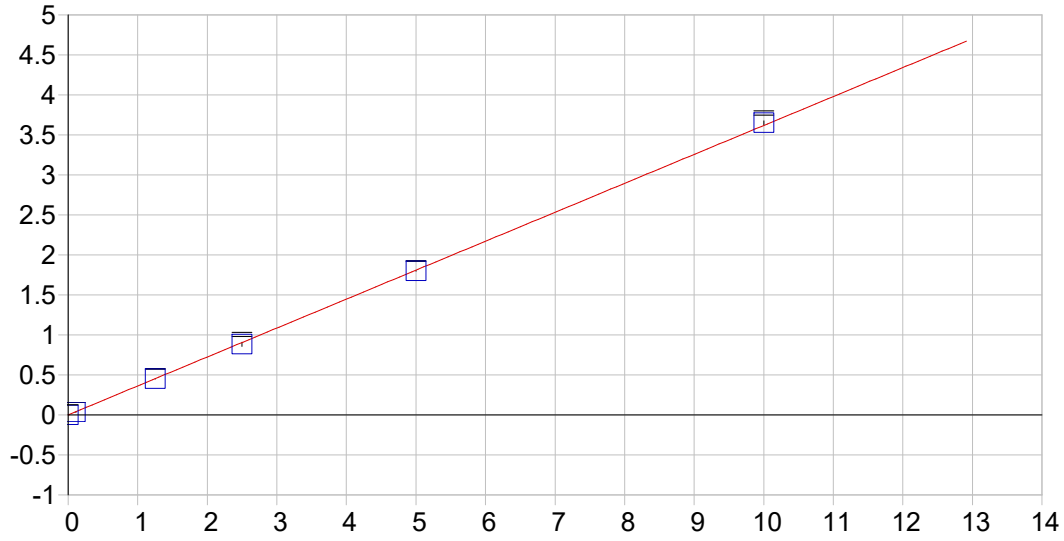

**Sn 189.989 {478}**

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

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

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

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



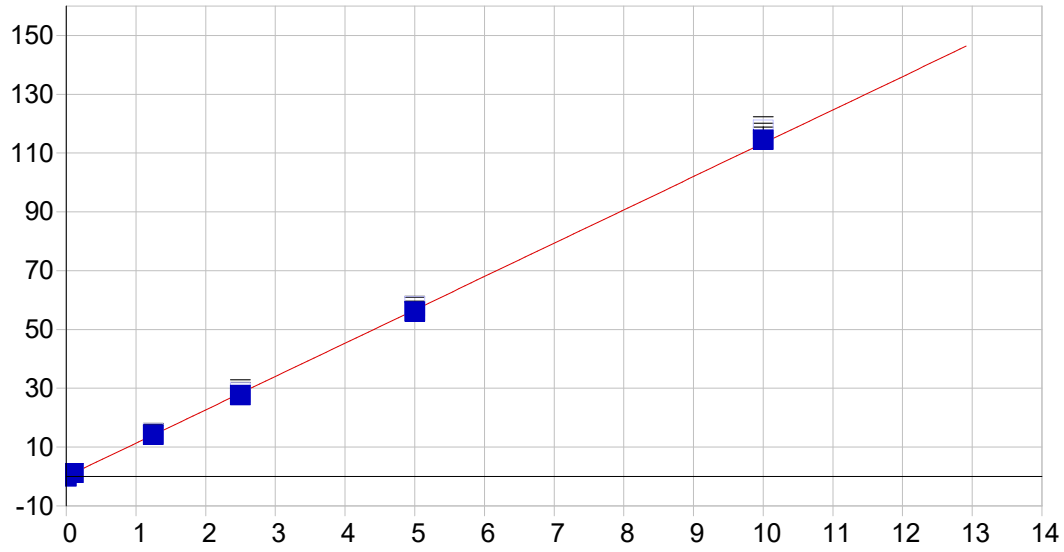

**Ti 336.121 {100}**

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

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

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

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



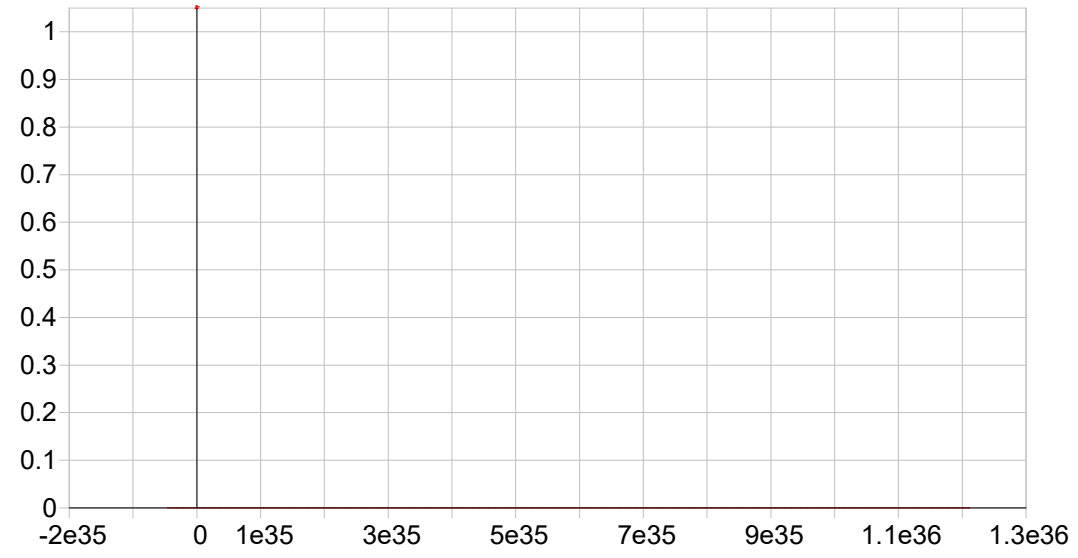

**Sr 407.771 { 83}**

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

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

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

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

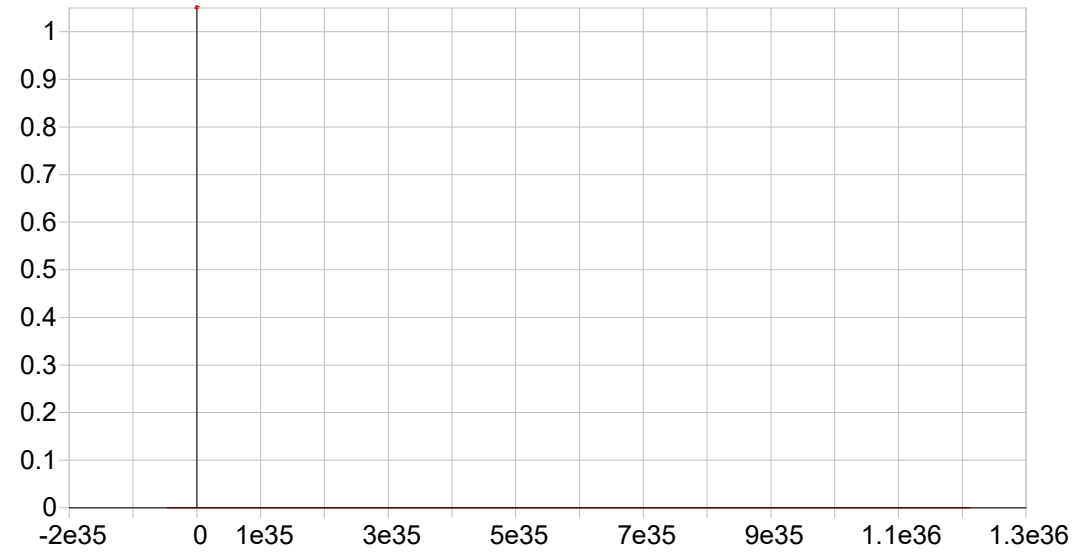



**Y 224.306 {450}***

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

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

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




**Y 360.073 { 94}***

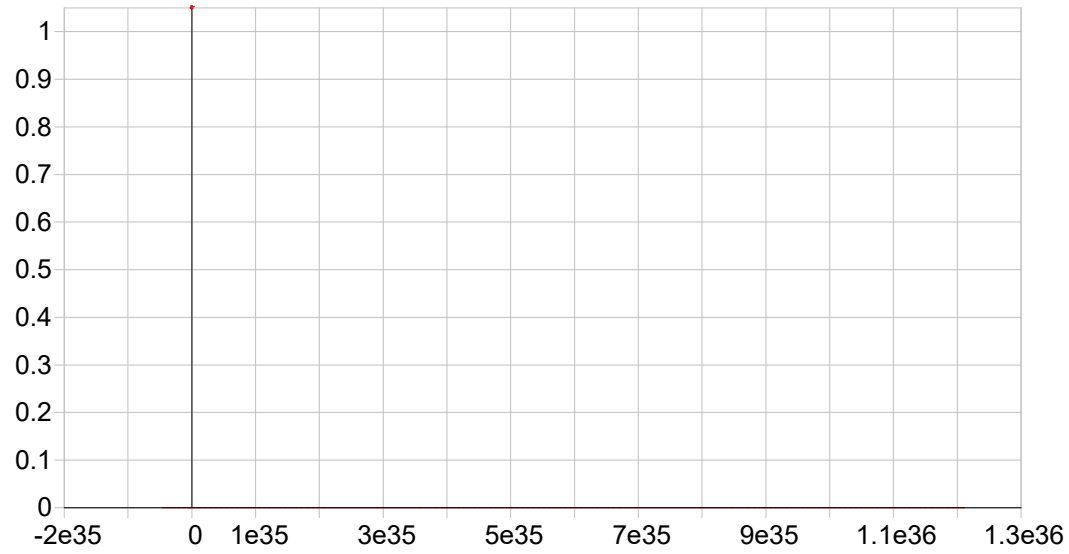
| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | <not fit> | Type of Fit: | Linear | Weighting: | 1/Conc |

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

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

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

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



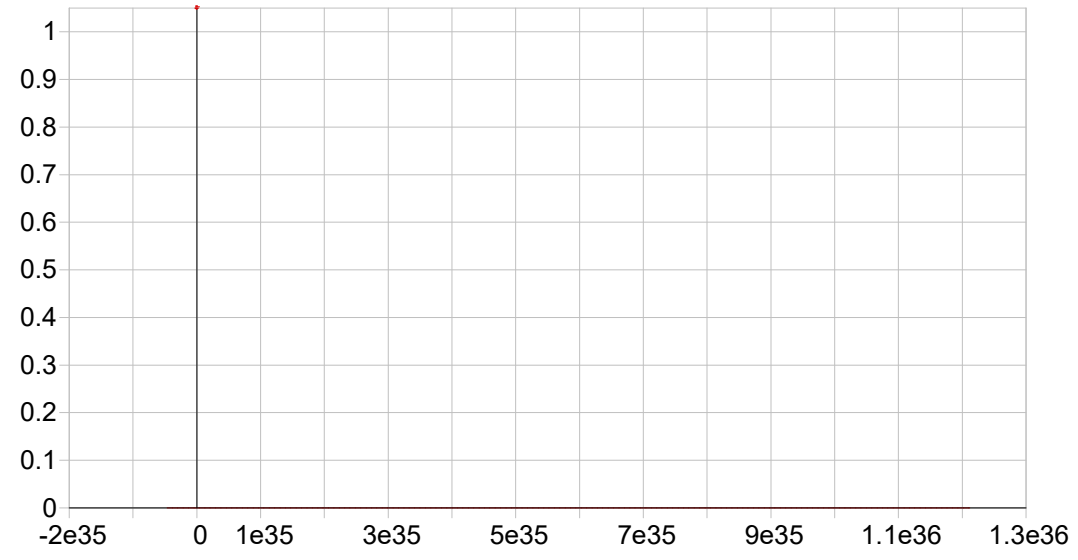

**Y 371.030 { 91}***

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

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

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

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

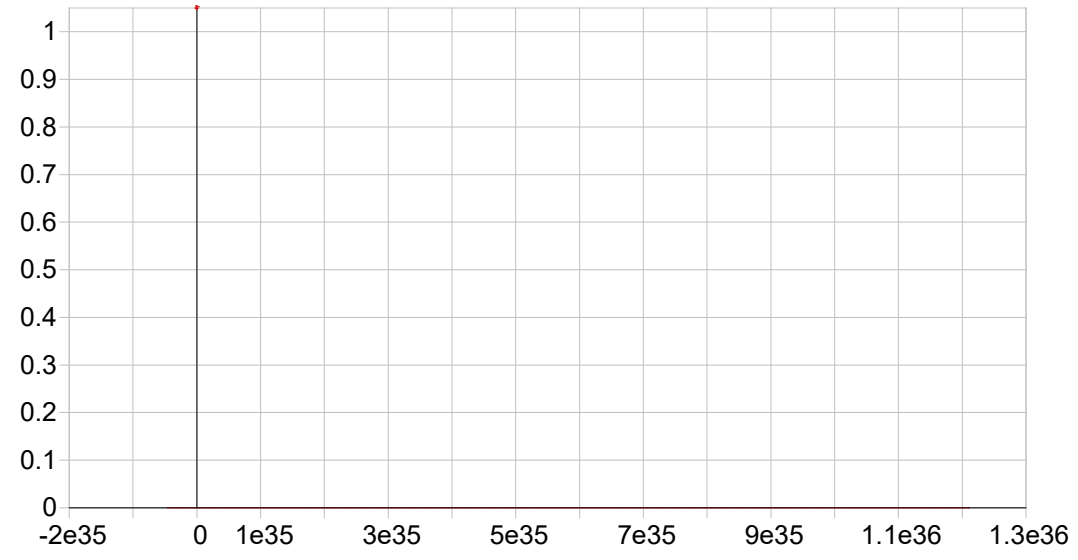



**Y 224.306 {150}***

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

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

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




**In 230.606 {446}***

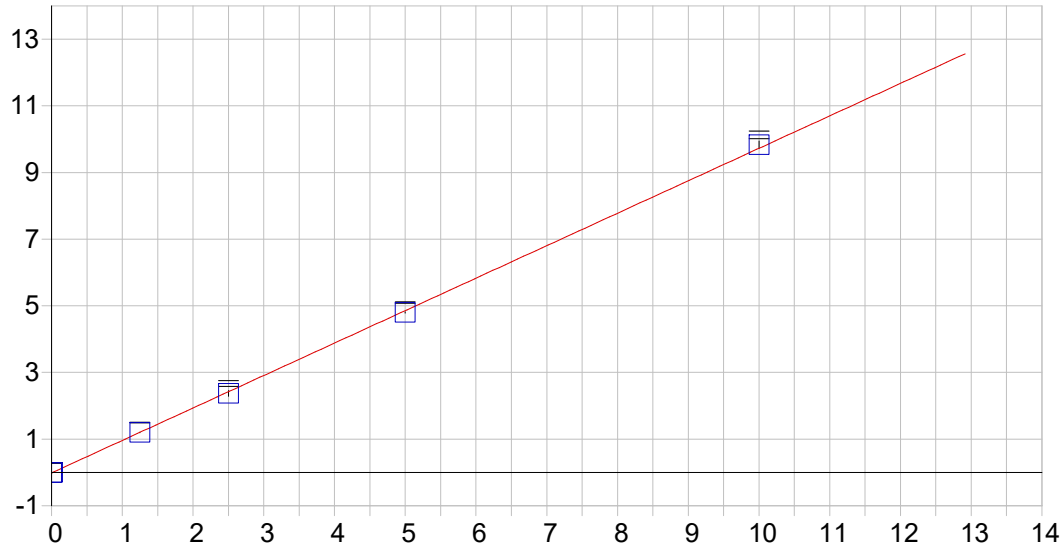
| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | <not fit> | Type of Fit: | Linear | Weighting: | 1/Conc |

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

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

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

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




**Li 670.784 { 50}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 12/17/2024 16:45:58 | Type of Fit: | Linear | Weighting: | 1/Conc |
| A0 (Offset): | -0.014322 | | Re-Slope: | 1.000000 | |
| A1 (Gain): | 0.974037 | | Y-int: | 0.000000 | |
| A2 (Curvature): | 0.000000 | | | | |
| n (Exponent): | 1.000000 | | | | |
| Correlation: | 0.999923 | Status: | OK. | | |
| Std Error of Est: | 0.000248 | | | | |
| Predicted MDL: | 0.006724 | | | | |
| Predicted MQL: | 0.022413 | | | | |

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

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

Sample Name: S0 Acquired: 12/17/2024 16:14:12 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S0 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | -.27204 | -.00022 | .00053 | -.00013 | .00098 | -.00445 | .01624 | -.00147 |
| Stddev | .31985 | .00028 | .00041 | .00025 | .00010 | .00374 | .00734 | .00180 |
| %RSD | 117.58 | 125.06 | 76.683 | 191.91 | 10.552 | 83.999 | 45.189 | 122.24 |
| #1 | .09144 | .00008 | .00077 | .00011 | .00101 | -.00597 | .01409 | -.00085 |
| #2 | -.51051 | -.00027 | .00006 | -.00011 | .00086 | -.00720 | .02442 | -.00007 |
| #3 | -.39705 | -.00047 | .00077 | -.00040 | .00106 | -.00019 | .01022 | -.00351 |

| Elem | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 | Mn2576 | Mg2790 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | .00077 | .00738 | .00004 | -.00025 | .00128 | .00023 | .00008 | -.00178 |
| Stddev | .00008 | .00330 | .00025 | .00015 | .00147 | .00088 | .00156 | .00090 |
| %RSD | 9.9008 | 44.734 | 661.89 | 61.006 | 114.85 | 386.19 | 2028.3 | 50.689 |
| #1 | .00081 | .00639 | -.00022 | -.00013 | .00288 | -.00070 | .00114 | -.00101 |
| #2 | .00082 | .00469 | .00028 | -.00043 | -.00003 | .00033 | .00080 | -.00156 |
| #3 | .00068 | .01107 | .00006 | -.00020 | .00100 | .00106 | -.00171 | -.00277 |

| Elem | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | -.00061 | -.00255 | -.00933 | -.00068 | -.00094 | .09573 | -.00278 | .00222 |
| Stddev | .00050 | .00014 | .00556 | .00206 | .00031 | .00402 | .00007 | .00282 |
| %RSD | 80.635 | 5.4515 | 59.573 | 300.54 | 32.607 | 4.2005 | 2.5599 | 126.89 |
| #1 | -.00104 | -.00248 | -.01574 | -.00002 | -.00104 | .09131 | -.00283 | .00019 |
| #2 | -.00074 | -.00271 | -.00615 | .00096 | -.00119 | .09916 | -.00270 | .00543 |
| #3 | -.00007 | -.00246 | -.00609 | -.00299 | -.00060 | .09673 | -.00282 | .00103 |

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | .00040 | .00013 | .02429 | .00015 | .00056 | -.00347 | -.01432 |
| Stddev | .00017 | .00003 | .00071 | .00010 | .00152 | .00541 | .00315 |
| %RSD | 43.552 | 19.222 | 2.9395 | 68.437 | 271.01 | 156.06 | 22.014 |
| #1 | .00031 | .00010 | .02412 | .00022 | .00105 | .00008 | -.01485 |
| #2 | .00060 | .00015 | .02368 | .00003 | -.00115 | -.00969 | -.01094 |
| #3 | .00029 | .00014 | .02508 | .00019 | .00178 | -.00078 | -.01718 |

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

Sample Name: S0 Acquired: 12/17/2024 16:14:12 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S0 Custom ID2: Custom ID3:
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1854.8 | 22761. | 1149.3 | 1564.2 | 2445.7 |
| Stddev | 1.8 | 42. | 5.8 | 7.0 | .4 |
| %RSD | .09939 | .18590 | .50694 | .44622 | .01666 |
| | | | | | |
| #1 | 1855.5 | 22715. | 1142.9 | 1559.6 | 2446.1 |
| #2 | 1852.7 | 22769. | 1150.7 | 1560.8 | 2445.5 |
| #3 | 1856.1 | 22798. | 1154.3 | 1572.3 | 2445.4 |

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

Sample Name: S1 Acquired: 12/17/2024 16:18:21 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S01 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1.1797 | .00110 | .00243 | .00182 | .01030 | .02134 | .73739 | .09818 |
| Stddev | .5555 | .00019 | .00037 | .00010 | .00013 | .00241 | .00517 | .00427 |
| %RSD | 47.083 | 17.080 | 15.104 | 5.4910 | 1.2456 | 11.296 | .70171 | 4.3446 |
| #1 | 1.0473 | .00117 | .00285 | .00171 | .01016 | .02408 | .73835 | .09804 |
| #2 | 1.7895 | .00089 | .00224 | .00191 | .01040 | .01957 | .74201 | .09399 |
| #3 | .70252 | .00125 | .00220 | .00184 | .01036 | .02037 | .73180 | .10252 |

| Elem | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 | Mn2576 | Mg2790 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | .01448 | .24884 | .00230 | .04283 | .00459 | .00235 | .00579 | .05226 |
| Stddev | .00015 | .00049 | .00022 | .00037 | .00184 | .00105 | .00078 | .00037 |
| %RSD | 1.0497 | .19792 | 9.6325 | .86148 | 40.068 | 44.470 | 13.464 | .70830 |
| #1 | .01459 | .24879 | .00236 | .04249 | .00517 | .00123 | .00499 | .05206 |
| #2 | .01454 | .24837 | .00205 | .04279 | .00253 | .00253 | .00655 | .05203 |
| #3 | .01430 | .24935 | .00247 | .04322 | .00606 | .00330 | .00582 | .05269 |

| Elem | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | .02280 | .00045 | .03771 | .00585 | .00109 | .22947 | -.00201 | .00193 |
| Stddev | .00032 | .00013 | .00392 | .00118 | .00069 | .00505 | .00019 | .00333 |
| %RSD | 1.4086 | 27.602 | 10.396 | 20.135 | 63.274 | 2.2018 | 9.2370 | 172.68 |
| #1 | .02245 | .00059 | .03500 | .00461 | .00031 | .23378 | -.00195 | .00511 |
| #2 | .02286 | .00034 | .04221 | .00599 | .00134 | .22391 | -.00187 | .00223 |
| #3 | .02309 | .00043 | .03594 | .00695 | .00162 | .23072 | -.00222 | -.00154 |

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | .00752 | .00396 | .68827 | .00118 | .03706 | 1.2065 | .00075 |
| Stddev | .00018 | .00006 | .00439 | .00004 | .00060 | .0001 | .00121 |
| %RSD | 2.3431 | 1.4543 | .63833 | 3.5314 | 1.6132 | .01136 | 161.09 |
| #1 | .00770 | .00390 | .69332 | .00123 | .03656 | 1.2064 | -.00030 |
| #2 | .00750 | .00398 | .68615 | .00116 | .03690 | 1.2065 | .00048 |
| #3 | .00735 | .00400 | .68533 | .00116 | .03772 | 1.2067 | .00206 |

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

Sample Name: S1 Acquired: 12/17/2024 16:18:21 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S01 Custom ID2: Custom ID3:
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1853.6 | 22773. | 1144.7 | 1574.5 | 2447.7 |
| Stddev | 6.6 | 80. | 6.6 | 11.2 | 8.2 |
| %RSD | .35671 | .35134 | .57602 | .71346 | .33588 |
| | | | | | |
| #1 | 1861.1 | 22753. | 1137.6 | 1566.8 | 2456.0 |
| #2 | 1851.3 | 22705. | 1145.9 | 1569.4 | 2447.6 |
| #3 | 1848.5 | 22861. | 1150.6 | 1587.4 | 2439.6 |

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

Sample Name: S2 Acquired: 12/17/2024 16:22:28 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S02 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 | Cd2144 |
|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 175.11 | .07111 | 1.3853 | .07923 | .21015 | 4.4371 | 8.6553 | 2.3349 | 1.7453 |
| Stddev | .75 | .00022 | .0063 | .00049 | .00098 | .0117 | .0218 | .0132 | .0105 |
| %RSD | .42564 | .31595 | .45553 | .61516 | .46717 | .26308 | .25216 | .56522 | .60178 |
| #1 | 174.60 | .07114 | 1.3859 | .07971 | .21080 | 4.4462 | 8.6721 | 2.3464 | 1.7498 |
| #2 | 175.96 | .07088 | 1.3787 | .07874 | .20902 | 4.4239 | 8.6307 | 2.3205 | 1.7333 |
| #3 | 174.76 | .07132 | 1.3912 | .07923 | .21062 | 4.4412 | 8.6633 | 2.3379 | 1.7528 |

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

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

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

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

Sample Name: S2 Acquired: 12/17/2024 16:22:28 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S02 Custom ID2: Custom ID3:
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1780.4 | 22439. | 1143.5 | 1519.8 | 2271.0 |
| Stddev | 8.4 | 69. | 3.3 | 5.2 | 14.0 |
| %RSD | .47188 | .30628 | .28770 | .34375 | .61736 |
| | | | | | |
| #1 | 1778.7 | 22508. | 1139.8 | 1522.9 | 2269.5 |
| #2 | 1789.4 | 22439. | 1144.3 | 1522.8 | 2285.8 |
| #3 | 1772.9 | 22371. | 1146.2 | 1513.8 | 2257.9 |

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

Sample Name: S3 Acquired: 12/17/2024 16:26:22 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S03 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 | Cd2144 |
|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 341.98 | .13879 | 2.7773 | .16029 | .42471 | 8.6497 | 16.851 | 4.4996 | 3.4963 |
| Stddev | 1.66 | .00086 | .0142 | .00043 | .00241 | .2778 | .545 | .1372 | .0200 |
| %RSD | .48415 | .62051 | .50977 | .26733 | .56713 | 3.2116 | 3.2350 | 3.0495 | .57257 |
| #1 | 341.21 | .13854 | 2.7741 | .16025 | .42431 | 8.3416 | 16.248 | 4.3472 | 3.4905 |
| #2 | 340.85 | .13808 | 2.7650 | .15989 | .42253 | 8.8812 | 17.310 | 4.6132 | 3.4798 |
| #3 | 343.88 | .13975 | 2.7928 | .16074 | .42729 | 8.7262 | 16.996 | 4.5384 | 3.5186 |

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

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

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

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

Sample Name: S3 Acquired: 12/17/2024 16:26:22 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S03 Custom ID2: Custom ID3:
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1704.2 | 22055. | 1151.1 | 1467.4 | 2169.8 |
| Stddev | 6.3 | 18. | 34.2 | 3.4 | 6.2 |
| %RSD | .36958 | .07966 | 2.9733 | .23240 | .28776 |
| | | | | | |
| #1 | 1702.9 | 22040. | 1189.5 | 1463.6 | 2169.4 |
| #2 | 1711.0 | 22075. | 1123.6 | 1470.2 | 2176.3 |
| #3 | 1698.6 | 22052. | 1140.4 | 1468.5 | 2163.8 |

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

Sample Name: S4 Acquired: 12/17/2024 16:30:09 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S04 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 | Cd2144 |
|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 673.22 | .27843 | 5.6639 | .33081 | .89536 | 17.571 | 34.375 | 8.8371 | 7.0874 |
| Stddev | 2.49 | .00112 | .0101 | .00115 | .00322 | .015 | .033 | .0309 | .0071 |
| %RSD | .36989 | .40221 | .17843 | .34694 | .35951 | .08288 | .09739 | .34952 | .10024 |
| #1 | 674.13 | .27727 | 5.6589 | .33087 | .89382 | 17.576 | 34.338 | 8.8148 | 7.0877 |
| #2 | 670.40 | .27850 | 5.6574 | .32964 | .89319 | 17.555 | 34.403 | 8.8241 | 7.0802 |
| #3 | 675.13 | .27951 | 5.6756 | .33193 | .89906 | 17.583 | 34.383 | 8.8723 | 7.0944 |

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

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

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

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

Sample Name: S4 Acquired: 12/17/2024 16:30:09 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S04 Custom ID2: Custom ID3:
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1578.2 | 21406. | 1148.9 | 1383.0 | 2062.2 |
| Stddev | 1.4 | 40. | 4.3 | 11.7 | 4.0 |
| %RSD | .08621 | .18716 | .37818 | .84915 | .19326 |
| | | | | | |
| #1 | 1579.7 | 21367. | 1153.0 | 1376.4 | 2061.5 |
| #2 | 1577.0 | 21406. | 1149.3 | 1376.0 | 2058.6 |
| #3 | 1578.0 | 21447. | 1144.3 | 1396.6 | 2066.5 |

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

Sample Name: S5 Acquired: 12/17/2024 16:33:55 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S05 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 | Cd2144 |
|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1315.4 | .55998 | 11.621 | .73790 | 2.0469 | 35.984 | 70.469 | 17.837 | 14.368 |
| Stddev | .8 | .00161 | .039 | .00349 | .0126 | .220 | .482 | .198 | .054 |
| %RSD | .06143 | .28827 | .33357 | .47356 | .61390 | .61261 | .68414 | 1.1122 | .37527 |
| #1 | 1316.4 | .56108 | 11.642 | .73894 | 2.0475 | 35.955 | 70.476 | 17.774 | 14.407 |
| #2 | 1314.9 | .56073 | 11.646 | .74076 | 2.0592 | 36.217 | 70.948 | 18.059 | 14.392 |
| #3 | 1315.1 | .55813 | 11.577 | .73401 | 2.0341 | 35.779 | 69.984 | 17.677 | 14.307 |

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

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

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

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

Sample Name: S5 Acquired: 12/17/2024 16:33:55 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S05 Custom ID2: Custom ID3:
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1350.9 | 20513. | 1124.1 | 1226.9 | 1927.3 |
| Stddev | 4.6 | 106. | 8.0 | 6.0 | 5.4 |
| %RSD | .34392 | .51858 | .71333 | .48674 | .27921 |
| | | | | | |
| #1 | 1349.1 | 20540. | 1129.4 | 1229.4 | 1923.0 |
| #2 | 1347.4 | 20604. | 1114.8 | 1231.2 | 1925.5 |
| #3 | 1356.1 | 20396. | 1127.9 | 1220.1 | 1933.3 |

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

Sample Name: S6 Acquired: 12/17/2024 16:37:42 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S06 Custom ID2: Custom ID3:
Comment:

| Elem | Al3961 | Ca3736 | Fe2598 | Mg2790 | Na8183 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 97.098 | 38.255 | 17.398 | 8.5536 | 7.6691 |
| Stddev | .317 | .030 | .050 | .0310 | .0229 |
| %RSD | .32634 | .07954 | .28541 | .36272 | .29863 |
| | | | | | |
| #1 | 97.341 | 38.263 | 17.443 | 8.5754 | 7.6695 |
| #2 | 96.739 | 38.221 | 17.345 | 8.5181 | 7.6460 |
| #3 | 97.212 | 38.280 | 17.406 | 8.5672 | 7.6918 |

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Sample Name: PB165495BL Acquired: 12/17/2024 18:13:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: PBS549 Custom ID2: Custom ID3:
Comment:

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

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

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

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

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

Sample Name: PB165495BL Acquired: 12/17/2024 18:13:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: PBS549 Custom ID2: Custom ID3:
Comment:

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

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

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

Sample Name: PB165495BS Acquired: 12/17/2024 18:17:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: LCS549 Custom ID2: Custom ID3:
Comment:

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

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

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

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

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

Sample Name: PB165495BS Acquired: 12/17/2024 18:17:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: LCS549 Custom ID2: Custom ID3:
Comment:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Sample Name: P5060-08 Acquired: 12/17/2024 21:00:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKY9 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1313002 | -.048327 | .7959849 | .0695633 | .0302613 | 79.36924 |
| Stddev | .0023692 | .004060 | .0021918 | .0031595 | .0028301 | .77316 |
| %RSD | 1.804380 | 8.400203 | .2753526 | 4.541887 | 9.352278 | .9741307 |
| #1 | .1313642 | -.052108 | .7982472 | .0706126 | .0270433 | 79.75506 |
| #2 | .1288997 | -.048837 | .7958363 | .0660126 | .0323631 | 79.87357 |
| #3 | .1336367 | -.044037 | .7938712 | .0720646 | .0313775 | 78.47910 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.242435 | .0088068 | .0053259 | 68.10571 | .1198109 | .1190477 |
| Stddev | .011954 | .0001617 | .0000742 | .76210 | .0010867 | .0002250 |
| %RSD | .9621203 | 1.835719 | 1.392637 | 1.118991 | .9070195 | .1889773 |
| #1 | 1.247713 | .0089423 | .0053189 | 68.41577 | .1210491 | .1190994 |
| #2 | 1.250842 | .0086279 | .0052555 | 68.66391 | .1190156 | .1192424 |
| #3 | 1.228751 | .0088503 | .0054034 | 67.23746 | .1193679 | .1188014 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2236271 | 180.7655 | 8.701339 | 30.61731 | .1714822 | .0043695 |
| Stddev | .0148233 | 1.6367 | .097028 | .49468 | .0005574 | .0002558 |
| %RSD | 6.628573 | .9054301 | 1.115097 | 1.615689 | .3250460 | 5.854226 |
| #1 | .2374337 | 181.6365 | 8.750556 | 30.71146 | .1721156 | .0042506 |
| #2 | .2254852 | 181.7827 | 8.763896 | 31.05814 | .1712646 | .0046631 |
| #3 | .2079623 | 178.8775 | 8.589565 | 30.08232 | .1710665 | .0041947 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8296906 | .1942894 | .6933580 | 8.617750 | F 11.00663 | -.014409 |
| Stddev | .3224790 | .0071539 | .0059507 | .270123 | .02176 | .002678 |
| %RSD | 38.86738 | 3.682068 | .8582461 | 3.134500 | .1977130 | 18.58815 |
| #1 | .4579963 | .1893049 | .6908828 | 8.528746 | 11.00961 | -.012495 |
| #2 | 1.034908 | .1910768 | .7001468 | 8.921145 | 10.98353 | -.017470 |
| #3 | .996167 | .2024863 | .6890444 | 8.403360 | 11.02674 | -.013261 |

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

Sample Name: P5060-08 Acquired: 12/17/2024 21:00:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKY9 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0044619 | 2.319029 | 8.058153 | .0590130 | 1.043208 | -.000791 |
| Stddev | .0003206 | .002872 | .043075 | .0018709 | .010253 | .000133 |
| %RSD | 7.185800 | .1238634 | .5345476 | 3.170318 | .9828189 | 16.79331 |
| | | | | | | |
| #1 | .0047302 | 2.320337 | 8.097445 | .0578616 | 1.048283 | -.000765 |
| #2 | .0045488 | 2.315736 | 8.064917 | .0611717 | 1.049933 | -.000935 |
| #3 | .0041068 | 2.321015 | 8.012097 | .0580056 | 1.031407 | -.000673 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1250513 |
| Stddev | .0028990 |
| %RSD | 2.318273 |
| | |
| #1 | .1240587 |
| #2 | .1283162 |
| #3 | .1227789 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2373.610 | 29208.47 | 1497.580 | 2034.776 | 2431.195 |
| Stddev | 7.643 | 70.63 | 9.459 | 7.926 | 8.867 |
| %RSD | .3220152 | .2418096 | .6316137 | .3895110 | .3646983 |
| | | | | | |
| #1 | 2378.271 | 29129.31 | 1490.972 | 2025.624 | 2437.877 |
| #2 | 2377.770 | 29265.04 | 1493.353 | 2039.339 | 2434.572 |
| #3 | 2364.789 | 29231.05 | 1508.416 | 2039.365 | 2421.136 |

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

Sample Name: P5060-09 Acquired: 12/17/2024 21:04:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKZ0 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1702470 | -.047595 | .5818381 | .0701130 | .0312009 | 71.77133 |
| Stddev | .0014587 | .004283 | .0047396 | .0039794 | .0014568 | .41999 |
| %RSD | .8568207 | 8.998038 | .8145881 | 5.675727 | 4.669040 | .5851843 |
| #1 | .1712857 | -.046054 | .5825651 | .0656404 | .0321726 | 71.71764 |
| #2 | .1685793 | -.052435 | .5767770 | .0714365 | .0319042 | 72.21558 |
| #3 | .1708760 | -.044297 | .5861722 | .0732620 | .0295259 | 71.38075 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.295620 | .0083203 | .0054284 | 43.74309 | .1076416 | .1065450 |
| Stddev | .006804 | .0001035 | .0000410 | .19083 | .0011084 | .0002220 |
| %RSD | .5251570 | 1.243942 | .7546224 | .4362567 | 1.029716 | .2083712 |
| #1 | 1.296330 | .0082858 | .0054201 | 43.79804 | .1082266 | .1066577 |
| #2 | 1.302041 | .0084367 | .0054728 | 43.90041 | .1083349 | .1062892 |
| #3 | 1.288488 | .0082385 | .0053921 | 43.53081 | .1063632 | .1066880 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1788098 | 174.7576 | 10.14111 | 21.27540 | .1421642 | .0050565 |
| Stddev | .0081703 | .9519 | .06404 | .18978 | .0005320 | .0003189 |
| %RSD | 4.569269 | .5446874 | .6314478 | .8920279 | .3742528 | 6.306153 |
| #1 | .1751294 | 174.5670 | 10.12190 | 21.28138 | .1425849 | .0052059 |
| #2 | .1881729 | 175.7904 | 10.21255 | 21.46212 | .1415662 | .0046903 |
| #3 | .1731270 | 173.9155 | 10.08888 | 21.08270 | .1423416 | .0052732 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6158204 | .1805255 | .5740711 | 8.197207 | F 10.88291 | -.017666 |
| Stddev | .3482302 | .0132733 | .0193224 | .218763 | .01811 | .001610 |
| %RSD | 56.54736 | 7.352599 | 3.365854 | 2.668753 | .1663858 | 9.111973 |
| #1 | .6093301 | .1955904 | .5963815 | 8.214780 | 10.88554 | -.016151 |
| #2 | .9672504 | .1705501 | .5631075 | 8.406653 | 10.86363 | -.017491 |
| #3 | .2708808 | .1754361 | .5627241 | 7.970187 | 10.89956 | -.019357 |

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

Sample Name: P5060-09 Acquired: 12/17/2024 21:04:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKZ0 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0043580 | 2.114488 | 8.866398 | .0503166 | .6822303 | -.007297 |
| Stddev | .0003178 | .014720 | .053766 | .0010478 | .0073520 | .000446 |
| %RSD | 7.291726 | .6961680 | .6063973 | 2.082373 | 1.077642 | 6.117032 |
| | | | | | | |
| #1 | .0040130 | 2.127362 | 8.827104 | .0515168 | .6859929 | -.007134 |
| #2 | .0044221 | 2.098439 | 8.927671 | .0495843 | .6869396 | -.006956 |
| #3 | .0046388 | 2.117664 | 8.844419 | .0498487 | .6737586 | -.007802 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1004990 |
| Stddev | .0032826 |
| %RSD | 3.266347 |
| | |
| #1 | .0983857 |
| #2 | .1042807 |
| #3 | .0988305 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2367.162 | 28885.70 | 1482.094 | 2010.107 | 2483.885 |
| Stddev | 2.277 | 129.64 | 8.063 | 13.786 | 2.431 |
| %RSD | .0962035 | .4487902 | .5440216 | .6858336 | .0978693 |
| | | | | | |
| #1 | 2365.985 | 28746.49 | 1487.265 | 1994.459 | 2483.303 |
| #2 | 2369.787 | 28907.64 | 1472.804 | 2015.397 | 2486.555 |
| #3 | 2365.715 | 29002.96 | 1486.214 | 2020.464 | 2481.798 |

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

Sample Name: P5060-10 Acquired: 12/17/2024 21:07:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKZ1 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1240488 | -.065298 | .2375002 | .0825917 | .0324002 | 85.36184 | 1.257922 |
| Stddev | .0035832 | .005709 | .0007899 | .0014978 | .0009805 | .41227 | .004197 |
| %RSD | 2.888571 | 8.742209 | .3325778 | 1.813524 | 3.026166 | .4829683 | .3336592 |
| #1 | .1238373 | -.071361 | .2375149 | .0843193 | .0331672 | 85.77402 | 1.261736 |
| #2 | .1205761 | -.064508 | .2367030 | .0817981 | .0312955 | 84.94948 | 1.253425 |
| #3 | .1277332 | -.060027 | .2382826 | .0816576 | .0327379 | 85.36203 | 1.258605 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0090125 | .0052254 | 36.38829 | .1195876 | .1155976 | .1527667 | 195.1544 |
| Stddev | .0002227 | .0001673 | .21896 | .0004733 | .0011967 | .0049599 | .9489 |
| %RSD | 2.471140 | 3.201928 | .6017312 | .3957674 | 1.035274 | 3.246741 | .4862444 |
| #1 | .0092631 | .0051037 | 36.63160 | .1190456 | .1145941 | .1493315 | 196.2463 |
| #2 | .0089372 | .0054162 | 36.32617 | .1197980 | .1169222 | .1584530 | 194.6881 |
| #3 | .0088372 | .0051563 | 36.20710 | .1199191 | .1152767 | .1505156 | 194.5289 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 10.25020 | 25.05749 | .1663419 | .0052733 | 1.065894 | .1986105 | .4344222 |
| Stddev | .04626 | .07835 | .0008115 | .0008449 | .670353 | .0080111 | .0179521 |
| %RSD | .4513569 | .3126837 | .4878208 | 16.02157 | 62.89112 | 4.033550 | 4.132412 |
| #1 | 10.30162 | 25.11110 | .1656701 | .0061249 | .820083 | .1966084 | .4302079 |
| #2 | 10.23703 | 25.09380 | .1661121 | .0044353 | .553146 | .1917904 | .4189521 |
| #3 | 10.21194 | 24.96757 | .1672435 | .0052598 | 1.824453 | .2074327 | .4541066 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 6.056538 | 9.526753 | -.026534 | .0035646 | 1.376174 | 8.169108 | .0319202 |
| Stddev | .037079 | .051637 | .002481 | .0002884 | .008677 | .100021 | .0020161 |
| %RSD | .6122106 | .5420203 | 9.348682 | 8.091536 | .6305454 | 1.224378 | 6.315971 |
| #1 | 6.044915 | 9.467161 | -.026612 | .0038851 | 1.367944 | 8.276244 | .0301342 |
| #2 | 6.098035 | 9.554839 | -.024015 | .0033260 | 1.375340 | 8.152898 | .0315199 |
| #3 | 6.026663 | 9.558260 | -.028974 | .0034826 | 1.385238 | 8.078182 | .0341063 |

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

Sample Name: P5060-10 Acquired: 12/17/2024 21:07:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKZ1 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .6956031 | -.048588 | .1239820 |
| Stddev | .0027811 | .000611 | .0049999 |
| %RSD | .3998101 | 1.257913 | 4.032759 |
| | | | |
| #1 | .6944428 | -.049161 | .1297191 |
| #2 | .6935901 | -.047945 | .1216731 |
| #3 | .6987765 | -.048659 | .1205538 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2378.612 | 29213.15 | 1499.191 | 2030.775 | 2417.387 |
| Stddev | 3.921 | 84.62 | 16.722 | 7.522 | 5.706 |
| %RSD | .1648234 | .2896596 | 1.115402 | .3704075 | .2360459 |
| | | | | | |
| #1 | 2382.085 | 29194.13 | 1479.907 | 2024.576 | 2423.717 |
| #2 | 2374.361 | 29305.66 | 1507.995 | 2039.144 | 2412.637 |
| #3 | 2379.391 | 29139.65 | 1509.672 | 2028.605 | 2415.807 |

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

Sample Name: P5060-11 Acquired: 12/17/2024 21:11:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKZ2 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1108897 | -.061867 | .2076658 | .0838500 | .0343442 | 72.25265 |
| Stddev | .0044120 | .011063 | .0015292 | .0067727 | .0025286 | .42604 |
| %RSD | 3.978705 | 17.88255 | .7363553 | 8.077136 | 7.362558 | .5896566 |
| #1 | .1071051 | -.049294 | .2078262 | .0908521 | .0372346 | 72.62434 |
| #2 | .1098285 | -.066193 | .2060627 | .0833651 | .0332567 | 71.78770 |
| #3 | .1157355 | -.070114 | .2091084 | .0773328 | .0325413 | 72.34590 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.024447 | .0080810 | .0042747 | 51.33842 | .1125173 | .1254186 |
| Stddev | .004134 | .0001239 | .0001672 | .28428 | .0006199 | .0005826 |
| %RSD | .4035631 | 1.533213 | 3.910282 | .5537354 | .5508923 | .4645555 |
| #1 | 1.028825 | .0079880 | .0040838 | 51.65674 | .1130594 | .1257137 |
| #2 | 1.020609 | .0082217 | .0043946 | 51.10983 | .1118415 | .1247475 |
| #3 | 1.023907 | .0080334 | .0043458 | 51.24870 | .1126510 | .1257948 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1453709 | 209.8686 | 10.95438 | 36.24223 | .1992526 | .0045482 |
| Stddev | .0025923 | .9293 | .04275 | .28129 | .0007837 | .0002672 |
| %RSD | 1.783220 | .4428005 | .3902782 | .7761453 | .3933150 | 5.874767 |
| #1 | .1442666 | 210.9395 | 11.00213 | 36.48314 | .1998456 | .0044168 |
| #2 | .1435136 | 209.2746 | 10.91967 | 36.31044 | .1983641 | .0043721 |
| #3 | .1483325 | 209.3916 | 10.94133 | 35.93310 | .1995481 | .0048556 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8759994 | .2068846 | .5252544 | 5.209684 | F 11.28506 | -.031793 |
| Stddev | .1234419 | .0130416 | .0105713 | .206045 | .03886 | .003394 |
| %RSD | 14.09155 | 6.303811 | 2.012605 | 3.955042 | .3443899 | 10.67657 |
| #1 | .8381003 | .1992308 | .5180745 | 5.381124 | 11.27011 | -.034716 |
| #2 | 1.013947 | .2219431 | .5202951 | 4.981098 | 11.25589 | -.032593 |
| #3 | .775950 | .1994800 | .5373935 | 5.266831 | 11.32918 | -.028070 |

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

Sample Name: P5060-11 Acquired: 12/17/2024 21:11:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKZ2 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0034470 | .8388579 | 7.632691 | .0297784 | .7900725 | -.061554 |
| Stddev | .0001074 | .0044803 | .071316 | .0004648 | .0019122 | .000930 |
| %RSD | 3.114941 | .5340981 | .9343518 | 1.560942 | .2420331 | 1.511233 |
| | | | | | | |
| #1 | .0033329 | .8350347 | 7.709733 | .0300365 | .7907116 | -.062395 |
| #2 | .0035461 | .8437879 | 7.619358 | .0300568 | .7879226 | -.061711 |
| #3 | .0034620 | .8377511 | 7.568982 | .0292418 | .7915834 | -.060555 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1141309 |
| Stddev | .0017758 |
| %RSD | 1.555925 |
| | |
| #1 | .1160699 |
| #2 | .1125837 |
| #3 | .1137391 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2442.464 | 30131.28 | 1554.103 | 2097.176 | 2417.796 |
| Stddev | 12.094 | 173.58 | 8.908 | 11.184 | 10.725 |
| %RSD | .4951469 | .5760921 | .5731976 | .5333030 | .4435851 |
| | | | | | |
| #1 | 2450.112 | 30094.52 | 1543.932 | 2090.989 | 2424.261 |
| #2 | 2448.759 | 30320.30 | 1557.856 | 2110.087 | 2423.711 |
| #3 | 2428.521 | 29979.02 | 1560.519 | 2090.452 | 2405.416 |

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

Sample Name: P5060-12 Acquired: 12/17/2024 21:15:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL56 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1190622 | -.026896 | 1.558902 | .0543380 | .0241335 | 64.51443 |
| Stddev | .0008056 | .006000 | .004005 | .0024313 | .0021184 | .30372 |
| %RSD | .6766574 | 22.30899 | .2569220 | 4.474357 | 8.777749 | .4707858 |
| #1 | .1182508 | -.024978 | 1.560544 | .0529538 | .0218599 | 64.31463 |
| #2 | .1198620 | -.033621 | 1.554337 | .0571453 | .0260518 | 64.36473 |
| #3 | .1190738 | -.022089 | 1.561825 | .0529148 | .0244889 | 64.86395 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.519850 | .0083080 | .0091065 | 190.7505 | .1705035 | .1227207 |
| Stddev | .009168 | .0001196 | .0000949 | .6130 | .0000974 | .0009870 |
| %RSD | .6032168 | 1.439728 | 1.042107 | .3213508 | .0571540 | .8042624 |
| #1 | 1.514320 | .0082506 | .0090058 | 190.5205 | .1704206 | .1217231 |
| #2 | 1.514798 | .0082280 | .0091194 | 190.2858 | .1706108 | .1227423 |
| #3 | 1.530433 | .0084455 | .0091942 | 191.4452 | .1704790 | .1236967 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3673518 | 162.7389 | 9.131484 | 38.13220 | .1933235 | .0058360 |
| Stddev | .0026563 | .3557 | .025899 | .07619 | .0007717 | .0016167 |
| %RSD | .7231036 | .2185519 | .2836202 | .1997962 | .3991848 | 27.70199 |
| #1 | .3702476 | 162.8269 | 9.115376 | 38.05614 | .1928249 | .0040239 |
| #2 | .3650282 | 162.3475 | 9.117719 | 38.13196 | .1929332 | .0063536 |
| #3 | .3667797 | 163.0424 | 9.161359 | 38.20851 | .1942124 | .0071306 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3672031 | .1836720 | 1.725936 | 12.61374 | F 17.44874 | .0163150 |
| Stddev | .4449748 | .0058407 | .005527 | .15904 | .07467 | .0009182 |
| %RSD | 121.1795 | 3.179970 | .3202576 | 1.260834 | .4279520 | 5.628170 |
| #1 | .6406805 | .1832416 | 1.719985 | 12.66121 | 17.38859 | .0165174 |
| #2 | -.146245 | .1897160 | 1.730909 | 12.43638 | 17.42532 | .0171152 |
| #3 | .607174 | .1780584 | 1.726914 | 12.74364 | 17.53232 | .0153125 |

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

Sample Name: P5060-12 Acquired: 12/17/2024 21:15:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL56 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0082617 | 5.631111 | 8.777679 | .1370254 | .6650911 | .1795889 |
| Stddev | .0004246 | .037532 | .049284 | .0016704 | .0034093 | .0005745 |
| %RSD | 5.139509 | .6665166 | .5614733 | 1.219019 | .5126122 | .3198710 |
| | | | | | | |
| #1 | .0085394 | 5.594703 | 8.766116 | .1373003 | .6690069 | .1794636 |
| #2 | .0084728 | 5.628956 | 8.735205 | .1352346 | .6627824 | .1790875 |
| #3 | .0077729 | 5.669674 | 8.831717 | .1385413 | .6634839 | .1802157 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1002654 |
| Stddev | .0025667 |
| %RSD | 2.559892 |
| | |
| #1 | .1025675 |
| #2 | .1007309 |
| #3 | .0974978 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2261.314 | 27643.27 | 1444.755 | 1922.838 | 2373.087 |
| Stddev | 2.935 | 95.82 | 8.872 | 10.565 | 6.785 |
| %RSD | .1297965 | .3466339 | .6141178 | .5494496 | .2859005 |
| | | | | | |
| #1 | 2259.888 | 27624.69 | 1448.953 | 1923.460 | 2374.547 |
| #2 | 2264.689 | 27558.11 | 1450.749 | 1911.976 | 2379.022 |
| #3 | 2259.364 | 27747.03 | 1434.562 | 1933.078 | 2365.691 |

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

Sample Name: P5060-13 Acquired: 12/17/2024 21:19:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL57 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0964488 | -.069029 | .1916517 | .0837544 | .0347823 | 73.00416 |
| Stddev | .0042117 | .003137 | .0023519 | .0078436 | .0015733 | .50189 |
| %RSD | 4.366804 | 4.544926 | 1.227193 | 9.365042 | 4.523170 | .6874763 |
| | | | | | | |
| #1 | .1012075 | -.069539 | .1940451 | .0911460 | .0337621 | 73.28373 |
| #2 | .0932005 | -.065668 | .1893436 | .0845914 | .0365942 | 73.30401 |
| #3 | .0949386 | -.071880 | .1915663 | .0755258 | .0339906 | 72.42475 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .9248308 | .0084476 | .0035532 | 49.44171 | .1178484 | .1187593 |
| Stddev | .0044190 | .0000993 | .0001239 | .29928 | .0019819 | .0008601 |
| %RSD | .4778205 | 1.175395 | 3.486348 | .6053143 | 1.681734 | .7242288 |
| | | | | | | |
| #1 | .9258909 | .0084431 | .0034360 | 49.46251 | .1199717 | .1182213 |
| #2 | .9286234 | .0085491 | .0036828 | 49.73005 | .1160475 | .1197513 |
| #3 | .9199782 | .0083507 | .0035406 | 49.13258 | .1175259 | .1183054 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1352913 | 201.6340 | 7.604644 | 34.53670 | .1928662 | .0042017 |
| Stddev | .0049509 | .7797 | .038268 | .28722 | .0016974 | .0002352 |
| %RSD | 3.659418 | .3867012 | .5032145 | .8316278 | .8800885 | 5.597969 |
| | | | | | | |
| #1 | .1355945 | 202.1526 | 7.619534 | 34.72792 | .1921844 | .0043686 |
| #2 | .1400836 | 202.0121 | 7.633228 | 34.67576 | .1916157 | .0043039 |
| #3 | .1301957 | 200.7373 | 7.561169 | 34.20642 | .1947985 | .0039327 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.326818 | .2106337 | .4575780 | 4.791088 | F 10.58249 | -.040637 |
| Stddev | .678844 | .0153251 | .0052600 | .157212 | .05940 | .002852 |
| %RSD | 51.16328 | 7.275693 | 1.149530 | 3.281348 | .5612760 | 7.018904 |
| | | | | | | |
| #1 | 2.052881 | .2283038 | .4523124 | 4.927109 | 10.54386 | -.043918 |
| #2 | .707948 | .2026252 | .4575892 | 4.827189 | 10.55273 | -.039238 |
| #3 | 1.219625 | .2009721 | .4628324 | 4.618965 | 10.65088 | -.038754 |

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

Sample Name: P5060-13 Acquired: 12/17/2024 21:19:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL57 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0027310 | .8139531 | 6.883761 | .0267726 | .7667301 | .0124368 |
| Stddev | .0004361 | .0072575 | .042822 | .0008610 | .0026261 | .0002898 |
| %RSD | 15.96917 | .8916326 | .6220786 | 3.216066 | .3425054 | 2.330157 |
| #1 | .0022935 | .8056153 | 6.910278 | .0258469 | .7653140 | .0124210 |
| #2 | .0031658 | .8188515 | 6.906646 | .0275496 | .7697603 | .0127343 |
| #3 | .0027338 | .8173924 | 6.834358 | .0269213 | .7651160 | .0121553 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1152149 |
| Stddev | .0032992 |
| %RSD | 2.863502 |
| #1 | .1115388 |
| #2 | .1179187 |
| #3 | .1161873 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2388.834 | 29391.87 | 1504.563 | 2050.896 | 2412.091 |
| Stddev | 6.470 | 242.43 | 6.714 | 15.941 | 9.883 |
| %RSD | .2708304 | .8248110 | .4462331 | .7772723 | .4097319 |
| #1 | 2390.670 | 29354.60 | 1500.691 | 2046.104 | 2416.816 |
| #2 | 2394.187 | 29650.77 | 1500.682 | 2068.683 | 2418.725 |
| #3 | 2381.645 | 29170.23 | 1512.315 | 2037.900 | 2400.733 |

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

Sample Name: P5060-14 Acquired: 12/17/2024 21:23:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKX1 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1014522 | -.025289 | .2160163 | .0400439 | .0207889 | 41.54582 |
| Stddev | .0073360 | .003135 | .0039946 | .0037447 | .0018948 | .06530 |
| %RSD | 7.230971 | 12.39584 | 1.849200 | 9.351363 | 9.114710 | .1571692 |
| #1 | .0997844 | -.024255 | .2205253 | .0428889 | .0228253 | 41.56328 |
| #2 | .1094785 | -.028811 | .2129202 | .0414414 | .0190777 | 41.47356 |
| #3 | .0950938 | -.022803 | .2146035 | .0358015 | .0204637 | 41.60060 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3834429 | .0066391 | .0041766 | F 1278.534 | .0631000 | .1500534 |
| Stddev | .0010254 | .0001274 | .0001568 | 3.104 | .0014425 | .0003065 |
| %RSD | .2674211 | 1.918516 | 3.753307 | .2427851 | 2.286006 | .2042610 |
| #1 | .3846081 | .0065807 | .0040494 | 1275.325 | .0621717 | .1503463 |
| #2 | .3830425 | .0067852 | .0043517 | 1278.755 | .0623665 | .1497349 |
| #3 | .3826781 | .0065513 | .0041287 | 1281.522 | .0647618 | .1500790 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3089883 | 189.0606 | 9.169113 | 164.4113 | .1575154 | .0032624 |
| Stddev | .0049089 | .3222 | .005166 | .6775 | .0025642 | .0010735 |
| %RSD | 1.588711 | .1704332 | .0563398 | .4121023 | 1.627897 | 32.90323 |
| #1 | .3137228 | 188.9524 | 9.167898 | 164.0200 | .1604418 | .0040945 |
| #2 | .3093202 | 189.4230 | 9.174778 | 165.1936 | .1564424 | .0036421 |
| #3 | .3039218 | 188.8064 | 9.164663 | 164.0202 | .1556620 | .0020508 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.521141 | .1679401 | .5127987 | 7.924419 | 6.705163 | .0042417 |
| Stddev | .442049 | .0059144 | .0228364 | .381291 | .023667 | .0010244 |
| %RSD | 29.06033 | 3.521735 | 4.453283 | 4.811599 | .3529651 | 24.15067 |
| #1 | 1.294824 | .1616979 | .5183577 | 7.781420 | 6.718377 | .0039268 |
| #2 | 2.030522 | .1734605 | .5323424 | 8.356538 | 6.677839 | .0053866 |
| #3 | 1.238077 | .1686620 | .4876961 | 7.635298 | 6.719271 | .0034117 |

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

Sample Name: P5060-14 Acquired: 12/17/2024 21:23:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKX1 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0022917 | 1.390758 | 5.694857 | .0362613 | 1.989022 | 1.154098 |
| Stddev | .0004868 | .006256 | .015320 | .0012572 | .009691 | .002450 |
| %RSD | 21.24361 | .4498611 | .2690220 | 3.466921 | .4872057 | .2123222 |
| #1 | .0017310 | 1.397085 | 5.681722 | .0376140 | 1.982633 | 1.152744 |
| #2 | .0026066 | 1.384575 | 5.711687 | .0360410 | 2.000172 | 1.156926 |
| #3 | .0025375 | 1.390613 | 5.691161 | .0351288 | 1.984261 | 1.152623 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1510577 |
| Stddev | .0035283 |
| %RSD | 2.335753 |
| #1 | .1506567 |
| #2 | .1477470 |
| #3 | .1547694 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2071.685 | 25495.30 | 1375.213 | 1768.764 | 2030.628 |
| Stddev | 4.784 | 57.88 | 4.401 | 5.257 | 9.346 |
| %RSD | .2309348 | .2270078 | .3199960 | .2972251 | .4602731 |
| #1 | 2067.750 | 25537.55 | 1380.288 | 1774.321 | 2022.348 |
| #2 | 2077.010 | 25519.02 | 1372.902 | 1763.869 | 2040.762 |
| #3 | 2070.295 | 25429.33 | 1372.451 | 1768.101 | 2028.773 |

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

Sample Name: P5060-15 Acquired: 12/17/2024 21:27:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKX2 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0715760 | -.029747 | 1.180117 | .0493705 | .0215971 | 59.10599 |
| Stddev | .0025317 | .002226 | .005862 | .0031789 | .0008867 | .26901 |
| %RSD | 3.537079 | 7.482012 | .4967718 | 6.438760 | 4.105599 | .4551235 |
| #1 | .0729730 | -.030899 | 1.173862 | .0496154 | .0205865 | 59.41553 |
| #2 | .0686536 | -.027182 | 1.181002 | .0524198 | .0222448 | 58.92886 |
| #3 | .0731015 | -.031161 | 1.185486 | .0460763 | .0219599 | 58.97356 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.283302 | .0077216 | .0079875 | 166.9188 | .1191409 | .1012534 |
| Stddev | .004400 | .0001726 | .0000789 | .5643 | .0002323 | .0004598 |
| %RSD | .3428989 | 2.235153 | .9875524 | .3380867 | .1949436 | .4540784 |
| #1 | 1.287810 | .0078958 | .0079243 | 167.5696 | .1193032 | .1008487 |
| #2 | 1.279018 | .0077182 | .0080759 | 166.5639 | .1188748 | .1017534 |
| #3 | 1.283078 | .0075507 | .0079622 | 166.6230 | .1192446 | .1011583 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2276529 | 147.7480 | 4.200270 | 54.56205 | .1748767 | .0035040 |
| Stddev | .0095826 | .6199 | .024853 | .04264 | .0003367 | .0005688 |
| %RSD | 4.209288 | .4195517 | .5916982 | .0781430 | .1925280 | 16.23383 |
| #1 | .2166850 | 148.4368 | 4.228916 | 54.60632 | .1745921 | .0029153 |
| #2 | .2318703 | 147.2350 | 4.184455 | 54.52127 | .1747896 | .0040507 |
| #3 | .2344034 | 147.5721 | 4.187439 | 54.55855 | .1752483 | .0035460 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.282319 | .1659092 | 1.743001 | 10.48079 | F 14.93208 | .0190907 |
| Stddev | .531252 | .0076937 | .019143 | .09313 | .01699 | .0047173 |
| %RSD | 41.42902 | 4.637314 | 1.098265 | .8885815 | .1137698 | 24.70985 |
| #1 | 1.104893 | .1599311 | 1.746936 | 10.55890 | 14.91928 | .0221778 |
| #2 | 1.879578 | .1745895 | 1.722196 | 10.50574 | 14.92560 | .0214338 |
| #3 | .862487 | .1632071 | 1.759870 | 10.37772 | 14.95135 | .0136606 |

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

Sample Name: P5060-15 Acquired: 12/17/2024 21:27:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKX2 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0067021 | 5.318237 | 8.649982 | .0824073 | .8261009 | .1295687 |
| Stddev | .0005464 | .017286 | .083949 | .0011271 | .0037046 | .0006802 |
| %RSD | 8.152171 | .3250350 | .9705131 | 1.367674 | .4484435 | .5249300 |
| | | | | | | |
| #1 | .0067830 | 5.300099 | 8.741917 | .0836743 | .8279705 | .1293239 |
| #2 | .0072035 | 5.334522 | 8.577398 | .0815162 | .8218340 | .1290449 |
| #3 | .0061198 | 5.320091 | 8.630631 | .0820315 | .8284981 | .1303374 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1183463 |
| Stddev | .0037883 |
| %RSD | 3.200984 |
| | |
| #1 | .1183614 |
| #2 | .1145505 |
| #3 | .1221270 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2194.315 | 26860.14 | 1378.956 | 1872.535 | 2332.509 |
| Stddev | 1.270 | 217.10 | 7.642 | 17.473 | 2.192 |
| %RSD | .0578671 | .8082630 | .5542040 | .9331049 | .0939785 |
| | | | | | |
| #1 | 2193.038 | 27059.05 | 1370.155 | 1890.445 | 2332.232 |
| #2 | 2194.329 | 26628.55 | 1382.798 | 1855.536 | 2330.468 |
| #3 | 2195.578 | 26892.84 | 1383.915 | 1871.623 | 2334.826 |

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

Sample Name: P5060-16 Acquired: 12/17/2024 21:30:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKX3 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0935399 | -.037056 | 5.297514 | .0528424 | .0272047 | 64.33047 |
| Stddev | .0044159 | .008952 | .016764 | .0051160 | .0009919 | .14724 |
| %RSD | 4.720918 | 24.15733 | .3164578 | 9.681716 | 3.646095 | .2288734 |
| #1 | .0935985 | -.029337 | 5.293231 | .0568814 | .0260621 | 64.16960 |
| #2 | .0890950 | -.046870 | 5.283307 | .0470894 | .0277073 | 64.36326 |
| #3 | .0979263 | -.034962 | 5.316005 | .0545562 | .0278448 | 64.45855 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.559362 | .0085823 | .0094143 | 162.0585 | .1360201 | .1111244 |
| Stddev | .003016 | .0001494 | .0001394 | .6038 | .0006599 | .0003508 |
| %RSD | .1934393 | 1.740306 | 1.480918 | .3725676 | .4851252 | .3156985 |
| #1 | 1.556033 | .0087370 | .0094106 | 161.4160 | .1362685 | .1113869 |
| #2 | 1.561914 | .0085710 | .0092768 | 162.1454 | .1365197 | .1107259 |
| #3 | 1.560139 | .0084389 | .0095555 | 162.6141 | .1352721 | .1112602 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2606107 | 168.4276 | 5.001979 | 51.50786 | .1902930 | .0062672 |
| Stddev | .0050153 | .0905 | .007416 | .27077 | .0008831 | .0008278 |
| %RSD | 1.924433 | .0537296 | .1482647 | .5256782 | .4640601 | 13.20848 |
| #1 | .2661867 | 168.4203 | 4.993431 | 51.66758 | .1894882 | .0056299 |
| #2 | .2591772 | 168.5215 | 5.005808 | 51.19523 | .1901532 | .0059688 |
| #3 | .2564683 | 168.3410 | 5.006697 | 51.66077 | .1912377 | .0072028 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.047657 | .2016438 | 1.794781 | 8.720087 | F 16.71813 | -.010100 |
| Stddev | .532733 | .0070072 | .027394 | .121824 | .06358 | .002678 |
| %RSD | 50.84993 | 3.475013 | 1.526288 | 1.397055 | .3802780 | 26.51498 |
| #1 | .446829 | .2062041 | 1.764136 | 8.793295 | 16.71229 | -.011697 |
| #2 | 1.233798 | .2051519 | 1.816893 | 8.787510 | 16.65768 | -.007008 |
| #3 | 1.462344 | .1935755 | 1.803313 | 8.579456 | 16.78443 | -.011595 |

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

Sample Name: P5060-16 Acquired: 12/17/2024 21:30:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKX3 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0068623 | 4.255902 | 8.976562 | .1083639 | .8403844 | .1324799 |
| Stddev | .0003617 | .033514 | .074941 | .0015441 | .0047634 | .0009566 |
| %RSD | 5.271457 | .7874690 | .8348567 | 1.424899 | .5668167 | .7220972 |
| #1 | .0069760 | 4.245543 | 9.062710 | .1101460 | .8447322 | .1322712 |
| #2 | .0064573 | 4.228791 | 8.940562 | .1075199 | .8352928 | .1335236 |
| #3 | .0071535 | 4.293373 | 8.926413 | .1074258 | .8411281 | .1316448 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1250157 |
| Stddev | .0034340 |
| %RSD | 2.746830 |
| #1 | .1218472 |
| #2 | .1286645 |
| #3 | .1245354 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2237.878 | 27413.66 | 1423.316 | 1915.724 | 2336.823 |
| Stddev | 3.254 | 88.97 | 7.767 | 4.381 | 1.256 |
| %RSD | .1454233 | .3245603 | .5456658 | .2287066 | .0537427 |
| #1 | 2238.300 | 27470.73 | 1415.142 | 1920.676 | 2338.061 |
| #2 | 2234.433 | 27311.14 | 1424.208 | 1912.350 | 2335.550 |
| #3 | 2240.901 | 27459.11 | 1430.598 | 1914.145 | 2336.856 |

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

Sample Name: P5060-17 Acquired: 12/17/2024 21:34:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKX4 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0995832 | -.038126 | 1.295826 | .0560532 | .0220599 | 72.86834 |
| Stddev | .0044940 | .004243 | .004028 | .0057070 | .0013620 | .82040 |
| %RSD | 4.512846 | 11.12951 | .3108738 | 10.18136 | 6.174124 | 1.125863 |
| #1 | .0945726 | -.033838 | 1.292471 | .0533375 | .0211855 | 72.16797 |
| #2 | .1032578 | -.042323 | 1.300294 | .0626108 | .0236292 | 73.77094 |
| #3 | .1009190 | -.038218 | 1.294713 | .0522111 | .0213651 | 72.66612 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.486022 | .0088826 | .0079274 | 148.6202 | .1402818 | .1102446 |
| Stddev | .016060 | .0000791 | .0000445 | 1.5461 | .0010606 | .0007627 |
| %RSD | 1.080751 | .8906962 | .5615547 | 1.040302 | .7560691 | .6918362 |
| #1 | 1.471317 | .0089688 | .0079059 | 147.5408 | .1391806 | .1100195 |
| #2 | 1.503160 | .0088660 | .0078977 | 150.3914 | .1412966 | .1110945 |
| #3 | 1.483591 | .0088132 | .0079786 | 147.9285 | .1403682 | .1096198 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2285674 | 164.7952 | 4.670743 | 49.05892 | .1783041 | .0046959 |
| Stddev | .0059965 | 1.6545 | .043401 | .51955 | .0009041 | .0012170 |
| %RSD | 2.623498 | 1.003953 | .9292152 | 1.059037 | .5070304 | 25.91629 |
| #1 | .2350115 | 163.2377 | 4.631609 | 48.60259 | .1777410 | .0033053 |
| #2 | .2231516 | 166.5320 | 4.717422 | 49.62436 | .1793470 | .0055665 |
| #3 | .2275390 | 164.6157 | 4.663197 | 48.94981 | .1778245 | .0052159 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3668881 | .1994311 | 1.345287 | 8.004649 | F 16.26677 | -.009207 |
| Stddev | .8039065 | .0029090 | .013015 | .157461 | .07716 | .001183 |
| %RSD | 219.1149 | 1.458648 | .9674418 | 1.967121 | .4743485 | 12.84625 |
| #1 | -.537260 | .1999680 | 1.340559 | 7.962689 | 16.24625 | -.010286 |
| #2 | 1.001042 | .2020342 | 1.335297 | 7.872418 | 16.35213 | -.007942 |
| #3 | .636882 | .1962910 | 1.360005 | 8.178839 | 16.20195 | -.009392 |

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

Sample Name: P5060-17 Acquired: 12/17/2024 21:34:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKX4 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0048307 | 3.266835 | 7.877146 | .2049460 | .8164011 | .1168517 |
| Stddev | .0005201 | .021867 | .063621 | .0032468 | .0125079 | .0015552 |
| %RSD | 10.76752 | .6693574 | .8076616 | 1.584210 | 1.532076 | 1.330946 |
| | | | | | | |
| #1 | .0050459 | 3.248860 | 7.804112 | .2074558 | .8057740 | .1162964 |
| #2 | .0042375 | 3.291179 | 7.906802 | .2061030 | .8301849 | .1186084 |
| #3 | .0052086 | 3.260465 | 7.920525 | .2012792 | .8132444 | .1156503 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1545653 |
| Stddev | .0067274 |
| %RSD | 4.352473 |
| | |
| #1 | .1476185 |
| #2 | .1610494 |
| #3 | .1550281 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2323.099 | 28276.71 | 1466.268 | 1983.093 | 2390.955 |
| Stddev | 4.377 | 143.06 | 10.724 | 12.334 | 9.251 |
| %RSD | .1883934 | .5059276 | .7313828 | .6219396 | .3869321 |
| | | | | | |
| #1 | 2323.228 | 28335.20 | 1478.293 | 1984.506 | 2388.807 |
| #2 | 2318.659 | 28113.67 | 1457.693 | 1970.114 | 2382.967 |
| #3 | 2327.410 | 28381.24 | 1462.819 | 1994.659 | 2401.092 |

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

Sample Name: P5060-18 Acquired: 12/17/2024 21:38:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKX6 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0382599 | .0121063 | .2034588 | .0044932 | .0058533 | 40.82105 |
| Stddev | .0056514 | .0042962 | .0015005 | .0034054 | .0006114 | .21384 |
| %RSD | 14.77100 | 35.48710 | .7374997 | 75.79021 | 10.44497 | .5238506 |
| #1 | .0425431 | .0166494 | .2018465 | .0006990 | .0053341 | 41.06550 |
| #2 | .0318547 | .0081094 | .2037155 | .0054958 | .0065272 | 40.66863 |
| #3 | .0403820 | .0115600 | .2048144 | .0072847 | .0056986 | 40.72902 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3982105 | .0046230 | .0024038 | F 936.6998 | .0683892 | .1045218 |
| Stddev | .0025572 | .0001932 | .0002331 | 3.9800 | .0020038 | .0010027 |
| %RSD | .6421808 | 4.178465 | 9.698065 | .4248961 | 2.929999 | .9593164 |
| #1 | .4008915 | .0044000 | .0021483 | 941.1397 | .0679021 | .1038498 |
| #2 | .3979416 | .0047400 | .0026050 | 933.4522 | .0705916 | .1040412 |
| #3 | .3957983 | .0047290 | .0024582 | 935.5076 | .0666738 | .1056743 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0758057 | 110.7613 | 4.286538 | 308.0870 | .0987762 | .0012343 |
| Stddev | .0067369 | .7202 | .017727 | .5619 | .0006415 | .0002255 |
| %RSD | 8.887089 | .6502419 | .4135440 | .1823825 | .6494942 | 18.27065 |
| #1 | .0789848 | 111.4654 | 4.306969 | 308.4635 | .0994951 | .0013591 |
| #2 | .0803649 | 110.7927 | 4.277399 | 308.3563 | .0985716 | .0009740 |
| #3 | .0680675 | 110.0260 | 4.275245 | 307.4411 | .0982619 | .0013698 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4331275 | .1329271 | .4807986 | 3.781512 | F 22.65033 | .0067993 |
| Stddev | .7298788 | .0041144 | .0156332 | .147940 | .02253 | .0020039 |
| %RSD | 168.5136 | 3.095193 | 3.251503 | 3.912181 | .0994499 | 29.47207 |
| #1 | -.223876 | .1289476 | .4758363 | 3.876289 | 22.63406 | .0080389 |
| #2 | 1.218776 | .1326697 | .4983106 | 3.611042 | 22.64090 | .0078715 |
| #3 | .304482 | .1371642 | .4682488 | 3.857205 | 22.67604 | .0044874 |

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

Sample Name: P5060-18 Acquired: 12/17/2024 21:38:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKX6 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0008852 | 1.570107 | 6.159789 | .0302822 | .5631187 | .5118393 |
| Stddev | .0002687 | .005998 | .043030 | .0018830 | .0022118 | .0013879 |
| %RSD | 30.35418 | .3820362 | .6985582 | 6.218175 | .3927816 | .2711637 |
| #1 | .0006607 | 1.573876 | 6.200272 | .0283020 | .5618099 | .5134190 |
| #2 | .0011829 | 1.563190 | 6.164495 | .0320499 | .5656724 | .5112835 |
| #3 | .0008119 | 1.573255 | 6.114599 | .0304948 | .5618737 | .5108155 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1397748 |
| Stddev | .0035500 |
| %RSD | 2.539791 |
| #1 | .1396097 |
| #2 | .1434044 |
| #3 | .1363102 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2120.751 | 26629.23 | 1406.719 | 1830.878 | 1999.242 |
| Stddev | 8.168 | 592.31 | 4.273 | 42.330 | 3.840 |
| %RSD | .3851522 | 2.224296 | .3037618 | 2.312012 | .1920510 |
| #1 | 2111.425 | 26257.92 | 1401.811 | 1809.605 | 1995.147 |
| #2 | 2126.635 | 26317.47 | 1409.617 | 1803.403 | 2002.762 |
| #3 | 2124.193 | 27312.31 | 1408.728 | 1879.625 | 1999.817 |

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

Sample Name: P5060-19 Acquired: 12/17/2024 21:42:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKX7 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0313698 | .0168006 | .1263877 | .0062093 | .0058534 | 36.86795 |
| Stddev | .0086122 | .0085715 | .0023244 | .0019710 | .0014077 | .31769 |
| %RSD | 27.45373 | 51.01915 | 1.839124 | 31.74202 | 24.04877 | .8616991 |
| | | | | | | |
| #1 | .0396604 | .0077405 | .1253654 | .0042956 | .0072427 | 36.51591 |
| #2 | .0224686 | .0247813 | .1290481 | .0082330 | .0044281 | 37.13330 |
| #3 | .0319803 | .0178799 | .1247496 | .0060994 | .0058893 | 36.95464 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3642631 | .0044440 | .0025382 | F 915.3370 | .0669873 | .1043720 |
| Stddev | .0046638 | .0000726 | .0001846 | 8.7197 | .0008471 | .0013692 |
| %RSD | 1.280340 | 1.633110 | 7.273133 | .9526172 | 1.264614 | 1.311848 |
| | | | | | | |
| #1 | .3594197 | .0043690 | .0026856 | 905.7208 | .0674635 | .1032087 |
| #2 | .3646458 | .0045139 | .0023311 | 922.7294 | .0674892 | .1058809 |
| #3 | .3687237 | .0044492 | .0025978 | 917.5607 | .0660093 | .1040264 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0769899 | 116.8340 | 8.853817 | 151.9776 | .1117812 | .0026204 |
| Stddev | .0067392 | 1.2920 | .102958 | 1.1194 | .0005506 | .0005048 |
| %RSD | 8.753420 | 1.105874 | 1.162871 | .7365539 | .4926035 | 19.26371 |
| | | | | | | |
| #1 | .0752722 | 115.3429 | 8.738656 | 150.7560 | .1111517 | .0020607 |
| #2 | .0844218 | 117.6206 | 8.936970 | 152.9541 | .1121733 | .0027591 |
| #3 | .0712758 | 117.5386 | 8.885825 | 152.2227 | .1120186 | .0030413 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .9366580 | .0959448 | .4226445 | 5.825252 | 6.666893 | .0042523 |
| Stddev | .8965597 | .0057752 | .0075643 | .284589 | .034707 | .0040687 |
| %RSD | 95.71900 | 6.019328 | 1.789759 | 4.885428 | .5205864 | 95.68294 |
| | | | | | | |
| #1 | 1.941921 | .0896547 | .4189805 | 5.501890 | 6.631425 | -.000086 |
| #2 | .648280 | .1010080 | .4176099 | 6.037611 | 6.700785 | .007983 |
| #3 | .219773 | .0971718 | .4313431 | 5.936255 | 6.668468 | .004859 |

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

Sample Name: P5060-19 Acquired: 12/17/2024 21:42:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKX7 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000032 | .8881812 | 6.028328 | .0222429 | .4586865 | .4983532 |
| Stddev | .000504 | .0092548 | .046146 | .0020736 | .0028351 | .0035943 |
| %RSD | 1597.620 | 1.041999 | .7654880 | 9.322411 | .6181004 | .7212416 |
| #1 | .000550 | .8812699 | 5.978150 | .0244054 | .4583273 | .4942872 |
| #2 | -.000322 | .8986957 | 6.037888 | .0220520 | .4616842 | .4996655 |
| #3 | -.000323 | .8845780 | 6.068945 | .0202715 | .4560481 | .5011071 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1269654 |
| Stddev | .0036994 |
| %RSD | 2.913682 |
| #1 | .1254145 |
| #2 | .1242938 |
| #3 | .1311877 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2043.942 | 25221.61 | 1337.693 | 1737.264 | 2076.282 |
| Stddev | 5.401 | 123.61 | 10.105 | 9.448 | 12.045 |
| %RSD | .2642501 | .4901005 | .7553743 | .5438194 | .5801201 |
| #1 | 2049.964 | 25115.26 | 1348.858 | 1730.714 | 2087.892 |
| #2 | 2039.526 | 25192.35 | 1329.178 | 1732.983 | 2063.845 |
| #3 | 2042.336 | 25357.23 | 1335.042 | 1748.094 | 2077.110 |

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

Sample Name: P5060-20 Acquired: 12/17/2024 21:46:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKX8 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0477162 | -.009178 | .0965553 | .0292505 | .0132855 | 41.20106 | .3518589 |
| Stddev | .0011250 | .002962 | .0022524 | .0037553 | .0010131 | .07160 | .0005875 |
| %RSD | 2.357705 | 32.27601 | 2.332717 | 12.83835 | 7.625808 | .1737802 | .1669695 |
| #1 | .0465728 | -.007730 | .0991560 | .0334523 | .0123678 | 41.25139 | .3523883 |
| #2 | .0477542 | -.007218 | .0952492 | .0262218 | .0131160 | 41.11909 | .3512268 |
| #3 | .0488218 | -.012586 | .0952605 | .0280774 | .0143727 | 41.23270 | .3519616 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0062239 | .0030029 | 725.8353 | .0770677 | .1184010 | .1081295 | 154.9002 |
| Stddev | .0001127 | .0001043 | 2.7309 | .0003686 | .0012040 | .0139524 | .5668 |
| %RSD | 1.810960 | 3.474814 | .3762378 | .4782916 | 1.016892 | 12.90339 | .3659147 |
| #1 | .0062524 | .0030214 | 726.9339 | .0771881 | .1194206 | .0945073 | 155.5111 |
| #2 | .0060997 | .0028905 | 722.7263 | .0766540 | .1170727 | .1223901 | 154.3914 |
| #3 | .0063196 | .0030968 | 727.8459 | .0773611 | .1187096 | .1074912 | 154.7982 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 7.290981 | 71.15567 | .1564057 | .0022373 | .7554293 | .1333667 | .4214803 |
| Stddev | .029037 | .34749 | .0015158 | .0001652 | .4413854 | .0065208 | .0084980 |
| %RSD | .3982551 | .4883557 | .9691160 | 7.383806 | 58.42842 | 4.889370 | 2.016232 |
| #1 | 7.324498 | 71.54646 | .1579850 | .0023597 | .4589054 | .1295607 | .4188220 |
| #2 | 7.273457 | 71.03909 | .1549626 | .0023029 | .5446978 | .1408961 | .4146293 |
| #3 | 7.274988 | 70.88145 | .1562695 | .0020494 | 1.262685 | .1296432 | .4309898 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 8.618161 | 5.785629 | .0042680 | .0002133 | .5984240 | 6.136997 | .0275388 |
| Stddev | .067915 | .062534 | .0012528 | .0002200 | .0068124 | .059274 | .0019729 |
| %RSD | .7880453 | 1.080857 | 29.35373 | 103.1444 | 1.138389 | .9658534 | 7.164196 |
| #1 | 8.551766 | 5.816941 | .0032960 | .0000341 | .6040389 | 6.204802 | .0291729 |
| #2 | 8.687501 | 5.713624 | .0038261 | .0001469 | .5908455 | 6.095011 | .0280964 |
| #3 | 8.615218 | 5.826322 | .0056818 | .0004589 | .6003878 | 6.111178 | .0253470 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-20 Acquired: 12/17/2024 21:46:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKX8 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .6055327 | .3315973 | .1266993 |
| Stddev | .0102981 | .0015481 | .0029317 |
| %RSD | 1.700672 | .4668596 | 2.313897 |
| | | | |
| #1 | .6027094 | .3324073 | .1298649 |
| #2 | .5969406 | .3325722 | .1261556 |
| #3 | .6169480 | .3298122 | .1240776 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2142.756 | 26568.54 | 1410.684 | 1841.741 | 2156.490 |
| Stddev | 16.268 | 89.04 | 9.176 | 8.619 | 19.213 |
| %RSD | .7591898 | .3351241 | .6504468 | .4680067 | .8909265 |
| | | | | | |
| #1 | 2135.357 | 26630.94 | 1400.104 | 1851.579 | 2146.158 |
| #2 | 2161.408 | 26608.11 | 1416.469 | 1838.127 | 2178.658 |
| #3 | 2131.503 | 26466.58 | 1415.478 | 1835.517 | 2144.654 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-21 Acquired: 12/17/2024 21:50:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL58 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0593166 | -.008224 | .1308965 | .0238262 | .0132190 | 37.15581 |
| Stddev | .0035795 | .010836 | .0016560 | .0017655 | .0002630 | .12390 |
| %RSD | 6.034526 | 131.7708 | 1.265105 | 7.409734 | 1.989831 | .3334680 |
| | | | | | | |
| #1 | .0610558 | .001087 | .1292526 | .0241388 | .0135176 | 37.25088 |
| #2 | .0551999 | -.005640 | .1308724 | .0254144 | .0130214 | 37.20087 |
| #3 | .0616942 | -.020118 | .1325643 | .0219253 | .0131181 | 37.01568 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3817379 | .0053553 | .0032157 | F 971.1770 | .0627936 | .1081800 |
| Stddev | .0017628 | .0001095 | .0001008 | 3.8294 | .0010101 | .0011011 |
| %RSD | .4617919 | 2.044434 | 3.134322 | .3943036 | 1.608622 | 1.017852 |
| | | | | | | |
| #1 | .3835942 | .0054733 | .0033156 | 972.5733 | .0616273 | .1081509 |
| #2 | .3815331 | .0053355 | .0031140 | 974.1122 | .0633662 | .1070937 |
| #3 | .3800864 | .0052570 | .0032177 | 966.8453 | .0633873 | .1092954 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2051830 | 153.8590 | 7.492947 | 180.1566 | .1185166 | .0030032 |
| Stddev | .0028147 | .3190 | .000442 | .5958 | .0009637 | .0001476 |
| %RSD | 1.371807 | .2073506 | .0058989 | .3307281 | .8131459 | 4.915368 |
| | | | | | | |
| #1 | .2078023 | 153.6507 | 7.493388 | 179.9504 | .1184245 | .0031590 |
| #2 | .2055397 | 154.2263 | 7.492504 | 180.8281 | .1195230 | .0029851 |
| #3 | .2022069 | 153.7001 | 7.492947 | 179.6912 | .1176022 | .0028654 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7848771 | .1501446 | .5234795 | 1.557284 | 7.376598 | -.009993 |
| Stddev | .3101994 | .0071238 | .0077415 | .077826 | .027312 | .000807 |
| %RSD | 39.52203 | 4.744604 | 1.478853 | 4.997578 | .3702574 | 8.070340 |
| | | | | | | |
| #1 | .9455897 | .1564577 | .5188512 | 1.639864 | 7.382944 | -.010238 |
| #2 | .4272985 | .1515549 | .5324167 | 1.485296 | 7.346671 | -.009093 |
| #3 | .9817433 | .1424211 | .5191705 | 1.546692 | 7.400179 | -.010650 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-21 Acquired: 12/17/2024 21:50:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL58 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0051675 | 1.117177 | 5.364696 | .0287950 | .6970378 | .7024867 |
| Stddev | .0001992 | .008988 | .028013 | .0005046 | .0077789 | .0010268 |
| %RSD | 3.854563 | .8045498 | .5221746 | 1.752534 | 1.116001 | .1461623 |
| | | | | | | |
| #1 | .0049859 | 1.118785 | 5.372821 | .0283071 | .6957043 | .7023605 |
| #2 | .0053805 | 1.107493 | 5.333518 | .0293149 | .7053973 | .7035707 |
| #3 | .0051361 | 1.125252 | 5.387748 | .0287631 | .6900118 | .7015289 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1353982 |
| Stddev | .0038239 |
| %RSD | 2.824180 |
| | |
| #1 | .1322800 |
| #2 | .1342499 |
| #3 | .1396647 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2075.439 | 25589.52 | 1362.175 | 1769.352 | 2088.894 |
| Stddev | 8.676 | 125.99 | 1.913 | 11.229 | 9.716 |
| %RSD | .4180362 | .4923556 | .1404262 | .6346345 | .4651194 |
| | | | | | |
| #1 | 2071.331 | 25719.56 | 1361.712 | 1778.816 | 2081.270 |
| #2 | 2085.406 | 25468.00 | 1364.277 | 1756.945 | 2099.834 |
| #3 | 2069.580 | 25580.98 | 1360.536 | 1772.296 | 2085.577 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-22 Acquired: 12/17/2024 21:54:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL59 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1119734 | -.034923 | 1.567314 | .0524317 | .0255735 | 62.85152 |
| Stddev | .0021640 | .002857 | .020756 | .0010902 | .0009011 | .30821 |
| %RSD | 1.932643 | 8.181868 | 1.324310 | 2.079331 | 3.523393 | .4903829 |
| #1 | .1127715 | -.036559 | 1.563159 | .0511730 | .0265673 | 63.14461 |
| #2 | .1095236 | -.036587 | 1.548950 | .0530384 | .0253435 | 62.53014 |
| #3 | .1136250 | -.031624 | 1.589833 | .0530836 | .0248097 | 62.87982 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.677745 | .0080333 | .0087705 | 414.4326 | .1237283 | .1333153 |
| Stddev | .006578 | .0001050 | .0001074 | 2.2642 | .0010312 | .0014762 |
| %RSD | .3920805 | 1.307214 | 1.224382 | .5463376 | .8334713 | 1.107331 |
| #1 | 1.685103 | .0080241 | .0088623 | 416.6461 | .1249138 | .1330967 |
| #2 | 1.672432 | .0081426 | .0086524 | 412.1209 | .1232329 | .1319605 |
| #3 | 1.675702 | .0079332 | .0087967 | 414.5308 | .1230383 | .1348886 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2738742 | 181.4896 | 10.00214 | 75.26322 | .1826142 | .0045280 |
| Stddev | .0061395 | 1.1035 | .04114 | .37428 | .0021714 | .0001851 |
| %RSD | 2.241729 | .6080307 | .4112980 | .4972963 | 1.189060 | 4.088504 |
| #1 | .2799468 | 182.6558 | 10.04956 | 75.66221 | .1823721 | .0043668 |
| #2 | .2676699 | 180.4619 | 9.97602 | 74.91987 | .1805741 | .0047302 |
| #3 | .2740061 | 181.3511 | 9.98083 | 75.20759 | .1848965 | .0044870 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5043722 | .1822356 | 1.978076 | 6.420764 | F 16.07716 | -.010067 |
| Stddev | .5060465 | .0062988 | .004133 | .007167 | .21399 | .002720 |
| %RSD | 100.3320 | 3.456413 | .2089578 | .1116267 | 1.331018 | 27.02228 |
| #1 | .6562291 | .1813828 | 1.973973 | 6.422754 | 16.02999 | -.007955 |
| #2 | .9171029 | .1764066 | 1.982239 | 6.426726 | 15.89070 | -.013137 |
| #3 | -.060215 | .1889174 | 1.978015 | 6.412812 | 16.31080 | -.009111 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5060-22 Acquired: 12/17/2024 21:54:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL59 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0042810 | 2.859360 | 6.801422 | .1190086 | .5218563 | .3114918 |
| Stddev | .0002392 | .037225 | .019316 | .0024278 | .0059323 | .0017000 |
| %RSD | 5.586339 | 1.301860 | .2840036 | 2.040000 | 1.136764 | .5457682 |
| | | | | | | |
| #1 | .0042413 | 2.860098 | 6.820001 | .1206519 | .5267578 | .3133102 |
| #2 | .0040641 | 2.821771 | 6.781445 | .1162200 | .5152615 | .3099422 |
| #3 | .0045375 | 2.896210 | 6.802819 | .1201537 | .5235496 | .3112230 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1180253 |
| Stddev | .0121156 |
| %RSD | 10.26523 |
| | |
| #1 | .1280334 |
| #2 | .1214869 |
| #3 | .1045557 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2235.724 | 27471.79 | 1447.147 | 1906.372 | 2266.894 |
| Stddev | 16.950 | 88.94 | 5.347 | 10.284 | 23.106 |
| %RSD | .7581569 | .3237636 | .3694923 | .5394596 | 1.019283 |
| | | | | | |
| #1 | 2231.530 | 27371.57 | 1444.587 | 1912.535 | 2262.909 |
| #2 | 2254.377 | 27541.34 | 1453.293 | 1912.080 | 2291.733 |
| #3 | 2221.264 | 27502.46 | 1443.562 | 1894.499 | 2246.040 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-01 Acquired: 12/17/2024 21:57:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKZ7 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0368890 | .0096637 | .1089955 | .0208897 | .0113748 | 51.29150 |
| Stddev | .0023671 | .0037552 | .0046350 | .0040422 | .0023772 | .40457 |
| %RSD | 6.416738 | 38.85834 | 4.252441 | 19.35019 | 20.89878 | .7887602 |
| #1 | .0386421 | .0119408 | .1073515 | .0203351 | .0120152 | 51.71768 |
| #2 | .0341964 | .0053295 | .1142284 | .0171534 | .0133662 | 50.91272 |
| #3 | .0378285 | .0117209 | .1054066 | .0251805 | .0087430 | 51.24410 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.115303 | .0066397 | .0081857 | F 1542.495 | .1109900 | .1445479 |
| Stddev | .008107 | .0000454 | .0002210 | 12.385 | .0004410 | .0009570 |
| %RSD | .7269225 | .6844059 | 2.700307 | .8029425 | .3973286 | .6620998 |
| #1 | 1.124389 | .0065999 | .0081296 | 1553.792 | .1109368 | .1436130 |
| #2 | 1.108807 | .0066301 | .0079982 | 1529.252 | .1105780 | .1445050 |
| #3 | 1.112715 | .0066892 | .0084294 | 1544.442 | .1114552 | .1455257 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0904967 | 155.0686 | 14.16240 | 43.23972 | .2018949 | .0036772 |
| Stddev | .0110571 | 1.1419 | .10899 | .13246 | .0002695 | .0007746 |
| %RSD | 12.21826 | .7363760 | .7695498 | .3063472 | .1334630 | 21.06422 |
| #1 | .1015693 | 156.2076 | 14.27745 | 43.39237 | .2021526 | .0032883 |
| #2 | .0904657 | 153.9238 | 14.06071 | 43.17186 | .2019172 | .0045692 |
| #3 | .0794551 | 155.0745 | 14.14904 | 43.15494 | .2016150 | .0031741 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .9832019 | .1126501 | .3315563 | 9.223359 | 5.329773 | .0377517 |
| Stddev | .8843352 | .0067446 | .0090501 | .088324 | .014924 | .0029275 |
| %RSD | 89.94441 | 5.987240 | 2.729568 | .9576076 | .2800184 | 7.754636 |
| #1 | 1.280301 | .1191344 | .3420003 | 9.198989 | 5.319829 | .0402715 |
| #2 | -.011426 | .1056722 | .3266429 | 9.149779 | 5.322556 | .0345403 |
| #3 | 1.680730 | .1131436 | .3260256 | 9.321309 | 5.346934 | .0384434 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-01 Acquired: 12/17/2024 21:57:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKZ7 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.001366 | 1.321994 | 5.913782 | .0290285 | 1.023302 | .6661909 |
| Stddev | .000385 | .013799 | .022417 | .0027394 | .011563 | .0042796 |
| %RSD | 28.21111 | 1.043806 | .3790585 | 9.436836 | 1.129976 | .6424015 |
| | | | | | | |
| #1 | -.001171 | 1.311560 | 5.932908 | .0297647 | 1.032745 | .6706612 |
| #2 | -.001116 | 1.316783 | 5.919323 | .0313245 | 1.010406 | .6621315 |
| #3 | -.001809 | 1.337640 | 5.889114 | .0259962 | 1.026756 | .6657802 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1827562 |
| Stddev | .0035581 |
| %RSD | 1.946936 |
| | |
| #1 | .1863217 |
| #2 | .1827412 |
| #3 | .1792055 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2122.858 | 25933.23 | 1411.064 | 1810.313 | 2040.729 |
| Stddev | 5.034 | 136.67 | 8.876 | 6.527 | 4.138 |
| %RSD | .2371479 | .5270118 | .6290033 | .3605665 | .2027613 |
| | | | | | |
| #1 | 2117.744 | 25782.30 | 1400.872 | 1802.785 | 2037.677 |
| #2 | 2123.020 | 26048.62 | 1415.228 | 1813.762 | 2045.439 |
| #3 | 2127.809 | 25968.75 | 1417.093 | 1814.393 | 2039.073 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-02 Acquired: 12/17/2024 22:01:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKZ8 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0339425 | .0143724 | .1077651 | .0179900 | .0097142 | 47.01025 |
| Stddev | .0013212 | .0044290 | .0031526 | .0078463 | .0032198 | .19905 |
| %RSD | 3.892575 | 30.81617 | 2.925394 | 43.61462 | 33.14575 | .4234115 |
| | | | | | | |
| #1 | .0325491 | .0099544 | .1075716 | .0100652 | .0062216 | 46.82848 |
| #2 | .0341011 | .0188124 | .1047137 | .0181495 | .0125644 | 47.22295 |
| #3 | .0351772 | .0143504 | .1110099 | .0257554 | .0103566 | 46.97931 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.087844 | .0057389 | .0068557 | F 1556.982 | .1002526 | .1433117 |
| Stddev | .005562 | .0001623 | .0001786 | 8.741 | .0007327 | .0009125 |
| %RSD | .5112869 | 2.828106 | 2.605170 | .5614209 | .7308178 | .6367391 |
| | | | | | | |
| #1 | 1.083794 | .0056159 | .0066641 | 1547.233 | .1003462 | .1437556 |
| #2 | 1.094186 | .0056780 | .0068854 | 1564.122 | .1009339 | .1422622 |
| #3 | 1.085553 | .0059229 | .0070176 | 1559.590 | .0994775 | .1439175 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1269322 | 142.1924 | 14.39829 | 54.12767 | .1855229 | .0031277 |
| Stddev | .0047364 | .7996 | .08103 | .34030 | .0022505 | .0002666 |
| %RSD | 3.731400 | .5623073 | .5628078 | .6287035 | 1.213046 | 8.525122 |
| | | | | | | |
| #1 | .1256677 | 141.2919 | 14.30505 | 53.81133 | .1829383 | .0028249 |
| #2 | .1229564 | 142.4662 | 14.45175 | 54.08396 | .1865815 | .0032306 |
| #3 | .1321724 | 142.8191 | 14.43807 | 54.48771 | .1870488 | .0033275 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5491101 | .1077270 | .2942149 | 8.856444 | 5.114225 | .0379407 |
| Stddev | .5778231 | .0104408 | .0142803 | .129498 | .034057 | .0009342 |
| %RSD | 105.2290 | 9.691916 | 4.853695 | 1.462189 | .6659178 | 2.462333 |
| | | | | | | |
| #1 | -.117301 | .1196627 | .3017467 | 8.856516 | 5.081394 | .0370613 |
| #2 | .854007 | .1032306 | .2777454 | 8.985907 | 5.111894 | .0378393 |
| #3 | .910625 | .1002877 | .3031525 | 8.726911 | 5.149387 | .0389215 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-02 Acquired: 12/17/2024 22:01:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKZ8 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.001864 | 1.433515 | 5.707949 | .0315935 | 1.039733 | .7696457 |
| Stddev | .000328 | .005065 | .017870 | .0002936 | .009214 | .0026972 |
| %RSD | 17.61057 | .3533114 | .3130690 | .9294095 | .8861690 | .3504514 |
| #1 | -.001593 | 1.430800 | 5.694888 | .0313293 | 1.031230 | .7673100 |
| #2 | -.001770 | 1.430387 | 5.700646 | .0315416 | 1.049522 | .7725977 |
| #3 | -.002229 | 1.439359 | 5.728314 | .0319096 | 1.038445 | .7690292 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1702834 |
| Stddev | .0055035 |
| %RSD | 3.231966 |
| #1 | .1652555 |
| #2 | .1694315 |
| #3 | .1761631 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2063.321 | 25259.48 | 1379.021 | 1755.053 | 2026.028 |
| Stddev | 7.923 | 25.54 | 4.004 | 1.458 | 7.385 |
| %RSD | .3840023 | .1011285 | .2903265 | .0830938 | .3645301 |
| #1 | 2069.438 | 25280.24 | 1381.243 | 1753.380 | 2031.239 |
| #2 | 2066.154 | 25230.95 | 1381.421 | 1755.730 | 2029.269 |
| #3 | 2054.370 | 25267.26 | 1374.399 | 1756.050 | 2017.576 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-03 Acquired: 12/17/2024 22:05:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKZ9 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0711236 | .0147327 | .2217443 | .0059787 | .0094316 | 44.85092 |
| Stddev | .0030946 | .0062856 | .0028351 | .0041260 | .0013155 | .10578 |
| %RSD | 4.350965 | 42.66439 | 1.278541 | 69.01034 | 13.94802 | .2358555 |
| | | | | | | |
| #1 | .0702407 | .0200631 | .2250047 | .0013997 | .0093559 | 44.76318 |
| #2 | .0745637 | .0163336 | .2203692 | .0094075 | .0107834 | 44.96838 |
| #3 | .0685665 | .0078015 | .2198589 | .0071290 | .0081556 | 44.82120 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6738803 | .0055296 | .0042900 | F 1424.780 | .0987375 | .1325040 |
| Stddev | .0013687 | .0001612 | .0000878 | 1.383 | .0012075 | .0003141 |
| %RSD | .2031128 | 2.915243 | 2.047343 | .0970526 | 1.222903 | .2370575 |
| | | | | | | |
| #1 | .6723503 | .0057123 | .0041902 | 1423.833 | .0985063 | .1323302 |
| #2 | .6749883 | .0054692 | .0043555 | 1424.140 | .0976623 | .1328666 |
| #3 | .6743025 | .0054073 | .0043244 | 1426.367 | .1000438 | .1323153 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2784630 | 131.7021 | 9.465628 | 172.5769 | .1518918 | .0025323 |
| Stddev | .0146862 | .5759 | .022671 | .3992 | .0016338 | .0005120 |
| %RSD | 5.274035 | .4372472 | .2395047 | .2313324 | 1.075647 | 20.21989 |
| | | | | | | |
| #1 | .2767675 | 131.0472 | 9.454317 | 172.1903 | .1532084 | .0027327 |
| #2 | .2646981 | 132.1294 | 9.491729 | 172.9877 | .1500633 | .0019504 |
| #3 | .2939234 | 131.9296 | 9.450839 | 172.5528 | .1524036 | .0029139 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.035866 | .1100026 | .4989864 | 8.478514 | 4.301966 | .0452025 |
| Stddev | .508972 | .0194329 | .0142641 | .232590 | .007696 | .0015348 |
| %RSD | 49.13487 | 17.66582 | 2.858620 | 2.743285 | .1788945 | 3.395300 |
| | | | | | | |
| #1 | .480144 | .0934928 | .4840776 | 8.732498 | 4.310776 | .0464608 |
| #2 | 1.479353 | .1050967 | .5003775 | 8.427133 | 4.296558 | .0456540 |
| #3 | 1.148102 | .1314183 | .5125040 | 8.275910 | 4.298562 | .0434926 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-03 Acquired: 12/17/2024 22:05:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKZ9 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000702 | 2.042273 | 5.777313 | .0297335 | .6942864 | 1.078180 |
| Stddev | .000771 | .018769 | .014077 | .0021790 | .0056767 | .002571 |
| %RSD | 109.8130 | .9190024 | .2436677 | 7.328487 | .8176269 | .2384136 |
| | | | | | | |
| #1 | -.001393 | 2.061632 | 5.765927 | .0322090 | .6879394 | 1.075486 |
| #2 | -.000843 | 2.041030 | 5.772960 | .0281059 | .6988782 | 1.080606 |
| #3 | .000130 | 2.024157 | 5.793053 | .0288856 | .6960415 | 1.078447 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1593727 |
| Stddev | .0069121 |
| %RSD | 4.337097 |
| | |
| #1 | .1522876 |
| #2 | .1660979 |
| #3 | .1597327 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1976.553 | 24068.56 | 1299.376 | 1670.666 | 2011.055 |
| Stddev | 4.992 | 233.66 | 5.256 | 15.623 | 3.568 |
| %RSD | .2525393 | .9708296 | .4044930 | .9351634 | .1774228 |
| | | | | | |
| #1 | 1975.151 | 24225.28 | 1305.443 | 1681.606 | 2007.711 |
| #2 | 1972.411 | 24180.39 | 1296.196 | 1677.618 | 2010.641 |
| #3 | 1982.095 | 23799.99 | 1296.489 | 1652.773 | 2014.811 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-04 Acquired: 12/17/2024 22:09:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL00 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1176383 | -.053444 | .5261779 | .0637595 | .0264461 | 60.63953 | .6405214 |
| Stddev | .0047785 | .001986 | .0045729 | .0032680 | .0016628 | .20955 | .0022821 |
| %RSD | 4.062012 | 3.715438 | .8690769 | 5.125512 | 6.287594 | .3455703 | .3562850 |
| #1 | .1166238 | -.053504 | .5314461 | .0668450 | .0246124 | 60.46826 | .6379843 |
| #2 | .1228426 | -.051429 | .5232342 | .0603354 | .0278560 | 60.57714 | .6424066 |
| #3 | .1134486 | -.055399 | .5238534 | .0640982 | .0268699 | 60.87319 | .6411732 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0078624 | .0041805 | 32.28433 | .1048437 | .0868760 | .1834439 | 148.9017 |
| Stddev | .0000931 | .0000859 | .01439 | .0010524 | .0005292 | .0084138 | .3949 |
| %RSD | 1.184468 | 2.054035 | .0445808 | 1.003822 | .6092042 | 4.586565 | .2652286 |
| #1 | .0078426 | .0041461 | 32.30052 | .1057788 | .0872850 | .1762180 | 148.4624 |
| #2 | .0077807 | .0042783 | 32.27951 | .1050482 | .0870647 | .1926810 | 149.2275 |
| #3 | .0079638 | .0041172 | 32.27297 | .1037039 | .0862783 | .1814327 | 149.0151 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.856040 | 16.15019 | .1584332 | .0043185 | .6571642 | .1974738 | .5167101 |
| Stddev | .018341 | .12064 | .0002660 | .0012375 | .2542993 | .0015756 | .0048991 |
| %RSD | .3131971 | .7469736 | .1678674 | 28.65553 | 38.69647 | .7978996 | .9481352 |
| #1 | 5.834864 | 16.13700 | .1586659 | .0053902 | .4456040 | .1977079 | .5132060 |
| #2 | 5.866337 | 16.03668 | .1581433 | .0029641 | .9392958 | .1957942 | .5223082 |
| #3 | 5.866917 | 16.27688 | .1584904 | .0046011 | .5865929 | .1989193 | .5146162 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.481870 | 4.881781 | -.023329 | .0056385 | 3.162849 | 7.221480 | .0404115 |
| Stddev | .065445 | .014851 | .002949 | .0003264 | .005247 | .077041 | .0012617 |
| %RSD | 1.193836 | .3042098 | 12.64013 | 5.788090 | .1658911 | 1.066827 | 3.122212 |
| #1 | 5.548168 | 4.875413 | -.020426 | .0059148 | 3.165502 | 7.272286 | .0397780 |
| #2 | 5.480128 | 4.871177 | -.023239 | .0052784 | 3.156806 | 7.132837 | .0418645 |
| #3 | 5.417313 | 4.898754 | -.026322 | .0057224 | 3.166240 | 7.259317 | .0395922 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-04 Acquired: 12/17/2024 22:09:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL00 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .9570757 | -.060983 | .0721821 |
| Stddev | .0088238 | .000350 | .0032354 |
| %RSD | .9219504 | .5744608 | 4.482227 |
| | | | |
| #1 | .9474672 | -.060644 | .0729765 |
| #2 | .9648152 | -.060963 | .0686235 |
| #3 | .9589448 | -.061343 | .0749463 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2215.307 | 27179.09 | 1364.759 | 1899.211 | 2458.366 |
| Stddev | 6.014 | 192.67 | 9.912 | 16.623 | 9.588 |
| %RSD | .2714609 | .7089050 | .7262837 | .8752625 | .3900264 |
| | | | | | |
| #1 | 2213.342 | 27370.52 | 1363.152 | 1912.943 | 2449.900 |
| #2 | 2210.521 | 26985.20 | 1375.376 | 1880.730 | 2456.419 |
| #3 | 2222.057 | 27181.55 | 1355.748 | 1903.959 | 2468.778 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: CCV052 Acquired: 12/17/2024 22:13:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCV052 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.102856 | 5.009256 | 24.62621 | 5.065614 | 5.030107 | 401.1625 | 10.20215 |
| Stddev | .023152 | .046232 | .16244 | .046371 | .044333 | 1.1943 | .03309 |
| %RSD | .4537084 | .9229355 | .6596089 | .9154039 | .8813543 | .2977054 | .3243552 |
| #1 | 5.083732 | 4.972319 | 24.53766 | 5.028771 | 5.001608 | 400.7161 | 10.17665 |
| #2 | 5.096242 | 4.994345 | 24.52730 | 5.050388 | 5.007530 | 400.2556 | 10.19027 |
| #3 | 5.128596 | 5.061104 | 24.81368 | 5.117684 | 5.081185 | 402.5156 | 10.23955 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5153395 | 2.508084 | 405.0612 | 15.68449 | 2.495370 | 15.20173 | 412.8513 |
| Stddev | .0006895 | .016146 | .6735 | .13393 | .017562 | .07797 | 1.7292 |
| %RSD | .1337895 | .6437733 | .1662825 | .8539215 | .7037993 | .5128786 | .4188532 |
| #1 | .5157514 | 2.497876 | 404.9213 | 15.68942 | 2.487515 | 15.17383 | 412.0256 |
| #2 | .5145435 | 2.499677 | 404.4685 | 15.81589 | 2.483107 | 15.14155 | 411.6897 |
| #3 | .5157236 | 2.526700 | 405.7937 | 15.54816 | 2.515489 | 15.28980 | 414.8386 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 15.47092 | 408.2377 | 2.495809 | 1.286863 | 401.4745 | 2.540090 | 15.36091 |
| Stddev | .07010 | 2.1501 | .014687 | .011650 | 2.5189 | .016706 | .06540 |
| %RSD | .4531376 | .5266710 | .5884542 | .9053407 | .6274148 | .6576809 | .4257772 |
| #1 | 15.44015 | 407.5590 | 2.488547 | 1.288543 | 400.1926 | 2.526059 | 15.36262 |
| #2 | 15.42147 | 406.5090 | 2.486168 | 1.297582 | 399.8544 | 2.558570 | 15.42545 |
| #3 | 15.55115 | 410.6453 | 2.512712 | 1.274464 | 404.3765 | 2.535641 | 15.29468 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 154.2892 | 4.971819 | 4.906183 | 4.752151 | 4.940700 | 5.049636 | 5.019453 |
| Stddev | .8217 | .030098 | .017944 | .042902 | .034303 | .016026 | .032446 |
| %RSD | .5325908 | .6053687 | .3657358 | .9027842 | .6942846 | .3173653 | .6464143 |
| #1 | 153.5761 | 4.951973 | 4.918052 | 4.721450 | 4.923316 | 5.061199 | 4.995669 |
| #2 | 154.1037 | 4.957034 | 4.885540 | 4.733832 | 4.918571 | 5.031342 | 5.006276 |
| #3 | 155.1878 | 5.006450 | 4.914956 | 4.801171 | 4.980215 | 5.056365 | 5.056416 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: CCV052 Acquired: 12/17/2024 22:13:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCV052 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 5.055358 | 4.809335 | 5.136304 |
| Stddev | .027761 | .028460 | .053335 |
| %RSD | .5491491 | .5917641 | 1.038401 |
| | | | |
| #1 | 5.039448 | 4.801116 | 5.112172 |
| #2 | 5.039211 | 4.785889 | 5.099299 |
| #3 | 5.087414 | 4.841000 | 5.197440 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1521.116 | 20535.38 | 1113.742 | 1350.431 | 1979.485 |
| Stddev | 8.694 | 151.57 | 4.460 | 8.720 | 6.575 |
| %RSD | .5715828 | .7380780 | .4004184 | .6457373 | .3321628 |
| | | | | | |
| #1 | 1527.879 | 20557.18 | 1114.707 | 1355.204 | 1981.997 |
| #2 | 1524.161 | 20374.09 | 1117.640 | 1340.367 | 1984.433 |
| #3 | 1511.309 | 20674.86 | 1108.879 | 1355.723 | 1972.024 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: CCB052 Acquired: 12/17/2024 22:16:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCB052 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0002934 | .0055183 | .0006103 | -.003264 | -.001856 | -.003620 | .0015289 |
| Stddev | .0046512 | .0018718 | .0020356 | .003484 | .000966 | .017060 | .0012471 |
| %RSD | 1585.583 | 33.91934 | 333.5186 | 106.7489 | 52.03858 | 471.2252 | 81.56952 |
| #1 | .0025381 | .0049921 | .0022281 | .000714 | -.000968 | -.020227 | .0029107 |
| #2 | -.005055 | .0075969 | -.001675 | -.004729 | -.001715 | .013860 | .0004870 |
| #3 | .003396 | .0039660 | .001278 | -.005776 | -.002885 | -.004495 | .0011889 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000038 | -.000046 | -.042130 | .0012022 | -.000182 | -.001153 | -.006408 |
| Stddev | .000034 | .000016 | .051446 | .0005941 | .000539 | .012673 | .033578 |
| %RSD | 87.54411 | 34.31379 | 122.1119 | 49.41446 | 295.9016 | 1099.098 | 523.9762 |
| #1 | -.000058 | -.000035 | -.003298 | .0018881 | -.000077 | .010265 | .029051 |
| #2 | .000000 | -.000040 | -.100478 | .0008690 | -.000766 | .001064 | -.010556 |
| #3 | -.000057 | -.000065 | -.022614 | .0008495 | .000296 | -.014788 | -.037720 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0001667 | .0387736 | .0004152 | .0009111 | -1.25522 | .0022461 | .0147068 |
| Stddev | .0023215 | .0543274 | .0009857 | .0006821 | 1.09992 | .0206652 | .0143748 |
| %RSD | 1392.749 | 140.1143 | 237.4137 | 74.86563 | 87.62761 | 920.0544 | 97.74231 |
| #1 | .0018180 | -.000337 | .0014609 | .0001471 | -.27515 | .0061041 | -.001297 |
| #2 | .0011698 | .015853 | .0002816 | .0011273 | -2.44484 | .0207104 | .018895 |
| #3 | -.002488 | .100805 | -.000497 | .0014590 | -1.04568 | -.020076 | .026522 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0707996 | -.001242 | .0137667 | .0001217 | .0022713 | .0007391 | -.000064 |
| Stddev | .1460536 | .003983 | .0048199 | .0003292 | .0027206 | .0008693 | .001368 |
| %RSD | 206.2917 | 320.5279 | 35.01135 | 270.5266 | 119.7824 | 117.6192 | 2148.871 |
| #1 | .2117100 | .000774 | .0192859 | -.000028 | -.000049 | .0012571 | -.000976 |
| #2 | .0805928 | .001329 | .0116284 | .000499 | .001597 | .0012248 | .001509 |
| #3 | -.079904 | -.005830 | .0103860 | -.000106 | .005266 | -.000265 | -.000724 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: CCB052 Acquired: 12/17/2024 22:16:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCB052 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.003852 | .0001509 | .0148039 |
| Stddev | .003106 | .0002400 | .0032906 |
| %RSD | 80.62711 | 159.0643 | 22.22798 |
| | | | |
| #1 | -.006879 | .0004074 | .0118025 |
| #2 | -.000673 | -.000068 | .0142867 |
| #3 | -.004005 | .000114 | .0183225 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1840.925 | 22739.89 | 1141.505 | 1581.170 | 2450.138 |
| Stddev | 28.326 | 23.36 | 6.281 | 3.400 | 39.716 |
| %RSD | 1.538709 | .1027463 | .5502352 | .2150127 | 1.620969 |
| | | | | | |
| #1 | 1851.269 | 22713.82 | 1134.273 | 1581.710 | 2467.884 |
| #2 | 1862.626 | 22746.89 | 1145.592 | 1584.267 | 2477.886 |
| #3 | 1808.880 | 22758.95 | 1144.650 | 1577.533 | 2404.643 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-05 Acquired: 12/17/2024 22:20:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL01 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1156712 | -.052782 | .5098834 | .0662608 | .0278860 | 61.42353 | .6225702 |
| Stddev | .0062016 | .003770 | .0039905 | .0041383 | .0009059 | .18335 | .0030383 |
| %RSD | 5.361368 | 7.142690 | .7826231 | 6.245421 | 3.248440 | .2984982 | .4880271 |
| | | | | | | | |
| #1 | .1158617 | -.048506 | .5116072 | .0709138 | .0288802 | 61.21536 | .6191924 |
| #2 | .1217753 | -.055625 | .5053208 | .0648763 | .0276705 | 61.49420 | .6250802 |
| #3 | .1093766 | -.054216 | .5127222 | .0629923 | .0271073 | 61.56103 | .6234381 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0075786 | .0039249 | 30.34671 | .0999538 | .0851948 | .1830728 | 149.1818 |
| Stddev | .0000726 | .0001113 | .07859 | .0019206 | .0003162 | .0021159 | .6188 |
| %RSD | .9582903 | 2.835424 | .2589718 | 1.921493 | .3711384 | 1.155751 | .4147982 |
| | | | | | | | |
| #1 | .0075886 | .0039636 | 30.31340 | .0987122 | .0848838 | .1807541 | 148.4783 |
| #2 | .0075015 | .0037995 | 30.29026 | .0989833 | .0855159 | .1848990 | 149.4253 |
| #3 | .0076457 | .0040117 | 30.43647 | .1021660 | .0851848 | .1835653 | 149.6418 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.969972 | 16.13938 | .1494006 | .0043829 | -.046228 | .1762576 | .5369154 |
| Stddev | .018917 | .20827 | .0004580 | .0004859 | .038066 | .0037540 | .0196777 |
| %RSD | .3168646 | 1.290440 | .3065429 | 11.08731 | 82.34311 | 2.129840 | 3.664961 |
| | | | | | | | |
| #1 | 5.950210 | 15.94248 | .1493253 | .0039377 | -.049657 | .1772377 | .5143317 |
| #2 | 5.987912 | 16.11826 | .1489849 | .0043097 | -.006564 | .1721108 | .5460399 |
| #3 | 5.971795 | 16.35740 | .1498915 | .0049012 | -.082464 | .1794243 | .5503745 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.612637 | 4.850871 | -.013964 | .0040526 | 2.744051 | 7.458083 | .0407395 |
| Stddev | .017230 | .023702 | .001076 | .0007514 | .015639 | .028804 | .0018535 |
| %RSD | .3735466 | .4886084 | 7.709070 | 18.54019 | .5699160 | .3862069 | 4.549587 |
| | | | | | | | |
| #1 | 4.628817 | 4.856345 | -.015118 | .0032432 | 2.751201 | 7.476679 | .0391908 |
| #2 | 4.594520 | 4.824911 | -.012986 | .0041869 | 2.726115 | 7.424905 | .0427931 |
| #3 | 4.614575 | 4.871356 | -.013788 | .0047278 | 2.754837 | 7.472667 | .0402345 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-05 Acquired: 12/17/2024 22:20:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL01 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .9955423 | -.064148 | .0792438 |
| Stddev | .0062841 | .000694 | .0043925 |
| %RSD | .6312262 | 1.082537 | 5.542960 |
| | | | |
| #1 | .9883236 | -.063418 | .0823780 |
| #2 | .9985131 | -.064226 | .0811302 |
| #3 | .9997903 | -.064800 | .0742233 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2184.240 | 26779.54 | 1346.019 | 1866.033 | 2411.555 |
| Stddev | 6.304 | 183.49 | 6.594 | 14.341 | 7.026 |
| %RSD | .2886235 | .6851880 | .4898762 | .7685256 | .2913283 |
| | | | | | |
| #1 | 2188.236 | 26860.45 | 1345.597 | 1877.721 | 2414.750 |
| #2 | 2187.512 | 26908.68 | 1352.815 | 1870.349 | 2416.415 |
| #3 | 2176.973 | 26569.50 | 1339.647 | 1850.030 | 2403.499 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-06 Acquired: 12/17/2024 22:24:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL02 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1215183 | -.053352 | .5014524 | .0614001 | .0264357 | 64.74014 | .6375913 |
| Stddev | .0008525 | .004729 | .0038823 | .0021255 | .0011919 | .01815 | .0029577 |
| %RSD | .7015149 | 8.864678 | .7742166 | 3.461683 | 4.508664 | .0280370 | .4638837 |
| #1 | .1216392 | -.054468 | .5023498 | .0617224 | .0250675 | 64.74364 | .6393684 |
| #2 | .1223038 | -.048164 | .4972000 | .0633460 | .0269907 | 64.75629 | .6392286 |
| #3 | .1206118 | -.057424 | .5048074 | .0591319 | .0272488 | 64.72049 | .6341771 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0081353 | .0041816 | 26.72533 | .1010922 | .0894536 | .1779296 | 152.2775 |
| Stddev | .0001501 | .0000423 | .03000 | .0004825 | .0002036 | .0084084 | .2750 |
| %RSD | 1.844694 | 1.010894 | .1122591 | .4773326 | .2276069 | 4.725688 | .1805665 |
| #1 | .0079620 | .0042163 | 26.69366 | .1015460 | .0894302 | .1717594 | 152.0131 |
| #2 | .0082244 | .0041940 | 26.75333 | .1011455 | .0892627 | .1875069 | 152.5620 |
| #3 | .0082194 | .0041345 | 26.72900 | .1005853 | .0896679 | .1745227 | 152.2573 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 6.313687 | 16.59463 | .1501127 | .0031915 | .3075735 | .1858591 | .5149413 |
| Stddev | .005207 | .22129 | .0007932 | .0005699 | .0686959 | .0070748 | .0196999 |
| %RSD | .0824789 | 1.333506 | .5284007 | 17.85634 | 22.33479 | 3.806535 | 3.825666 |
| #1 | 6.316316 | 16.83539 | .1509933 | .0031554 | .2398561 | .1791482 | .5191735 |
| #2 | 6.317057 | 16.40013 | .1494543 | .0026405 | .3772077 | .1851802 | .4934693 |
| #3 | 6.307689 | 16.54836 | .1498905 | .0037785 | .3056567 | .1932488 | .5321812 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.704314 | 3.849917 | -.018117 | .0035497 | 2.262381 | 7.668632 | .0428778 |
| Stddev | .152991 | .016983 | .002141 | .0005384 | .006557 | .021186 | .0007901 |
| %RSD | 4.130088 | .4411324 | 11.81717 | 15.16607 | .2898208 | .2762718 | 1.842621 |
| #1 | 3.856827 | 3.853658 | -.016697 | .0036160 | 2.263308 | 7.651885 | .0420166 |
| #2 | 3.550848 | 3.831375 | -.017073 | .0029813 | 2.255409 | 7.692449 | .0430478 |
| #3 | 3.705267 | 3.864717 | -.020579 | .0040519 | 2.268425 | 7.661561 | .0435691 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-06 Acquired: 12/17/2024 22:24:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL02 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .9538687 | -.070083 | .0826724 |
| Stddev | .0031082 | .000119 | .0045342 |
| %RSD | .3258488 | .1703539 | 5.484546 |
| | | | |
| #1 | .9520010 | -.069962 | .0849129 |
| #2 | .9574567 | -.070088 | .0856503 |
| #3 | .9521483 | -.070200 | .0774541 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2236.441 | 27470.11 | 1380.303 | 1911.768 | 2453.877 |
| Stddev | 3.912 | 74.73 | 7.055 | 7.523 | 4.743 |
| %RSD | .1749029 | .2720462 | .5110919 | .3935127 | .1932767 |
| | | | | | |
| #1 | 2233.220 | 27415.94 | 1380.795 | 1909.425 | 2449.927 |
| #2 | 2240.794 | 27439.03 | 1373.016 | 1905.695 | 2459.137 |
| #3 | 2235.308 | 27555.37 | 1387.099 | 1920.184 | 2452.568 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-07 Acquired: 12/17/2024 22:28:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL02D Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1144891 | -.056523 | .5153117 | .0711365 | .0269499 | 65.92265 | .6507315 |
| Stddev | .0040866 | .002429 | .0023669 | .0020620 | .0020423 | .29651 | .0040957 |
| %RSD | 3.569407 | 4.297570 | .4593089 | 2.898610 | 7.578209 | .4497837 | .6293956 |
| #1 | .1134571 | -.058851 | .5127411 | .0690778 | .0259716 | 65.61157 | .6476080 |
| #2 | .1189928 | -.054004 | .5157933 | .0711299 | .0255807 | 65.95435 | .6492180 |
| #3 | .1110175 | -.056714 | .5174008 | .0732017 | .0292973 | 66.20204 | .6553686 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0081165 | .0041366 | 27.27012 | .1025832 | .0911494 | .1834567 | 155.0041 |
| Stddev | .0002703 | .0000610 | .19086 | .0007873 | .0002786 | .0102287 | .6211 |
| %RSD | 3.329935 | 1.475657 | .6998846 | .7674564 | .3056271 | 5.575562 | .4007064 |
| #1 | .0079300 | .0040774 | 27.06596 | .1033467 | .0908616 | .1723340 | 154.4755 |
| #2 | .0079930 | .0041993 | 27.44408 | .1026290 | .0911691 | .1855768 | 154.8485 |
| #3 | .0084264 | .0041332 | 27.30031 | .1017741 | .0914177 | .1924592 | 155.6882 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 6.441517 | 17.00411 | .1534316 | .0034548 | -.484136 | .1933647 | .5262973 |
| Stddev | .041666 | .29791 | .0004339 | .0008780 | .908707 | .0183265 | .0098271 |
| %RSD | .6468301 | 1.751994 | .2828259 | 25.41379 | 187.6964 | 9.477676 | 1.867222 |
| #1 | 6.404030 | 16.72538 | .1535539 | .0026701 | .380926 | .2046539 | .5231113 |
| #2 | 6.434144 | 16.96887 | .1529497 | .0044031 | -.402374 | .1722193 | .5373221 |
| #3 | 6.486377 | 17.31807 | .1537913 | .0032912 | -1.43096 | .2032210 | .5184584 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.745043 | 3.938009 | -.018016 | .0036077 | 2.326707 | 7.797135 | .0444290 |
| Stddev | .143102 | .011525 | .000829 | .0003048 | .005380 | .016766 | .0006992 |
| %RSD | 3.821117 | .2926670 | 4.602119 | 8.448779 | .2312343 | .2150308 | 1.573692 |
| #1 | 3.618682 | 3.926760 | -.018820 | .0038753 | 2.320508 | 7.814692 | .0443279 |
| #2 | 3.900435 | 3.937476 | -.018065 | .0036720 | 2.329460 | 7.795423 | .0451732 |
| #3 | 3.716011 | 3.949792 | -.017164 | .0032759 | 2.330154 | 7.781291 | .0437859 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-07 Acquired: 12/17/2024 22:28:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL02D Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .9709083 | -.071182 | .0754816 |
| Stddev | .0022325 | .000588 | .0098491 |
| %RSD | .2299422 | .8264092 | 13.04836 |
| | | | |
| #1 | .9700944 | -.070931 | .0723390 |
| #2 | .9691970 | -.070760 | .0865185 |
| #3 | .9734336 | -.071854 | .0675873 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2214.865 | 27203.36 | 1372.564 | 1892.353 | 2419.748 |
| Stddev | 7.161 | 106.03 | 4.879 | 5.448 | 7.416 |
| %RSD | .3233198 | .3897571 | .3554465 | .2878735 | .3064712 |
| | | | | | |
| #1 | 2220.529 | 27242.16 | 1376.790 | 1886.414 | 2426.670 |
| #2 | 2217.249 | 27284.52 | 1373.677 | 1897.117 | 2420.652 |
| #3 | 2206.816 | 27083.40 | 1367.225 | 1893.528 | 2411.921 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-06LX5 Acquired: 12/17/2024 22:32:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL02L Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0300096 | -.010622 | .1028866 | .0137130 | .0059412 | 15.07436 | .1486744 |
| Stddev | .0018756 | .001725 | .0013156 | .0008192 | .0002272 | .13432 | .0011556 |
| %RSD | 6.249970 | 16.24343 | 1.278733 | 5.973509 | 3.824728 | .8910636 | .7772924 |
| #1 | .0307278 | -.011868 | .1028144 | .0146586 | .0061545 | 15.19570 | .1499696 |
| #2 | .0278810 | -.008653 | .1042369 | .0132230 | .0059669 | 15.09736 | .1483051 |
| #3 | .0314200 | -.011344 | .1016086 | .0132573 | .0057022 | 14.93002 | .1477486 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0019804 | .0006707 | 6.267440 | .0245306 | .0203803 | .0415761 | 35.64953 |
| Stddev | .0001138 | .0001480 | .092369 | .0005975 | .0005810 | .0089214 | .41257 |
| %RSD | 5.748364 | 22.06778 | 1.473787 | 2.435939 | 2.850894 | 21.45811 | 1.157303 |
| #1 | .0020505 | .0005807 | 6.372195 | .0249450 | .0198793 | .0375164 | 36.00062 |
| #2 | .0020417 | .0008415 | 6.197692 | .0238456 | .0210172 | .0518055 | 35.75286 |
| #3 | .0018491 | .0005899 | 6.232433 | .0248013 | .0202444 | .0354065 | 35.19512 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.478190 | 3.753612 | .0306427 | .0009458 | -.296358 | .0439281 | .1421289 |
| Stddev | .019060 | .084273 | .0005558 | .0008399 | .764667 | .0059152 | .0108572 |
| %RSD | 1.289421 | 2.245111 | 1.813675 | 88.80235 | 258.0212 | 13.46562 | 7.638974 |
| #1 | 1.500098 | 3.658723 | .0312673 | .0018746 | -1.05618 | .0488967 | .1498882 |
| #2 | 1.469056 | 3.782376 | .0302028 | .0007232 | -.30595 | .0455028 | .1467770 |
| #3 | 1.465417 | 3.819737 | .0304581 | .0002397 | .47306 | .0373850 | .1297214 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4591838 | .7973652 | -.002199 | .0004419 | .4749012 | 1.829093 | .0088654 |
| Stddev | .3956351 | .0032958 | .000364 | .0002966 | .0016644 | .002153 | .0013294 |
| %RSD | 86.16052 | .4133331 | 16.55870 | 67.11552 | .3504712 | .1177148 | 14.99580 |
| #1 | .5312375 | .7957317 | -.002155 | .0004402 | .4735781 | 1.830556 | .0082711 |
| #2 | .0324738 | .7952051 | -.002583 | .0007393 | .4767699 | 1.830103 | .0103884 |
| #3 | .8138402 | .8011586 | -.001859 | .0001461 | .4743557 | 1.826621 | .0079368 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-06LX5 Acquired: 12/17/2024 22:32:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL02L Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2174379 | -.016470 | .0238330 |
| Stddev | .0006950 | .000576 | .0063815 |
| %RSD | .3196288 | 3.495851 | 26.77599 |
| | | | |
| #1 | .2177700 | -.015978 | .0190043 |
| #2 | .2166392 | -.017103 | .0214269 |
| #3 | .2179046 | -.016328 | .0310677 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1958.874 | 24103.73 | 1222.320 | 1673.754 | 2484.429 |
| Stddev | 10.584 | 104.78 | 6.326 | 14.175 | 11.821 |
| %RSD | .5403274 | .4346941 | .5175013 | .8468973 | .4757938 |
| | | | | | |
| #1 | 1965.896 | 23982.88 | 1215.045 | 1665.494 | 2490.768 |
| #2 | 1964.026 | 24159.22 | 1225.397 | 1665.647 | 2491.728 |
| #3 | 1946.700 | 24169.10 | 1226.519 | 1690.122 | 2470.791 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-08 Acquired: 12/17/2024 22:36:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL02S Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2021489 | .0352479 | .5496424 | .2111850 | .1694567 | 68.01603 | 4.111247 |
| Stddev | .0036710 | .0046728 | .0037425 | .0018139 | .0034030 | .52386 | .025664 |
| %RSD | 1.815992 | 13.25693 | .6808942 | .8589142 | 2.008200 | .7702074 | .6242319 |
| | | | | | | | |
| #1 | .1979414 | .0391156 | .5482287 | .2132140 | .1704446 | 67.55142 | 4.087288 |
| #2 | .2038068 | .0300559 | .5468127 | .2097205 | .1656690 | 67.91286 | 4.108123 |
| #3 | .2046987 | .0365722 | .5538858 | .2106204 | .1722565 | 68.58380 | 4.138330 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0939919 | .1003639 | 26.83343 | .4683489 | 1.061790 | .5974461 | 154.8086 |
| Stddev | .0012766 | .0005217 | .25792 | .0008233 | .004133 | .0110472 | 1.1616 |
| %RSD | 1.358221 | .5198027 | .9611796 | .1757810 | .3892821 | 1.849066 | .7503250 |
| | | | | | | | |
| #1 | .0934908 | .1002657 | 26.55867 | .4674651 | 1.061626 | .5938070 | 153.7155 |
| #2 | .0930418 | .0998982 | 26.87130 | .4690940 | 1.057740 | .5886775 | 154.6819 |
| #3 | .0954430 | .1009277 | 27.07032 | .4684875 | 1.066002 | .6098537 | 156.0282 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 7.202708 | 16.55484 | 1.146612 | .0716356 | -.087855 | 1.048136 | 1.305961 |
| Stddev | .053835 | .15735 | .005769 | .0004397 | .218250 | .012477 | .022971 |
| %RSD | .7474309 | .9504790 | .5031497 | .6137935 | 248.4191 | 1.190395 | 1.758907 |
| | | | | | | | |
| #1 | 7.154449 | 16.51414 | 1.147403 | .0716491 | -.337430 | 1.038974 | 1.290598 |
| #2 | 7.192903 | 16.42184 | 1.140488 | .0711893 | .006646 | 1.043088 | 1.332368 |
| #3 | 7.260772 | 16.72854 | 1.151945 | .0720684 | .067218 | 1.062346 | 1.294917 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.832383 | 3.921093 | -.017764 | .0036591 | 2.319235 | 7.635180 | .0435657 |
| Stddev | .162175 | .022867 | .003566 | .0004664 | .014815 | .102068 | .0007866 |
| %RSD | 4.231713 | .5831665 | 20.07598 | 12.74572 | .6387697 | 1.336813 | 1.805522 |
| | | | | | | | |
| #1 | 3.682844 | 3.917587 | -.015117 | .0041924 | 2.312299 | 7.560904 | .0435286 |
| #2 | 3.809535 | 3.900182 | -.016355 | .0034573 | 2.309160 | 7.593070 | .0427983 |
| #3 | 4.004772 | 3.945510 | -.021819 | .0033276 | 2.336245 | 7.751566 | .0443702 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-08 Acquired: 12/17/2024 22:36:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL02S Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .9529680 | -.072214 | .0738311 |
| Stddev | .0086906 | .000649 | .0018654 |
| %RSD | .9119552 | .8984155 | 2.526586 |
| | | | |
| #1 | .9429357 | -.071540 | .0759421 |
| #2 | .9577789 | -.072268 | .0731464 |
| #3 | .9581894 | -.072834 | .0724048 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2214.545 | 27216.69 | 1395.560 | 1897.791 | 2427.387 |
| Stddev | 3.258 | 133.52 | 14.690 | 8.974 | 6.811 |
| %RSD | .1471046 | .4905961 | 1.052598 | .4728491 | .2805896 |
| | | | | | |
| #1 | 2211.205 | 27138.00 | 1403.111 | 1898.010 | 2424.063 |
| #2 | 2217.713 | 27141.20 | 1404.940 | 1888.709 | 2435.222 |
| #3 | 2214.718 | 27370.86 | 1378.631 | 1906.653 | 2422.877 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-09 Acquired: 12/17/2024 22:40:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL23 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1746520 | -.024065 | 3.644871 | .0558597 | .0298100 | 66.36620 |
| Stddev | .0015140 | .009553 | .029483 | .0022834 | .0013166 | .48732 |
| %RSD | .8668848 | 39.69828 | .8089022 | 4.087750 | 4.416455 | .7342905 |
| #1 | .1729054 | -.034322 | 3.611442 | .0578796 | .0303740 | 66.87500 |
| #2 | .1755916 | -.015420 | 3.656002 | .0563173 | .0307507 | 66.31994 |
| #3 | .1754590 | -.022453 | 3.667169 | .0533821 | .0283055 | 65.90366 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.890164 | .0086877 | .0118120 | 143.1619 | .1614846 | .1163621 |
| Stddev | .014271 | .0002820 | .0001650 | 1.1555 | .0003951 | .0004459 |
| %RSD | .7550375 | 3.245505 | 1.396439 | .8071175 | .2446792 | .3832060 |
| #1 | 1.905550 | .0083621 | .0116381 | 144.3813 | .1612409 | .1158839 |
| #2 | 1.887583 | .0088481 | .0118317 | 143.0211 | .1612724 | .1164361 |
| #3 | 1.877359 | .0088529 | .0119663 | 142.0832 | .1619405 | .1167664 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5082739 | 157.3016 | 11.24903 | 35.74943 | .2000924 | .0091262 |
| Stddev | .0092703 | .9087 | .08416 | .35083 | .0005208 | .0009596 |
| %RSD | 1.823876 | .5776937 | .7481978 | .9813465 | .2602606 | 10.51432 |
| #1 | .5134247 | 158.1809 | 11.33271 | 36.04744 | .1996410 | .0098588 |
| #2 | .5138249 | 157.3577 | 11.24999 | 35.83806 | .1999740 | .0080400 |
| #3 | .4975719 | 156.3661 | 11.16439 | 35.36279 | .2006622 | .0094798 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.011511 | .1926516 | 2.032241 | 7.541225 | F 11.48394 | .0506733 |
| Stddev | 1.159918 | .0086385 | .009310 | .259535 | .07180 | .0011519 |
| %RSD | 10076.31 | 4.484020 | .4581222 | 3.441543 | .6252126 | 2.273193 |
| #1 | -1.28525 | .2025114 | 2.042742 | 7.527815 | 11.40161 | .0493726 |
| #2 | .98396 | .1864128 | 2.024996 | 7.807204 | 11.51669 | .0515645 |
| #3 | .26676 | .1890307 | 2.028984 | 7.288655 | 11.53353 | .0510829 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-09 Acquired: 12/17/2024 22:40:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL23 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0079548 | 3.858145 | 7.235925 | .2270786 | 1.027004 | .2192147 |
| Stddev | .0006875 | .027713 | .026250 | .0025736 | .003954 | .0021187 |
| %RSD | 8.642493 | .7182870 | .3627789 | 1.133367 | .3849978 | .9665013 |
| #1 | .0085568 | 3.826241 | 7.247525 | .2243395 | 1.031406 | .2215896 |
| #2 | .0081020 | 3.871954 | 7.254378 | .2274501 | 1.023753 | .2175183 |
| #3 | .0072057 | 3.876240 | 7.205873 | .2294464 | 1.025853 | .2185364 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1105799 |
| Stddev | .0035503 |
| %RSD | 3.210571 |
| #1 | .1134183 |
| #2 | .1117223 |
| #3 | .1065991 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2223.892 | 27153.80 | 1399.673 | 1902.483 | 2361.296 |
| Stddev | 9.966 | 38.12 | 5.685 | 5.050 | 15.439 |
| %RSD | .4481546 | .1403843 | .4061518 | .2654641 | .6538522 |
| #1 | 2232.333 | 27130.35 | 1396.517 | 1905.906 | 2375.115 |
| #2 | 2226.445 | 27133.27 | 1396.266 | 1904.861 | 2364.140 |
| #3 | 2212.897 | 27197.79 | 1406.236 | 1896.683 | 2344.632 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-10 Acquired: 12/17/2024 22:44:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL24 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0653995 | .0027750 | .4544377 | .0225742 | .0112751 | 50.51306 |
| Stddev | .0016895 | .0024932 | .0028933 | .0058873 | .0042404 | .41143 |
| %RSD | 2.583364 | 89.84637 | .6366690 | 26.07974 | 37.60886 | .8144993 |
| | | | | | | |
| #1 | .0673490 | .0033060 | .4575383 | .0181987 | .0079415 | 50.68839 |
| #2 | .0643614 | .0049599 | .4539647 | .0292677 | .0098360 | 50.80778 |
| #3 | .0644880 | .0000590 | .4518100 | .0202563 | .0160477 | 50.04301 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8261396 | .0057934 | .0041694 | F 833.4355 | .0889647 | .1216387 |
| Stddev | .0065241 | .0000682 | .0000912 | 4.9409 | .0025986 | .0003834 |
| %RSD | .7897112 | 1.177811 | 2.186777 | .5928335 | 2.920905 | .3152045 |
| | | | | | | |
| #1 | .8304562 | .0057364 | .0040706 | 835.9818 | .0874559 | .1220766 |
| #2 | .8293283 | .0058690 | .0042502 | 836.5838 | .0874730 | .1214762 |
| #3 | .8186344 | .0057748 | .0041875 | 827.7409 | .0919653 | .1213633 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1852090 | 136.6917 | 10.12838 | 116.1926 | .1457084 | .0030372 |
| Stddev | .0037716 | 1.1877 | .06524 | .9696 | .0007831 | .0015259 |
| %RSD | 2.036423 | .8689142 | .6441003 | .8345083 | .5374558 | 50.24172 |
| | | | | | | |
| #1 | .1809986 | 137.2805 | 10.16129 | 116.7330 | .1451529 | .0038698 |
| #2 | .1882783 | 137.4699 | 10.17060 | 116.7717 | .1453683 | .0039658 |
| #3 | .1863501 | 135.3246 | 10.05324 | 115.0732 | .1466041 | .0012761 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.205221 | .1411803 | .5553866 | 6.873386 | 5.501447 | .0134158 |
| Stddev | .474363 | .0179019 | .0179607 | .125910 | .016674 | .0041331 |
| %RSD | 39.35902 | 12.68019 | 3.233905 | 1.831841 | .3030834 | 30.80766 |
| | | | | | | |
| #1 | 1.091824 | .1260810 | .5443168 | 6.882097 | 5.484007 | .0163891 |
| #2 | 1.726005 | .1365034 | .5457334 | 6.743347 | 5.503102 | .0151622 |
| #3 | .797832 | .1609564 | .5761097 | 6.994714 | 5.517231 | .0086962 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-10 Acquired: 12/17/2024 22:44:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL24 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0029167 | 1.572021 | 6.632276 | .0349465 | .6751695 | .5349438 |
| Stddev | .0009023 | .004293 | .034804 | .0025308 | .0087770 | .0029845 |
| %RSD | 30.93603 | .2730795 | .5247739 | 7.241785 | 1.299967 | .5579093 |
| | | | | | | |
| #1 | .0026609 | 1.567106 | 6.613070 | .0349569 | .6815176 | .5372061 |
| #2 | .0039193 | 1.573920 | 6.672452 | .0374720 | .6788374 | .5360641 |
| #3 | .0021699 | 1.575037 | 6.611307 | .0324105 | .6651535 | .5315613 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1335938 |
| Stddev | .0065022 |
| %RSD | 4.867145 |
| | |
| #1 | .1410938 |
| #2 | .1295417 |
| #3 | .1301459 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2063.872 | 24546.26 | 1326.206 | 1711.451 | 2147.136 |
| Stddev | 2.689 | 677.42 | 4.010 | 48.175 | 5.784 |
| %RSD | .1302916 | 2.759764 | .3023811 | 2.814890 | .2693923 |
| | | | | | |
| #1 | 2066.656 | 24836.58 | 1324.524 | 1737.934 | 2153.652 |
| #2 | 2063.671 | 25030.12 | 1323.311 | 1740.575 | 2145.149 |
| #3 | 2061.289 | 23772.06 | 1330.784 | 1655.844 | 2142.607 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-11 Acquired: 12/17/2024 22:48:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL25 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1299222 | -.013338 | 1.390460 | .0474400 | .0212942 | 67.00858 | 1.250062 |
| Stddev | .0025805 | .006590 | .004692 | .0051303 | .0003539 | .35836 | .007343 |
| %RSD | 1.986193 | 49.40862 | .3374607 | 10.81422 | 1.662121 | .5348043 | .5873797 |
| | | | | | | | |
| #1 | .1273304 | -.007803 | 1.385767 | .0527545 | .0211303 | 66.97192 | 1.243806 |
| #2 | .1299449 | -.011584 | 1.395152 | .0425162 | .0217003 | 66.66996 | 1.248234 |
| #3 | .1324913 | -.020628 | 1.390462 | .0470495 | .0210518 | 67.38387 | 1.258146 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0076018 | .0079545 | 549.7189 | .1239941 | .1351167 | .2837545 | 171.3037 |
| Stddev | .0001945 | .0000623 | 2.6967 | .0008604 | .0003609 | .0048902 | 1.0484 |
| %RSD | 2.559129 | .7831949 | .4905564 | .6938817 | .2670822 | 1.723374 | .6119955 |
| | | | | | | | |
| #1 | .0073772 | .0078827 | 550.2327 | .1246840 | .1351182 | .2869858 | 170.5742 |
| #2 | .0077122 | .0079863 | 546.8023 | .1242682 | .1354767 | .2781285 | 170.8317 |
| #3 | .0077160 | .0079944 | 552.1217 | .1230300 | .1347550 | .2861492 | 172.5050 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 12.17702 | 71.54069 | .1876173 | .0064536 | .2148274 | .1773088 | 1.222832 |
| Stddev | .07809 | .42106 | .0013758 | .0006065 | .0941934 | .0096732 | .010206 |
| %RSD | .6412490 | .5885643 | .7332775 | 9.398450 | 43.84610 | 5.455570 | .8345929 |
| | | | | | | | |
| #1 | 12.11709 | 71.29724 | .1863386 | .0058589 | .1161223 | .1665339 | 1.226581 |
| #2 | 12.14864 | 71.29793 | .1890730 | .0064305 | .2246151 | .1801469 | 1.230633 |
| #3 | 12.26532 | 72.02689 | .1874403 | .0070713 | .3037448 | .1852454 | 1.211282 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 8.289456 | 8.918521 | .0019418 | .0045015 | 2.423064 | 7.404952 | .1215171 |
| Stddev | .109800 | .034915 | .0022125 | .0007299 | .019698 | .052793 | .0005381 |
| %RSD | 1.324572 | .3914895 | 113.9405 | 16.21453 | .8129521 | .7129448 | .4427983 |
| | | | | | | | |
| #1 | 8.216981 | 8.900411 | -.000483 | .0050961 | 2.401584 | 7.367799 | .1215491 |
| #2 | 8.235602 | 8.958770 | .002457 | .0047215 | 2.440282 | 7.381673 | .1209637 |
| #3 | 8.415785 | 8.896382 | .003851 | .0036869 | 2.427326 | 7.465384 | .1220384 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-11 Acquired: 12/17/2024 22:48:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL25 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .7937607 | .4261928 | .1548302 |
| Stddev | .0079553 | .0044424 | .0025336 |
| %RSD | 1.002227 | 1.042339 | 1.636352 |
| | | | |
| #1 | .7911819 | .4217265 | .1574449 |
| #2 | .7874146 | .4262411 | .1523865 |
| #3 | .8026854 | .4306109 | .1546591 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2143.546 | 26366.71 | 1374.346 | 1835.959 | 2196.584 |
| Stddev | 9.228 | 36.62 | 10.383 | 9.866 | 12.032 |
| %RSD | .4304970 | .1389010 | .7554588 | .5373698 | .5477524 |
| | | | | | |
| #1 | 2152.894 | 26332.84 | 1381.806 | 1845.222 | 2207.409 |
| #2 | 2134.443 | 26405.58 | 1378.744 | 1837.070 | 2183.630 |
| #3 | 2143.301 | 26361.71 | 1362.488 | 1825.585 | 2198.714 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-12 Acquired: 12/17/2024 22:51:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL26 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0912390 | -.006893 | .3236014 | .0479921 | .0190804 | 71.62914 | 1.570086 |
| Stddev | .0038935 | .002846 | .0010212 | .0012744 | .0044420 | .88268 | .021025 |
| %RSD | 4.267371 | 41.29098 | .3155582 | 2.655357 | 23.28032 | 1.232286 | 1.339125 |
| | | | | | | | |
| #1 | .0919519 | -.006860 | .3224944 | .0465426 | .0241493 | 72.57812 | 1.592761 |
| #2 | .0870383 | -.009756 | .3238034 | .0484976 | .0158671 | 71.47665 | 1.566263 |
| #3 | .0947267 | -.004063 | .3245065 | .0489362 | .0172248 | 70.83264 | 1.551235 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0071937 | .0059824 | 479.4902 | .1070179 | .1390628 | .2332848 | 167.1803 |
| Stddev | .0002880 | .0000788 | 5.9486 | .0010530 | .0007481 | .0099372 | 2.2134 |
| %RSD | 4.003458 | 1.317847 | 1.240613 | .9839197 | .5379692 | 4.259707 | 1.323940 |
| | | | | | | | |
| #1 | .0072478 | .0059568 | 485.5014 | .1081261 | .1397702 | .2243567 | 169.5382 |
| #2 | .0068825 | .0060709 | 479.3630 | .1068969 | .1382797 | .2315066 | 166.8552 |
| #3 | .0074508 | .0059195 | 473.6062 | .1060306 | .1391384 | .2439911 | 165.1474 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 14.87748 | 56.18201 | .1918197 | .0075627 | .5008541 | .1467946 | .5869263 |
| Stddev | .17122 | .82601 | .0013899 | .0009882 | .6930996 | .0023258 | .0066095 |
| %RSD | 1.150884 | 1.470242 | .7245705 | 13.06692 | 138.3835 | 1.584408 | 1.126128 |
| | | | | | | | |
| #1 | 15.04791 | 56.95677 | .1926320 | .0082735 | 1.292223 | .1484167 | .5809014 |
| #2 | 14.87904 | 56.27640 | .1902149 | .0064342 | .001782 | .1478371 | .5858816 |
| #3 | 14.70548 | 55.31286 | .1926123 | .0079803 | .208558 | .1441299 | .5939960 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 7.557607 | 6.307062 | -.005922 | .0030145 | 2.090475 | 8.168577 | .0424617 |
| Stddev | .091392 | .018271 | .003592 | .0005298 | .010007 | .015814 | .0021729 |
| %RSD | 1.209271 | .2896886 | 60.65388 | 17.57406 | .4787051 | .1935902 | 5.117392 |
| | | | | | | | |
| #1 | 7.660527 | 6.301900 | -.002385 | .0032753 | 2.090911 | 8.171057 | .0416057 |
| #2 | 7.485946 | 6.291927 | -.005815 | .0024049 | 2.080256 | 8.151670 | .0449323 |
| #3 | 7.526347 | 6.327358 | -.009566 | .0033633 | 2.100257 | 8.183003 | .0408472 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-12 Acquired: 12/17/2024 22:51:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL26 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .6443451 | .2428342 | .1520643 |
| Stddev | .0079805 | .0025915 | .0029637 |
| %RSD | 1.238542 | 1.067200 | 1.948961 |
| | | | |
| #1 | .6522687 | .2455639 | .1542350 |
| #2 | .6363089 | .2425314 | .1532701 |
| #3 | .6444577 | .2404074 | .1486878 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2205.206 | 27114.08 | 1402.405 | 1890.790 | 2211.611 |
| Stddev | 8.972 | 198.09 | 7.945 | 6.994 | 10.419 |
| %RSD | .4068578 | .7305788 | .5665591 | .3698914 | .4711272 |
| | | | | | |
| #1 | 2210.586 | 26937.10 | 1393.693 | 1885.089 | 2214.648 |
| #2 | 2210.182 | 27077.10 | 1404.271 | 1888.687 | 2220.174 |
| #3 | 2194.848 | 27328.06 | 1409.252 | 1898.594 | 2200.010 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-13 Acquired: 12/17/2024 22:55:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL27 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0692787 | -.009963 | .3138480 | .0281997 | .0192702 | 58.23234 |
| Stddev | .0024436 | .001619 | .0024432 | .0020392 | .0006303 | 1.03522 |
| %RSD | 3.527167 | 16.25004 | .7784577 | 7.231480 | 3.270981 | 1.777737 |
| #1 | .0670898 | -.011663 | .3115751 | .0268404 | .0187483 | 59.00563 |
| #2 | .0719151 | -.009788 | .3135372 | .0305445 | .0190919 | 58.63512 |
| #3 | .0688312 | -.008439 | .3164317 | .0272141 | .0199705 | 57.05627 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.276415 | .0065949 | .0051761 | F 966.7318 | .0966958 | .1400081 |
| Stddev | .026788 | .0001863 | .0001293 | 20.1559 | .0006927 | .0002118 |
| %RSD | 2.098655 | 2.824654 | 2.497106 | 2.084955 | .7163399 | .1512725 |
| #1 | 1.296455 | .0066533 | .0052398 | 980.9958 | .0970232 | .1399353 |
| #2 | 1.286800 | .0067451 | .0050273 | 975.5268 | .0959001 | .1402467 |
| #3 | 1.245990 | .0063865 | .0052611 | 943.6729 | .0971640 | .1398422 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2310923 | 159.6846 | 11.07307 | 76.49233 | .1887998 | .0041489 |
| Stddev | .0124000 | 3.2869 | .22162 | 1.58188 | .0002272 | .0008703 |
| %RSD | 5.365797 | 2.058365 | 2.001427 | 2.068023 | .1203365 | 20.97769 |
| #1 | .2449135 | 161.9295 | 11.23147 | 77.66663 | .1889339 | .0046584 |
| #2 | .2274205 | 161.2125 | 11.16794 | 77.11683 | .1885374 | .0046443 |
| #3 | .2209430 | 155.9119 | 10.81981 | 74.69352 | .1889279 | .0031439 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.270829 | .1492387 | .5308852 | 9.554085 | 6.329271 | .0161705 |
| Stddev | .320923 | .0050278 | .0092695 | .347112 | .030909 | .0018950 |
| %RSD | 118.4965 | 3.368950 | 1.746042 | 3.633123 | .4883446 | 11.71856 |
| #1 | -.629330 | .1468554 | .5393440 | 9.731825 | 6.328270 | .0177746 |
| #2 | -.172812 | .1458458 | .5209761 | 9.776331 | 6.298876 | .0140797 |
| #3 | -.010344 | .1550149 | .5323356 | 9.154100 | 6.360669 | .0166572 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-13 Acquired: 12/17/2024 22:55:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL27 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0007432 | 1.643847 | 7.069042 | .0314018 | .6882564 | .6041205 |
| Stddev | .0003151 | .010015 | .117591 | .0021349 | .0175510 | .0132762 |
| %RSD | 42.39405 | .6092439 | 1.663470 | 6.798765 | 2.550065 | 2.197599 |
| | | | | | | |
| #1 | .0004910 | 1.638335 | 7.174709 | .0325732 | .7040456 | .6146822 |
| #2 | .0010964 | 1.637799 | 7.090058 | .0289376 | .6913646 | .6084624 |
| #3 | .0006422 | 1.655407 | 6.942360 | .0326945 | .6693589 | .5892171 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1665096 |
| Stddev | .0055553 |
| %RSD | 3.336320 |
| | |
| #1 | .1660639 |
| #2 | .1722743 |
| #3 | .1611906 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2078.495 | 25591.63 | 1349.776 | 1774.680 | 2090.969 |
| Stddev | 4.357 | 56.99 | 22.954 | 5.023 | 9.449 |
| %RSD | .2096254 | .2226933 | 1.700545 | .2830332 | .4518886 |
| | | | | | |
| #1 | 2081.216 | 25540.89 | 1331.197 | 1770.586 | 2094.185 |
| #2 | 2080.799 | 25580.69 | 1342.695 | 1773.170 | 2098.390 |
| #3 | 2073.469 | 25653.29 | 1375.436 | 1780.285 | 2080.332 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-14 Acquired: 12/17/2024 22:59:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL68 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0570975 | .0055258 | .3444034 | .0153376 | .0129215 | 51.74582 |
| Stddev | .0043192 | .0091894 | .0008647 | .0041093 | .0032606 | .13931 |
| %RSD | 7.564608 | 166.2991 | .2510707 | 26.79216 | 25.23358 | .2692121 |
| | | | | | | |
| #1 | .0610347 | -.001743 | .3434502 | .0129104 | .0094600 | 51.89910 |
| #2 | .0577802 | .002466 | .3446226 | .0200822 | .0133700 | 51.71144 |
| #3 | .0524776 | .015855 | .3451374 | .0130203 | .0159347 | 51.62692 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6850083 | .0059982 | .0040638 | F 949.6293 | .0872728 | .1178991 |
| Stddev | .0012985 | .0000731 | .0001416 | 1.7602 | .0011178 | .0006941 |
| %RSD | .1895531 | 1.218954 | 3.483570 | .1853550 | 1.280799 | .5887294 |
| | | | | | | |
| #1 | .6838301 | .0059283 | .0041689 | 951.6595 | .0882650 | .1186995 |
| #2 | .6864004 | .0060742 | .0039028 | 948.6971 | .0874917 | .1175362 |
| #3 | .6847945 | .0059922 | .0041198 | 948.5313 | .0860618 | .1174618 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1677424 | 135.3229 | 8.379705 | 85.64843 | .1426952 | .0030178 |
| Stddev | .0146086 | .2784 | .023494 | .08988 | .0007022 | .0010910 |
| %RSD | 8.708968 | .2057320 | .2803650 | .1049352 | .4920907 | 36.15118 |
| | | | | | | |
| #1 | .1845945 | 135.5321 | 8.404787 | 85.66567 | .1434102 | .0041431 |
| #2 | .1586702 | 135.4297 | 8.358213 | 85.72844 | .1420065 | .0019647 |
| #3 | .1599625 | 135.0069 | 8.376114 | 85.55119 | .1426690 | .0029456 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.107492 | .1370888 | .5148738 | 7.480771 | 5.601399 | .0171453 |
| Stddev | .231722 | .0049956 | .0129442 | .228796 | .019953 | .0015323 |
| %RSD | 215.5726 | 3.644039 | 2.514052 | 3.058454 | .3562071 | 8.936969 |
| | | | | | | |
| #1 | -.373353 | .1328381 | .5020739 | 7.506648 | 5.591951 | .0166787 |
| #2 | -.000704 | .1358371 | .5145900 | 7.695528 | 5.587925 | .0188566 |
| #3 | .051582 | .1425912 | .5279576 | 7.240137 | 5.624321 | .0159005 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-14 Acquired: 12/17/2024 22:59:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL68 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0012818 | 1.708329 | 7.087473 | .0368178 | .7944407 | .8401092 |
| Stddev | .0003895 | .004895 | .045409 | .0031603 | .0065900 | .0021248 |
| %RSD | 30.38892 | .2865426 | .6406995 | 8.583640 | .8295155 | .2529175 |
| #1 | .0013140 | 1.708468 | 7.117694 | .0333308 | .7981560 | .8419500 |
| #2 | .0016543 | 1.703365 | 7.035254 | .0376295 | .7868319 | .8377840 |
| #3 | .0008772 | 1.713153 | 7.109471 | .0394930 | .7983343 | .8405934 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1490402 |
| Stddev | .0054802 |
| %RSD | 3.677008 |
| #1 | .1435336 |
| #2 | .1544937 |
| #3 | .1490934 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2016.565 | 24939.06 | 1312.561 | 1722.003 | 2082.735 |
| Stddev | 10.411 | 258.83 | 7.681 | 10.684 | 9.660 |
| %RSD | .5162821 | 1.037840 | .5851825 | .6204244 | .4638054 |
| #1 | 2013.236 | 24802.83 | 1304.205 | 1718.942 | 2080.982 |
| #2 | 2028.234 | 24776.79 | 1314.164 | 1713.184 | 2093.152 |
| #3 | 2008.225 | 25237.55 | 1319.314 | 1733.883 | 2074.072 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-15 Acquired: 12/17/2024 23:03:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL69 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1492897 | -.018508 | .6915021 | .0692153 | .0274713 | 65.75443 | 1.462192 |
| Stddev | .0031603 | .001686 | .0022866 | .0026518 | .0017380 | .51116 | .009844 |
| %RSD | 2.116872 | 9.107911 | .3306647 | 3.831294 | 6.326731 | .7773788 | .6732439 |
| #1 | .1471731 | -.017784 | .6920900 | .0661578 | .0264685 | 65.93699 | 1.466568 |
| #2 | .1477737 | -.020435 | .6889790 | .0705989 | .0264672 | 65.17706 | 1.450919 |
| #3 | .1529224 | -.017306 | .6934373 | .0708893 | .0294782 | 66.14925 | 1.469089 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0071190 | .0086826 | 61.86104 | .1170487 | .1182914 | .2190552 | 162.3660 |
| Stddev | .0001254 | .0000973 | .47522 | .0006994 | .0000643 | .0103745 | .9991 |
| %RSD | 1.761534 | 1.121231 | .7682047 | .5975368 | .0543546 | 4.736011 | .6153495 |
| #1 | .0072333 | .0086188 | 62.13483 | .1169330 | .1182750 | .2265992 | 162.9976 |
| #2 | .0071388 | .0087947 | 61.31230 | .1164144 | .1182368 | .2072243 | 161.2141 |
| #3 | .0069848 | .0086344 | 62.13599 | .1177988 | .1183623 | .2233420 | 162.8863 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 20.41712 | 25.67873 | .2150843 | .0087120 | -.009947 | .1501939 | .7296861 |
| Stddev | .08526 | .03896 | .0007450 | .0004707 | .817626 | .0089044 | .0121198 |
| %RSD | .4175787 | .1517334 | .3463939 | 5.403247 | 8219.827 | 5.928635 | 1.660967 |
| #1 | 20.49725 | 25.66887 | .2146290 | .0092498 | -.942524 | .1561125 | .7213378 |
| #2 | 20.32752 | 25.64564 | .2146799 | .0085113 | .328917 | .1399534 | .7241330 |
| #3 | 20.42660 | 25.72167 | .2159441 | .0083749 | .583766 | .1545159 | .7435875 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 8.616726 | 8.093627 | .0017511 | .0056963 | 4.816865 | 8.303811 | .0569595 |
| Stddev | .104624 | .029517 | .0033164 | .0002655 | .024995 | .031217 | .0014903 |
| %RSD | 1.214198 | .3646936 | 189.3925 | 4.660187 | .5189053 | .3759385 | 2.616432 |
| #1 | 8.718616 | 8.084606 | .0007453 | .0056935 | 4.803048 | 8.331394 | .0580266 |
| #2 | 8.509567 | 8.069674 | -.000946 | .0059631 | 4.801830 | 8.269922 | .0552568 |
| #3 | 8.621996 | 8.126602 | .005454 | .0054322 | 4.845718 | 8.310115 | .0575950 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-15 Acquired: 12/17/2024 23:03:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL69 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .9070766 | -.051816 | .1026496 |
| Stddev | .0117056 | .000218 | .0066981 |
| %RSD | 1.290475 | .4208748 | 6.525232 |
| | | | |
| #1 | .9052001 | -.051856 | .1097791 |
| #2 | .8964226 | -.051581 | .1016817 |
| #3 | .9196071 | -.052012 | .0964881 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2393.398 | 29349.30 | 1473.649 | 2040.132 | 2429.713 |
| Stddev | 9.905 | 76.78 | 5.014 | 5.427 | 10.240 |
| %RSD | .4138571 | .2615997 | .3402625 | .2660206 | .4214683 |
| | | | | | |
| #1 | 2402.254 | 29381.22 | 1469.226 | 2045.182 | 2436.619 |
| #2 | 2395.239 | 29261.72 | 1479.096 | 2034.394 | 2434.573 |
| #3 | 2382.702 | 29404.98 | 1472.625 | 2040.821 | 2417.947 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-16 Acquired: 12/17/2024 23:07:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLC8 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1214501 | -.042677 | 1.102499 | .0571139 | .0231966 | 58.10806 | .9445155 |
| Stddev | .0025851 | .001450 | .005846 | .0040431 | .0027552 | .33750 | .0046555 |
| %RSD | 2.128508 | 3.398419 | .5302706 | 7.078989 | 11.87746 | .5808062 | .4928926 |
| | | | | | | | |
| #1 | .1233112 | -.043842 | 1.096557 | .0606151 | .0262268 | 58.26278 | .9457882 |
| #2 | .1225406 | -.041053 | 1.108244 | .0526889 | .0225207 | 57.72094 | .9393561 |
| #3 | .1184984 | -.043137 | 1.102695 | .0580378 | .0208423 | 58.34046 | .9484023 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0072565 | .0070199 | 57.39966 | .2515679 | .0917706 | .2655504 | 148.6224 |
| Stddev | .0000900 | .0000263 | .38400 | .0007767 | .0010266 | .0198922 | .8164 |
| %RSD | 1.240596 | .3739712 | .6689997 | .3087610 | 1.118640 | 7.490937 | .5493117 |
| | | | | | | | |
| #1 | .0073462 | .0070045 | 57.46473 | .2524577 | .0905862 | .2726921 | 148.8849 |
| #2 | .0071661 | .0070049 | 56.98729 | .2512205 | .0924056 | .2430733 | 147.7071 |
| #3 | .0072572 | .0070502 | 57.74698 | .2510254 | .0923200 | .2808858 | 149.2753 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 6.132826 | 22.53002 | .1441632 | .0049849 | .1377037 | .1595907 | .9047167 |
| Stddev | .036384 | .20604 | .0013193 | .0008169 | .5979182 | .0077067 | .0172209 |
| %RSD | .5932603 | .9144913 | .9151331 | 16.38836 | 434.2063 | 4.829029 | 1.903454 |
| | | | | | | | |
| #1 | 6.143078 | 22.29888 | .1437770 | .0045593 | -.002467 | .1681007 | .9119609 |
| #2 | 6.092416 | 22.59679 | .1456324 | .0044687 | -.377677 | .1530823 | .9171321 |
| #3 | 6.162984 | 22.69438 | .1430800 | .0059268 | .793255 | .1575891 | .8850572 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.617793 | 8.481035 | -.012567 | .0040530 | 2.131923 | 7.673029 | .0747602 |
| Stddev | .135131 | .032774 | .003238 | .0004470 | .009604 | .039075 | .0013131 |
| %RSD | 2.405407 | .3864426 | 25.76601 | 11.02896 | .4505006 | .5092490 | 1.756479 |
| | | | | | | | |
| #1 | 5.735796 | 8.447745 | -.016180 | .0037217 | 2.127228 | 7.717882 | .0761929 |
| #2 | 5.470379 | 8.482091 | -.011594 | .0045614 | 2.125569 | 7.646362 | .0744735 |
| #3 | 5.647204 | 8.513268 | -.009927 | .0038760 | 2.142972 | 7.654842 | .0736140 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-16 Acquired: 12/17/2024 23:07:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLC8 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 1.100189 | -.006046 | .1108348 |
| Stddev | .005414 | .000124 | .0042863 |
| %RSD | .4920735 | 2.044555 | 3.867307 |
| | | | |
| #1 | 1.104962 | -.006066 | .1086483 |
| #2 | 1.094307 | -.006159 | .1080827 |
| #3 | 1.101299 | -.005914 | .1157735 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2143.414 | 26311.02 | 1347.823 | 1826.428 | 2407.340 |
| Stddev | 5.731 | 98.36 | 8.560 | 4.287 | 4.490 |
| %RSD | .2673730 | .3738514 | .6350831 | .2347144 | .1865265 |
| | | | | | |
| #1 | 2148.978 | 26245.06 | 1341.833 | 1822.242 | 2411.696 |
| #2 | 2143.735 | 26424.08 | 1357.627 | 1830.809 | 2402.727 |
| #3 | 2137.530 | 26263.93 | 1344.009 | 1826.235 | 2407.597 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-17 Acquired: 12/17/2024 23:11:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLC9 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0938941 | -.060068 | .5219432 | .0712491 | .0326415 | 70.57253 | .8400178 |
| Stddev | .0104493 | .003859 | .0014881 | .0041212 | .0038881 | 1.05705 | .0123907 |
| %RSD | 11.12881 | 6.424625 | .2851151 | 5.784161 | 11.91151 | 1.497820 | 1.475047 |
| #1 | .0887410 | -.055878 | .5203827 | .0716640 | .0366452 | 71.79304 | .8542758 |
| #2 | .1059190 | -.060848 | .5221002 | .0751471 | .0323991 | 69.97285 | .8339191 |
| #3 | .0870223 | -.063477 | .5233466 | .0669362 | .0288803 | 69.95168 | .8318585 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0080611 | .0046897 | 37.33069 | .1725727 | .0953582 | .1628718 | 173.2783 |
| Stddev | .0002588 | .0000814 | .49674 | .0016426 | .0011598 | .0176040 | 2.6183 |
| %RSD | 3.210205 | 1.736142 | 1.330639 | .9518045 | 1.216245 | 10.80851 | 1.511051 |
| #1 | .0083533 | .0046038 | 37.90259 | .1737182 | .0942108 | .1798568 | 176.2839 |
| #2 | .0079694 | .0046996 | 37.00678 | .1733090 | .0965300 | .1640506 | 171.4921 |
| #3 | .0078607 | .0047658 | 37.08268 | .1706908 | .0953338 | .1447080 | 172.0589 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 6.182619 | 22.33276 | .1433790 | .0052475 | .3422430 | .1966028 | .4802501 |
| Stddev | .095208 | .29319 | .0002369 | .0013586 | .4780238 | .0178470 | .0247314 |
| %RSD | 1.539936 | 1.312817 | .1651992 | 25.88959 | 139.6738 | 9.077667 | 5.149683 |
| #1 | 6.291519 | 22.66254 | .1436309 | .0063827 | -.135954 | .2171588 | .5063257 |
| #2 | 6.115122 | 22.23417 | .1431608 | .0056174 | .820094 | .1850587 | .4571282 |
| #3 | 6.141217 | 22.10158 | .1433454 | .0037423 | .342589 | .1875910 | .4772965 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.882314 | 7.687308 | -.024256 | .0031560 | 1.561631 | 7.443658 | .0656737 |
| Stddev | .294944 | .029884 | .003709 | .0001358 | .006827 | .097012 | .0013752 |
| %RSD | 5.014080 | .3887483 | 15.29011 | 4.303397 | .4371980 | 1.303285 | 2.093939 |
| #1 | 5.977615 | 7.655113 | -.024635 | .0032971 | 1.555709 | 7.548588 | .0666136 |
| #2 | 5.551502 | 7.714161 | -.027760 | .0031449 | 1.560085 | 7.425160 | .0640953 |
| #3 | 6.117825 | 7.692651 | -.020372 | .0030261 | 1.569099 | 7.357227 | .0663121 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-17 Acquired: 12/17/2024 23:11:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLC9 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 1.257575 | -.060946 | .1402780 |
| Stddev | .018978 | .000602 | .0033796 |
| %RSD | 1.509093 | .9871282 | 2.409236 |
| | | | |
| #1 | 1.279362 | -.061568 | .1429976 |
| #2 | 1.244648 | -.060367 | .1364944 |
| #3 | 1.248713 | -.060902 | .1413420 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2224.644 | 27487.18 | 1383.760 | 1919.215 | 2449.415 |
| Stddev | 7.379 | 229.55 | 23.417 | 11.836 | 7.717 |
| %RSD | .3316901 | .8351080 | 1.692293 | .6167307 | .3150753 |
| | | | | | |
| #1 | 2233.164 | 27270.50 | 1357.950 | 1911.866 | 2457.811 |
| #2 | 2220.312 | 27463.30 | 1389.682 | 1912.909 | 2442.631 |
| #3 | 2220.456 | 27727.73 | 1403.648 | 1932.869 | 2447.802 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-18 Acquired: 12/17/2024 23:15:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLD0 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0624618 | -.087358 | .1763273 | .0963736 | .0396497 | 72.37684 | .7530978 |
| Stddev | .0013955 | .007100 | .0050131 | .0007654 | .0012745 | .40757 | .0062729 |
| %RSD | 2.234108 | 8.126943 | 2.843088 | .7941769 | 3.214298 | .5631204 | .8329420 |
| #1 | .0638850 | -.090151 | .1761741 | .0956894 | .0393507 | 72.24193 | .7536852 |
| #2 | .0610959 | -.079287 | .1713925 | .0972002 | .0410470 | 72.05383 | .7465519 |
| #3 | .0624044 | -.092636 | .1814153 | .0962312 | .0385513 | 72.83476 | .7590563 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0097310 | .0038296 | 25.33749 | .1498452 | .1105900 | .1132995 | 218.7599 |
| Stddev | .0000516 | .0000612 | .22650 | .0010584 | .0001149 | .0096133 | 1.0892 |
| %RSD | .5300340 | 1.596989 | .8939489 | .7062982 | .1038818 | 8.484811 | .4978936 |
| #1 | .0097116 | .0038053 | 25.42280 | .1494128 | .1105017 | .1061320 | 218.3737 |
| #2 | .0096919 | .0038991 | 25.08072 | .1490715 | .1105485 | .1095425 | 217.9164 |
| #3 | .0097894 | .0037843 | 25.50896 | .1510513 | .1107199 | .1242239 | 219.9895 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 7.812532 | 32.66048 | .2183615 | .0048894 | .0437057 | .1651206 | .3445050 |
| Stddev | .053155 | .08014 | .0012253 | .0001075 | .8161856 | .0147137 | .0017379 |
| %RSD | .6803839 | .2453700 | .5611500 | 2.199117 | 1867.460 | 8.910874 | .5044680 |
| #1 | 7.780839 | 32.59270 | .2181040 | .0049516 | -.807991 | .1787137 | .3439618 |
| #2 | 7.782859 | 32.63982 | .2172853 | .0049514 | .819009 | .1494972 | .3464496 |
| #3 | 7.873900 | 32.74893 | .2196951 | .0047653 | .120098 | .1671509 | .3431035 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 9.922642 | 5.208479 | -.022049 | .0017501 | .7512464 | 7.894839 | .0365388 |
| Stddev | .046117 | .039529 | .006038 | .0002223 | .0065789 | .064390 | .0009163 |
| %RSD | .4647629 | .7589354 | 27.38424 | 12.70170 | .8757272 | .8155914 | 2.507762 |
| #1 | 9.943559 | 5.204530 | -.021023 | .0019279 | .7571258 | 7.856804 | .0357194 |
| #2 | 9.869774 | 5.171072 | -.016590 | .0015009 | .7441407 | 7.858531 | .0375282 |
| #3 | 9.954594 | 5.249834 | -.028534 | .0018216 | .7524727 | 7.969183 | .0363687 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-18 Acquired: 12/17/2024 23:15:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLD0 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 1.353233 | -.130031 | .1567933 |
| Stddev | .008060 | .000646 | .0047052 |
| %RSD | .5955926 | .4971564 | 3.000888 |
| | | | |
| #1 | 1.350340 | -.130408 | .1614663 |
| #2 | 1.347019 | -.129284 | .1568572 |
| #3 | 1.362340 | -.130400 | .1520565 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2265.751 | 27752.53 | 1403.608 | 1939.975 | 2406.316 |
| Stddev | 8.176 | 176.54 | 3.746 | 6.284 | 13.738 |
| %RSD | .3608490 | .6361352 | .2669154 | .3239207 | .5709228 |
| | | | | | |
| #1 | 2261.207 | 27663.52 | 1406.667 | 1935.084 | 2404.423 |
| #2 | 2275.190 | 27638.20 | 1404.728 | 1937.779 | 2420.903 |
| #3 | 2260.856 | 27955.86 | 1399.429 | 1947.062 | 2393.623 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-19 Acquired: 12/17/2024 23:18:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLD1 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1463213 | -.035973 | .2694091 | .0901688 | .0299890 | 57.90793 | 1.481223 |
| Stddev | .0006687 | .001586 | .0021668 | .0048131 | .0019852 | .67973 | .016565 |
| %RSD | .4569871 | 4.408202 | .8042814 | 5.337833 | 6.619857 | 1.173803 | 1.118330 |
| #1 | .1468115 | -.037437 | .2673085 | .0868382 | .0286255 | 57.18187 | 1.465300 |
| #2 | .1455596 | -.036194 | .2692823 | .0956871 | .0290749 | 58.01279 | 1.480006 |
| #3 | .1465929 | -.034288 | .2716366 | .0879811 | .0322666 | 58.52914 | 1.498363 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0061560 | .0071619 | 35.96661 | .1102030 | .1410824 | .2080552 | 187.7786 |
| Stddev | .0001474 | .0001032 | .52968 | .0013325 | .0008821 | .0065620 | 1.9238 |
| %RSD | 2.394058 | 1.441211 | 1.472687 | 1.209144 | .6252374 | 3.153963 | 1.024500 |
| #1 | .0060953 | .0070546 | 35.46818 | .1111451 | .1402035 | .2053736 | 185.7983 |
| #2 | .0060487 | .0072604 | 35.90884 | .1107854 | .1419677 | .2032588 | 187.8970 |
| #3 | .0063241 | .0071708 | 36.52280 | .1086784 | .1410761 | .2155334 | 189.6404 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 22.71035 | 31.35515 | .2684997 | .0066500 | -.316040 | .1529754 | .4376669 |
| Stddev | .24936 | .39305 | .0002655 | .0005332 | .283976 | .0029819 | .0174368 |
| %RSD | 1.097992 | 1.253551 | .0988763 | 8.017444 | 89.85441 | 1.949261 | 3.984031 |
| #1 | 22.44585 | 30.96308 | .2686606 | .0060347 | -.608709 | .1508108 | .4344336 |
| #2 | 22.74407 | 31.35319 | .2686453 | .0069407 | -.297770 | .1517388 | .4220731 |
| #3 | 22.94113 | 31.74918 | .2681933 | .0069747 | -.041640 | .1563767 | .4564940 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 7.601076 | 5.775031 | -.022688 | .0060749 | .6651975 | 7.306492 | .0290746 |
| Stddev | .103584 | .029449 | .000857 | .0002396 | .0075480 | .091559 | .0023157 |
| %RSD | 1.362748 | .5099297 | 3.775739 | 3.944400 | 1.134708 | 1.253119 | 7.964736 |
| #1 | 7.584433 | 5.751999 | -.022255 | .0059320 | .6641827 | 7.200831 | .0281271 |
| #2 | 7.711973 | 5.764883 | -.022135 | .0059412 | .6732016 | 7.356160 | .0273829 |
| #3 | 7.506821 | 5.808212 | -.023675 | .0063516 | .6582082 | 7.362484 | .0317138 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-19 Acquired: 12/17/2024 23:18:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLD1 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .8179137 | -.083357 | .1195916 |
| Stddev | .0085297 | .000940 | .0067855 |
| %RSD | 1.042859 | 1.127880 | 5.673911 |
| | | | |
| #1 | .8105959 | -.082272 | .1119253 |
| #2 | .8158635 | -.083900 | .1248263 |
| #3 | .8272816 | -.083901 | .1220231 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2304.990 | 28320.65 | 1428.714 | 1982.118 | 2405.686 |
| Stddev | 10.012 | 116.64 | 15.164 | 7.669 | 11.544 |
| %RSD | .4343572 | .4118473 | 1.061409 | .3869106 | .4798738 |
| | | | | | |
| #1 | 2312.601 | 28189.63 | 1445.862 | 1974.198 | 2413.905 |
| #2 | 2308.721 | 28359.18 | 1423.213 | 1982.649 | 2410.664 |
| #3 | 2293.648 | 28413.15 | 1417.068 | 1989.508 | 2392.488 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-20 Acquired: 12/17/2024 23:22:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLD2 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1662731 | -.015194 | .3560781 | .1215512 | .0406697 | 77.17804 |
| Stddev | .0017419 | .004897 | .0025081 | .0035869 | .0015617 | .19902 |
| %RSD | 1.047622 | 32.22773 | .7043575 | 2.950958 | 3.840025 | .2578749 |
| #1 | .1680059 | -.016884 | .3581893 | .1236821 | .0421839 | 77.39283 |
| #2 | .1662911 | -.009676 | .3567394 | .1174099 | .0407608 | 77.14140 |
| #3 | .1645222 | -.019022 | .3533057 | .1235614 | .0390645 | 76.99987 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.744421 | .0061297 | .0150012 | 42.82757 | .1774108 | .1641331 |
| Stddev | .007557 | .0001204 | .0001062 | .29272 | .0017298 | .0009790 |
| %RSD | .2753557 | 1.963717 | .7079418 | .6834893 | .9750456 | .5964682 |
| #1 | 2.745512 | .0062577 | .0148914 | 43.16147 | .1783680 | .1631105 |
| #2 | 2.751374 | .0061127 | .0150089 | 42.70613 | .1784504 | .1642270 |
| #3 | 2.736378 | .0060187 | .0151034 | 42.61511 | .1754139 | .1650617 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3078819 | 248.1098 | F 44.11982 | 37.78531 | .4618041 | .0129716 |
| Stddev | .0074321 | 1.2777 | .20986 | .17014 | .0020541 | .0010178 |
| %RSD | 2.413945 | .5149580 | .4756554 | .4502772 | .4447977 | 7.846547 |
| #1 | .3158638 | 248.5445 | 44.22942 | 37.84087 | .4600001 | .0124155 |
| #2 | .3066207 | 249.1133 | 44.25218 | 37.92072 | .4613725 | .0141463 |
| #3 | .3011610 | 246.6715 | 43.87785 | 37.59433 | .4640397 | .0123530 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7142637 | .2221481 | .6791552 | 11.29244 | 7.826036 | -.048637 |
| Stddev | .4429883 | .0113662 | .0143165 | .11876 | .031218 | .001683 |
| %RSD | 62.02028 | 5.116510 | 2.107986 | 1.051635 | .3989000 | 3.460373 |
| #1 | .6675463 | .2171612 | .6936228 | 11.16297 | 7.796913 | -.050425 |
| #2 | 1.178759 | .2141277 | .6788482 | 11.31805 | 7.822199 | -.048402 |
| #3 | .296485 | .2351553 | .6649947 | 11.39631 | 7.858995 | -.047083 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-20 Acquired: 12/17/2024 23:22:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLD2 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0041819 | .9436907 | 7.207376 | .2145373 | 1.550516 | -.094586 |
| Stddev | .0004888 | .0045666 | .021556 | .0018224 | .009631 | .000709 |
| %RSD | 11.68893 | .4839082 | .2990792 | .8494573 | .6211158 | .7496354 |
| | | | | | | |
| #1 | .0046656 | .9473298 | 7.222755 | .2124330 | 1.545090 | -.094160 |
| #2 | .0041918 | .9385664 | 7.216635 | .2156035 | 1.561635 | -.095404 |
| #3 | .0036882 | .9451759 | 7.182737 | .2155753 | 1.544823 | -.094193 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1497870 |
| Stddev | .0024443 |
| %RSD | 1.631844 |
| | |
| #1 | .1525182 |
| #2 | .1478049 |
| #3 | .1490379 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2463.343 | 30243.76 | 1536.756 | 2113.222 | 2375.934 |
| Stddev | 14.529 | 118.67 | 6.308 | 7.352 | 14.561 |
| %RSD | .5898036 | .3923736 | .4104812 | .3479091 | .6128331 |
| | | | | | |
| #1 | 2473.616 | 30111.05 | 1532.619 | 2104.818 | 2389.993 |
| #2 | 2469.694 | 30280.57 | 1533.632 | 2116.382 | 2376.890 |
| #3 | 2446.720 | 30339.67 | 1544.016 | 2118.466 | 2360.919 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-21 Acquired: 12/17/2024 23:26:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLD3 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0572370 | -.004381 | .4081491 | .0263007 | .0147232 | 42.20449 | .4651824 |
| Stddev | .0025780 | .003329 | .0042634 | .0059949 | .0017589 | .05175 | .0004610 |
| %RSD | 4.504031 | 76.00229 | 1.044560 | 22.79376 | 11.94654 | .1226226 | .0991034 |
| #1 | .0560466 | -.008203 | .4033596 | .0331896 | .0142279 | 42.20026 | .4657138 |
| #2 | .0601951 | -.002827 | .4095584 | .0222682 | .0132650 | 42.15498 | .4649433 |
| #3 | .0554693 | -.002112 | .4115294 | .0234443 | .0166766 | 42.25823 | .4648900 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0051818 | .0032184 | 417.4158 | .0815264 | .1153744 | .2252865 | 135.0015 |
| Stddev | .0001213 | .0001446 | .7693 | .0012472 | .0003402 | .0158459 | .0327 |
| %RSD | 2.341312 | 4.492146 | .1842910 | 1.529781 | .2948445 | 7.033664 | .0242465 |
| #1 | .0052851 | .0033102 | 416.7122 | .0804159 | .1150339 | .2312217 | 134.9642 |
| #2 | .0052121 | .0030518 | 418.2371 | .0828757 | .1157143 | .2373079 | 135.0252 |
| #3 | .0050482 | .0032933 | 417.2981 | .0812876 | .1153750 | .2073298 | 135.0152 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 7.359449 | 84.17925 | .1601936 | .0040803 | -.159090 | .1115962 | .5212445 |
| Stddev | .007868 | .36645 | .0009599 | .0004341 | .995954 | .0063900 | .0143879 |
| %RSD | .1069091 | .4353219 | .5992358 | 10.63943 | 626.0332 | 5.726024 | 2.760293 |
| #1 | 7.354388 | 83.92190 | .1594091 | .0035968 | .453353 | .1169572 | .5119754 |
| #2 | 7.368513 | 84.01703 | .1612640 | .0042077 | -1.30829 | .1045251 | .5378195 |
| #3 | 7.355445 | 84.59881 | .1599078 | .0044366 | .37767 | .1133064 | .5139386 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.510654 | 9.617540 | -.006173 | .0036289 | .7973630 | 6.659119 | .0365194 |
| Stddev | .033792 | .072033 | .003385 | .0003603 | .0086330 | .031569 | .0020659 |
| %RSD | .7491617 | .7489789 | 54.84144 | 9.929548 | 1.082688 | .4740769 | 5.657095 |
| #1 | 4.512872 | 9.534384 | -.008504 | .0032755 | .7893133 | 6.695437 | .0346747 |
| #2 | 4.475807 | 9.660721 | -.002290 | .0036155 | .7962958 | 6.643673 | .0387517 |
| #3 | 4.543282 | 9.657517 | -.007725 | .0039958 | .8064800 | 6.638246 | .0361320 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-21 Acquired: 12/17/2024 23:26:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLD3 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .7986022 | .3360597 | .1204758 |
| Stddev | .0025862 | .0002408 | .0057543 |
| %RSD | .3238371 | .0716476 | 4.776347 |
| | | | |
| #1 | .7995904 | .3360943 | .1207966 |
| #2 | .8005485 | .3362814 | .1260631 |
| #3 | .7956676 | .3358035 | .1145678 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2075.323 | 25670.26 | 1317.810 | 1779.216 | 2218.971 |
| Stddev | 17.673 | 213.95 | 5.971 | 11.406 | 23.469 |
| %RSD | .8515805 | .8334582 | .4531173 | .6410621 | 1.057672 |
| | | | | | |
| #1 | 2095.578 | 25904.41 | 1312.125 | 1792.377 | 2245.886 |
| #2 | 2063.042 | 25484.97 | 1324.031 | 1773.049 | 2202.772 |
| #3 | 2067.350 | 25621.39 | 1317.272 | 1772.221 | 2208.255 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-22 Acquired: 12/17/2024 23:30:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL44 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1387491 | -.015655 | 2.542891 | .0421400 | .0198302 | 66.34781 |
| Stddev | .0028322 | .007893 | .012404 | .0031732 | .0030062 | .17552 |
| %RSD | 2.041260 | 50.41836 | .4878002 | 7.530167 | 15.16000 | .2645449 |
| #1 | .1355306 | -.007644 | 2.532229 | .0435161 | .0232899 | 66.44499 |
| #2 | .1408609 | -.023425 | 2.539940 | .0385110 | .0183456 | 66.14520 |
| #3 | .1398557 | -.015897 | 2.556505 | .0443929 | .0178550 | 66.45325 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.748436 | .0073535 | .0076047 | 285.1768 | .1558513 | .1199351 |
| Stddev | .010016 | .0001547 | .0001331 | .6693 | .0014838 | .0005801 |
| %RSD | .5728808 | 2.103828 | 1.750294 | .2346966 | .9520551 | .4837145 |
| #1 | 1.754916 | .0072336 | .0077570 | 285.1851 | .1559103 | .1195510 |
| #2 | 1.736899 | .0075281 | .0075464 | 284.5034 | .1543390 | .1206025 |
| #3 | 1.753492 | .0072988 | .0075107 | 285.8420 | .1573048 | .1196519 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7319415 | 148.4343 | 7.687472 | 47.63191 | .1733973 | .0072718 |
| Stddev | .0107602 | .7548 | .038430 | .33684 | .0009117 | .0000662 |
| %RSD | 1.470088 | .5084876 | .4999079 | .7071657 | .5257975 | .9108103 |
| #1 | .7393243 | 148.1616 | 7.684434 | 47.54376 | .1740301 | .0073298 |
| #2 | .7195955 | 147.8538 | 7.650652 | 47.34791 | .1723523 | .0071996 |
| #3 | .7369046 | 149.2875 | 7.727332 | 48.00406 | .1738095 | .0072860 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0071103 | .1613528 | 1.788642 | 10.88163 | F 14.00532 | .0395959 |
| Stddev | .2582993 | .0055638 | .022753 | .06357 | .05719 | .0033155 |
| %RSD | 3632.761 | 3.448210 | 1.272066 | .5841834 | .4083573 | 8.373255 |
| #1 | -.165856 | .1554704 | 1.772525 | 10.93323 | 13.94036 | .0357781 |
| #2 | .304023 | .1620572 | 1.778733 | 10.90104 | 14.02752 | .0412593 |
| #3 | -.116836 | .1665309 | 1.814669 | 10.81062 | 14.04808 | .0417504 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5062-22 Acquired: 12/17/2024 23:30:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL44 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0029965 | 3.171301 | 7.819989 | .1809273 | .7273390 | .2717794 |
| Stddev | .0003891 | .016271 | .030694 | .0012408 | .0049785 | .0015138 |
| %RSD | 12.98426 | .5130641 | .3925058 | .6857955 | .6844850 | .5570096 |
| | | | | | | |
| #1 | .0032916 | 3.152573 | 7.854584 | .1796969 | .7231530 | .2715394 |
| #2 | .0031423 | 3.181972 | 7.796020 | .1809069 | .7260196 | .2703999 |
| #3 | .0025556 | 3.179356 | 7.809364 | .1821782 | .7328443 | .2733989 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1493631 |
| Stddev | .0040081 |
| %RSD | 2.683467 |
| | |
| #1 | .1491486 |
| #2 | .1454666 |
| #3 | .1534742 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2147.888 | 26486.57 | 1347.382 | 1835.286 | 2270.815 |
| Stddev | .469 | 56.63 | 4.581 | 4.015 | 5.191 |
| %RSD | .0218359 | .2138077 | .3400141 | .2187713 | .2286049 |
| | | | | | |
| #1 | 2148.264 | 26447.01 | 1342.098 | 1830.973 | 2276.104 |
| #2 | 2148.039 | 26551.44 | 1350.233 | 1838.916 | 2270.614 |
| #3 | 2147.362 | 26461.26 | 1349.817 | 1835.969 | 2265.727 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-01 Acquired: 12/17/2024 23:34:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKS4 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0826906 | -.039422 | 1.281301 | .0512317 | .0248182 | 62.57892 |
| Stddev | .0016533 | .004388 | .004827 | .0049429 | .0014170 | .29637 |
| %RSD | 1.999376 | 11.13052 | .3767222 | 9.648033 | 5.709413 | .4735893 |
| #1 | .0845577 | -.038165 | 1.278511 | .0565192 | .0244881 | 62.54574 |
| #2 | .0814122 | -.044300 | 1.278517 | .0467269 | .0235954 | 62.89048 |
| #3 | .0821020 | -.035799 | 1.286874 | .0504489 | .0263711 | 62.30054 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.236705 | .0080501 | .0074165 | 128.6043 | .1181072 | .1021209 |
| Stddev | .003933 | .0000614 | .0001180 | .6368 | .0006329 | .0011764 |
| %RSD | .3180180 | .7630003 | 1.591225 | .4951809 | .5358897 | 1.151969 |
| #1 | 1.239722 | .0081129 | .0075157 | 128.9478 | .1184399 | .1010080 |
| #2 | 1.238136 | .0079901 | .0072860 | 128.9956 | .1173773 | .1020028 |
| #3 | 1.232257 | .0080472 | .0074478 | 127.8695 | .1185044 | .1033519 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2805221 | 158.4637 | 4.367256 | 41.55663 | .1750243 | .0045399 |
| Stddev | .0116609 | .7569 | .013854 | .10465 | .0003821 | .0009702 |
| %RSD | 4.156863 | .4776291 | .3172204 | .2518153 | .2183169 | 21.37160 |
| #1 | .2670911 | 158.8197 | 4.367988 | 41.58046 | .1750597 | .0047157 |
| #2 | .2880639 | 158.9769 | 4.380729 | 41.64730 | .1746258 | .0054102 |
| #3 | .2864114 | 157.5945 | 4.353050 | 41.44212 | .1753875 | .0034938 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.057457 | .1771707 | 1.757861 | 9.923673 | F 16.27213 | .0014676 |
| Stddev | 1.155719 | .0061267 | .018698 | .093818 | .07088 | .0028480 |
| %RSD | 2011.445 | 3.458071 | 1.063697 | .9453929 | .4355703 | 194.0631 |
| #1 | -1.29166 | .1713060 | 1.742319 | 10.02601 | 16.24898 | .0018328 |
| #2 | .12006 | .1766766 | 1.778611 | 9.84172 | 16.21572 | .0041154 |
| #3 | .99923 | .1835294 | 1.752653 | 9.90330 | 16.35168 | -.001545 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-01 Acquired: 12/17/2024 23:34:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKS4 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0073570 | 4.053715 | 8.701830 | .0770345 | .9550747 | .0796991 |
| Stddev | .0003231 | .009257 | .039848 | .0015831 | .0050891 | .0005227 |
| %RSD | 4.391835 | .2283640 | .4579319 | 2.054995 | .5328534 | .6557745 |
| #1 | .0077301 | 4.054585 | 8.719259 | .0752068 | .9531239 | .0800496 |
| #2 | .0071690 | 4.044053 | 8.729995 | .0779725 | .9608507 | .0799494 |
| #3 | .0071719 | 4.062506 | 8.656237 | .0779243 | .9512496 | .0790984 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1232619 |
| Stddev | .0013604 |
| %RSD | 1.103628 |
| #1 | .1248293 |
| #2 | .1225679 |
| #3 | .1223885 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2206.737 | 27093.50 | 1382.743 | 1884.113 | 2349.733 |
| Stddev | 2.589 | 40.73 | 3.383 | 6.175 | 5.965 |
| %RSD | .1173420 | .1503495 | .2446629 | .3277367 | .2538419 |
| #1 | 2203.801 | 27051.65 | 1383.385 | 1878.744 | 2344.273 |
| #2 | 2207.719 | 27095.82 | 1379.085 | 1882.733 | 2356.098 |
| #3 | 2208.692 | 27133.02 | 1385.759 | 1890.861 | 2348.827 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: CCV053 Acquired: 12/17/2024 23:38:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCV053 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.132632 | 4.982770 | 24.66204 | 5.170294 | 5.146518 | 393.3237 | 10.22689 |
| Stddev | .018067 | .029144 | .12896 | .025026 | .028290 | 2.6135 | .07595 |
| %RSD | .3520040 | .5848907 | .5229135 | .4840325 | .5496921 | .6644643 | .7426218 |
| | | | | | | | |
| #1 | 5.125283 | 4.954553 | 24.56371 | 5.147474 | 5.128377 | 390.3173 | 10.14045 |
| #2 | 5.119397 | 4.980997 | 24.61435 | 5.166352 | 5.132062 | 394.5993 | 10.25729 |
| #3 | 5.153215 | 5.012759 | 24.80805 | 5.197057 | 5.179115 | 395.0544 | 10.28293 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5152824 | 2.494194 | 406.0684 | 15.52989 | 2.507725 | 15.08043 | 402.1083 |
| Stddev | .0018120 | .011302 | 3.4796 | .10931 | .011440 | .15652 | 2.6813 |
| %RSD | .3516467 | .4531164 | .8569003 | .7038801 | .4562043 | 1.037914 | .6668141 |
| | | | | | | | |
| #1 | .5151661 | 2.486100 | 402.0586 | 15.55760 | 2.499175 | 14.90698 | 399.0184 |
| #2 | .5135315 | 2.489375 | 408.2942 | 15.62268 | 2.503279 | 15.12314 | 403.4831 |
| #3 | .5171498 | 2.507106 | 407.8524 | 15.40939 | 2.520721 | 15.21115 | 403.8233 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 15.54063 | 402.4940 | 2.504804 | 1.290545 | 391.2049 | 2.523407 | 15.43136 |
| Stddev | .13577 | 3.9049 | .008004 | .006829 | 2.5156 | .017016 | .23977 |
| %RSD | .8736675 | .9701663 | .3195569 | .5291810 | .6430367 | .6743243 | 1.553758 |
| | | | | | | | |
| #1 | 15.39216 | 398.0405 | 2.500016 | 1.295718 | 388.6906 | 2.503804 | 15.17976 |
| #2 | 15.57125 | 404.1099 | 2.500350 | 1.293114 | 391.2024 | 2.534356 | 15.65721 |
| #3 | 15.65848 | 405.3315 | 2.514044 | 1.282804 | 393.7217 | 2.532062 | 15.45710 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 155.0141 | 4.967415 | 4.875900 | 4.753822 | 4.944415 | 4.999983 | 5.012650 |
| Stddev | 1.3831 | .024623 | .024417 | .023638 | .024555 | .015681 | .024720 |
| %RSD | .8922525 | .4956891 | .5007685 | .4972403 | .4966251 | .3136138 | .4931546 |
| | | | | | | | |
| #1 | 153.4442 | 4.947808 | 4.848248 | 4.735412 | 4.929202 | 4.983353 | 5.002398 |
| #2 | 155.5449 | 4.959386 | 4.894493 | 4.745577 | 4.931301 | 5.002095 | 4.994706 |
| #3 | 156.0531 | 4.995050 | 4.884958 | 4.780479 | 4.972743 | 5.014500 | 5.040847 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: CCV053 Acquired: 12/17/2024 23:38:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCV053 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 5.066057 | 4.796442 | 5.075360 |
| Stddev | .043145 | .041896 | .054544 |
| %RSD | .8516390 | .8734724 | 1.074679 |
| | | | |
| #1 | 5.016823 | 4.749683 | 5.019849 |
| #2 | 5.084083 | 4.809077 | 5.077349 |
| #3 | 5.097265 | 4.830566 | 5.128882 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1526.736 | 20772.45 | 1124.693 | 1357.440 | 1982.864 |
| Stddev | 3.350 | 111.67 | 5.311 | 9.783 | 3.051 |
| %RSD | .2193912 | .5376078 | .4722295 | .7207213 | .1538539 |
| | | | | | |
| #1 | 1529.513 | 20730.54 | 1129.408 | 1357.153 | 1985.473 |
| #2 | 1527.679 | 20687.79 | 1125.730 | 1347.803 | 1983.611 |
| #3 | 1523.016 | 20899.02 | 1118.939 | 1367.364 | 1979.510 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: CCB053 Acquired: 12/17/2024 23:41:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCB053 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0014727 | .0056361 | -.001425 | -.004298 | -.002192 | .0474694 |
| Stddev | .0030747 | .0005022 | .000389 | .000615 | .001135 | .0281596 |
| %RSD | 208.7867 | 8.910607 | 27.28159 | 14.30001 | 51.75585 | 59.32155 |
| #1 | .0039393 | .0062160 | -.001826 | -.004401 | -.002433 | .0692047 |
| #2 | -.001972 | .0053453 | -.001050 | -.003638 | -.000957 | .0156579 |
| #3 | .002451 | .0053470 | -.001399 | -.004855 | -.003187 | .0575456 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0035767 | .0000481 | -.000125 | -.038222 | .0015608 | -.000216 |
| Stddev | .0012235 | .0000551 | .000106 | .090547 | .0004286 | .000307 |
| %RSD | 34.20633 | 114.5333 | 84.62239 | 236.8944 | 27.45975 | 141.9043 |
| #1 | .0037035 | .0000103 | -.000042 | -.142611 | .0018265 | .000099 |
| #2 | .0047319 | .0001114 | -.000244 | .019067 | .0017896 | -.000514 |
| #3 | .0022948 | .0000227 | -.000089 | .008877 | .0010664 | -.000234 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.003237 | .0086587 | .0006624 | -.012051 | .0000442 | .0008463 |
| Stddev | .009536 | .0804118 | .0016145 | .067540 | .0011136 | .0008913 |
| %RSD | 294.6061 | 928.6847 | 243.7381 | 560.4546 | 2516.822 | 105.3244 |
| #1 | -.014176 | .0996156 | .0002668 | .037657 | -.000603 | .0000039 |
| #2 | .001139 | -.052981 | -.000718 | .015139 | .001330 | .0017796 |
| #3 | .003326 | -.020658 | .002438 | -.088949 | -.000595 | .0007554 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.959911 | .0101974 | .0243493 | -.092292 | .0008842 | .0151419 |
| Stddev | .558443 | .0090772 | .0157145 | .228761 | .0020414 | .0027660 |
| %RSD | 58.17658 | 89.01540 | 64.53771 | 247.8671 | 230.8921 | 18.26724 |
| #1 | -1.58433 | .0136081 | .0402375 | .002689 | -.000195 | .0183138 |
| #2 | -.50829 | -.000091 | .0088144 | -.353243 | -.000391 | .0132316 |
| #3 | -.78711 | .017075 | .0239962 | .073679 | .003239 | .0138804 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: CCB053 Acquired: 12/17/2024 23:41:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCB053 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000649 | .0071841 | .0000449 | .0002820 | -.004678 | .0000021 |
| Stddev | .000177 | .0023052 | .0007989 | .0006989 | .002725 | .0002039 |
| %RSD | 27.31162 | 32.08713 | 1778.956 | 247.8762 | 58.23944 | 9913.058 |
| | | | | | | |
| #1 | -.000579 | .0059058 | -.000250 | -.000484 | -.002468 | .0000407 |
| #2 | -.000850 | .0098452 | .000949 | .000885 | -.003845 | .0001839 |
| #3 | -.000517 | .0058012 | -.000564 | .000445 | -.007722 | -.000218 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | F .0215539 |
| Stddev | .0055059 |
| %RSD | 25.54487 |
| | |
| #1 | .0231273 |
| #2 | .0261018 |
| #3 | .0154326 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1859.442 | 22907.59 | 1133.224 | 1591.614 | 2461.881 |
| Stddev | 4.000 | 247.05 | 12.480 | 17.936 | 3.942 |
| %RSD | .2151412 | 1.078479 | 1.101301 | 1.126905 | .1601282 |
| | | | | | |
| #1 | 1861.055 | 22931.94 | 1118.814 | 1595.774 | 2466.058 |
| #2 | 1862.384 | 22649.27 | 1140.289 | 1571.963 | 2461.358 |
| #3 | 1854.887 | 23141.57 | 1140.569 | 1607.104 | 2458.226 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-02 Acquired: 12/17/2024 23:45:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKS5 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0760223 | -.025765 | 1.121905 | .0424769 | .0226629 | 55.04387 |
| Stddev | .0036903 | .002887 | .002610 | .0012539 | .0017014 | .12462 |
| %RSD | 4.854216 | 11.20542 | .2326596 | 2.952038 | 7.507488 | .2264032 |
| | | | | | | |
| #1 | .0774602 | -.023721 | 1.120811 | .0425876 | .0207003 | 54.95608 |
| #2 | .0718295 | -.024507 | 1.120019 | .0436718 | .0235684 | 55.18650 |
| #3 | .0787772 | -.029068 | 1.124884 | .0411713 | .0237201 | 54.98901 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.088328 | .0075319 | .0092818 | 229.9417 | .1174488 | .0992698 |
| Stddev | .004194 | .0001897 | .0000704 | .5664 | .0006946 | .0003052 |
| %RSD | .3853825 | 2.518856 | .7585562 | .2463103 | .5914143 | .3074329 |
| | | | | | | |
| #1 | 1.084473 | .0075025 | .0092817 | 229.3082 | .1172143 | .0994175 |
| #2 | 1.092794 | .0077346 | .0092115 | 230.3991 | .1182303 | .0989188 |
| #3 | 1.087718 | .0073586 | .0093523 | 230.1177 | .1169018 | .0994730 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2817291 | 145.1612 | 4.049469 | 31.85037 | .1589636 | .0036896 |
| Stddev | .0138288 | .0545 | .012766 | .12725 | .0011241 | .0004133 |
| %RSD | 4.908542 | .0375167 | .3152582 | .3995249 | .7071476 | 11.20126 |
| | | | | | | |
| #1 | .2716082 | 145.2149 | 4.035049 | 31.72211 | .1576830 | .0032350 |
| #2 | .2760932 | 145.1627 | 4.059328 | 31.85243 | .1594202 | .0037913 |
| #3 | .2974858 | 145.1060 | 4.054031 | 31.97658 | .1597876 | .0040426 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2997579 | .1630705 | 1.678101 | 8.176458 | F 14.29582 | .0017570 |
| Stddev | .2424800 | .0102276 | .021517 | .085631 | .04356 | .0041209 |
| %RSD | 80.89195 | 6.271879 | 1.282219 | 1.047292 | .3046750 | 234.5416 |
| | | | | | | |
| #1 | .2837002 | .1537474 | 1.653349 | 8.275029 | 14.29095 | .0029299 |
| #2 | .5498676 | .1740100 | 1.692345 | 8.120426 | 14.25490 | .0051643 |
| #3 | .0657058 | .1614539 | 1.688608 | 8.133919 | 14.34161 | -.002823 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-02 Acquired: 12/17/2024 23:45:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKS5 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0060231 | 3.246760 | 8.631598 | .0632408 | .8895517 | .1359910 |
| Stddev | .0000826 | .006171 | .016211 | .0016766 | .0033845 | .0004132 |
| %RSD | 1.371455 | .1900803 | .1878101 | 2.651066 | .3804762 | .3038248 |
| #1 | .0060976 | 3.241172 | 8.649404 | .0622708 | .8925895 | .1356767 |
| #2 | .0060374 | 3.245724 | 8.617695 | .0651767 | .8859035 | .1364590 |
| #3 | .0059342 | 3.253384 | 8.627694 | .0622748 | .8901620 | .1358372 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1142559 |
| Stddev | .0075248 |
| %RSD | 6.585869 |
| #1 | .1216587 |
| #2 | .1066149 |
| #3 | .1144943 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2131.822 | 26215.89 | 1347.402 | 1822.434 | 2308.402 |
| Stddev | 5.122 | 12.42 | 2.296 | 2.945 | 6.568 |
| %RSD | .2402860 | .0473779 | .1704210 | .1615705 | .2845110 |
| #1 | 2126.109 | 26223.61 | 1345.333 | 1824.855 | 2300.919 |
| #2 | 2133.350 | 26222.50 | 1347.000 | 1823.291 | 2313.207 |
| #3 | 2136.006 | 26201.57 | 1349.873 | 1819.156 | 2311.081 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-03 Acquired: 12/17/2024 23:49:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKS6 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0819606 | -.035592 | 1.049147 | .0497404 | .0243608 | 59.87366 |
| Stddev | .0003981 | .006321 | .003460 | .0042863 | .0020567 | .31258 |
| %RSD | .4857320 | 17.75905 | .3298361 | 8.617387 | 8.442476 | .5220609 |
| #1 | .0815649 | -.040745 | 1.049506 | .0447978 | .0220505 | 59.63067 |
| #2 | .0823611 | -.037493 | 1.045520 | .0519864 | .0250396 | 59.76402 |
| #3 | .0819558 | -.028539 | 1.052413 | .0524369 | .0259922 | 60.22628 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.136142 | .0075176 | .0072039 | 106.3368 | .1059799 | .0946233 |
| Stddev | .007578 | .0001970 | .0000932 | .6470 | .0012242 | .0007761 |
| %RSD | .6669591 | 2.620889 | 1.293871 | .6084212 | 1.155138 | .8202186 |
| #1 | 1.129960 | .0075480 | .0072670 | 105.7356 | .1067448 | .0950234 |
| #2 | 1.133870 | .0073071 | .0072477 | 106.2532 | .1045679 | .0937288 |
| #3 | 1.144595 | .0076976 | .0070968 | 107.0215 | .1066269 | .0951178 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2420497 | 143.9784 | 3.886042 | 35.93647 | .1491449 | .0039435 |
| Stddev | .0045684 | 1.0836 | .029524 | .34264 | .0011174 | .0015526 |
| %RSD | 1.887387 | .7526377 | .7597461 | .9534646 | .7492113 | 39.37144 |
| #1 | .2397106 | 143.0448 | 3.856199 | 35.55165 | .1499324 | .0054895 |
| #2 | .2473140 | 143.7237 | 3.886690 | 36.04927 | .1478660 | .0023844 |
| #3 | .2391245 | 145.1667 | 3.915236 | 36.20849 | .1496363 | .0039566 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0569551 | .1638734 | 1.561780 | 6.840646 | F 15.36824 | -.006114 |
| Stddev | .6665972 | .0117238 | .009128 | .122982 | .05721 | .003552 |
| %RSD | 1170.391 | 7.154154 | .5844613 | 1.797817 | .3722661 | 58.09729 |
| #1 | .3477156 | .1574318 | 1.568859 | 6.975657 | 15.36795 | -.006248 |
| #2 | .5287827 | .1567828 | 1.565003 | 6.811269 | 15.31117 | -.002497 |
| #3 | -.705633 | .1774056 | 1.551477 | 6.735012 | 15.42559 | -.009597 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-03 Acquired: 12/17/2024 23:49:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKS6 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0049536 | 2.724298 | 8.278850 | .0613998 | .9470808 | .0784806 |
| Stddev | .0004413 | .020707 | .098128 | .0005499 | .0017893 | .0002580 |
| %RSD | 8.907891 | .7600952 | 1.185282 | .8956515 | .1889246 | .3287831 |
| #1 | .0048152 | 2.733528 | 8.193255 | .0607649 | .9452444 | .0782241 |
| #2 | .0054474 | 2.700581 | 8.257351 | .0617082 | .9488189 | .0784777 |
| #3 | .0045981 | 2.738786 | 8.385945 | .0617263 | .9471791 | .0787401 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1198213 |
| Stddev | .0009899 |
| %RSD | .8261196 |
| #1 | .1203900 |
| #2 | .1186783 |
| #3 | .1203955 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2221.951 | 27388.60 | 1409.055 | 1903.774 | 2379.355 |
| Stddev | 6.157 | 61.66 | 14.166 | 4.935 | 8.378 |
| %RSD | .2770816 | .2251134 | 1.005365 | .2592345 | .3521093 |
| #1 | 2215.089 | 27347.79 | 1422.097 | 1905.187 | 2370.971 |
| #2 | 2226.990 | 27358.47 | 1411.083 | 1898.286 | 2387.727 |
| #3 | 2223.774 | 27459.52 | 1393.984 | 1907.849 | 2379.369 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-04 Acquired: 12/17/2024 23:53:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKS7 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0727912 | -.046253 | .4806514 | .0494849 | .0220898 | 57.11665 |
| Stddev | .0015950 | .001116 | .0059518 | .0036003 | .0022602 | .25761 |
| %RSD | 2.191256 | 2.413773 | 1.238271 | 7.275456 | 10.23190 | .4510302 |
| #1 | .0734375 | -.046560 | .4841143 | .0524062 | .0230693 | 57.25225 |
| #2 | .0709745 | -.047184 | .4840610 | .0454627 | .0195051 | 56.81956 |
| #3 | .0739617 | -.045015 | .4737790 | .0505857 | .0236950 | 57.27815 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8335752 | .0069860 | .0042591 | 78.04674 | .1000215 | .0851935 |
| Stddev | .0016430 | .0002767 | .0000942 | .11452 | .0002499 | .0005409 |
| %RSD | .1971036 | 3.960663 | 2.212130 | .1467337 | .2498369 | .6349379 |
| #1 | .8345918 | .0069190 | .0043513 | 77.92657 | .1000657 | .0853574 |
| #2 | .8316797 | .0067491 | .0041630 | 78.05903 | .1002464 | .0856336 |
| #3 | .8344542 | .0072901 | .0042629 | 78.15462 | .0997525 | .0845896 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1701002 | 147.2152 | 2.939100 | 32.34851 | .1259180 | .0035536 |
| Stddev | .0071032 | .1312 | .014168 | .07044 | .0007948 | .0011317 |
| %RSD | 4.175872 | .0891312 | .4820675 | .2177511 | .6311739 | 31.84539 |
| #1 | .1629714 | 147.3161 | 2.953917 | 32.26745 | .1262985 | .0041160 |
| #2 | .1771775 | 147.2625 | 2.925684 | 32.39484 | .1264509 | .0022509 |
| #3 | .1701517 | 147.0668 | 2.937699 | 32.38324 | .1250045 | .0042938 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5580828 | .1622947 | .7373922 | 3.438905 | F 11.27836 | -.022785 |
| Stddev | .6261278 | .0019939 | .0243924 | .109221 | .10230 | .002835 |
| %RSD | 112.1926 | 1.228587 | 3.307932 | 3.176044 | .9070379 | 12.44200 |
| #1 | 1.008296 | .1605882 | .7154216 | 3.328306 | 11.34484 | -.022567 |
| #2 | -.156939 | .1644865 | .7636406 | 3.546694 | 11.32968 | -.020065 |
| #3 | .822891 | .1618095 | .7331145 | 3.441716 | 11.16056 | -.025722 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-04 Acquired: 12/17/2024 23:53:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKS7 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0051691 | 1.644538 | 8.059745 | .0360473 | .9382864 | .0221309 |
| Stddev | .0005282 | .016707 | .094316 | .0012083 | .0041170 | .0002516 |
| %RSD | 10.21930 | 1.015926 | 1.170206 | 3.352024 | .4387740 | 1.137010 |
| | | | | | | |
| #1 | .0057430 | 1.652382 | 8.134727 | .0363558 | .9430131 | .0224010 |
| #2 | .0047031 | 1.655880 | 7.953853 | .0347147 | .9354836 | .0219031 |
| #3 | .0050612 | 1.625352 | 8.090656 | .0370715 | .9363625 | .0220887 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1249270 |
| Stddev | .0044773 |
| %RSD | 3.583916 |
| | |
| #1 | .1300061 |
| #2 | .1215520 |
| #3 | .1232228 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2199.615 | 26920.82 | 1368.657 | 1874.599 | 2402.728 |
| Stddev | 16.582 | 195.31 | 9.920 | 18.612 | 24.236 |
| %RSD | .7538413 | .7254951 | .7248196 | .9928300 | 1.008685 |
| | | | | | |
| #1 | 2188.656 | 27074.91 | 1359.732 | 1884.984 | 2388.732 |
| #2 | 2191.497 | 26701.16 | 1379.338 | 1853.113 | 2388.738 |
| #3 | 2218.691 | 26986.39 | 1366.900 | 1885.701 | 2430.713 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-05 Acquired: 12/17/2024 23:57:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKS8 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0810787 | -.060059 | .1505121 | .0739969 | .0359124 | 57.05221 | .8058427 |
| Stddev | .0026982 | .005074 | .0024871 | .0030792 | .0023586 | .03341 | .0023424 |
| %RSD | 3.327852 | 8.448402 | 1.652446 | 4.161223 | 6.567695 | .0585600 | .2906834 |
| | | | | | | | |
| #1 | .0816349 | -.055655 | .1486140 | .0774178 | .0339313 | 57.08771 | .8081906 |
| #2 | .0834553 | -.058914 | .1533276 | .0731254 | .0352845 | 57.02138 | .8058317 |
| #3 | .0781457 | -.065607 | .1495947 | .0714473 | .0385214 | 57.04755 | .8035057 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0079767 | .0047201 | 243.6786 | .0909144 | .1174717 | .1951255 | 224.5417 |
| Stddev | .0001224 | .0000247 | .1484 | .0003930 | .0002204 | .0068892 | .1538 |
| %RSD | 1.534126 | .5239984 | .0608807 | .4323278 | .1876661 | 3.530668 | .0684951 |
| | | | | | | | |
| #1 | .0078588 | .0046917 | 243.8483 | .0912377 | .1172546 | .1938086 | 224.4564 |
| #2 | .0079683 | .0047316 | 243.6135 | .0904769 | .1174653 | .1889898 | 224.4495 |
| #3 | .0081031 | .0047370 | 243.5738 | .0910286 | .1176953 | .2025782 | 224.7193 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 7.927578 | 85.76079 | .1651588 | .0053432 | .7921365 | .1836955 | .3269345 |
| Stddev | .003548 | .24387 | .0007606 | .0003849 | .4239794 | .0097417 | .0158596 |
| %RSD | .0447540 | .2843560 | .4605015 | 7.203134 | 53.52352 | 5.303165 | 4.851001 |
| | | | | | | | |
| #1 | 7.930796 | 85.49476 | .1642808 | .0057704 | 1.280442 | .1949014 | .3125115 |
| #2 | 7.928166 | 85.81385 | .1655812 | .0052356 | .517543 | .1772434 | .3243732 |
| #3 | 7.923773 | 85.97375 | .1656144 | .0050235 | .578425 | .1789417 | .3439189 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.038636 | 8.208118 | -.066567 | .0128452 | .7133122 | 7.408028 | .0285524 |
| Stddev | .207755 | .007719 | .005504 | .0004483 | .0046784 | .044943 | .0039396 |
| %RSD | 6.837101 | .0940450 | 8.268392 | 3.490121 | .6558746 | .6066793 | 13.79774 |
| | | | | | | | |
| #1 | 2.963524 | 8.199629 | -.067445 | .0129449 | .7180918 | 7.423127 | .0261178 |
| #2 | 3.273501 | 8.210009 | -.071579 | .0132352 | .7131030 | 7.443477 | .0264418 |
| #3 | 2.878884 | 8.214716 | -.060677 | .0123554 | .7087419 | 7.357480 | .0330976 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-05 Acquired: 12/17/2024 23:57:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKS8 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .9575388 | .0221508 | .1370419 |
| Stddev | .0095437 | .0007994 | .0035362 |
| %RSD | .9966898 | 3.608660 | 2.580344 |
| | | | |
| #1 | .9574984 | .0229355 | .1366255 |
| #2 | .9480154 | .0221794 | .1337325 |
| #3 | .9671027 | .0213376 | .1407679 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2160.048 | 26610.01 | 1367.308 | 1853.257 | 2265.296 |
| Stddev | 5.263 | 35.37 | 6.710 | 2.462 | 4.438 |
| %RSD | .2436474 | .1329067 | .4907574 | .1328297 | .1959085 |
| | | | | | |
| #1 | 2165.836 | 26650.50 | 1365.345 | 1855.286 | 2270.394 |
| #2 | 2158.756 | 26594.39 | 1361.798 | 1853.967 | 2262.298 |
| #3 | 2155.550 | 26585.14 | 1374.781 | 1850.518 | 2263.197 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-06 Acquired: 12/18/2024 0:01:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKS9 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0748782 | -.038354 | .2023793 | .0442829 | .0240019 | 54.32032 | .5889251 |
| Stddev | .0011692 | .006504 | .0036552 | .0014720 | .0030634 | .21283 | .0024847 |
| %RSD | 1.561534 | 16.95689 | 1.806112 | 3.323979 | 12.76334 | .3918053 | .4219021 |
| #1 | .0751050 | -.045334 | .1981786 | .0446432 | .0272483 | 54.51694 | .5862688 |
| #2 | .0736123 | -.032465 | .2048352 | .0455413 | .0211621 | 54.09433 | .5893143 |
| #3 | .0759176 | -.037263 | .2041239 | .0426643 | .0235951 | 54.34968 | .5911923 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0077956 | .0043724 | 794.9193 | .0817161 | .1183864 | .2417982 | 193.6233 |
| Stddev | .0000243 | .0002035 | 2.2245 | .0010459 | .0012793 | .0075058 | .7251 |
| %RSD | .3117338 | 4.653279 | .2798419 | 1.279963 | 1.080587 | 3.104146 | .3744957 |
| #1 | .0077929 | .0044812 | 795.5462 | .0805086 | .1177495 | .2369417 | 194.0884 |
| #2 | .0077728 | .0041376 | 792.4486 | .0822978 | .1175507 | .2504432 | 192.7878 |
| #3 | .0078212 | .0044982 | 796.7632 | .0823419 | .1198591 | .2380098 | 193.9937 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.918154 | 196.2503 | .1537681 | .0044969 | .5053452 | .1784510 | .4583078 |
| Stddev | .015312 | .8434 | .0013430 | .0007845 | .3786250 | .0057050 | .0105960 |
| %RSD | .3113381 | .4297583 | .8734273 | 17.44475 | 74.92403 | 3.196949 | 2.311982 |
| #1 | 4.929883 | 196.1214 | .1534164 | .0040182 | .9315888 | .1720574 | .4678690 |
| #2 | 4.900832 | 195.4787 | .1526359 | .0054022 | .3764502 | .1802739 | .4601388 |
| #3 | 4.923747 | 197.1507 | .1552520 | .0040702 | .2079966 | .1830218 | .4469157 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.374616 | 9.674622 | -.037393 | .0084341 | 1.325096 | 6.568642 | .0303773 |
| Stddev | .213999 | .065154 | .002580 | .0007019 | .003714 | .011817 | .0016681 |
| %RSD | 6.341424 | .6734476 | 6.900655 | 8.321882 | .2802671 | .1798993 | 5.491274 |
| #1 | 3.132572 | 9.651209 | -.035725 | .0091603 | 1.324746 | 6.565629 | .0323012 |
| #2 | 3.452550 | 9.624411 | -.040365 | .0083826 | 1.321569 | 6.581674 | .0293359 |
| #3 | 3.538725 | 9.748247 | -.036088 | .0077594 | 1.328972 | 6.558623 | .0294947 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-06 Acquired: 12/18/2024 0:01:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKS9 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .6794222 | .4987147 | .1735694 |
| Stddev | .0061295 | .0016835 | .0051874 |
| %RSD | .9021644 | .3375636 | 2.988671 |
| | | | |
| #1 | .6864342 | .5006168 | .1720117 |
| #2 | .6750828 | .4974164 | .1693392 |
| #3 | .6767495 | .4981110 | .1793571 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2111.945 | 25996.94 | 1363.591 | 1795.045 | 2064.039 |
| Stddev | 8.541 | 75.36 | 4.393 | 8.424 | 12.689 |
| %RSD | .4044237 | .2898717 | .3221934 | .4693070 | .6147894 |
| | | | | | |
| #1 | 2121.110 | 25995.63 | 1363.226 | 1794.129 | 2073.324 |
| #2 | 2110.518 | 26072.94 | 1368.155 | 1803.889 | 2069.214 |
| #3 | 2104.208 | 25922.24 | 1359.391 | 1787.115 | 2049.580 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-07 Acquired: 12/18/2024 0:04:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKT0 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0677196 | -.029413 | .1421500 | .0327859 | .0183033 | 43.89462 |
| Stddev | .0032982 | .005221 | .0049951 | .0015684 | .0017852 | .11901 |
| %RSD | 4.870339 | 17.75046 | 3.513944 | 4.783761 | 9.753286 | .2711281 |
| #1 | .0697346 | -.035336 | .1463320 | .0335387 | .0162928 | 43.78405 |
| #2 | .0695108 | -.025481 | .1434991 | .0309830 | .0197025 | 44.02057 |
| #3 | .0639134 | -.027420 | .1366189 | .0338360 | .0189146 | 43.87924 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3845399 | .0064553 | .0035000 | F 981.7343 | .0765704 | .1154111 |
| Stddev | .0012059 | .0001205 | .0001235 | 3.2171 | .0009162 | .0014992 |
| %RSD | .3135938 | 1.866049 | 3.528248 | .3276960 | 1.196478 | 1.299056 |
| #1 | .3848571 | .0065731 | .0033611 | 980.1114 | .0774854 | .1144417 |
| #2 | .3855554 | .0063323 | .0035973 | 985.4396 | .0756531 | .1146537 |
| #3 | .3832070 | .0064606 | .0035416 | 979.6519 | .0765728 | .1171380 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2298659 | 174.1495 | 6.928010 | 211.7502 | .1368522 | .0024597 |
| Stddev | .0064862 | .3501 | .022244 | .3721 | .0007858 | .0014492 |
| %RSD | 2.821721 | .2010298 | .3210797 | .1757244 | .5742183 | 58.91901 |
| #1 | .2314680 | 173.9064 | 6.904006 | 211.4718 | .1365651 | .0008538 |
| #2 | .2227288 | 173.9913 | 6.947929 | 212.1728 | .1362502 | .0036702 |
| #3 | .2354008 | 174.5507 | 6.932094 | 211.6061 | .1377412 | .0028552 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5913054 | .1753539 | .5996485 | 3.504937 | 8.736642 | -.019510 |
| Stddev | .9182743 | .0087146 | .0007291 | .250843 | .072156 | .001491 |
| %RSD | 155.2961 | 4.969748 | .1215909 | 7.156845 | .8259005 | 7.642479 |
| #1 | -.383855 | .1745338 | .6002147 | 3.794561 | 8.701981 | -.020626 |
| #2 | .718296 | .1670782 | .5988258 | 3.363388 | 8.688356 | -.020088 |
| #3 | 1.439475 | .1844495 | .5999050 | 3.356862 | 8.819588 | -.017816 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-07 Acquired: 12/18/2024 0:04:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKT0 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0057393 | 1.189354 | 5.769913 | .0273956 | 1.006233 | .6846370 |
| Stddev | .0004114 | .013717 | .032977 | .0021313 | .005298 | .0015669 |
| %RSD | 7.168686 | 1.153311 | .5715368 | 7.779568 | .5265075 | .2288668 |
| #1 | .0057163 | 1.191008 | 5.799330 | .0266615 | 1.012249 | .6844706 |
| #2 | .0061617 | 1.174885 | 5.776145 | .0257285 | 1.004187 | .6862804 |
| #3 | .0053398 | 1.202169 | 5.734265 | .0297969 | 1.002263 | .6831599 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1586725 |
| Stddev | .0058395 |
| %RSD | 3.680216 |
| #1 | .1615612 |
| #2 | .1625047 |
| #3 | .1519517 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2054.970 | 25345.78 | 1338.569 | 1747.218 | 2027.410 |
| Stddev | 1.374 | 220.46 | 2.870 | 13.858 | 2.116 |
| %RSD | .0668531 | .8698180 | .2143767 | .7931687 | .1043840 |
| #1 | 2054.266 | 25289.67 | 1337.343 | 1745.178 | 2027.827 |
| #2 | 2054.091 | 25588.87 | 1336.517 | 1761.984 | 2029.287 |
| #3 | 2056.553 | 25158.79 | 1341.848 | 1734.493 | 2025.116 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-08 Acquired: 12/18/2024 0:08:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKT1 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0520171 | .0203060 | .6177185 | -.003271 | .0051233 | 27.60464 |
| Stddev | .0060241 | .0031675 | .0031483 | .002264 | .0010556 | .09261 |
| %RSD | 11.58096 | 15.59876 | .5096635 | 69.21603 | 20.60481 | .3354739 |
| | | | | | | |
| #1 | .0505193 | .0215173 | .6213418 | -.005327 | .0041421 | 27.68158 |
| #2 | .0468832 | .0167116 | .6161627 | -.003640 | .0062403 | 27.63048 |
| #3 | .0586487 | .0226890 | .6156509 | -.000845 | .0049874 | 27.50185 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4908382 | .0041844 | .0053209 | F 1345.511 | .0681722 | .1030438 |
| Stddev | .0036553 | .0000665 | .0001134 | .556 | .0004367 | .0005324 |
| %RSD | .7447125 | 1.588407 | 2.130725 | .0412994 | .6405198 | .5167018 |
| | | | | | | |
| #1 | .4948835 | .0041084 | .0052075 | 1345.985 | .0684891 | .1029917 |
| #2 | .4877724 | .0042320 | .0053210 | 1344.900 | .0676741 | .1025393 |
| #3 | .4898587 | .0042126 | .0054342 | 1345.649 | .0683534 | .1036003 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1324751 | 106.4781 | 6.936363 | 748.9799 | .1051519 | .0032423 |
| Stddev | .0124328 | .4202 | .020021 | 3.4770 | .0001111 | .0003484 |
| %RSD | 9.385005 | .3946472 | .2886371 | .4642342 | .1056976 | 10.74641 |
| | | | | | | |
| #1 | .1186024 | 106.7132 | 6.955025 | 751.9702 | .1050237 | .0028955 |
| #2 | .1362123 | 106.7281 | 6.938848 | 749.8050 | .1052196 | .0032389 |
| #3 | .1426107 | 105.9930 | 6.915215 | 745.1646 | .1052125 | .0035924 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8659435 | .0837487 | 1.063849 | 6.329677 | 7.383640 | .0415507 |
| Stddev | 1.266501 | .0064339 | .013701 | .052972 | .004908 | .0019355 |
| %RSD | 146.2568 | 7.682378 | 1.287853 | .8368862 | .0664717 | 4.658164 |
| | | | | | | |
| #1 | -.593721 | .0779067 | 1.062273 | 6.278335 | 7.389248 | .0421875 |
| #2 | 1.673623 | .0906444 | 1.078269 | 6.384141 | 7.381542 | .0393770 |
| #3 | 1.517929 | .0826951 | 1.051004 | 6.326555 | 7.380129 | .0430875 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-08 Acquired: 12/18/2024 0:08:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKT1 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0000606 | 31.31177 | 5.918483 | .0377296 | .4008790 | .5546299 |
| Stddev | .0008809 | .00569 | .064415 | .0015297 | .0106774 | .0052968 |
| %RSD | 1452.419 | .0181606 | 1.088365 | 4.054412 | 2.663489 | .9550176 |
| | | | | | | |
| #1 | .0007667 | 31.30521 | 5.938500 | .0359844 | .4132080 | .5595537 |
| #2 | .0003417 | 31.31524 | 5.970513 | .0388381 | .3947556 | .5553103 |
| #3 | -.000927 | 31.31486 | 5.846436 | .0383663 | .3946733 | .5490258 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1407081 |
| Stddev | .0037914 |
| %RSD | 2.694532 |
| | |
| #1 | .1412807 |
| #2 | .1366630 |
| #3 | .1441807 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1843.975 | 22855.74 | 1226.095 | 1558.561 | 1911.147 |
| Stddev | 5.930 | 46.68 | 10.374 | 3.114 | 3.452 |
| %RSD | .3215684 | .2042189 | .8461138 | .1997807 | .1806187 |
| | | | | | |
| #1 | 1844.974 | 22809.85 | 1219.913 | 1554.972 | 1911.692 |
| #2 | 1849.342 | 22903.17 | 1220.299 | 1560.547 | 1914.295 |
| #3 | 1837.610 | 22854.21 | 1238.072 | 1560.163 | 1907.456 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-09 Acquired: 12/18/2024 0:12:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKT2 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0561803 | .0190495 | .4970474 | -.011753 | .0024186 | 23.44959 |
| Stddev | .0052202 | .0023691 | .0064144 | .003713 | .0015191 | .07641 |
| %RSD | 9.291786 | 12.43672 | 1.290493 | 31.59405 | 62.80765 | .3258408 |
| #1 | .0603544 | .0166974 | .5020184 | -.016038 | .0010026 | 23.38547 |
| #2 | .0503273 | .0190156 | .4898068 | -.009481 | .0040231 | 23.53413 |
| #3 | .0578593 | .0214353 | .4993171 | -.009740 | .0022302 | 23.42915 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3410169 | .0037522 | .0034647 | F 1331.865 | .0502628 | .0930587 |
| Stddev | .0017542 | .0000764 | .0000914 | 1.285 | .0011539 | .0002900 |
| %RSD | .5144175 | 2.036406 | 2.637711 | .0965143 | 2.295811 | .3116286 |
| #1 | .3430182 | .0037946 | .0034349 | 1333.032 | .0497701 | .0929346 |
| #2 | .3397452 | .0037980 | .0035673 | 1330.487 | .0494370 | .0933902 |
| #3 | .3402872 | .0036640 | .0033920 | 1332.075 | .0515813 | .0928515 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1063618 | 101.6337 | 6.239419 | 718.7163 | .0891548 | .0029831 |
| Stddev | .0068585 | .3431 | .012192 | 1.9691 | .0017795 | .0011953 |
| %RSD | 6.448239 | .3375528 | .1953999 | .2739762 | 1.995926 | 40.06861 |
| #1 | .1128007 | 101.6407 | 6.253493 | 720.6566 | .0884911 | .0016401 |
| #2 | .0991494 | 101.9732 | 6.232642 | 718.7727 | .0878025 | .0033791 |
| #3 | .1071352 | 101.2872 | 6.232121 | 716.7196 | .0911707 | .0039302 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .9508197 | .0745597 | .8089704 | 4.638655 | 4.800269 | .0333303 |
| Stddev | .5231876 | .0084322 | .0227915 | .133872 | .023537 | .0026295 |
| %RSD | 55.02490 | 11.30937 | 2.817344 | 2.886017 | .4903355 | 7.889126 |
| #1 | 1.226677 | .0655328 | .8009361 | 4.767849 | 4.789361 | .0339249 |
| #2 | .347432 | .0759127 | .7912841 | 4.647568 | 4.784165 | .0356115 |
| #3 | 1.278351 | .0822337 | .8346910 | 4.500549 | 4.827282 | .0304544 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-09 Acquired: 12/18/2024 0:12:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKT2 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0008920 | 26.95366 | 5.244777 | .0331652 | .3641235 | .5530680 |
| Stddev | .0005952 | .11529 | .039017 | .0015477 | .0026246 | .0004402 |
| %RSD | 66.72932 | .4277169 | .7439233 | 4.666608 | .7208045 | .0795948 |
| #1 | .0015565 | 26.92177 | 5.288988 | .0334449 | .3668943 | .5528358 |
| #2 | .0004076 | 26.85768 | 5.215164 | .0345540 | .3616748 | .5535757 |
| #3 | .0007120 | 27.08154 | 5.230177 | .0314967 | .3638013 | .5527925 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1240034 |
| Stddev | .0009168 |
| %RSD | .7393608 |
| #1 | .1230406 |
| #2 | .1248660 |
| #3 | .1241038 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1805.687 | 22543.74 | 1212.201 | 1539.863 | 1931.558 |
| Stddev | 2.678 | 121.61 | 4.848 | 4.434 | 6.370 |
| %RSD | .1482971 | .5394490 | .3999013 | .2879308 | .3298114 |
| #1 | 1804.144 | 22659.08 | 1209.213 | 1542.074 | 1933.126 |
| #2 | 1808.779 | 22416.70 | 1209.597 | 1542.756 | 1936.998 |
| #3 | 1804.137 | 22555.43 | 1217.795 | 1534.758 | 1924.550 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-10 Acquired: 12/18/2024 0:16:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKT3 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1252349 | -.028461 | .9431633 | .0533445 | .0241578 | 63.77100 |
| Stddev | .0017151 | .002810 | .0025248 | .0040409 | .0026543 | .73499 |
| %RSD | 1.369530 | 9.872514 | .2677007 | 7.575114 | 10.98748 | 1.152539 |
| #1 | .1250694 | -.025218 | .9414350 | .0490092 | .0212710 | 63.88141 |
| #2 | .1236085 | -.029995 | .9419940 | .0540180 | .0264931 | 62.98705 |
| #3 | .1270267 | -.030170 | .9460608 | .0570063 | .0247093 | 64.44453 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.381017 | .0074508 | .0059046 | 121.1008 | .1067594 | .1130498 |
| Stddev | .014246 | .0001480 | .0000891 | 1.2919 | .0014285 | .0003373 |
| %RSD | 1.031581 | 1.985996 | 1.508471 | 1.066782 | 1.338078 | .2984089 |
| #1 | 1.385884 | .0075363 | .0058300 | 120.9275 | .1071821 | .1133955 |
| #2 | 1.364976 | .0072799 | .0060032 | 119.9044 | .1079288 | .1130323 |
| #3 | 1.392193 | .0075362 | .0058806 | 122.4706 | .1051672 | .1127215 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1963039 | 156.3208 | 9.674105 | 43.57069 | .1474940 | .0059074 |
| Stddev | .0096660 | 1.6418 | .092466 | .64277 | .0005563 | .0001577 |
| %RSD | 4.923994 | 1.050299 | .9558046 | 1.475246 | .3771357 | 2.669668 |
| #1 | .1938887 | 156.9130 | 9.698444 | 43.84578 | .1474109 | .0059446 |
| #2 | .2069484 | 154.4650 | 9.571904 | 42.83615 | .1480871 | .0057344 |
| #3 | .1880745 | 157.5843 | 9.751966 | 44.03014 | .1469839 | .0060431 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.356216 | .1714480 | .8739927 | 7.367222 | F 11.98002 | -.011407 |
| Stddev | .045017 | .0038340 | .0117346 | .123567 | .02794 | .001973 |
| %RSD | 12.63752 | 2.236233 | 1.342641 | 1.677250 | .2332578 | 17.29517 |
| #1 | -.310069 | .1670278 | .8837061 | 7.509134 | 11.95736 | -.012530 |
| #2 | -.358569 | .1738717 | .8609544 | 7.309086 | 11.97145 | -.009129 |
| #3 | -.400010 | .1734446 | .8773174 | 7.283445 | 12.01124 | -.012561 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-10 Acquired: 12/18/2024 0:16:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKT3 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0045542 | 2.629452 | 7.287111 | .0571253 | .8657388 | .1241915 |
| Stddev | .0000738 | .008417 | .030508 | .0005864 | .0083733 | .0013117 |
| %RSD | 1.621448 | .3201233 | .4186589 | 1.026455 | .9671879 | 1.056191 |
| | | | | | | |
| #1 | .0046357 | 2.630400 | 7.318429 | .0569609 | .8631011 | .1252944 |
| #2 | .0044918 | 2.620601 | 7.257483 | .0577764 | .8590019 | .1227410 |
| #3 | .0045350 | 2.637356 | 7.285422 | .0566388 | .8751133 | .1245392 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1094622 |
| Stddev | .0083265 |
| %RSD | 7.606777 |
| | |
| #1 | .1067051 |
| #2 | .1028638 |
| #3 | .1188175 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2269.016 | 27904.83 | 1440.059 | 1940.175 | 2353.442 |
| Stddev | .573 | 59.27 | 9.296 | 6.841 | .918 |
| %RSD | .0252661 | .2123882 | .6455608 | .3526212 | .0390143 |
| | | | | | |
| #1 | 2268.733 | 27875.22 | 1430.428 | 1933.694 | 2352.382 |
| #2 | 2268.640 | 27973.07 | 1448.980 | 1947.327 | 2353.999 |
| #3 | 2269.676 | 27866.21 | 1440.769 | 1939.503 | 2353.945 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-11 Acquired: 12/18/2024 0:20:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKT3D Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1260769 | -.026698 | .9475030 | .0562489 | .0280124 | 63.78713 |
| Stddev | .0025960 | .001307 | .0051383 | .0051503 | .0018586 | .18410 |
| %RSD | 2.059075 | 4.894746 | .5422959 | 9.156174 | 6.635048 | .2886125 |
| #1 | .1231737 | -.025607 | .9493902 | .0503024 | .0269537 | 63.64827 |
| #2 | .1281748 | -.026342 | .9416880 | .0591559 | .0301585 | 63.71717 |
| #3 | .1268823 | -.028146 | .9514308 | .0592884 | .0269251 | 63.99595 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.385949 | .0075120 | .0061522 | 121.8693 | .1079047 | .1141209 |
| Stddev | .005584 | .0002327 | .0001370 | .4994 | .0004147 | .0004613 |
| %RSD | .4029300 | 3.097711 | 2.227493 | .4098221 | .3843581 | .4042063 |
| #1 | 1.383318 | .0075113 | .0063025 | 121.5166 | .1082955 | .1141447 |
| #2 | 1.382167 | .0072797 | .0061196 | 121.6504 | .1074695 | .1136482 |
| #3 | 1.392363 | .0077451 | .0060343 | 122.4408 | .1079490 | .1145698 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2029932 | 156.6924 | 9.718747 | 43.77087 | .1477218 | .0052949 |
| Stddev | .0018574 | .7118 | .061412 | .13641 | .0003628 | .0008775 |
| %RSD | .9149794 | .4542978 | .6318972 | .3116404 | .2455757 | 16.57202 |
| #1 | .2008849 | 156.4712 | 9.714579 | 43.69262 | .1480666 | .0058029 |
| #2 | .2043881 | 156.1173 | 9.659524 | 43.69160 | .1477554 | .0042816 |
| #3 | .2037066 | 157.4885 | 9.782137 | 43.92837 | .1473434 | .0058000 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3118963 | .1766188 | .8635650 | 7.526110 | F 12.07027 | -.013712 |
| Stddev | .1235090 | .0042055 | .0170007 | .133518 | .04786 | .001834 |
| %RSD | 39.59939 | 2.381139 | 1.968667 | 1.774064 | .3965243 | 13.37618 |
| #1 | .1781274 | .1759991 | .8820354 | 7.590135 | 12.06861 | -.012854 |
| #2 | .4216047 | .1810998 | .8485715 | 7.372637 | 12.02326 | -.012465 |
| #3 | .3359568 | .1727575 | .8600881 | 7.615559 | 12.11894 | -.015818 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-11 Acquired: 12/18/2024 0:20:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKT3D Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0047468 | 2.642417 | 7.289266 | .0582259 | .8615088 | .1235657 |
| Stddev | .0004134 | .012698 | .061914 | .0007823 | .0025510 | .0015173 |
| %RSD | 8.710073 | .4805581 | .8493901 | 1.343553 | .2961079 | 1.227940 |
| | | | | | | |
| #1 | .0048445 | 2.649453 | 7.272326 | .0581170 | .8637924 | .1232742 |
| #2 | .0042932 | 2.627758 | 7.237585 | .0575037 | .8619783 | .1222153 |
| #3 | .0051026 | 2.650040 | 7.357887 | .0590569 | .8587556 | .1252076 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1143547 |
| Stddev | .0101432 |
| %RSD | 8.869957 |
| | |
| #1 | .1255195 |
| #2 | .1118372 |
| #3 | .1057073 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2267.518 | 27867.39 | 1439.971 | 1936.761 | 2346.066 |
| Stddev | 2.354 | 112.86 | 7.661 | 7.126 | 3.005 |
| %RSD | .1038144 | .4049876 | .5320255 | .3679168 | .1280694 |
| | | | | | |
| #1 | 2265.056 | 27871.44 | 1444.221 | 1940.265 | 2343.614 |
| #2 | 2269.747 | 27752.55 | 1444.566 | 1928.562 | 2349.417 |
| #3 | 2267.751 | 27978.16 | 1431.127 | 1941.457 | 2345.166 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-10LX5 Acquired: 12/18/2024 0:24:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKT3L Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0270794 | .0036093 | .1930108 | .0095286 | .0049019 | 15.28189 | .3310191 |
| Stddev | .0015232 | .0027605 | .0019286 | .0006907 | .0020683 | .03509 | .0012159 |
| %RSD | 5.624910 | 76.48167 | .9992213 | 7.249036 | 42.19325 | .2296478 | .3673351 |
| #1 | .0286117 | .0047122 | .1951287 | .0088066 | .0037954 | 15.32206 | .3319955 |
| #2 | .0255655 | .0004679 | .1925480 | .0095958 | .0036222 | 15.26646 | .3314048 |
| #3 | .0270610 | .0056479 | .1913557 | .0101832 | .0072880 | 15.25716 | .3296571 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0019382 | .0010211 | 29.07542 | .0263193 | .0336173 | .0558188 | 37.97568 |
| Stddev | .0000769 | .0000813 | .19365 | .0002864 | .0004388 | .0068365 | .19868 |
| %RSD | 3.969918 | 7.966822 | .6660279 | 1.088337 | 1.305371 | 12.24768 | .5231655 |
| #1 | .0020238 | .0009305 | 29.23083 | .0259930 | .0334410 | .0481222 | 38.20443 |
| #2 | .0019161 | .0010448 | 29.13694 | .0265294 | .0341168 | .0581475 | 37.87645 |
| #3 | .0018747 | .0010879 | 28.85848 | .0264354 | .0332940 | .0611867 | 37.84617 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.351532 | 10.49776 | .0283673 | .0022416 | -.408878 | .0392057 | .2017662 |
| Stddev | .014396 | .10721 | .0004120 | .0011460 | .367405 | .0129928 | .0071555 |
| %RSD | .6121853 | 1.021304 | 1.452342 | 51.12492 | 89.85667 | 33.14003 | 3.546449 |
| #1 | 2.365766 | 10.52380 | .0282140 | .0034696 | -.015955 | .0317261 | .1997295 |
| #2 | 2.351851 | 10.58955 | .0288339 | .0020548 | -.466797 | .0542085 | .1958499 |
| #3 | 2.336980 | 10.37992 | .0280539 | .0012005 | -.743884 | .0316826 | .2097193 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.610298 | 2.409414 | -.003984 | .0010969 | .5347387 | 1.861843 | .0116658 |
| Stddev | .198023 | .003485 | .000744 | .0002045 | .0026079 | .008690 | .0015942 |
| %RSD | 12.29730 | .1446431 | 18.67174 | 18.64514 | .4876931 | .4667315 | 13.66569 |
| #1 | 1.396282 | 2.409120 | -.003326 | .0008868 | .5318979 | 1.870956 | .0101618 |
| #2 | 1.647584 | 2.406085 | -.003835 | .0012953 | .5352939 | 1.853650 | .0114985 |
| #3 | 1.787027 | 2.413037 | -.004791 | .0011085 | .5370242 | 1.860922 | .0133370 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-10LX5 Acquired: 12/18/2024 0:24:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKT3L Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2099211 | .0297510 | .0386809 |
| Stddev | .0060976 | .0002368 | .0076158 |
| %RSD | 2.904706 | .7958691 | 19.68865 |
| | | | |
| #1 | .2042543 | .0300242 | .0472641 |
| #2 | .2163734 | .0296225 | .0327320 |
| #3 | .2091357 | .0296062 | .0360466 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1988.010 | 24027.32 | 1205.699 | 1674.668 | 2477.942 |
| Stddev | 1.485 | 68.09 | 6.992 | 6.243 | 1.115 |
| %RSD | .0747061 | .2834057 | .5799275 | .3728040 | .0449889 |
| | | | | | |
| #1 | 1989.631 | 24009.46 | 1199.266 | 1674.915 | 2477.603 |
| #2 | 1986.714 | 23969.94 | 1204.692 | 1668.305 | 2477.036 |
| #3 | 1987.687 | 24102.57 | 1213.141 | 1680.784 | 2479.187 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-12 Acquired: 12/18/2024 0:28:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKT3S Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2114878 | .0667988 | .9830267 | .1933318 | .1608568 | 66.67243 |
| Stddev | .0028567 | .0053293 | .0043158 | .0012671 | .0033268 | .35444 |
| %RSD | 1.350741 | 7.978090 | .4390296 | .6554039 | 2.068148 | .5316073 |
| #1 | .2147860 | .0634770 | .9817079 | .1935116 | .1621231 | 66.65375 |
| #2 | .2097953 | .0729458 | .9795243 | .1944995 | .1633644 | 66.32771 |
| #3 | .2098821 | .0639735 | .9878481 | .1919845 | .1570828 | 67.03584 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.777983 | .0923549 | .1022239 | 121.0573 | .4624287 | 1.076077 |
| Stddev | .020317 | .0009088 | .0003855 | .4418 | .0012479 | .003333 |
| %RSD | .4252212 | .9840103 | .3771507 | .3649103 | .2698668 | .3097586 |
| #1 | 4.772801 | .0913579 | .1023825 | 121.3412 | .4609995 | 1.076775 |
| #2 | 4.760759 | .0925701 | .1017844 | 120.5483 | .4633027 | 1.072450 |
| #3 | 4.800389 | .0931368 | .1025048 | 121.2824 | .4629838 | 1.079005 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6032563 | 158.1522 | 10.56678 | 43.75892 | 1.129631 | .0711619 |
| Stddev | .0074718 | .4428 | .05690 | .21326 | .003152 | .0006847 |
| %RSD | 1.238569 | .2799728 | .5385098 | .4873553 | .2790733 | .9621470 |
| #1 | .6023120 | 158.0462 | 10.52990 | 43.72411 | 1.130897 | .0703934 |
| #2 | .5963015 | 157.7720 | 10.53813 | 43.56521 | 1.126043 | .0717071 |
| #3 | .6111552 | 158.6384 | 10.63232 | 43.98745 | 1.131954 | .0713852 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.035841 | 1.011437 | 1.618356 | 7.709604 | F 12.01048 | -.020815 |
| Stddev | .521097 | .004689 | .020609 | .038423 | .03253 | .003186 |
| %RSD | 1453.922 | .4635498 | 1.273466 | .4983793 | .2708450 | 15.30732 |
| #1 | .565770 | 1.016386 | 1.641641 | 7.713643 | 12.01572 | -.017213 |
| #2 | -.327160 | 1.010863 | 1.610966 | 7.669320 | 11.97565 | -.023265 |
| #3 | -.346133 | 1.007061 | 1.602461 | 7.745848 | 12.04007 | -.021968 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-12 Acquired: 12/18/2024 0:28:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKT3S Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0047564 | 2.640820 | 7.568619 | .0579418 | .8705146 | .1242908 |
| Stddev | .0004250 | .006513 | .073885 | .0014754 | .0098949 | .0020243 |
| %RSD | 8.935483 | .2466438 | .9761977 | 2.546366 | 1.136675 | 1.628658 |
| #1 | .0051532 | 2.636354 | 7.486529 | .0596370 | .8811716 | .1225125 |
| #2 | .0043079 | 2.637813 | 7.589545 | .0569467 | .8616181 | .1238662 |
| #3 | .0048080 | 2.648294 | 7.629784 | .0572419 | .8687543 | .1264937 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1161865 |
| Stddev | .0032201 |
| %RSD | 2.771486 |
| #1 | .1141590 |
| #2 | .1145011 |
| #3 | .1198995 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2260.119 | 27820.65 | 1406.187 | 1933.109 | 2350.630 |
| Stddev | 4.290 | 137.58 | 7.011 | 9.695 | 4.740 |
| %RSD | .1898246 | .4945379 | .4985993 | .5015234 | .2016407 |
| #1 | 2256.448 | 27701.49 | 1414.278 | 1922.447 | 2345.332 |
| #2 | 2259.073 | 27789.25 | 1401.908 | 1935.484 | 2352.092 |
| #3 | 2264.835 | 27971.23 | 1402.374 | 1941.395 | 2354.467 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-13 Acquired: 12/18/2024 0:31:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKT4 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0656196 | .0171278 | .3148689 | .0168229 | .0071386 | 37.64956 |
| Stddev | .0019615 | .0094352 | .0024960 | .0010376 | .0027639 | .16108 |
| %RSD | 2.989136 | 55.08726 | .7927146 | 6.167790 | 38.71791 | .4278494 |
| #1 | .0664035 | .0164419 | .3121851 | .0178474 | .0072363 | 37.52976 |
| #2 | .0670678 | .0080542 | .3171207 | .0157727 | .0098523 | 37.58623 |
| #3 | .0633874 | .0268872 | .3153010 | .0168486 | .0043271 | 37.83268 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7095056 | .0047452 | .0035597 | 673.9626 | .0673183 | .1036416 |
| Stddev | .0045962 | .0001496 | .0001175 | 4.2868 | .0004282 | .0007074 |
| %RSD | .6477979 | 3.153146 | 3.300148 | .6360570 | .6361107 | .6825420 |
| #1 | .7057515 | .0046448 | .0036949 | 670.2362 | .0674301 | .1028396 |
| #2 | .7081338 | .0046737 | .0035016 | 673.0040 | .0668452 | .1039084 |
| #3 | .7146315 | .0049172 | .0034826 | 678.6475 | .0676794 | .1041767 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0850876 | 115.8458 | 7.900698 | 209.9642 | .0999252 | .0039892 |
| Stddev | .0085933 | .9283 | .050546 | 1.6072 | .0007983 | .0005496 |
| %RSD | 10.09937 | .8013472 | .6397707 | .7654539 | .7988616 | 13.77716 |
| #1 | .0936502 | 115.1911 | 7.884282 | 208.3929 | .1005910 | .0033699 |
| #2 | .0764639 | 115.4381 | 7.860401 | 209.8948 | .0990402 | .0041785 |
| #3 | .0851486 | 116.9082 | 7.957412 | 211.6050 | .1001442 | .0044191 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4810964 | .1275661 | .3849218 | 2.942396 | F 11.35682 | -.014300 |
| Stddev | .5429978 | .0094574 | .0123932 | .124306 | .04890 | .001130 |
| %RSD | 112.8668 | 7.413736 | 3.219659 | 4.224638 | .4305441 | 7.898766 |
| #1 | .1887803 | .1287041 | .3730105 | 2.820171 | 11.32413 | -.015457 |
| #2 | 1.107629 | .1175912 | .3977463 | 2.938335 | 11.33330 | -.014243 |
| #3 | .146879 | .1364030 | .3840086 | 3.068683 | 11.41304 | -.013200 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-13 Acquired: 12/18/2024 0:31:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKT4 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0013878 | 5.776118 | 6.347623 | .0282995 | .6871240 | .4208625 |
| Stddev | .0007081 | .017655 | .042036 | .0010480 | .0027989 | .0032854 |
| %RSD | 51.02610 | .3056606 | .6622250 | 3.703190 | .4073393 | .7806363 |
| | | | | | | |
| #1 | .0015969 | 5.759995 | 6.355936 | .0278175 | .6902399 | .4188544 |
| #2 | .0005986 | 5.773375 | 6.302052 | .0275793 | .6848226 | .4190792 |
| #3 | .0019678 | 5.794984 | 6.384881 | .0295018 | .6863096 | .4246539 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1028136 |
| Stddev | .0071321 |
| %RSD | 6.936952 |
| | |
| #1 | .0981389 |
| #2 | .0992792 |
| #3 | .1110227 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2100.072 | 25907.33 | 1337.436 | 1796.973 | 2120.203 |
| Stddev | 1.997 | 78.00 | 9.984 | 4.529 | 2.580 |
| %RSD | .0950858 | .3010817 | .7464892 | .2520229 | .1216673 |
| | | | | | |
| #1 | 2101.325 | 25828.53 | 1337.002 | 1795.477 | 2121.553 |
| #2 | 2101.122 | 25984.51 | 1347.630 | 1802.061 | 2121.828 |
| #3 | 2097.769 | 25908.93 | 1327.676 | 1793.381 | 2117.228 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-14 Acquired: 12/18/2024 0:35:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKT5 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0501335 | -.017894 | .2307335 | .0278610 | .0144217 | 44.53358 |
| Stddev | .0052851 | .004023 | .0010327 | .0034851 | .0032428 | .23548 |
| %RSD | 10.54211 | 22.48294 | .4475694 | 12.50870 | 22.48538 | .5287778 |
| #1 | .0506962 | -.018967 | .2306218 | .0238696 | .0152040 | 44.34489 |
| #2 | .0551147 | -.013443 | .2297611 | .0294128 | .0108594 | 44.79748 |
| #3 | .0445895 | -.021271 | .2318174 | .0303007 | .0172018 | 44.45837 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5194930 | .0058544 | .0036615 | F 1070.157 | .0795412 | .1273972 |
| Stddev | .0038615 | .0001427 | .0000279 | 6.232 | .0005646 | .0010350 |
| %RSD | .7433271 | 2.437816 | .7615402 | .5823288 | .7098794 | .8123900 |
| #1 | .5181392 | .0060061 | .0036295 | 1067.014 | .0794598 | .1265775 |
| #2 | .5238491 | .0058342 | .0036739 | 1077.334 | .0790217 | .1270540 |
| #3 | .5164906 | .0057228 | .0036810 | 1066.122 | .0801421 | .1285602 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1604047 | 164.2209 | 8.150536 | 210.1541 | .1513948 | .0038465 |
| Stddev | .0156686 | .9725 | .063709 | 1.1915 | .0017450 | .0017150 |
| %RSD | 9.768195 | .5922089 | .7816545 | .5669665 | 1.152597 | 44.58484 |
| #1 | .1694467 | 163.4040 | 8.113460 | 209.6737 | .1493850 | .0019860 |
| #2 | .1423121 | 165.2967 | 8.224100 | 211.5109 | .1525247 | .0041895 |
| #3 | .1694554 | 163.9620 | 8.114048 | 209.2778 | .1522746 | .0053641 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .9166339 | .1867238 | .6453652 | 6.581016 | 6.842744 | -.005458 |
| Stddev | .4446989 | .0066111 | .0045761 | .314120 | .026423 | .001978 |
| %RSD | 48.51435 | 3.540583 | .7090730 | 4.773126 | .3861497 | 36.23374 |
| #1 | .4381459 | .1795713 | .6472075 | 6.257272 | 6.817853 | -.007693 |
| #2 | 1.317260 | .1926105 | .6401551 | 6.884535 | 6.870471 | -.003933 |
| #3 | .994496 | .1879896 | .6487330 | 6.601242 | 6.839909 | -.004749 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-14 Acquired: 12/18/2024 0:35:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKT5 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0000085 | 1.272685 | 5.951066 | .0281810 | 1.148777 | .7746332 |
| Stddev | .0007141 | .006730 | .005345 | .0004523 | .007205 | .0056411 |
| %RSD | 8419.825 | .5287897 | .0898231 | 1.604895 | .6271728 | .7282330 |
| #1 | -.000554 | 1.269645 | 5.944904 | .0286006 | 1.140921 | .7722111 |
| #2 | .000812 | 1.280399 | 5.953836 | .0277019 | 1.150334 | .7810809 |
| #3 | -.000232 | 1.268012 | 5.954458 | .0282406 | 1.155076 | .7706076 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1725348 |
| Stddev | .0018815 |
| %RSD | 1.090514 |
| #1 | .1705316 |
| #2 | .1742648 |
| #3 | .1728079 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1981.070 | 24358.65 | 1292.893 | 1688.093 | 2050.888 |
| Stddev | 9.993 | 77.29 | 6.040 | 5.702 | 12.653 |
| %RSD | .5044057 | .3173033 | .4671957 | .3377943 | .6169697 |
| #1 | 1989.690 | 24358.44 | 1295.551 | 1692.308 | 2065.163 |
| #2 | 1983.401 | 24281.47 | 1285.980 | 1681.605 | 2046.449 |
| #3 | 1970.117 | 24436.05 | 1297.150 | 1690.368 | 2041.052 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-15 Acquired: 12/18/2024 0:39:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKT6 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0753377 | .0170812 | .3256565 | .0103601 | .0083325 | 37.09057 |
| Stddev | .0052439 | .0043898 | .0043059 | .0049900 | .0046819 | .27659 |
| %RSD | 6.960550 | 25.69945 | 1.322217 | 48.16539 | 56.18792 | .7457257 |
| #1 | .0806611 | .0132574 | .3207883 | .0146162 | .0045327 | 37.23826 |
| #2 | .0701770 | .0218747 | .3272155 | .0115957 | .0135627 | 36.77148 |
| #3 | .0751752 | .0161113 | .3289659 | .0048684 | .0069022 | 37.26198 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .9053554 | .0051420 | .0043630 | F 1484.226 | .0656064 | .1402635 |
| Stddev | .0022821 | .0000290 | .0000439 | 8.599 | .0009237 | .0009690 |
| %RSD | .2520635 | .5638489 | 1.005746 | .5793391 | 1.407945 | .6908223 |
| #1 | .9058000 | .0051405 | .0044105 | 1486.416 | .0663155 | .1412878 |
| #2 | .9028837 | .0051137 | .0043544 | 1474.744 | .0659419 | .1393615 |
| #3 | .9073825 | .0051716 | .0043240 | 1491.518 | .0645619 | .1401413 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2326075 | 133.5739 | 11.15892 | 227.0511 | .1554518 | .0037341 |
| Stddev | .0102482 | .4841 | .03575 | .5345 | .0010937 | .0011414 |
| %RSD | 4.405797 | .3623907 | .3203636 | .2354005 | .7035748 | 30.56585 |
| #1 | .2443075 | 133.6475 | 11.18704 | 227.4133 | .1566776 | .0038105 |
| #2 | .2252218 | 133.0572 | 11.11869 | 226.4373 | .1551020 | .0048354 |
| #3 | .2282931 | 134.0169 | 11.17102 | 227.3028 | .1545758 | .0025565 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6439774 | .1066168 | .4765280 | 7.426389 | F 12.68337 | .0351084 |
| Stddev | .7497405 | .0183114 | .0084959 | .240004 | .02608 | .0023012 |
| %RSD | 116.4234 | 17.17496 | 1.782875 | 3.231766 | .2056432 | 6.554581 |
| #1 | .2507191 | .0900796 | .4844718 | 7.333873 | 12.69150 | .0326351 |
| #2 | 1.508530 | .1262958 | .4775414 | 7.246412 | 12.65419 | .0355039 |
| #3 | .172683 | .1034748 | .4675709 | 7.698882 | 12.70441 | .0371863 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-15 Acquired: 12/18/2024 0:39:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKT6 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0005875 | 2.236643 | 5.703363 | .0271143 | .5809175 | 1.088911 |
| Stddev | .0004320 | .009428 | .001731 | .0018062 | .0072667 | .003183 |
| %RSD | 73.52671 | .4215024 | .0303491 | 6.661491 | 1.250909 | .2923505 |
| | | | | | | |
| #1 | .0010482 | 2.243639 | 5.705125 | .0266027 | .5884747 | 1.092117 |
| #2 | .0005229 | 2.225922 | 5.703300 | .0291212 | .5739811 | 1.085751 |
| #3 | .0001915 | 2.240367 | 5.701665 | .0256191 | .5802966 | 1.088866 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1576416 |
| Stddev | .0030526 |
| %RSD | 1.936412 |
| | |
| #1 | .1610917 |
| #2 | .1565415 |
| #3 | .1552915 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2015.808 | 24845.21 | 1327.595 | 1718.324 | 1963.727 |
| Stddev | 4.124 | 59.09 | 6.998 | 9.920 | 4.754 |
| %RSD | .2045777 | .2378415 | .5270913 | .5773304 | .2420994 |
| | | | | | |
| #1 | 2014.051 | 24782.89 | 1323.871 | 1711.788 | 1958.554 |
| #2 | 2020.519 | 24900.44 | 1335.667 | 1729.739 | 1967.904 |
| #3 | 2012.853 | 24852.31 | 1323.247 | 1713.445 | 1964.723 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-16 Acquired: 12/18/2024 0:43:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKT7 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0480164 | .0238837 | .2412895 | -.011399 | -.000075 | 34.83879 |
| Stddev | .0077462 | .0049309 | .0043731 | .004400 | .001026 | .08427 |
| %RSD | 16.13242 | 20.64562 | 1.812383 | 38.59631 | 1364.309 | .2418789 |
| #1 | .0565845 | .0255876 | .2438731 | -.014052 | .001085 | 34.82728 |
| #2 | .0415087 | .0183268 | .2362404 | -.013826 | -.000446 | 34.92822 |
| #3 | .0459560 | .0277367 | .2437552 | -.006321 | -.000864 | 34.76086 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6596659 | .0053156 | .0040785 | F 2254.144 | .0624905 | .1233893 |
| Stddev | .0038268 | .0002519 | .0001157 | 21.511 | .0014092 | .0016727 |
| %RSD | .5801080 | 4.738909 | 2.837032 | .9542764 | 2.255045 | 1.355640 |
| #1 | .6608773 | .0054747 | .0041578 | 2278.288 | .0640582 | .1218734 |
| #2 | .6553800 | .0050251 | .0041319 | 2237.021 | .0613292 | .1231107 |
| #3 | .6627403 | .0054468 | .0039457 | 2247.124 | .0620839 | .1251838 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1666434 | 106.2681 | 7.464546 | 126.9644 | .1167376 | .0033625 |
| Stddev | .0131855 | .5568 | .033009 | .4653 | .0013976 | .0010389 |
| %RSD | 7.912397 | .5239489 | .4422119 | .3665137 | 1.197215 | 30.89727 |
| #1 | .1517260 | 105.6254 | 7.430598 | 126.4357 | .1162370 | .0022547 |
| #2 | .1714636 | 106.6056 | 7.496528 | 127.1454 | .1183165 | .0043151 |
| #3 | .1767405 | 106.5731 | 7.466513 | 127.3120 | .1156591 | .0035179 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7149625 | .0783947 | .4055742 | 9.538736 | 5.339925 | .0645087 |
| Stddev | .4657389 | .0148668 | .0052655 | .014574 | .001553 | .0048244 |
| %RSD | 65.14172 | 18.96398 | 1.298276 | .1527893 | .0290818 | 7.478721 |
| #1 | 1.102603 | .0764983 | .4048247 | 9.530985 | 5.339601 | .0674822 |
| #2 | .843964 | .0645671 | .4111742 | 9.555547 | 5.341615 | .0671016 |
| #3 | .198321 | .0941186 | .4007235 | 9.529674 | 5.338560 | .0589423 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-16 Acquired: 12/18/2024 0:43:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKT7 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.001480 | 2.944262 | 5.878676 | .0247610 | .3052259 | 1.580135 |
| Stddev | .000268 | .006900 | .025773 | .0005768 | .0045825 | .007363 |
| %RSD | 18.10942 | .2343565 | .4384109 | 2.329427 | 1.501356 | .4659761 |
| | | | | | | |
| #1 | -.001742 | 2.946226 | 5.849014 | .0241250 | .3042302 | 1.571913 |
| #2 | -.001207 | 2.936593 | 5.891416 | .0252503 | .3012232 | 1.582370 |
| #3 | -.001490 | 2.949967 | 5.895598 | .0249077 | .3102245 | 1.586121 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1880567 |
| Stddev | .0014588 |
| %RSD | .7757188 |
| | |
| #1 | .1863879 |
| #2 | .1890899 |
| #3 | .1886922 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1917.013 | 23532.50 | 1263.057 | 1627.492 | 1910.040 |
| Stddev | 5.092 | 16.61 | 8.273 | 11.388 | 1.758 |
| %RSD | .2656074 | .0705742 | .6550140 | .6997296 | .0920448 |
| | | | | | |
| #1 | 1912.850 | 23516.99 | 1272.610 | 1633.756 | 1910.392 |
| #2 | 1922.690 | 23550.02 | 1258.337 | 1634.373 | 1911.595 |
| #3 | 1915.499 | 23530.48 | 1258.225 | 1614.347 | 1908.132 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-17 Acquired: 12/18/2024 0:47:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKW5 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0872183 | -.020099 | 1.774692 | .0427404 | .0221843 | 57.06523 |
| Stddev | .0035481 | .003733 | .005205 | .0064127 | .0024962 | .31853 |
| %RSD | 4.068065 | 18.57288 | .2932649 | 15.00374 | 11.25227 | .5581836 |
| #1 | .0880730 | -.016677 | 1.771635 | .0396598 | .0219228 | 56.95241 |
| #2 | .0902609 | -.024080 | 1.771740 | .0501120 | .0198291 | 57.42481 |
| #3 | .0833209 | -.019541 | 1.780702 | .0384493 | .0248009 | 56.81846 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.673851 | .0073878 | .0088104 | 265.3732 | .1262191 | .1145696 |
| Stddev | .008377 | .0001832 | .0000986 | .5563 | .0006113 | .0013971 |
| %RSD | .5004625 | 2.479694 | 1.119672 | .2096276 | .4843263 | 1.219399 |
| #1 | 1.676101 | .0072959 | .0087799 | 265.7139 | .1269241 | .1130955 |
| #2 | 1.680873 | .0075987 | .0087306 | 265.6744 | .1258363 | .1147392 |
| #3 | 1.664579 | .0072687 | .0089207 | 264.7312 | .1258970 | .1158741 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3074412 | 153.3947 | 6.833699 | 52.42809 | .1764962 | .0044425 |
| Stddev | .0151632 | .9790 | .046012 | .37995 | .0007775 | .0012250 |
| %RSD | 4.932063 | .6382190 | .6733065 | .7247136 | .4405302 | 27.57476 |
| #1 | .3026813 | 153.7767 | 6.838240 | 52.50767 | .1756505 | .0030672 |
| #2 | .3244132 | 154.1251 | 6.877271 | 52.76195 | .1766581 | .0054164 |
| #3 | .2952290 | 152.2823 | 6.785585 | 52.01465 | .1771801 | .0048440 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0718501 | .1612794 | 2.360454 | 10.79091 | F 15.92079 | .0068068 |
| Stddev | .6966331 | .0059854 | .013296 | .20731 | .06791 | .0024041 |
| %RSD | 969.5648 | 3.711206 | .5632840 | 1.921143 | .4265594 | 35.31989 |
| #1 | .8288585 | .1598406 | 2.369390 | 10.76817 | 15.88197 | .0095502 |
| #2 | -.071067 | .1561445 | 2.345174 | 11.00865 | 15.88120 | .0058024 |
| #3 | -.542241 | .1678531 | 2.366798 | 10.59591 | 15.99921 | .0050677 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-17 Acquired: 12/18/2024 0:47:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKW5 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0065191 | 4.298077 | 7.958236 | .0867028 | .8614782 | .2056982 |
| Stddev | .0002609 | .021447 | .085587 | .0004079 | .0117794 | .0021317 |
| %RSD | 4.002846 | .4989994 | 1.075451 | .4704807 | 1.367348 | 1.036322 |
| | | | | | | |
| #1 | .0066415 | 4.277980 | 7.928622 | .0870598 | .8677538 | .2049622 |
| #2 | .0066964 | 4.295592 | 8.054697 | .0862582 | .8687911 | .2081004 |
| #3 | .0062194 | 4.320659 | 7.891389 | .0867905 | .8478897 | .2040321 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1123449 |
| Stddev | .0024429 |
| %RSD | 2.174463 |
| | |
| #1 | .1113196 |
| #2 | .1151334 |
| #3 | .1105818 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2136.935 | 26231.45 | 1346.881 | 1821.806 | 2277.988 |
| Stddev | 2.630 | 43.79 | 10.487 | 3.579 | 4.260 |
| %RSD | .1230522 | .1669473 | .7786033 | .1964367 | .1870176 |
| | | | | | |
| #1 | 2139.967 | 26190.33 | 1347.325 | 1820.357 | 2282.259 |
| #2 | 2135.558 | 26277.50 | 1336.179 | 1825.883 | 2277.965 |
| #3 | 2135.279 | 26226.51 | 1357.139 | 1819.180 | 2273.739 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-18 Acquired: 12/18/2024 0:51:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKW6 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0915754 | -.028737 | 2.077599 | .0498622 | .0266491 | 62.37124 |
| Stddev | .0049965 | .003288 | .003053 | .0071328 | .0023844 | .28029 |
| %RSD | 5.456195 | 11.44209 | .1469573 | 14.30513 | 8.947469 | .4493887 |
| #1 | .0889866 | -.031174 | 2.075483 | .0565943 | .0266922 | 62.53063 |
| #2 | .0973351 | -.024997 | 2.076214 | .0423868 | .0242435 | 62.04761 |
| #3 | .0884046 | -.030041 | 2.081099 | .0506055 | .0290117 | 62.53550 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.903835 | .0079090 | .0102380 | 347.3569 | .1366244 | .1286165 |
| Stddev | .009852 | .0000649 | .0001023 | 2.2401 | .0012791 | .0008997 |
| %RSD | .5174584 | .8206328 | .9988892 | .6448986 | .9362423 | .6995003 |
| #1 | 1.911071 | .0079836 | .0101733 | 348.6158 | .1379971 | .1277321 |
| #2 | 1.892616 | .0078658 | .0101849 | 344.7706 | .1354659 | .1295308 |
| #3 | 1.907819 | .0078775 | .0103559 | 348.6844 | .1364101 | .1285866 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3383963 | 174.1085 | 8.889352 | 68.36927 | .1949073 | .0058959 |
| Stddev | .0039819 | .9679 | .049106 | .27746 | .0007913 | .0015597 |
| %RSD | 1.176689 | .5558989 | .5524183 | .4058232 | .4059930 | 26.45337 |
| #1 | .3375096 | 174.4735 | 8.932040 | 68.63276 | .1942705 | .0047083 |
| #2 | .3427467 | 173.0112 | 8.835685 | 68.07968 | .1957932 | .0053173 |
| #3 | .3349325 | 174.8408 | 8.900330 | 68.39536 | .1946582 | .0076622 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3723673 | .1752470 | 2.525788 | 9.460728 | F 17.11808 | -.010086 |
| Stddev | .9265472 | .0182457 | .017544 | .172132 | .05225 | .001643 |
| %RSD | 248.8261 | 10.41144 | .6945767 | 1.819440 | .3052210 | 16.28583 |
| #1 | -.323226 | .1913605 | 2.506085 | 9.625964 | 17.06549 | -.010658 |
| #2 | .016173 | .1789450 | 2.539716 | 9.282442 | 17.11878 | -.008234 |
| #3 | 1.424154 | .1554355 | 2.531561 | 9.473779 | 17.16998 | -.011367 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-18 Acquired: 12/18/2024 0:51:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKW6 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0056445 | 3.762046 | 7.621893 | .1117105 | .9297262 | .2752353 |
| Stddev | .0006866 | .014951 | .057742 | .0006234 | .0044456 | .0017473 |
| %RSD | 12.16380 | .3974295 | .7575818 | .5580546 | .4781584 | .6348317 |
| | | | | | | |
| #1 | .0057602 | 3.756797 | 7.679549 | .1112419 | .9297743 | .2756745 |
| #2 | .0049075 | 3.750427 | 7.564065 | .1124180 | .9252569 | .2733104 |
| #3 | .0062660 | 3.778914 | 7.622065 | .1114715 | .9341476 | .2767212 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1233767 |
| Stddev | .0002983 |
| %RSD | .2417726 |
| | |
| #1 | .1235225 |
| #2 | .1230335 |
| #3 | .1235740 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2161.437 | 26599.19 | 1378.348 | 1848.672 | 2235.051 |
| Stddev | 3.457 | 3.48 | 11.536 | 6.644 | 3.912 |
| %RSD | .1599269 | .0131013 | .8369230 | .3594008 | .1750503 |
| | | | | | |
| #1 | 2163.577 | 26595.21 | 1367.422 | 1855.490 | 2239.220 |
| #2 | 2163.285 | 26601.69 | 1390.410 | 1848.310 | 2234.473 |
| #3 | 2157.449 | 26600.68 | 1377.213 | 1842.217 | 2231.459 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-19 Acquired: 12/18/2024 0:55:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKW7 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1267725 | -.029061 | 1.462270 | .0671102 | .0303316 | 65.40158 |
| Stddev | .0045615 | .002315 | .006958 | .0025042 | .0012404 | .27274 |
| %RSD | 3.598167 | 7.965428 | .4758386 | 3.731398 | 4.089339 | .4170222 |
| #1 | .1319726 | -.030995 | 1.459689 | .0656417 | .0316538 | 65.18724 |
| #2 | .1234471 | -.029693 | 1.456971 | .0656873 | .0301473 | 65.70857 |
| #3 | .1248978 | -.026496 | 1.470150 | .0700016 | .0291937 | 65.30893 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.013138 | .0080238 | .0104719 | 438.3868 | .1261937 | .1655760 |
| Stddev | .008652 | .0001664 | .0002269 | 1.2723 | .0014017 | .0016967 |
| %RSD | .4297942 | 2.073478 | 2.167053 | .2902123 | 1.110727 | 1.024710 |
| #1 | 2.006920 | .0079350 | .0104152 | 438.1795 | .1275598 | .1656465 |
| #2 | 2.023019 | .0082157 | .0102787 | 439.7500 | .1262625 | .1638452 |
| #3 | 2.009475 | .0079207 | .0107218 | 437.2310 | .1247590 | .1672363 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3024852 | 206.1135 | 15.90552 | 75.65586 | .2241243 | .0073574 |
| Stddev | .0024710 | .9630 | .07547 | .37675 | .0014841 | .0009106 |
| %RSD | .8169039 | .4672175 | .4744960 | .4979749 | .6621915 | 12.37649 |
| #1 | .3048711 | 205.9001 | 15.87246 | 75.58720 | .2232630 | .0063250 |
| #2 | .2999370 | 207.1653 | 15.99188 | 76.06221 | .2232718 | .0080462 |
| #3 | .3026474 | 205.2751 | 15.85221 | 75.31816 | .2258380 | .0077009 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6463272 | .1880112 | 1.963001 | 8.228635 | F 16.18947 | -.023704 |
| Stddev | .4206873 | .0082457 | .017478 | .139416 | .09481 | .005466 |
| %RSD | 65.08890 | 4.385735 | .8903860 | 1.694272 | .5856221 | 23.05880 |
| #1 | .7937895 | .1914290 | 1.944757 | 8.308030 | 16.14363 | -.029991 |
| #2 | .1717607 | .1786062 | 1.964648 | 8.310220 | 16.12630 | -.020084 |
| #3 | .9734313 | .1939985 | 1.979597 | 8.067657 | 16.29849 | -.021037 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-19 Acquired: 12/18/2024 0:55:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKW7 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0051620 | 2.624261 | 7.920086 | .0733899 | .9115613 | .3082181 |
| Stddev | .0002864 | .017926 | .108165 | .0013447 | .0045516 | .0012085 |
| %RSD | 5.548149 | .6830984 | 1.365708 | 1.832323 | .4993199 | .3920882 |
| | | | | | | |
| #1 | .0049313 | 2.618532 | 7.825891 | .0732887 | .9118458 | .3071150 |
| #2 | .0050720 | 2.609899 | 7.896154 | .0720986 | .9159640 | .3095098 |
| #3 | .0054825 | 2.644351 | 8.038213 | .0747823 | .9068741 | .3080294 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1376628 |
| Stddev | .0064801 |
| %RSD | 4.707243 |
| | |
| #1 | .1361537 |
| #2 | .1320704 |
| #3 | .1447643 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2215.057 | 27265.62 | 1418.838 | 1895.597 | 2189.705 |
| Stddev | 3.083 | 52.05 | 5.789 | 1.976 | 8.444 |
| %RSD | .1391905 | .1908939 | .4080312 | .1042507 | .3856442 |
| | | | | | |
| #1 | 2218.616 | 27219.37 | 1424.046 | 1894.116 | 2197.265 |
| #2 | 2213.346 | 27255.51 | 1412.605 | 1894.834 | 2191.259 |
| #3 | 2213.209 | 27321.98 | 1419.864 | 1897.841 | 2180.592 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-20 Acquired: 12/18/2024 0:58:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKW8 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0935628 | .0038390 | .5568654 | .0367789 | .0173986 | 48.62110 |
| Stddev | .0012349 | .0049009 | .0016768 | .0029646 | .0007917 | .13036 |
| %RSD | 1.319881 | 127.6595 | .3011150 | 8.060566 | 4.550441 | .2681077 |
| #1 | .0947967 | .0056849 | .5584556 | .0343793 | .0182945 | 48.53732 |
| #2 | .0935649 | .0075489 | .5570268 | .0400930 | .0167930 | 48.77129 |
| #3 | .0923268 | -.001717 | .5551137 | .0358644 | .0171082 | 48.55469 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.677895 | .0063548 | .0060735 | F 1258.373 | .0903517 | .1567626 |
| Stddev | .005784 | .0001949 | .0001070 | 2.454 | .0007382 | .0005104 |
| %RSD | .3447174 | 3.067122 | 1.762356 | .1949972 | .8169938 | .3256043 |
| #1 | 1.672922 | .0062836 | .0061047 | 1256.882 | .0896824 | .1562092 |
| #2 | 1.684242 | .0065753 | .0061615 | 1261.205 | .0902292 | .1572150 |
| #3 | 1.676522 | .0062054 | .0059544 | 1257.032 | .0911434 | .1568635 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2943720 | 176.0430 | 17.38797 | 254.0467 | .1834404 | .0051407 |
| Stddev | .0052457 | .5264 | .06320 | 1.0749 | .0004665 | .0008546 |
| %RSD | 1.781982 | .2990137 | .3634809 | .4231059 | .2542865 | 16.62337 |
| #1 | .3001450 | 175.6562 | 17.31806 | 252.9615 | .1834252 | .0060187 |
| #2 | .2930733 | 176.6424 | 17.44108 | 255.1109 | .1829816 | .0050919 |
| #3 | .2898976 | 175.8303 | 17.40475 | 254.0678 | .1839142 | .0043117 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2914965 | .1420521 | .8174328 | 8.826917 | 9.368649 | .0138373 |
| Stddev | .4892932 | .0050845 | .0118547 | .178473 | .028955 | .0038093 |
| %RSD | 167.8556 | 3.579316 | 1.450238 | 2.021914 | .3090627 | 27.52930 |
| #1 | .8279518 | .1442952 | .8110118 | 8.681054 | 9.349049 | .0181366 |
| #2 | .1767927 | .1456293 | .8101737 | 9.025925 | 9.354991 | .0124926 |
| #3 | -.130255 | .1362318 | .8311129 | 8.773771 | 9.401907 | .0108827 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-20 Acquired: 12/18/2024 0:58:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKW8 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0024222 | 2.716116 | 6.943646 | .0422925 | .5097588 | .8494082 |
| Stddev | .0006245 | .010509 | .035173 | .0035181 | .0095368 | .0038033 |
| %RSD | 25.78047 | .3869085 | .5065529 | 8.318366 | 1.870838 | .4477605 |
| | | | | | | |
| #1 | .0031148 | 2.713275 | 6.927916 | .0387311 | .4988391 | .8450734 |
| #2 | .0022493 | 2.707320 | 6.983940 | .0423809 | .5139865 | .8521859 |
| #3 | .0019024 | 2.727753 | 6.919084 | .0457656 | .5164510 | .8509653 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1718519 |
| Stddev | .0034496 |
| %RSD | 2.007329 |
| | |
| #1 | .1716867 |
| #2 | .1753812 |
| #3 | .1684879 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2031.007 | 24928.26 | 1340.419 | 1725.418 | 1995.181 |
| Stddev | 1.651 | 124.04 | 5.330 | 7.114 | 1.624 |
| %RSD | .0812804 | .4976040 | .3976679 | .4122900 | .0814181 |
| | | | | | |
| #1 | 2032.153 | 25021.12 | 1345.718 | 1730.641 | 1994.002 |
| #2 | 2031.754 | 24976.28 | 1335.058 | 1728.297 | 1994.508 |
| #3 | 2029.115 | 24787.39 | 1340.481 | 1717.316 | 1997.034 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: CCV054 Acquired: 12/18/2024 1:02:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCV054 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.185671 | 5.054331 | 24.75729 | 5.218158 | 5.185185 | 396.4303 | 10.38544 |
| Stddev | .019014 | .031446 | .11760 | .031256 | .025439 | 5.7769 | .15090 |
| %RSD | .3666681 | .6221598 | .4749942 | .5989799 | .4906159 | 1.457227 | 1.452985 |
| #1 | 5.207174 | 5.052455 | 24.79992 | 5.210757 | 5.192526 | 398.6416 | 10.44853 |
| #2 | 5.171077 | 5.086673 | 24.84761 | 5.252450 | 5.206146 | 400.7749 | 10.49455 |
| #3 | 5.178762 | 5.023865 | 24.62432 | 5.191267 | 5.156882 | 389.8744 | 10.21323 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5193119 | 2.511585 | 411.7863 | 15.79611 | 2.515829 | 15.28022 | 405.6216 |
| Stddev | .0071956 | .010514 | 6.8925 | .04162 | .011080 | .27325 | 5.9799 |
| %RSD | 1.385604 | .4186362 | 1.673799 | .2634965 | .4404222 | 1.788239 | 1.474258 |
| #1 | .5187312 | 2.515122 | 415.2170 | 15.77927 | 2.523920 | 15.39149 | 407.7234 |
| #2 | .5267803 | 2.519875 | 416.2901 | 15.84351 | 2.520366 | 15.48027 | 410.2668 |
| #3 | .5124243 | 2.499758 | 403.8517 | 15.76554 | 2.503200 | 14.96889 | 398.8745 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 15.68704 | 407.1635 | 2.511597 | 1.310873 | 394.0830 | 2.541447 | 15.67565 |
| Stddev | .24976 | 6.7891 | .013040 | .002247 | 6.7206 | .037658 | .09912 |
| %RSD | 1.592162 | 1.667418 | .5192046 | .1713859 | 1.705371 | 1.481737 | .6323392 |
| #1 | 15.80629 | 410.4665 | 2.518979 | 1.313322 | 396.8207 | 2.557259 | 15.77420 |
| #2 | 15.85483 | 411.6691 | 2.519272 | 1.310389 | 399.0025 | 2.568621 | 15.57596 |
| #3 | 15.40000 | 399.3549 | 2.496540 | 1.308907 | 386.4256 | 2.498462 | 15.67678 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 157.2156 | 5.004663 | 4.910199 | 4.797275 | 4.951004 | 5.052610 | 5.054614 |
| Stddev | 2.2501 | .015180 | .071546 | .015723 | .012827 | .075705 | .024269 |
| %RSD | 1.431192 | .3033107 | 1.457100 | .3277580 | .2590760 | 1.498337 | .4801419 |
| #1 | 158.1726 | 5.015632 | 4.917177 | 4.804765 | 4.955938 | 5.046366 | 5.059834 |
| #2 | 158.8290 | 5.011019 | 4.978001 | 4.807852 | 4.960631 | 5.131243 | 5.075849 |
| #3 | 154.6453 | 4.987339 | 4.835419 | 4.779206 | 4.936443 | 4.980219 | 5.028160 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: CCV054 Acquired: 12/18/2024 1:02:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCV054 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 5.140867 | 4.839813 | 5.155839 |
| Stddev | .073141 | .080217 | .067283 |
| %RSD | 1.422729 | 1.657432 | 1.304993 |
| | | | |
| #1 | 5.170721 | 4.873159 | 5.168252 |
| #2 | 5.194359 | 4.897978 | 5.216051 |
| #3 | 5.057522 | 4.748302 | 5.083214 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1523.945 | 20516.15 | 1118.969 | 1348.109 | 1988.911 |
| Stddev | 6.408 | 26.35 | 16.063 | 5.987 | 10.622 |
| %RSD | .4204947 | .1284259 | 1.435557 | .4440959 | .5340376 |
| | | | | | |
| #1 | 1524.343 | 20535.95 | 1121.882 | 1345.409 | 1987.343 |
| #2 | 1517.347 | 20486.24 | 1101.649 | 1354.970 | 1979.161 |
| #3 | 1530.145 | 20526.25 | 1133.378 | 1343.947 | 2000.230 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: CCB054 Acquired: 12/18/2024 1:06:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCB054 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0026321 | .0052016 | -.001343 | .0026188 | -.001041 | .0443229 |
| Stddev | .0023714 | .0036585 | .002280 | .0038520 | .001585 | .0093220 |
| %RSD | 90.09631 | 70.33386 | 169.7894 | 147.0905 | 152.3168 | 21.03209 |
| #1 | .0013300 | .0025979 | .001060 | .0063407 | -.002258 | .0397513 |
| #2 | .0053693 | .0036225 | -.003476 | .0028672 | .000752 | .0381691 |
| #3 | .0011970 | .0093845 | -.001611 | -.001351 | -.001616 | .0550482 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0014195 | .0000626 | -.000013 | -.066758 | .0001524 | .0004244 |
| Stddev | .0013164 | .0000715 | .000046 | .040146 | .0003440 | .0003090 |
| %RSD | 92.73900 | 114.2329 | 351.7239 | 60.13696 | 225.7542 | 72.80943 |
| #1 | .0005284 | .0001155 | -.000001 | -.098304 | .0004185 | .0001664 |
| #2 | .0029314 | .0000911 | -.000064 | -.021568 | .0002747 | .0003399 |
| #3 | .0007985 | -.000019 | .000026 | -.080400 | -.000236 | .0007669 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0109628 | .0245292 | -.000202 | -.102705 | .0003262 | .0007305 |
| Stddev | .0078176 | .0414740 | .003191 | .076924 | .0008272 | .0014678 |
| %RSD | 71.31095 | 169.0800 | 1578.115 | 74.89834 | 253.5805 | 200.9518 |
| #1 | .0019609 | .0410768 | .000546 | -.125048 | .0009864 | -.000159 |
| #2 | .0160476 | -.022664 | -.003700 | -.165984 | -.000602 | -.000074 |
| #3 | .0148797 | .055175 | .002547 | -.017082 | .000594 | .002425 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.644268 | .0085606 | .0275107 | .1985371 | -.000168 | .0144397 |
| Stddev | .814337 | .0111282 | .0174015 | .3760641 | .000184 | .0049556 |
| %RSD | 126.3972 | 129.9930 | 63.25345 | 189.4176 | 109.4081 | 34.31945 |
| #1 | .207323 | .0064418 | .0083424 | .2585831 | .000029 | .0090843 |
| #2 | -1.41537 | -.001356 | .0423145 | .5409656 | -.000199 | .0188633 |
| #3 | -.72475 | .020596 | .0318753 | -.203937 | -.000335 | .0153716 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: CCB054 Acquired: 12/18/2024 1:06:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCB054 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0001406 | .0022762 | .0006540 | -.001163 | -.001374 | .0001675 |
| Stddev | .0002163 | .0056189 | .0007039 | .000615 | .001921 | .0002548 |
| %RSD | 153.8788 | 246.8538 | 107.6302 | 52.90534 | 139.8325 | 152.1114 |
| | | | | | | |
| #1 | .0000367 | -.002758 | -.000045 | -.001856 | .000840 | .0000342 |
| #2 | -.000004 | .001249 | .001362 | -.000682 | -.002608 | .0004614 |
| #3 | .000389 | .008338 | .000645 | -.000950 | -.002353 | .0000070 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | F .0305039 |
| Stddev | .0053561 |
| %RSD | 17.55870 |
| | |
| #1 | .0283862 |
| #2 | .0265305 |
| #3 | .0365951 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1866.530 | 22796.53 | 1180.090 | 1585.442 | 2475.548 |
| Stddev | 5.734 | 218.42 | 70.748 | 13.172 | 9.696 |
| %RSD | .3072096 | .9581338 | 5.995156 | .8307824 | .3916904 |
| | | | | | |
| #1 | 1864.484 | 22547.44 | 1137.872 | 1570.375 | 2473.633 |
| #2 | 1873.006 | 22886.84 | 1140.631 | 1594.776 | 2486.059 |
| #3 | 1862.099 | 22955.31 | 1261.768 | 1591.174 | 2466.951 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-21 Acquired: 12/18/2024 1:10:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKW9 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0789886 | .0185879 | .2945761 | .0057143 | .0075574 | 48.21182 |
| Stddev | .0007433 | .0026677 | .0074610 | .0047104 | .0004046 | .02967 |
| %RSD | .9409683 | 14.35201 | 2.532797 | 82.43203 | 5.353617 | .0615409 |
| | | | | | | |
| #1 | .0781453 | .0165930 | .2983197 | .0100169 | .0074243 | 48.23270 |
| #2 | .0795483 | .0216181 | .2859845 | .0006814 | .0080117 | 48.22490 |
| #3 | .0792721 | .0175526 | .2994241 | .0064445 | .0072361 | 48.17786 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7257113 | .0056180 | .0045734 | F 2044.041 | .0841620 | .1470222 |
| Stddev | .0019303 | .0002115 | .0001748 | 5.681 | .0008640 | .0008779 |
| %RSD | .2659916 | 3.764906 | 3.823081 | .2779378 | 1.026614 | .5971385 |
| | | | | | | |
| #1 | .7263279 | .0055115 | .0043719 | 2049.019 | .0851562 | .1463234 |
| #2 | .7235480 | .0054809 | .0046850 | 2037.852 | .0837373 | .1467355 |
| #3 | .7272579 | .0058616 | .0046632 | 2045.252 | .0835926 | .1480076 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2738534 | 130.8194 | 12.06049 | 231.5231 | .1616096 | .0039691 |
| Stddev | .0076060 | .2153 | .03904 | .8082 | .0007927 | .0005819 |
| %RSD | 2.777388 | .1645972 | .3237298 | .3490663 | .4904724 | 14.66078 |
| | | | | | | |
| #1 | .2650718 | 130.7152 | 12.04827 | 231.3144 | .1623830 | .0032983 |
| #2 | .2783603 | 130.6760 | 12.02901 | 230.8398 | .1607990 | .0043382 |
| #3 | .2781281 | 131.0670 | 12.10418 | 232.4152 | .1616467 | .0042708 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6816108 | .1080412 | .5536112 | 11.70004 | 7.251050 | .0352891 |
| Stddev | .9768517 | .0091404 | .0057554 | .12613 | .033746 | .0062204 |
| %RSD | 143.3152 | 8.460117 | 1.039605 | 1.078070 | .4653957 | 17.62709 |
| | | | | | | |
| #1 | -.118308 | .1092731 | .5475646 | 11.84295 | 7.251513 | .0423597 |
| #2 | .392849 | .0983474 | .5590226 | 11.65293 | 7.217075 | .0306587 |
| #3 | 1.770291 | .1165032 | .5542463 | 11.60424 | 7.284562 | .0328490 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-21 Acquired: 12/18/2024 1:10:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKW9 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000666 | 2.333836 | 6.703669 | .0300243 | .5907293 | 1.466237 |
| Stddev | .000530 | .019053 | .015777 | .0010201 | .0079767 | .004345 |
| %RSD | 79.59030 | .8163783 | .2353423 | 3.397567 | 1.350311 | .2963647 |
| | | | | | | |
| #1 | -.000450 | 2.314573 | 6.713270 | .0292861 | .5913554 | 1.464376 |
| #2 | -.001269 | 2.334262 | 6.685461 | .0311883 | .5824580 | 1.463131 |
| #3 | -.000277 | 2.352672 | 6.712276 | .0295985 | .5983744 | 1.471203 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .2146305 |
| Stddev | .0055529 |
| %RSD | 2.587185 |
| | |
| #1 | .2126607 |
| #2 | .2103310 |
| #3 | .2208998 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1952.195 | 23963.40 | 1276.065 | 1666.073 | 1929.178 |
| Stddev | 3.404 | 237.92 | 3.101 | 14.970 | 8.207 |
| %RSD | .1743523 | .9928423 | .2429753 | .8985152 | .4254002 |
| | | | | | |
| #1 | 1948.767 | 23918.77 | 1273.099 | 1669.045 | 1925.620 |
| #2 | 1955.574 | 23750.96 | 1275.811 | 1649.840 | 1938.563 |
| #3 | 1952.245 | 24220.48 | 1279.284 | 1679.334 | 1923.350 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-22 Acquired: 12/18/2024 1:14:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKX0 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1321608 | -.016831 | .2772180 | .0346659 | .0178656 | 47.20198 |
| Stddev | .0025816 | .004883 | .0021604 | .0036113 | .0018499 | .13825 |
| %RSD | 1.953339 | 29.01372 | .7792999 | 10.41752 | 10.35481 | .2928895 |
| #1 | .1291827 | -.021562 | .2747438 | .0376062 | .0174531 | 47.36129 |
| #2 | .1335359 | -.011809 | .2781797 | .0357566 | .0162567 | 47.13122 |
| #3 | .1337636 | -.017122 | .2787306 | .0306350 | .0198870 | 47.11343 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6186407 | .0074063 | .0046862 | F 1349.333 | .0727929 | .1423443 |
| Stddev | .0034564 | .0000307 | .0002191 | 4.985 | .0001586 | .0008117 |
| %RSD | .5587085 | .4144514 | 4.674939 | .3694590 | .2178953 | .5702590 |
| #1 | .6206976 | .0073892 | .0046360 | 1355.008 | .0726745 | .1425704 |
| #2 | .6205743 | .0074417 | .0044967 | 1347.333 | .0729731 | .1414435 |
| #3 | .6146502 | .0073880 | .0049261 | 1345.658 | .0727310 | .1430190 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4310810 | 179.6038 | 8.062524 | 156.6474 | .1816451 | .0043609 |
| Stddev | .0058583 | .8423 | .033686 | .2762 | .0015499 | .0011337 |
| %RSD | 1.358975 | .4689946 | .4178108 | .1763252 | .8532769 | 25.99729 |
| #1 | .4243378 | 180.5324 | 8.101353 | 156.9663 | .1803274 | .0039366 |
| #2 | .4339869 | 179.3901 | 8.045098 | 156.4817 | .1812551 | .0056456 |
| #3 | .4349183 | 178.8888 | 8.041120 | 156.4944 | .1833528 | .0035006 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5882725 | .1256664 | .5061243 | 12.11850 | F 17.13107 | .0219158 |
| Stddev | .6352469 | .0056697 | .0332546 | .16018 | .08481 | .0047944 |
| %RSD | 107.9851 | 4.511668 | 6.570441 | 1.321771 | .4950536 | 21.87668 |
| #1 | 1.001282 | .1197660 | .4810061 | 12.27573 | 17.12308 | .0234077 |
| #2 | .906749 | .1310730 | .4935304 | 12.12424 | 17.05054 | .0257869 |
| #3 | -.143214 | .1261601 | .5438364 | 11.95553 | 17.21959 | .0165528 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5055-22 Acquired: 12/18/2024 1:14:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHKX0 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0033569 | 2.207910 | 6.396171 | .0293944 | .3517909 | 1.139229 |
| Stddev | .0007937 | .013352 | .059519 | .0012817 | .0042942 | .005550 |
| %RSD | 23.64261 | .6047280 | .9305379 | 4.360506 | 1.220670 | .4871765 |
| #1 | .0041786 | 2.205742 | 6.460307 | .0289581 | .3536386 | 1.145635 |
| #2 | .0025947 | 2.195775 | 6.385488 | .0308374 | .3468821 | 1.136188 |
| #3 | .0032974 | 2.222213 | 6.342717 | .0283878 | .3548520 | 1.135864 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1833288 |
| Stddev | .0071994 |
| %RSD | 3.927017 |
| #1 | .1907469 |
| #2 | .1828695 |
| #3 | .1763702 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2144.752 | 26344.86 | 1406.036 | 1829.346 | 1997.505 |
| Stddev | 8.619 | 106.87 | 8.154 | 10.835 | 9.390 |
| %RSD | .4018801 | .4056529 | .5799598 | .5923139 | .4700879 |
| #1 | 2149.597 | 26407.65 | 1399.768 | 1836.663 | 2000.947 |
| #2 | 2149.858 | 26221.47 | 1403.086 | 1816.898 | 2004.688 |
| #3 | 2134.800 | 26405.47 | 1415.255 | 1834.476 | 1986.879 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-01 Acquired: 12/18/2024 1:18:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL94 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0783470 | -.047166 | .7726197 | .0602596 | .0237947 | 61.01360 | .9286947 |
| Stddev | .0044442 | .001092 | .0032215 | .0028448 | .0020911 | .26167 | .0046610 |
| %RSD | 5.672497 | 2.315976 | .4169604 | 4.720950 | 8.788235 | .4288790 | .5018864 |
| #1 | .0773026 | -.046016 | .7690730 | .0622098 | .0233354 | 61.27847 | .9334098 |
| #2 | .0745180 | -.047292 | .7734216 | .0615737 | .0219714 | 60.75525 | .9240898 |
| #3 | .0832204 | -.048190 | .7753646 | .0569953 | .0260773 | 61.00708 | .9285844 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0073930 | .0034487 | 27.46441 | .1017139 | .0822071 | .1828469 | 142.3998 |
| Stddev | .0000676 | .0000438 | .14279 | .0009232 | .0004146 | .0055633 | .8095 |
| %RSD | .9140959 | 1.268846 | .5199028 | .9076497 | .5043496 | 3.042580 | .5685048 |
| #1 | .0074263 | .0033986 | 27.62113 | .1011716 | .0818037 | .1876972 | 143.2985 |
| #2 | .0074375 | .0034796 | 27.34170 | .1011902 | .0821856 | .1840695 | 141.7276 |
| #3 | .0073152 | .0034677 | 27.43039 | .1027799 | .0826321 | .1767740 | 142.1732 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.119541 | 18.96551 | .1147682 | .0037474 | -.587394 | .1505081 | .4724640 |
| Stddev | .026522 | .04367 | .0005812 | .0001620 | .571433 | .0009525 | .0207041 |
| %RSD | .5180618 | .2302673 | .5064356 | 4.323332 | 97.28273 | .6328670 | 4.382143 |
| #1 | 5.145289 | 18.93899 | .1146497 | .0036285 | .055942 | .1497996 | .4615085 |
| #2 | 5.092306 | 19.01592 | .1153995 | .0036817 | -.782079 | .1515909 | .4595395 |
| #3 | 5.121027 | 18.94163 | .1142553 | .0039319 | -1.03604 | .1501338 | .4963439 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.472606 | 6.054083 | -.034913 | .0027425 | 1.229088 | 8.647692 | .0237744 |
| Stddev | .124981 | .016067 | .002028 | .0010329 | .009211 | .068861 | .0025056 |
| %RSD | 2.794373 | .2653899 | 5.808024 | 37.66410 | .7493857 | .7962977 | 10.53916 |
| #1 | 4.615670 | 6.047558 | -.036822 | .0024713 | 1.225643 | 8.725271 | .0266446 |
| #2 | 4.384646 | 6.042305 | -.032784 | .0038839 | 1.222096 | 8.593800 | .0226551 |
| #3 | 4.417501 | 6.072386 | -.035133 | .0018721 | 1.239524 | 8.624006 | .0220236 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-01 Acquired: 12/18/2024 1:18:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL94 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .5872566 | -.057607 | .1074015 |
| Stddev | .0030935 | .000865 | .0033299 |
| %RSD | .5267696 | 1.501272 | 3.100376 |
| | | | |
| #1 | .5889589 | -.058605 | .1073178 |
| #2 | .5891251 | -.057119 | .1107724 |
| #3 | .5836858 | -.057096 | .1041143 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2282.973 | 28060.86 | 1384.077 | 1958.338 | 2451.667 |
| Stddev | 3.528 | 71.55 | 11.124 | 6.495 | .928 |
| %RSD | .1545357 | .2549852 | .8037211 | .3316540 | .0378652 |
| | | | | | |
| #1 | 2279.211 | 28141.76 | 1374.607 | 1961.648 | 2451.992 |
| #2 | 2283.501 | 28034.97 | 1396.328 | 1962.510 | 2452.389 |
| #3 | 2286.207 | 28005.86 | 1381.296 | 1950.854 | 2450.619 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-02 Acquired: 12/18/2024 1:21:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL95 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0560810 | -.005994 | 1.062108 | .0248389 | .0139373 | 46.70848 | .6999377 |
| Stddev | .0018885 | .005058 | .007249 | .0086389 | .0014457 | .15819 | .0024227 |
| %RSD | 3.367367 | 84.38679 | .6825160 | 34.77986 | 10.37276 | .3386763 | .3461261 |
| #1 | .0557265 | -.000676 | 1.060090 | .0149749 | .0156066 | 46.88587 | .7026957 |
| #2 | .0581216 | -.006562 | 1.056083 | .0310581 | .0131108 | 46.58203 | .6989641 |
| #3 | .0543949 | -.010744 | 1.070153 | .0284838 | .0130946 | 46.65755 | .6981534 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0056536 | .0032657 | 324.7898 | .1330968 | .1007912 | .1690595 | 124.7027 |
| Stddev | .0000621 | .0001387 | .5348 | .0010537 | .0002924 | .0100807 | .2053 |
| %RSD | 1.098318 | 4.247505 | .1646550 | .7916675 | .2901473 | 5.962802 | .1646360 |
| #1 | .0055941 | .0034191 | 325.3647 | .1327547 | .1011286 | .1801638 | 124.9324 |
| #2 | .0057180 | .0032291 | 324.6975 | .1342791 | .1006337 | .1604840 | 124.6384 |
| #3 | .0056488 | .0031490 | 324.3072 | .1322567 | .1006112 | .1665306 | 124.5372 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.956261 | 66.13730 | .1228933 | .0033143 | -.156789 | .1190022 | .5470241 |
| Stddev | .018122 | .14523 | .0011618 | .0004538 | .602585 | .0049951 | .0034940 |
| %RSD | .3042468 | .2195891 | .9453848 | 13.69363 | 384.3275 | 4.197522 | .6387347 |
| #1 | 5.973258 | 66.30219 | .1236637 | .0035569 | -.814193 | .1134006 | .5442921 |
| #2 | 5.937193 | 66.08133 | .1215570 | .0027907 | .369330 | .1206122 | .5509611 |
| #3 | 5.958331 | 66.02838 | .1234593 | .0035952 | -.025504 | .1229937 | .5458190 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.373118 | 7.331318 | -.008756 | .0071918 | 1.196274 | 8.405339 | .0218193 |
| Stddev | .217957 | .030146 | .000547 | .0003124 | .003324 | .035086 | .0011661 |
| %RSD | 4.984027 | .4111911 | 6.250429 | 4.343513 | .2778345 | .4174273 | 5.344435 |
| #1 | 4.601798 | 7.324492 | -.008220 | .0075454 | 1.200069 | 8.445556 | .0218993 |
| #2 | 4.349798 | 7.305170 | -.008736 | .0070764 | 1.193882 | 8.380989 | .0206153 |
| #3 | 4.167758 | 7.364291 | -.009314 | .0069534 | 1.194872 | 8.389473 | .0229434 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-02 Acquired: 12/18/2024 1:21:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL95 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .5071776 | .1939299 | .1200406 |
| Stddev | .0044810 | .0008439 | .0060055 |
| %RSD | .8835242 | .4351668 | 5.002909 |
| | | | |
| #1 | .5121836 | .1948190 | .1266917 |
| #2 | .5058080 | .1938307 | .1184147 |
| #3 | .5035413 | .1931400 | .1150154 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2137.414 | 26371.48 | 1338.520 | 1820.677 | 2264.771 |
| Stddev | 6.859 | 17.66 | 4.545 | 5.545 | 7.450 |
| %RSD | .3208974 | .0669596 | .3395595 | .3045475 | .3289667 |
| | | | | | |
| #1 | 2130.749 | 26356.40 | 1333.397 | 1820.088 | 2258.384 |
| #2 | 2144.451 | 26367.13 | 1342.066 | 1815.450 | 2272.956 |
| #3 | 2137.042 | 26390.90 | 1340.097 | 1826.493 | 2262.974 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-03 Acquired: 12/18/2024 1:25:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL96 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0542022 | -.005920 | .2242788 | .0306279 | .0150065 | 44.56773 | .4076097 |
| Stddev | .0024567 | .004081 | .0045982 | .0012668 | .0016406 | .14981 | .0020712 |
| %RSD | 4.532443 | 68.94127 | 2.050202 | 4.136081 | 10.93260 | .3361311 | .5081352 |
| #1 | .0518110 | -.001662 | .2191805 | .0305996 | .0153446 | 44.45262 | .4053038 |
| #2 | .0540761 | -.009798 | .2281120 | .0293756 | .0164517 | 44.51346 | .4082134 |
| #3 | .0567196 | -.006300 | .2255439 | .0319087 | .0132232 | 44.73711 | .4093121 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0053646 | .0021863 | 295.9816 | .0828335 | .1003356 | .2214637 | 135.6186 |
| Stddev | .0000948 | .0001221 | 1.4599 | .0004131 | .0003938 | .0049198 | .7745 |
| %RSD | 1.767109 | 5.587193 | .4932286 | .4987696 | .3925066 | 2.221494 | .5711078 |
| #1 | .0054454 | .0022541 | 294.7475 | .0824687 | .1002332 | .2180719 | 134.7338 |
| #2 | .0053880 | .0022595 | 295.6042 | .0827497 | .1000031 | .2192129 | 135.9482 |
| #3 | .0052602 | .0020453 | 297.5931 | .0832822 | .1007705 | .2271063 | 136.1739 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 7.202639 | 95.46466 | .1292448 | .0033040 | .1275848 | .1253971 | .3133281 |
| Stddev | .024357 | .62468 | .0015585 | .0011196 | .1918869 | .0096504 | .0215134 |
| %RSD | .3381613 | .6543559 | 1.205881 | 33.88715 | 150.3995 | 7.695904 | 6.866100 |
| #1 | 7.185165 | 94.96369 | .1303840 | .0029363 | .3103796 | .1189832 | .3354388 |
| #2 | 7.192292 | 95.26570 | .1274687 | .0024145 | .1446314 | .1364956 | .3120793 |
| #3 | 7.230461 | 96.16458 | .1298817 | .0045613 | -.072257 | .1207124 | .2924663 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.393660 | 5.416305 | -.012465 | .0025726 | .6042339 | 7.630244 | .0170728 |
| Stddev | .219518 | .028150 | .000930 | .0005745 | .0083976 | .024805 | .0023198 |
| %RSD | 4.996243 | .5197274 | 7.458809 | 22.33211 | 1.389790 | .3250942 | 13.58790 |
| #1 | 4.141092 | 5.401937 | -.012842 | .0032195 | .6025687 | 7.612372 | .0144286 |
| #2 | 4.538523 | 5.398238 | -.011406 | .0023761 | .5967936 | 7.658564 | .0180235 |
| #3 | 4.501366 | 5.448739 | -.013147 | .0021221 | .6133393 | 7.619795 | .0187662 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-03 Acquired: 12/18/2024 1:25:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL96 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .6712241 | .1272151 | .1152964 |
| Stddev | .0059268 | .0001084 | .0043410 |
| %RSD | .8829878 | .0852263 | 3.765085 |
| | | | |
| #1 | .6646038 | .1272091 | .1112695 |
| #2 | .6730322 | .1271099 | .1198949 |
| #3 | .6760363 | .1273265 | .1147248 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2163.921 | 26757.02 | 1372.227 | 1851.024 | 2282.661 |
| Stddev | 4.768 | 183.13 | 3.304 | 14.990 | 5.744 |
| %RSD | .2203517 | .6844160 | .2407662 | .8098159 | .2516405 |
| | | | | | |
| #1 | 2160.969 | 26964.44 | 1375.050 | 1868.269 | 2282.107 |
| #2 | 2169.422 | 26688.94 | 1368.593 | 1841.117 | 2288.662 |
| #3 | 2161.372 | 26617.69 | 1373.038 | 1843.686 | 2277.214 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-04 Acquired: 12/18/2024 1:29:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL97 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0358396 | .0049542 | .0966886 | .0093943 | .0054370 | 44.11389 |
| Stddev | .0015641 | .0051905 | .0033071 | .0053282 | .0018915 | .11056 |
| %RSD | 4.364199 | 104.7699 | 3.420376 | 56.71775 | 34.78868 | .2506129 |
| | | | | | | |
| #1 | .0342502 | .0024289 | .0994599 | .0121356 | .0033172 | 44.12092 |
| #2 | .0373771 | .0109242 | .0975781 | .0032535 | .0060415 | 44.22076 |
| #3 | .0358914 | .0015095 | .0930277 | .0127938 | .0069523 | 43.99998 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4383128 | .0044768 | .0028063 | F 1054.674 | .0737002 | .1073599 |
| Stddev | .0007441 | .0000232 | .0000350 | 2.148 | .0008296 | .0005019 |
| %RSD | .1697540 | .5175639 | 1.248392 | .2036355 | 1.125654 | .4674858 |
| | | | | | | |
| #1 | .4382684 | .0045010 | .0028416 | 1055.038 | .0741205 | .1067815 |
| #2 | .4390781 | .0044745 | .0028059 | 1056.616 | .0742355 | .1076800 |
| #3 | .4375920 | .0044548 | .0027715 | 1052.368 | .0727446 | .1076183 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2115849 | 119.2596 | 8.143216 | 194.9080 | .1295120 | .0021680 |
| Stddev | .0088820 | .3595 | .016701 | .1255 | .0020190 | .0007904 |
| %RSD | 4.197828 | .3014486 | .2050902 | .0643795 | 1.558943 | 36.45911 |
| | | | | | | |
| #1 | .2020910 | 119.1845 | 8.162499 | 194.9347 | .1287314 | .0016495 |
| #2 | .2196918 | 118.9436 | 8.133702 | 194.7713 | .1279999 | .0030777 |
| #3 | .2129720 | 119.6508 | 8.133446 | 195.0180 | .1318048 | .0017767 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4990721 | .1121563 | .3087708 | 6.240700 | 6.647182 | -.003473 |
| Stddev | .3104272 | .0130831 | .0175668 | .112560 | .053791 | .007127 |
| %RSD | 62.20087 | 11.66501 | 5.689256 | 1.803641 | .8092276 | 205.2013 |
| | | | | | | |
| #1 | .4000859 | .1139583 | .2896004 | 6.328851 | 6.597548 | -.009954 |
| #2 | .2502092 | .0982657 | .3240974 | 6.279339 | 6.639661 | .004159 |
| #3 | .8469213 | .1242450 | .3126147 | 6.113910 | 6.704338 | -.004624 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-04 Acquired: 12/18/2024 1:29:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHL97 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0005753 | .7130621 | 7.852805 | .0195134 | 1.109760 | .4662324 |
| Stddev | .0003816 | .0046677 | .022409 | .0018158 | .001962 | .0016695 |
| %RSD | 66.33550 | .6545942 | .2853645 | 9.305149 | .1768233 | .3580923 |
| #1 | .0007627 | .7076877 | 7.875032 | .0216024 | 1.111711 | .4675149 |
| #2 | .0008270 | .7161009 | 7.853166 | .0183144 | 1.109784 | .4643447 |
| #3 | .0001362 | .7153979 | 7.830218 | .0186233 | 1.107786 | .4668377 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1505355 |
| Stddev | .0024270 |
| %RSD | 1.612237 |
| #1 | .1493886 |
| #2 | .1488945 |
| #3 | .1533234 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2014.838 | 24782.58 | 1320.501 | 1714.759 | 2061.532 |
| Stddev | 9.972 | 61.81 | 3.797 | 10.751 | 12.353 |
| %RSD | .4949188 | .2494107 | .2875559 | .6269714 | .5992109 |
| #1 | 2025.518 | 24726.27 | 1316.768 | 1703.343 | 2073.748 |
| #2 | 2013.226 | 24848.71 | 1324.359 | 1724.691 | 2061.800 |
| #3 | 2005.771 | 24772.74 | 1320.375 | 1716.244 | 2049.047 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-05 Acquired: 12/18/2024 1:33:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLA5 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1160007 | -.023189 | 1.572707 | .0499106 | .0201733 | 56.01064 |
| Stddev | .0014264 | .003315 | .005712 | .0013665 | .0032763 | .21710 |
| %RSD | 1.229671 | 14.29677 | .3632091 | 2.737869 | 16.24104 | .3876093 |
| #1 | .1143539 | -.026972 | 1.567457 | .0514884 | .0212248 | 55.75997 |
| #2 | .1168489 | -.021805 | 1.571873 | .0491332 | .0165003 | 56.13308 |
| #3 | .1167994 | -.020789 | 1.578790 | .0491102 | .0227948 | 56.13886 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.233726 | .0068109 | .0092691 | 290.9654 | .1788696 | .1188611 |
| Stddev | .003037 | .0000803 | .0000327 | .5593 | .0015056 | .0003836 |
| %RSD | .2461293 | 1.179470 | .3531697 | .1922215 | .8417290 | .3227092 |
| #1 | 1.230819 | .0067275 | .0092511 | 290.3212 | .1805136 | .1187067 |
| #2 | 1.236877 | .0068175 | .0092494 | 291.2485 | .1775580 | .1192978 |
| #3 | 1.233483 | .0068878 | .0093069 | 291.3266 | .1785371 | .1185788 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3859872 | 166.3672 | 9.194265 | 55.69835 | .1904946 | .0069999 |
| Stddev | .0113083 | .4298 | .007283 | .33183 | .0017612 | .0003095 |
| %RSD | 2.929694 | .2583390 | .0792124 | .5957681 | .9245436 | 4.421356 |
| #1 | .3760327 | 165.8793 | 9.195553 | 55.36290 | .1906444 | .0068130 |
| #2 | .3982828 | 166.5325 | 9.186423 | 55.70569 | .1886633 | .0068296 |
| #3 | .3836463 | 166.6897 | 9.200817 | 56.02645 | .1921761 | .0073572 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.039642 | .1587166 | 1.647830 | 6.781000 | F 11.76979 | -.010149 |
| Stddev | .254320 | .0078350 | .020820 | .145796 | .05380 | .003688 |
| %RSD | 641.5424 | 4.936491 | 1.263508 | 2.150061 | .4570763 | 36.34165 |
| #1 | .064164 | .1496848 | 1.671851 | 6.807029 | 11.75206 | -.011620 |
| #2 | .146356 | .1636883 | 1.636661 | 6.912029 | 11.72710 | -.005953 |
| #3 | -.329446 | .1627768 | 1.634977 | 6.623944 | 11.83022 | -.012876 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-05 Acquired: 12/18/2024 1:33:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLA5 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0048299 | 2.727404 | 8.543332 | .0796616 | .7228164 | .4148507 |
| Stddev | .0007183 | .010213 | .028499 | .0005233 | .0029989 | .0011241 |
| %RSD | 14.87160 | .3744723 | .3335804 | .6569210 | .4148983 | .2709550 |
| | | | | | | |
| #1 | .0056196 | 2.733393 | 8.542579 | .0792950 | .7193579 | .4144225 |
| #2 | .0046545 | 2.715611 | 8.572200 | .0794288 | .7246961 | .4161260 |
| #3 | .0042155 | 2.733207 | 8.515217 | .0802609 | .7243953 | .4140037 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1284055 |
| Stddev | .0103094 |
| %RSD | 8.028805 |
| | |
| #1 | .1171360 |
| #2 | .1373618 |
| #3 | .1307187 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2148.762 | 26318.33 | 1353.432 | 1837.755 | 2297.560 |
| Stddev | 4.541 | 147.86 | 3.344 | 9.836 | 5.479 |
| %RSD | .2113133 | .5618173 | .2471013 | .5352286 | .2384838 |
| | | | | | |
| #1 | 2151.413 | 26192.86 | 1357.285 | 1827.790 | 2297.465 |
| #2 | 2151.354 | 26481.35 | 1351.282 | 1847.457 | 2303.086 |
| #3 | 2143.519 | 26280.81 | 1351.728 | 1838.019 | 2292.129 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-06 Acquired: 12/18/2024 1:37:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLA6 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1049582 | -.010160 | 1.445717 | .0356747 | .0183278 | 49.58965 |
| Stddev | .0034963 | .004153 | .005966 | .0035813 | .0036628 | .33338 |
| %RSD | 3.331111 | 40.87550 | .4126882 | 10.03886 | 19.98475 | .6722782 |
| #1 | .1011068 | -.013950 | 1.440811 | .0362122 | .0152210 | 49.43163 |
| #2 | .1079323 | -.005720 | 1.443982 | .0389569 | .0173958 | 49.97266 |
| #3 | .1058356 | -.010811 | 1.452359 | .0318550 | .0223664 | 49.36466 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.212992 | .0060057 | .0063472 | 266.8766 | .1534242 | .1043569 |
| Stddev | .008174 | .0001060 | .0000855 | 1.6029 | .0012672 | .0003437 |
| %RSD | .6738571 | 1.764956 | 1.347491 | .6006185 | .8259420 | .3293849 |
| #1 | 1.209470 | .0059871 | .0064399 | 265.5799 | .1521649 | .1047206 |
| #2 | 1.222336 | .0061197 | .0062713 | 268.6687 | .1546992 | .1040374 |
| #3 | 1.207170 | .0059102 | .0063306 | 266.3810 | .1534085 | .1043129 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3364938 | 131.3478 | 7.122253 | 50.82672 | .1464014 | .0060911 |
| Stddev | .0087185 | .8145 | .053225 | .42890 | .0004637 | .0006988 |
| %RSD | 2.590971 | .6201401 | .7473070 | .8438553 | .3167237 | 11.47205 |
| #1 | .3286769 | 131.0263 | 7.078754 | 50.70080 | .1458862 | .0060092 |
| #2 | .3458962 | 132.2741 | 7.181603 | 51.30449 | .1467851 | .0054369 |
| #3 | .3349084 | 130.7431 | 7.106404 | 50.47488 | .1465330 | .0068273 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.889785 | .1312964 | 1.310010 | 6.877234 | F 11.15572 | .0013654 |
| Stddev | .360133 | .0116836 | .011954 | .277409 | .02443 | .0038577 |
| %RSD | 40.47418 | 8.898618 | .9125258 | 4.033727 | .2189578 | 282.5268 |
| #1 | -1.23591 | .1245307 | 1.305943 | 6.643380 | 11.15405 | .0014246 |
| #2 | -.51711 | .1447874 | 1.300619 | 6.804583 | 11.13218 | -.002522 |
| #3 | -.91633 | .1245711 | 1.323466 | 7.183740 | 11.18094 | .005193 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-06 Acquired: 12/18/2024 1:37:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLA6 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0039923 | 2.626545 | 7.487317 | .0826536 | .6699404 | .2064346 |
| Stddev | .0009467 | .012991 | .037435 | .0013479 | .0056647 | .0013471 |
| %RSD | 23.71446 | .4946006 | .4999754 | 1.630835 | .8455571 | .6525734 |
| #1 | .0033556 | 2.613652 | 7.496753 | .0841744 | .6686522 | .2054309 |
| #2 | .0050802 | 2.626352 | 7.519131 | .0816063 | .6761383 | .2079657 |
| #3 | .0035410 | 2.639632 | 7.446067 | .0821802 | .6650307 | .2059073 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1095167 |
| Stddev | .0032603 |
| %RSD | 2.976938 |
| #1 | .1132172 |
| #2 | .1070673 |
| #3 | .1082656 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2119.026 | 26101.91 | 1338.651 | 1819.385 | 2308.379 |
| Stddev | 7.202 | 35.65 | 8.678 | 6.074 | 8.773 |
| %RSD | .3398696 | .1365818 | .6482927 | .3338743 | .3800442 |
| #1 | 2115.949 | 26102.53 | 1333.947 | 1815.484 | 2306.598 |
| #2 | 2127.255 | 26065.96 | 1333.341 | 1826.384 | 2317.905 |
| #3 | 2113.874 | 26137.25 | 1348.666 | 1816.287 | 2300.633 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-07 Acquired: 12/18/2024 1:41:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLA7 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0583303 | .0129200 | .1725032 | .0179480 | .0097376 | 44.65505 | .5245076 |
| Stddev | .0053113 | .0023554 | .0003289 | .0029403 | .0013589 | .06452 | .0009534 |
| %RSD | 9.105541 | 18.23084 | .1906420 | 16.38247 | 13.95481 | .1444853 | .1817701 |
| #1 | .0604012 | .0152281 | .1728636 | .0212937 | .0098505 | 44.68774 | .5242060 |
| #2 | .0622942 | .0130118 | .1724265 | .0157749 | .0110365 | 44.69667 | .5237414 |
| #3 | .0522955 | .0105200 | .1722194 | .0167754 | .0083258 | 44.58073 | .5255753 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0050104 | .0029331 | 704.6310 | .0756951 | .1147114 | .1945371 | 120.0948 |
| Stddev | .0002463 | .0001416 | 1.5830 | .0010808 | .0007974 | .0040065 | .4589 |
| %RSD | 4.914980 | 4.827713 | .2246554 | 1.427841 | .6951576 | 2.059525 | .3821477 |
| #1 | .0047415 | .0030965 | 704.3159 | .0746914 | .1145154 | .1965221 | 119.8348 |
| #2 | .0050646 | .0028468 | 706.3479 | .0755546 | .1140302 | .1971636 | 119.8249 |
| #3 | .0052250 | .0028559 | 703.2293 | .0768392 | .1155886 | .1899256 | 120.6247 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 9.851478 | 103.1500 | .1236733 | .0024082 | .4854669 | .0948646 | .4257975 |
| Stddev | .017444 | .1722 | .0006871 | .0011516 | .1722308 | .0081156 | .0063558 |
| %RSD | .1770714 | .1669796 | .5555446 | 47.81792 | 35.47735 | 8.554923 | 1.492670 |
| #1 | 9.835414 | 102.9593 | .1233407 | .0016672 | .5302181 | .0944555 | .4227737 |
| #2 | 9.870034 | 103.1963 | .1232158 | .0018225 | .2952776 | .1031769 | .4215182 |
| #3 | 9.848985 | 103.2943 | .1244633 | .0037349 | .6309051 | .0869612 | .4331006 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.385308 | 6.303870 | -.014644 | .0005434 | 1.379482 | 7.283324 | .0193765 |
| Stddev | .078084 | .024803 | .004002 | .0007307 | .013306 | .036595 | .0007375 |
| %RSD | 2.306551 | .3934630 | 27.33192 | 134.4763 | .9645827 | .5024492 | 3.806156 |
| #1 | 3.470628 | 6.308881 | -.010068 | .0011248 | 1.365115 | 7.264878 | .0193632 |
| #2 | 3.317400 | 6.276943 | -.016367 | -.000277 | 1.381947 | 7.259624 | .0186457 |
| #3 | 3.367895 | 6.325785 | -.017496 | .000782 | 1.391383 | 7.325472 | .0201205 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-07 Acquired: 12/18/2024 1:41:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLA7 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .4260474 | .4235391 | .1262944 |
| Stddev | .0041058 | .0010630 | .0006292 |
| %RSD | .9636930 | .2509846 | .4982309 |
| | | | |
| #1 | .4298292 | .4225134 | .1263923 |
| #2 | .4266326 | .4234679 | .1256219 |
| #3 | .4216804 | .4246359 | .1268689 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2144.880 | 26313.09 | 1380.078 | 1830.158 | 2172.072 |
| Stddev | 3.285 | 45.83 | 9.957 | 6.980 | 3.248 |
| %RSD | .1531348 | .1741670 | .7214757 | .3814116 | .1495381 |
| | | | | | |
| #1 | 2141.289 | 26361.78 | 1388.361 | 1834.385 | 2169.312 |
| #2 | 2147.732 | 26270.80 | 1382.842 | 1822.101 | 2175.651 |
| #3 | 2145.619 | 26306.68 | 1369.031 | 1833.988 | 2171.252 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-08 Acquired: 12/18/2024 1:44:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLA8 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1265404 | -.014686 | 2.172218 | .0453414 | .0182798 | 58.38693 |
| Stddev | .0061503 | .003293 | .005139 | .0071246 | .0018238 | .44851 |
| %RSD | 4.860367 | 22.42266 | .2365572 | 15.71336 | 9.977412 | .7681715 |
| #1 | .1194433 | -.010944 | 2.171174 | .0445845 | .0169926 | 58.41594 |
| #2 | .1298649 | -.015976 | 2.167682 | .0528142 | .0174798 | 57.92462 |
| #3 | .1303130 | -.017139 | 2.177798 | .0386254 | .0203669 | 58.82024 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.934993 | .0064680 | .0068216 | 160.6287 | .1385709 | .1081382 |
| Stddev | .012662 | .0002412 | .0002018 | 1.1544 | .0059459 | .0009034 |
| %RSD | .6543634 | 3.728550 | 2.958192 | .7186564 | 4.290891 | .8353663 |
| #1 | 1.934267 | .0067451 | .0070546 | 160.6451 | .1395368 | .1090010 |
| #2 | 1.922710 | .0063053 | .0067018 | 159.4662 | .1322012 | .1071991 |
| #3 | 1.948002 | .0063537 | .0067084 | 161.7747 | .1439748 | .1082146 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3366795 | 134.3409 | 9.281621 | 32.08564 | .1487837 | .0067768 |
| Stddev | .0028360 | .8679 | .078743 | .30887 | .0013488 | .0001800 |
| %RSD | .8423490 | .6460372 | .8483713 | .9626300 | .9065676 | 2.656712 |
| #1 | .3396964 | 134.6306 | 9.303923 | 31.99223 | .1495617 | .0068751 |
| #2 | .3340680 | 133.3652 | 9.194133 | 31.83426 | .1472263 | .0065690 |
| #3 | .3362742 | 135.0269 | 9.346807 | 32.43043 | .1495633 | .0068862 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1001302 | .1467976 | 1.382566 | 8.318913 | F 16.04972 | .0127838 |
| Stddev | .4122312 | .0119565 | .050270 | .320125 | .05079 | .0015708 |
| %RSD | 411.6952 | 8.144917 | 3.636023 | 3.848161 | .3164719 | 12.28745 |
| #1 | .5544627 | .1360714 | 1.390628 | 8.364584 | 16.03791 | .0128546 |
| #2 | -.250004 | .1446328 | 1.328752 | 7.978405 | 16.00587 | .0111788 |
| #3 | -.004069 | .1596887 | 1.428318 | 8.613749 | 16.10537 | .0143180 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-08 Acquired: 12/18/2024 1:44:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLA8 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0047222 | 2.520151 | 9.007805 | .1198141 | .7127428 | .2748551 |
| Stddev | .0002029 | .003862 | .138719 | .0008323 | .0054292 | .0023946 |
| %RSD | 4.297285 | .1532571 | 1.539986 | .6946752 | .7617299 | .8712384 |
| | | | | | | |
| #1 | .0044901 | 2.520511 | 9.005200 | .1188553 | .7131976 | .2752654 |
| #2 | .0048659 | 2.516121 | 8.870407 | .1203505 | .7071005 | .2722819 |
| #3 | .0048107 | 2.523821 | 9.147808 | .1202366 | .7179302 | .2770182 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1220508 |
| Stddev | .0014511 |
| %RSD | 1.188895 |
| | |
| #1 | .1237176 |
| #2 | .1213662 |
| #3 | .1210688 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2172.618 | 26782.06 | 1349.266 | 1873.246 | 2368.560 |
| Stddev | 3.504 | 986.11 | 15.085 | 63.732 | .965 |
| %RSD | .1612863 | 3.681966 | 1.118022 | 3.402199 | .0407310 |
| | | | | | |
| #1 | 2174.007 | 26697.82 | 1351.932 | 1872.320 | 2367.455 |
| #2 | 2168.633 | 27807.58 | 1362.840 | 1937.435 | 2368.985 |
| #3 | 2175.215 | 25840.77 | 1333.026 | 1809.982 | 2369.239 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-09 Acquired: 12/18/2024 1:48:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLA9 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1006676 | -.038521 | .7604587 | .0614096 | .0249267 | 79.73743 |
| Stddev | .0016737 | .006671 | .0035332 | .0016267 | .0002461 | .18837 |
| %RSD | 1.662605 | 17.31761 | .4646100 | 2.648913 | .9875109 | .2362433 |
| #1 | .1025232 | -.037150 | .7570448 | .0602838 | .0251411 | 79.59309 |
| #2 | .0992720 | -.045770 | .7602311 | .0632747 | .0246579 | 79.66867 |
| #3 | .1002077 | -.032641 | .7641002 | .0606705 | .0249810 | 79.95052 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.337117 | .0076851 | .0058878 | 100.4342 | .1377201 | .1105155 |
| Stddev | .003478 | .0000615 | .0000737 | .4450 | .0011012 | .0011810 |
| %RSD | .2600792 | .7999056 | 1.251218 | .4430482 | .7996157 | 1.068633 |
| #1 | 1.333160 | .0077561 | .0058463 | 99.9204 | .1387288 | .1091551 |
| #2 | 1.338502 | .0076495 | .0059729 | 100.6842 | .1365452 | .1111136 |
| #3 | 1.339688 | .0076498 | .0058443 | 100.6979 | .1378862 | .1112778 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1782373 | 165.8440 | 7.790336 | 34.08183 | .1775713 | .0068626 |
| Stddev | .0096993 | .4561 | .005873 | .12240 | .0001277 | .0004712 |
| %RSD | 5.441800 | .2750227 | .0753875 | .3591319 | .0719408 | 6.866244 |
| #1 | .1670421 | 165.3878 | 7.787901 | 34.22190 | .1776162 | .0073497 |
| #2 | .1835568 | 165.8440 | 7.786072 | 33.99546 | .1774272 | .0068292 |
| #3 | .1841130 | 166.3000 | 7.797034 | 34.02812 | .1776706 | .0064090 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.602160 | .1551535 | 1.157468 | 7.161610 | F 14.46349 | -.025083 |
| Stddev | .257247 | .0128106 | .017314 | .267962 | .05365 | .001814 |
| %RSD | 42.72073 | 8.256719 | 1.495863 | 3.741644 | .3709182 | 7.231457 |
| #1 | -.870037 | .1469368 | 1.156100 | 7.407309 | 14.43146 | -.025913 |
| #2 | -.357058 | .1699144 | 1.175425 | 7.201633 | 14.43359 | -.023002 |
| #3 | -.579385 | .1486094 | 1.140878 | 6.875888 | 14.52543 | -.026333 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-09 Acquired: 12/18/2024 1:48:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLA9 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0031104 | 2.051130 | 9.424562 | .0484889 | .6574144 | .0670913 |
| Stddev | .0003648 | .006246 | .029056 | .0014810 | .0036964 | .0004344 |
| %RSD | 11.72793 | .3045109 | .3082973 | 3.054364 | .5622571 | .6475064 |
| #1 | .0028188 | 2.051367 | 9.396013 | .0501861 | .6532052 | .0675895 |
| #2 | .0029931 | 2.044769 | 9.454099 | .0478222 | .6601313 | .0668923 |
| #3 | .0035194 | 2.057254 | 9.423575 | .0474585 | .6589067 | .0667920 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1443926 |
| Stddev | .0048495 |
| %RSD | 3.358535 |
| #1 | .1499688 |
| #2 | .1420489 |
| #3 | .1411602 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2325.184 | 28520.01 | 1436.658 | 1990.572 | 2410.315 |
| Stddev | 8.992 | 109.90 | 4.853 | 10.834 | 11.197 |
| %RSD | .3867373 | .3853522 | .3377646 | .5442772 | .4645623 |
| #1 | 2335.357 | 28445.04 | 1435.736 | 1978.612 | 2422.345 |
| #2 | 2321.901 | 28646.17 | 1441.905 | 1999.730 | 2408.404 |
| #3 | 2318.295 | 28468.82 | 1432.332 | 1993.374 | 2400.197 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-10 Acquired: 12/18/2024 1:52:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLB0 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0738954 | -.004964 | .7107266 | .0428303 | .0168079 | 49.18757 | 1.542694 |
| Stddev | .0007860 | .001136 | .0021182 | .0026363 | .0022988 | .09200 | .006122 |
| %RSD | 1.063620 | 22.88799 | .2980370 | 6.155272 | 13.67658 | .1870480 | .3968624 |
| | | | | | | | |
| #1 | .0732411 | -.005534 | .7097711 | .0457901 | .0144532 | 49.28674 | 1.541772 |
| #2 | .0747672 | -.005702 | .7092544 | .0419667 | .0169244 | 49.17101 | 1.549225 |
| #3 | .0736780 | -.003656 | .7131542 | .0407341 | .0190463 | 49.10498 | 1.537085 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0055618 | .0051395 | 237.1536 | .1113103 | .1089071 | .1935297 | 143.6220 |
| Stddev | .0001584 | .0000863 | .5903 | .0015646 | .0005276 | .0006623 | .1744 |
| %RSD | 2.848537 | 1.679187 | .2489080 | 1.405646 | .4844466 | .3422257 | .1214432 |
| | | | | | | | |
| #1 | .0053792 | .0050530 | 237.7044 | .1131158 | .1093504 | .1940688 | 143.4372 |
| #2 | .0056423 | .0051398 | 236.5305 | .1104642 | .1083235 | .1927904 | 143.7837 |
| #3 | .0056637 | .0052256 | 237.2260 | .1103509 | .1090472 | .1937298 | 143.6451 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 12.40703 | 72.16816 | .1506439 | .0062655 | -.556206 | .1303029 | .8123327 |
| Stddev | .01457 | .33028 | .0007128 | .0009135 | 1.438321 | .0117569 | .0114533 |
| %RSD | .1174690 | .4576478 | .4731657 | 14.57928 | 258.5953 | 9.022713 | 1.409922 |
| | | | | | | | |
| #1 | 12.39500 | 72.09994 | .1503410 | .0070925 | .471531 | .1169727 | .8142223 |
| #2 | 12.42324 | 71.87732 | .1514581 | .0064191 | -2.19994 | .1347428 | .8000521 |
| #3 | 12.40284 | 72.52722 | .1501326 | .0052850 | .05979 | .1391933 | .8227236 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.542698 | 9.366328 | -.027042 | .0038392 | 1.058666 | 6.627744 | .0493826 |
| Stddev | .259622 | .017574 | .000986 | .0003977 | .000805 | .017931 | .0011693 |
| %RSD | 4.684043 | .1876257 | 3.645658 | 10.35884 | .0760716 | .2705488 | 2.367865 |
| | | | | | | | |
| #1 | 5.262380 | 9.358243 | -.025927 | .0040890 | 1.059232 | 6.642026 | .0497787 |
| #2 | 5.774891 | 9.354253 | -.027403 | .0040481 | 1.059023 | 6.633585 | .0480667 |
| #3 | 5.590823 | 9.386489 | -.027797 | .0033806 | 1.057744 | 6.607620 | .0503025 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-10 Acquired: 12/18/2024 1:52:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLB0 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .6252303 | .1056220 | .1187099 |
| Stddev | .0049203 | .0007399 | .0018055 |
| %RSD | .7869614 | .7005682 | 1.520940 |
| | | | |
| #1 | .6306237 | .1053286 | .1182718 |
| #2 | .6209866 | .1064637 | .1206942 |
| #3 | .6240807 | .1050737 | .1171638 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2120.009 | 26074.16 | 1325.017 | 1818.737 | 2323.656 |
| Stddev | 2.074 | 125.93 | 2.180 | 4.513 | 4.855 |
| %RSD | .0978152 | .4829579 | .1645066 | .2481351 | .2089306 |
| | | | | | |
| #1 | 2120.365 | 26134.33 | 1327.420 | 1823.922 | 2326.753 |
| #2 | 2121.882 | 26158.72 | 1324.462 | 1816.600 | 2326.154 |
| #3 | 2117.781 | 25929.43 | 1323.168 | 1815.690 | 2318.061 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-11 Acquired: 12/18/2024 1:56:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLB1 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0672318 | .0008790 | .2166587 | .0392666 | .0184159 | 41.90722 | 1.389759 |
| Stddev | .0041734 | .0063612 | .0011011 | .0030732 | .0014856 | .18062 | .005381 |
| %RSD | 6.207452 | 723.6928 | .5082189 | 7.826503 | 8.066880 | .4309942 | .3871779 |
| #1 | .0712465 | -.001946 | .2178762 | .0420095 | .0172039 | 42.10081 | 1.395812 |
| #2 | .0629161 | -.003581 | .2157326 | .0398449 | .0179707 | 41.87762 | 1.387944 |
| #3 | .0675327 | .008163 | .2163672 | .0359453 | .0200732 | 41.74323 | 1.385520 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0048337 | .0042156 | 321.5567 | .0800749 | .1122956 | .1178823 | 144.9690 |
| Stddev | .0001758 | .0001124 | 1.6554 | .0011266 | .0006342 | .0069903 | .8977 |
| %RSD | 3.637257 | 2.666449 | .5148088 | 1.406892 | .5647863 | 5.929917 | .6192442 |
| #1 | .0050362 | .0041409 | 322.9324 | .0787753 | .1124771 | .1109949 | 145.8550 |
| #2 | .0047444 | .0041609 | 322.0181 | .0806758 | .1115904 | .1176809 | 144.9921 |
| #3 | .0047204 | .0043448 | 319.7195 | .0807737 | .1128193 | .1249712 | 144.0600 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 14.78681 | 81.19818 | .1352583 | .0064315 | -.256388 | .0991561 | .5322873 |
| Stddev | .08611 | .62440 | .0007830 | .0005683 | .922431 | .0187275 | .0103043 |
| %RSD | .5823491 | .7689864 | .5789221 | 8.835754 | 359.7790 | 18.88684 | 1.935848 |
| #1 | 14.84855 | 81.82143 | .1349472 | .0069215 | -1.16857 | .1180303 | .5338867 |
| #2 | 14.82344 | 81.20048 | .1346787 | .0065645 | .67596 | .0805789 | .5212769 |
| #3 | 14.68844 | 80.57263 | .1361491 | .0058085 | -.27656 | .0988591 | .5416984 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 6.288460 | 8.473063 | -.017920 | .0036391 | .7397043 | 5.114045 | .0212332 |
| Stddev | .274718 | .037014 | .002080 | .0004764 | .0068467 | .034691 | .0011694 |
| %RSD | 4.368597 | .4368383 | 11.60937 | 13.09230 | .9255999 | .6783382 | 5.507244 |
| #1 | 6.241283 | 8.440794 | -.020103 | .0035768 | .7354521 | 5.147988 | .0198906 |
| #2 | 6.040387 | 8.464927 | -.017695 | .0041436 | .7360583 | 5.115495 | .0217807 |
| #3 | 6.583711 | 8.513468 | -.015961 | .0031968 | .7476024 | 5.078652 | .0220285 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-11 Acquired: 12/18/2024 1:56:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLB1 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .3667026 | .1473200 | .1192731 |
| Stddev | .0059442 | .0004740 | .0016429 |
| %RSD | 1.620988 | .3217292 | 1.377383 |
| | | | |
| #1 | .3735661 | .1471107 | .1173867 |
| #2 | .3633199 | .1478626 | .1200431 |
| #3 | .3632217 | .1469867 | .1203896 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2069.986 | 25677.58 | 1303.314 | 1777.250 | 2269.974 |
| Stddev | 12.642 | 49.22 | 8.408 | 2.158 | 13.102 |
| %RSD | .6107271 | .1917026 | .6451438 | .1214045 | .5771690 |
| | | | | | |
| #1 | 2079.510 | 25709.44 | 1296.060 | 1776.221 | 2280.861 |
| #2 | 2074.804 | 25620.88 | 1301.353 | 1775.800 | 2273.627 |
| #3 | 2055.643 | 25702.41 | 1312.530 | 1779.730 | 2255.433 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-12 Acquired: 12/18/2024 2:00:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLB2 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0922960 | -.034521 | 1.324654 | .0554542 | .0246855 | 56.04778 |
| Stddev | .0005258 | .002313 | .006284 | .0035504 | .0010628 | .18643 |
| %RSD | .5697150 | 6.701470 | .4743980 | 6.402347 | 4.305567 | .3326204 |
| #1 | .0928645 | -.036623 | 1.318579 | .0546854 | .0254579 | 55.88326 |
| #2 | .0918272 | -.032042 | 1.324253 | .0593260 | .0234734 | 56.25027 |
| #3 | .0921963 | -.034896 | 1.331129 | .0523513 | .0251253 | 56.00981 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .9430809 | .0071432 | .0075937 | 65.85993 | .3197911 | .0907578 |
| Stddev | .0014435 | .0000508 | .0001371 | .05312 | .0014055 | .0005807 |
| %RSD | .1530603 | .7115792 | 1.806020 | .0806513 | .4394975 | .6397948 |
| #1 | .9421525 | .0070853 | .0075000 | 65.80633 | .3183633 | .0908554 |
| #2 | .9447440 | .0071637 | .0075299 | 65.91255 | .3198369 | .0901346 |
| #3 | .9423463 | .0071806 | .0077511 | 65.86091 | .3211732 | .0912835 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2858529 | 136.8589 | 6.144446 | 28.29827 | .1664054 | .0066631 |
| Stddev | .0156526 | .8351 | .036797 | .30082 | .0019589 | .0009080 |
| %RSD | 5.475752 | .6101853 | .5988594 | 1.063036 | 1.177163 | 13.62656 |
| #1 | .2934319 | 135.9678 | 6.105561 | 27.99391 | .1643662 | .0056333 |
| #2 | .2678534 | 137.6235 | 6.178720 | 28.59543 | .1665775 | .0073486 |
| #3 | .2962733 | 136.9855 | 6.149056 | 28.30546 | .1682726 | .0070072 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.192091 | .1607128 | 1.053001 | 5.392927 | F 10.33231 | -.001168 |
| Stddev | .760599 | .0162357 | .017741 | .198702 | .06204 | .002002 |
| %RSD | 395.9584 | 10.10233 | 1.684771 | 3.684486 | .6004631 | 171.4097 |
| #1 | -.515112 | .1447754 | 1.059300 | 5.164337 | 10.28651 | .001117 |
| #2 | .676706 | .1772313 | 1.032971 | 5.490135 | 10.30750 | -.002006 |
| #3 | -.737866 | .1601317 | 1.066733 | 5.524311 | 10.40291 | -.002614 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-12 Acquired: 12/18/2024 2:00:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLB2 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0065247 | 4.173165 | 7.139289 | .0632478 | .7027287 | .0013226 |
| Stddev | .0005815 | .029086 | .049952 | .0026025 | .0029791 | .0006972 |
| %RSD | 8.912425 | .6969827 | .6996779 | 4.114848 | .4239323 | 52.71499 |
| | | | | | | |
| #1 | .0069714 | 4.152238 | 7.114123 | .0602498 | .6995655 | .0021259 |
| #2 | .0067355 | 4.160878 | 7.196818 | .0645667 | .7031397 | .0009663 |
| #3 | .0058671 | 4.206378 | 7.106925 | .0649268 | .7054810 | .0008755 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1081922 |
| Stddev | .0035895 |
| %RSD | 3.317748 |
| | |
| #1 | .1120678 |
| #2 | .1049818 |
| #3 | .1075270 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2153.683 | 26562.11 | 1322.593 | 1828.061 | 2418.266 |
| Stddev | 8.794 | 27.10 | 10.735 | 4.329 | 9.618 |
| %RSD | .4083165 | .1020289 | .8116876 | .2368033 | .3977029 |
| | | | | | |
| #1 | 2156.382 | 26566.64 | 1330.235 | 1832.896 | 2422.571 |
| #2 | 2160.810 | 26533.03 | 1310.319 | 1826.740 | 2424.980 |
| #3 | 2143.855 | 26586.66 | 1327.224 | 1824.546 | 2407.248 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-13 Acquired: 12/18/2024 2:04:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLB3 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0958201 | -.020321 | 1.183821 | .0453322 | .0202714 | 54.91577 | .9694947 |
| Stddev | .0033867 | .004893 | .001541 | .0036861 | .0003209 | .24976 | .0058969 |
| %RSD | 3.534482 | 24.07708 | .1301719 | 8.131383 | 1.582790 | .4548127 | .6082469 |
| #1 | .0996566 | -.016168 | 1.185593 | .0475305 | .0206419 | 55.20293 | .9762899 |
| #2 | .0932457 | -.025715 | 1.183078 | .0473894 | .0200902 | 54.79529 | .9664745 |
| #3 | .0945579 | -.019081 | 1.182792 | .0410766 | .0200822 | 54.74908 | .9657196 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0064965 | .0075889 | 112.0248 | .3193603 | .0941896 | .2510785 | 134.5190 |
| Stddev | .0001217 | .0001455 | .3319 | .0015741 | .0006811 | .0019001 | .8250 |
| %RSD | 1.872928 | 1.916559 | .2962358 | .4928891 | .7231407 | .7567725 | .6133117 |
| #1 | .0066241 | .0074217 | 112.3800 | .3190300 | .0947818 | .2489260 | 135.4685 |
| #2 | .0063818 | .0076866 | 111.9715 | .3210734 | .0934453 | .2517871 | 133.9776 |
| #3 | .0064835 | .0076583 | 111.7227 | .3179776 | .0943418 | .2525225 | 134.1109 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 8.551268 | 47.38345 | .1649245 | .0066997 | -.241863 | .1451279 | 1.001018 |
| Stddev | .042458 | .20924 | .0004540 | .0013733 | .357247 | .0130554 | .006931 |
| %RSD | .4965116 | .4415972 | .2752549 | 20.49747 | 147.7065 | 8.995815 | .6923633 |
| #1 | 8.600140 | 47.59534 | .1650656 | .0070014 | .152138 | .1462397 | .993473 |
| #2 | 8.523472 | 47.17695 | .1644167 | .0052007 | -.544685 | .1315521 | 1.007101 |
| #3 | 8.530191 | 47.37807 | .1652911 | .0078970 | -.333041 | .1575918 | 1.002481 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.180491 | 8.789634 | .0009043 | .0060007 | 3.620676 | 9.068684 | .0746075 |
| Stddev | .070298 | .045791 | .0012733 | .0002327 | .015963 | .067049 | .0012234 |
| %RSD | 1.681583 | .5209716 | 140.8142 | 3.877359 | .4408743 | .7393513 | 1.639825 |
| #1 | 4.116657 | 8.793372 | .0016178 | .0058704 | 3.633295 | 9.131157 | .0735288 |
| #2 | 4.255834 | 8.742088 | .0016608 | .0062693 | 3.602731 | 9.077052 | .0743568 |
| #3 | 4.168981 | 8.833441 | -.000566 | .0058624 | 3.626001 | 8.997844 | .0759368 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-13 Acquired: 12/18/2024 2:04:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLB3 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .8716877 | .0428122 | .1130653 |
| Stddev | .0068461 | .0001389 | .0020270 |
| %RSD | .7853828 | .3244923 | 1.792758 |
| | | | |
| #1 | .8755535 | .0429575 | .1126018 |
| #2 | .8637832 | .0426807 | .1113103 |
| #3 | .8757265 | .0427984 | .1152839 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2123.889 | 26045.15 | 1329.225 | 1812.315 | 2374.000 |
| Stddev | 4.094 | 91.21 | 5.379 | 4.616 | 3.876 |
| %RSD | .1927726 | .3501836 | .4046602 | .2546804 | .1632591 |
| | | | | | |
| #1 | 2119.174 | 26144.43 | 1324.151 | 1817.618 | 2370.128 |
| #2 | 2126.553 | 26025.94 | 1328.660 | 1810.128 | 2377.880 |
| #3 | 2125.938 | 25965.08 | 1334.864 | 1809.200 | 2373.991 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-14 Acquired: 12/18/2024 2:07:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLB4 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1076312 | -.030953 | 1.239010 | .0505348 | .0238977 | 67.73396 | 1.125975 |
| Stddev | .0033424 | .001911 | .000447 | .0040988 | .0017027 | .32727 | .006829 |
| %RSD | 3.105416 | 6.173885 | .0360616 | 8.110875 | 7.124891 | .4831710 | .6065123 |
| | | | | | | | |
| #1 | .1046892 | -.030702 | 1.239169 | .0458181 | .0220754 | 67.39227 | 1.118131 |
| #2 | .1112656 | -.029180 | 1.239355 | .0532325 | .0254480 | 67.76500 | 1.130597 |
| #3 | .1069388 | -.032977 | 1.238505 | .0525537 | .0241699 | 68.04460 | 1.129197 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0074930 | .0078267 | 101.8703 | .2934404 | .1092486 | .2783920 | 148.7921 |
| Stddev | .0000232 | .0000693 | .3515 | .0012115 | .0011791 | .0097052 | 1.1834 |
| %RSD | .3093588 | .8857086 | .3450764 | .4128621 | 1.079292 | 3.486156 | .7953467 |
| | | | | | | | |
| #1 | .0075079 | .0077496 | 101.4644 | .2920638 | .1097299 | .2741220 | 147.5236 |
| #2 | .0075049 | .0078838 | 102.0682 | .2939133 | .1101109 | .2715539 | 148.9865 |
| #3 | .0074663 | .0078468 | 102.0783 | .2943442 | .1079049 | .2895000 | 149.8664 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 7.461828 | 37.39358 | .1762140 | .0060756 | -.613975 | .1599911 | .9419272 |
| Stddev | .054001 | .43950 | .0002429 | .0015970 | .777787 | .0067012 | .0166008 |
| %RSD | .7237033 | 1.175334 | .1378393 | 26.28504 | 126.6807 | 4.188465 | 1.762429 |
| | | | | | | | |
| #1 | 7.415728 | 36.90656 | .1761824 | .0044580 | .107229 | .1624014 | .9558209 |
| #2 | 7.448516 | 37.51352 | .1764711 | .0076511 | -.511055 | .1651538 | .9464175 |
| #3 | 7.521241 | 37.76066 | .1759884 | .0061175 | -1.43810 | .1524182 | .9235431 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.030115 | 8.922306 | -.008980 | .0058938 | 2.882892 | 8.737209 | .0616692 |
| Stddev | .226548 | .014497 | .001768 | .0003491 | .003592 | .065377 | .0016260 |
| %RSD | 5.621369 | .1624790 | 19.68489 | 5.923202 | .1245854 | .7482652 | 2.636665 |
| | | | | | | | |
| #1 | 3.780964 | 8.906698 | -.008448 | .0059219 | 2.880834 | 8.661836 | .0612470 |
| #2 | 4.085649 | 8.924868 | -.010952 | .0055316 | 2.880803 | 8.771228 | .0602960 |
| #3 | 4.223731 | 8.935350 | -.007539 | .0062281 | 2.887039 | 8.778562 | .0634647 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-14 Acquired: 12/18/2024 2:07:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLB4 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .8402982 | .0177800 | .1173246 |
| Stddev | .0085838 | .0005872 | .0020544 |
| %RSD | 1.021520 | 3.302415 | 1.751036 |
| | | | |
| #1 | .8307803 | .0176912 | .1161288 |
| #2 | .8426616 | .0172423 | .1161482 |
| #3 | .8474527 | .0184065 | .1196968 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2162.892 | 26541.34 | 1367.235 | 1848.603 | 2370.277 |
| Stddev | 4.539 | 64.93 | 10.271 | 7.715 | 2.749 |
| %RSD | .2098802 | .2446305 | .7512231 | .4173527 | .1159973 |
| | | | | | |
| #1 | 2158.424 | 26497.93 | 1378.948 | 1840.714 | 2367.806 |
| #2 | 2167.500 | 26510.11 | 1359.770 | 1848.962 | 2369.786 |
| #3 | 2162.752 | 26615.98 | 1362.986 | 1856.132 | 2373.239 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-15 Acquired: 12/18/2024 2:11:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLB5 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1025793 | -.036361 | 4.591094 | .0599727 | .0241568 | 65.07700 | 1.124171 |
| Stddev | .0057659 | .000984 | .020573 | .0029244 | .0003848 | .34193 | .006522 |
| %RSD | 5.620919 | 2.707509 | .4481129 | 4.876303 | 1.593104 | .5254190 | .5801648 |
| #1 | .1073724 | -.037027 | 4.588704 | .0568015 | .0245676 | 64.84211 | 1.121517 |
| #2 | .0961808 | -.036825 | 4.571820 | .0605532 | .0240982 | 65.46928 | 1.131601 |
| #3 | .1041847 | -.035230 | 4.612757 | .0625634 | .0238046 | 64.91962 | 1.119393 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0076083 | .0057022 | 55.08691 | .1518491 | .0967757 | .2308022 | 152.0404 |
| Stddev | .0001078 | .0000725 | .24440 | .0014284 | .0006647 | .0069370 | 1.0710 |
| %RSD | 1.417226 | 1.270726 | .4436575 | .9406830 | .6868391 | 3.005613 | .7044187 |
| #1 | .0074862 | .0056543 | 54.98334 | .1514841 | .0967904 | .2388121 | 151.5777 |
| #2 | .0076905 | .0056667 | 55.36604 | .1506387 | .0961038 | .2268549 | 153.2650 |
| #3 | .0076482 | .0057856 | 54.91135 | .1534247 | .0974329 | .2267396 | 151.2785 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 6.762987 | 23.51509 | .1440038 | .0040522 | .1506248 | .1731899 | .8025630 |
| Stddev | .058917 | .34823 | .0005360 | .0008277 | .7357089 | .0035131 | .0160935 |
| %RSD | .8711718 | 1.480893 | .3722291 | 20.42643 | 488.4381 | 2.028493 | 2.005263 |
| #1 | 6.739693 | 23.55844 | .1445797 | .0031781 | .1216495 | .1697409 | .8054252 |
| #2 | 6.829990 | 23.83963 | .1435194 | .0041543 | -.570168 | .1730649 | .7852304 |
| #3 | 6.719278 | 23.14722 | .1439123 | .0048241 | .900393 | .1767638 | .8170333 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.558245 | 9.186275 | -.015737 | .0044244 | 2.569776 | 8.723969 | .0559225 |
| Stddev | .069593 | .030978 | .001904 | .0002513 | .008998 | .099616 | .0016875 |
| %RSD | 1.526742 | .3372202 | 12.10196 | 5.679136 | .3501549 | 1.141862 | 3.017496 |
| #1 | 4.526672 | 9.185946 | -.017902 | .0043860 | 2.560108 | 8.752292 | .0556951 |
| #2 | 4.510036 | 9.155462 | -.014989 | .0041945 | 2.571311 | 8.806357 | .0543602 |
| #3 | 4.638028 | 9.217416 | -.014320 | .0046926 | 2.577907 | 8.613259 | .0577121 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-15 Acquired: 12/18/2024 2:11:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLB5 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .7999914 | .0007541 | .1253491 |
| Stddev | .0092783 | .0007785 | .0030203 |
| %RSD | 1.159801 | 103.2345 | 2.409541 |
| | | | |
| #1 | .7991702 | .0005491 | .1249990 |
| #2 | .8096531 | .0016147 | .1285292 |
| #3 | .7911511 | .0000986 | .1225191 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2191.665 | 26888.32 | 1375.101 | 1879.557 | 2423.528 |
| Stddev | 10.313 | 111.85 | 13.671 | 8.690 | 8.504 |
| %RSD | .4705741 | .4159933 | .9941713 | .4623392 | .3508873 |
| | | | | | |
| #1 | 2203.267 | 27004.74 | 1373.120 | 1889.492 | 2430.514 |
| #2 | 2188.191 | 26878.55 | 1362.528 | 1875.809 | 2426.012 |
| #3 | 2183.537 | 26781.68 | 1389.654 | 1873.370 | 2414.059 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-16 Acquired: 12/18/2024 2:15:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLB6 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0868229 | -.056687 | .5234605 | .0709062 | .0284554 | 71.47440 | 1.082769 |
| Stddev | .0009812 | .004745 | .0048823 | .0065542 | .0034276 | .33212 | .001654 |
| %RSD | 1.130124 | 8.370221 | .9327055 | 9.243499 | 12.04534 | .4646677 | .1527130 |
| | | | | | | | |
| #1 | .0862124 | -.051261 | .5181938 | .0642333 | .0290594 | 71.64060 | 1.083812 |
| #2 | .0879547 | -.060055 | .5243522 | .0711503 | .0315407 | 71.69061 | 1.083632 |
| #3 | .0863016 | -.058745 | .5278356 | .0773349 | .0247659 | 71.09199 | 1.080862 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0079887 | .0045858 | 41.44155 | .1118755 | .1082424 | .1508890 | 171.7772 |
| Stddev | .0001245 | .0000543 | .09873 | .0011968 | .0009023 | .0085492 | .5324 |
| %RSD | 1.558868 | 1.184312 | .2382366 | 1.069783 | .8336291 | 5.665879 | .3099506 |
| | | | | | | | |
| #1 | .0080139 | .0045680 | 41.52700 | .1104941 | .1083149 | .1410431 | 172.0906 |
| #2 | .0080988 | .0045426 | 41.46418 | .1125991 | .1073060 | .1551939 | 172.0785 |
| #3 | .0078535 | .0046468 | 41.33347 | .1125334 | .1091063 | .1564300 | 171.1624 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 8.312207 | 22.25242 | .1334595 | .0051415 | -.324875 | .1860771 | .5301453 |
| Stddev | .035928 | .08243 | .0015143 | .0009846 | .810948 | .0142022 | .0105574 |
| %RSD | .4322358 | .3704250 | 1.134632 | 19.15083 | 249.6187 | 7.632412 | 1.991426 |
| | | | | | | | |
| #1 | 8.333740 | 22.33379 | .1325430 | .0062197 | -.406162 | .1788553 | .5413114 |
| #2 | 8.332151 | 22.25450 | .1326281 | .0042899 | -1.09212 | .2024389 | .5203256 |
| #3 | 8.270731 | 22.16897 | .1352073 | .0049150 | .52366 | .1769371 | .5287990 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.674105 | 7.920070 | -.035147 | .0043734 | 2.163568 | 7.021687 | .0349473 |
| Stddev | .271956 | .044168 | .002795 | .0002699 | .015711 | .040790 | .0006019 |
| %RSD | 7.401959 | .5576697 | 7.951071 | 6.170908 | .7261658 | .5809114 | 1.722267 |
| | | | | | | | |
| #1 | 3.735132 | 7.907707 | -.037934 | .0041427 | 2.159351 | 7.038725 | .0354663 |
| #2 | 3.910362 | 7.883400 | -.035160 | .0043074 | 2.150395 | 7.051195 | .0342875 |
| #3 | 3.376821 | 7.969101 | -.032345 | .0046702 | 2.180957 | 6.975140 | .0350880 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-16 Acquired: 12/18/2024 2:15:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLB6 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .6236439 | -.035728 | .1301598 |
| Stddev | .0085756 | .000891 | .0030243 |
| %RSD | 1.375084 | 2.494218 | 2.323569 |
| | | | |
| #1 | .6317658 | -.035041 | .1328800 |
| #2 | .6244888 | -.035408 | .1306963 |
| #3 | .6146771 | -.036735 | .1269031 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2220.903 | 27074.49 | 1384.151 | 1890.916 | 2440.821 |
| Stddev | 8.362 | 66.87 | 4.849 | 4.733 | 12.359 |
| %RSD | .3765109 | .2469790 | .3503229 | .2503280 | .5063456 |
| | | | | | |
| #1 | 2220.085 | 27077.41 | 1380.916 | 1893.695 | 2442.592 |
| #2 | 2229.644 | 27139.85 | 1381.812 | 1893.603 | 2452.199 |
| #3 | 2212.980 | 27006.21 | 1389.727 | 1885.451 | 2427.672 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-17 Acquired: 12/18/2024 2:19:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLB7 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0606377 | -.049220 | .1762771 | .0561860 | .0258087 | 57.54849 | .7220266 |
| Stddev | .0050681 | .000999 | .0030974 | .0089423 | .0009936 | .09025 | .0016111 |
| %RSD | 8.357971 | 2.029606 | 1.757099 | 15.91548 | 3.849915 | .1568301 | .2231365 |
| #1 | .0561112 | -.050282 | .1728003 | .0610774 | .0251564 | 57.58485 | .7208674 |
| #2 | .0661132 | -.048300 | .1787418 | .0458650 | .0269523 | 57.44573 | .7213461 |
| #3 | .0596888 | -.049077 | .1772892 | .0616154 | .0253174 | 57.61489 | .7238663 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0063585 | .0026905 | 26.12095 | .0867485 | .0812210 | .0714682 | 142.9425 |
| Stddev | .0000426 | .0001799 | .14476 | .0010093 | .0009788 | .0142673 | .4667 |
| %RSD | .6706703 | 6.686511 | .5541930 | 1.163428 | 1.205153 | 19.96316 | .3264967 |
| #1 | .0063493 | .0024994 | 26.00397 | .0868157 | .0813266 | .0666913 | 142.6348 |
| #2 | .0064050 | .0027156 | 26.07604 | .0877225 | .0801937 | .0602022 | 142.7133 |
| #3 | .0063212 | .0028566 | 26.28285 | .0857073 | .0821428 | .0875110 | 143.4795 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 6.282266 | 19.88239 | .1130800 | .0042784 | -.175141 | .1451179 | .3548580 |
| Stddev | .004801 | .12297 | .0014354 | .0006146 | .967615 | .0032354 | .0103215 |
| %RSD | .0764181 | .6184699 | 1.269384 | 14.36566 | 552.4773 | 2.229485 | 2.908633 |
| #1 | 6.287157 | 20.02161 | .1136024 | .0049766 | .930189 | .1413843 | .3654316 |
| #2 | 6.277561 | 19.78860 | .1114565 | .0038190 | -.869096 | .1470991 | .3448086 |
| #3 | 6.282080 | 19.83697 | .1141810 | .0040396 | -.586516 | .1468702 | .3543336 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.007781 | 5.575916 | -.032871 | .0029928 | .7248765 | 7.034524 | .0182766 |
| Stddev | .217754 | .037232 | .001141 | .0000138 | .0108015 | .047317 | .0011155 |
| %RSD | 7.239688 | .6677360 | 3.470600 | .4616792 | 1.490113 | .6726327 | 6.103517 |
| #1 | 2.780667 | 5.557893 | -.033399 | .0030087 | .7278118 | 7.031664 | .0192378 |
| #2 | 3.027896 | 5.551125 | -.033652 | .0029842 | .7129107 | 6.988702 | .0170534 |
| #3 | 3.214779 | 5.618730 | -.031562 | .0029855 | .7339069 | 7.083206 | .0185385 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-17 Acquired: 12/18/2024 2:19:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLB7 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .7214869 | -.050469 | .1171432 |
| Stddev | .0049311 | .000655 | .0053402 |
| %RSD | .6834687 | 1.297046 | 4.558691 |
| | | | |
| #1 | .7258757 | -.049775 | .1210728 |
| #2 | .7161509 | -.050557 | .1192938 |
| #3 | .7224342 | -.051075 | .1110630 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2161.542 | 26582.23 | 1342.341 | 1849.567 | 2453.457 |
| Stddev | 14.288 | 91.45 | 4.231 | 14.113 | 18.643 |
| %RSD | .6610244 | .3440204 | .3152161 | .7630506 | .7598839 |
| | | | | | |
| #1 | 2164.459 | 26642.40 | 1341.815 | 1860.808 | 2456.500 |
| #2 | 2174.146 | 26476.99 | 1346.811 | 1833.728 | 2470.392 |
| #3 | 2146.020 | 26627.29 | 1338.398 | 1854.165 | 2433.480 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-18 Acquired: 12/18/2024 2:23:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLB8 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0918712 | -.048049 | .1811181 | .0845356 | .0324826 | 63.85570 | 1.938706 |
| Stddev | .0018054 | .005399 | .0022542 | .0020665 | .0013077 | .30344 | .008928 |
| %RSD | 1.965160 | 11.23700 | 1.244622 | 2.444533 | 4.025719 | .4752005 | .4605051 |
| #1 | .0909058 | -.049581 | .1790280 | .0821530 | .0309958 | 63.56549 | 1.929143 |
| #2 | .0907537 | -.052516 | .1808196 | .0856144 | .0329975 | 63.83078 | 1.940154 |
| #3 | .0939540 | -.042049 | .1835068 | .0858395 | .0334543 | 64.17083 | 1.946822 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0066523 | .0048955 | 32.09253 | .1040098 | .1282809 | .0937149 | 191.5670 |
| Stddev | .0000977 | .0002021 | .17675 | .0006376 | .0003263 | .0119414 | .6589 |
| %RSD | 1.469027 | 4.128563 | .5507399 | .6130255 | .2543585 | 12.74221 | .3439332 |
| #1 | .0066622 | .0049500 | 31.90238 | .1041504 | .1280350 | .0820290 | 190.8145 |
| #2 | .0067448 | .0046717 | 32.12341 | .1045653 | .1286511 | .0932195 | 191.8458 |
| #3 | .0065501 | .0050647 | 32.25180 | .1033136 | .1281568 | .1058963 | 192.0405 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 18.12343 | 24.82067 | .1757623 | .0069697 | -1.03981 | .1757517 | .4527220 |
| Stddev | .10009 | .24640 | .0012370 | .0015249 | .77671 | .0076056 | .0183129 |
| %RSD | .5522747 | .9927318 | .7038062 | 21.87953 | 74.69771 | 4.327471 | 4.045065 |
| #1 | 18.01187 | 24.72381 | .1762789 | .0054839 | -.31175 | .1680419 | .4445053 |
| #2 | 18.15304 | 24.63741 | .1743507 | .0068942 | -1.85741 | .1832487 | .4399564 |
| #3 | 18.20537 | 25.10078 | .1766572 | .0085309 | -.95027 | .1759646 | .4737041 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.938651 | 6.022971 | -.041808 | .0036813 | .5403185 | 8.964321 | .0215906 |
| Stddev | .118872 | .022392 | .002169 | .0004453 | .0053328 | .102267 | .0011688 |
| %RSD | 3.018077 | .3717735 | 5.188088 | 12.09592 | .9869726 | 1.140821 | 5.413451 |
| #1 | 3.835060 | 6.010113 | -.040661 | .0039109 | .5407264 | 8.846304 | .0225890 |
| #2 | 4.068435 | 6.009974 | -.040452 | .0039651 | .5347935 | 9.026847 | .0218780 |
| #3 | 3.912460 | 6.048827 | -.044309 | .0031681 | .5454357 | 9.019813 | .0203049 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: P5064-18 Acquired: 12/18/2024 2:23:25 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: MBHLB8 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .8224107 | -.078152 | .1348190 |
| Stddev | .0047129 | .000369 | .0082832 |
| %RSD | .5730617 | .4716477 | 6.143943 |
| | | | |
| #1 | .8169694 | -.077860 | .1373856 |
| #2 | .8250552 | -.078030 | .1415151 |
| #3 | .8252074 | -.078566 | .1255563 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2228.911 | 27349.89 | 1406.148 | 1910.982 | 2457.095 |
| Stddev | 1.231 | 67.36 | 7.932 | 5.912 | 2.560 |
| %RSD | .0552414 | .2462910 | .5641180 | .3093804 | .1041889 |
| | | | | | |
| #1 | 2229.025 | 27272.52 | 1414.869 | 1906.437 | 2456.322 |
| #2 | 2227.627 | 27395.49 | 1399.363 | 1908.843 | 2459.952 |
| #3 | 2230.082 | 27381.66 | 1404.212 | 1917.666 | 2455.010 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: CCV055 Acquired: 12/18/2024 2:27:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCV055 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.189011 | 5.113631 | 24.95689 | 5.248612 | 5.223930 | 398.0879 | 10.43835 |
| Stddev | .024591 | .023654 | .10705 | .036471 | .038049 | .4917 | .01417 |
| %RSD | .4739118 | .4625719 | .4289408 | .6948652 | .7283616 | .1235252 | .1357519 |
| | | | | | | | |
| #1 | 5.171836 | 5.087212 | 24.85311 | 5.207130 | 5.184115 | 398.4312 | 10.45380 |
| #2 | 5.178015 | 5.120838 | 24.95062 | 5.263067 | 5.227750 | 397.5245 | 10.42595 |
| #3 | 5.217182 | 5.132844 | 25.06693 | 5.275640 | 5.259925 | 398.3078 | 10.43531 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5231314 | 2.534166 | 415.2176 | 15.86356 | 2.531654 | 15.37228 | 407.2795 |
| Stddev | .0035888 | .010725 | .6967 | .01791 | .010365 | .04710 | .7037 |
| %RSD | .6860267 | .4232235 | .1677891 | .1129152 | .4094036 | .3064030 | .1727820 |
| | | | | | | | |
| #1 | .5193593 | 2.523760 | 415.4898 | 15.85119 | 2.521562 | 15.35391 | 407.1451 |
| #2 | .5235313 | 2.533553 | 414.4260 | 15.88410 | 2.531129 | 15.42580 | 408.0406 |
| #3 | .5265034 | 2.545184 | 415.7372 | 15.85539 | 2.542271 | 15.33713 | 406.6526 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 15.73622 | 408.9405 | 2.528916 | 1.310200 | 395.1019 | 2.550774 | 14.97179 |
| Stddev | .04206 | .5338 | .008186 | .003607 | .7228 | .019433 | .12098 |
| %RSD | .2672643 | .1305253 | .3236893 | .2753240 | .1829398 | .7618306 | .8080303 |
| | | | | | | | |
| #1 | 15.75597 | 408.3833 | 2.520655 | 1.313626 | 395.7939 | 2.562737 | 15.04657 |
| #2 | 15.76477 | 409.4473 | 2.529068 | 1.306436 | 394.3518 | 2.561232 | 15.03657 |
| #3 | 15.68792 | 408.9908 | 2.537025 | 1.310538 | 395.1600 | 2.528352 | 14.83221 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 157.9884 | 5.036876 | 4.956105 | 4.836118 | 4.984241 | 5.107207 | 5.086487 |
| Stddev | .2665 | .019826 | .051117 | .035074 | .027230 | .052271 | .024584 |
| %RSD | .1687077 | .3936222 | 1.031385 | .7252447 | .5463179 | 1.023474 | .4833201 |
| | | | | | | | |
| #1 | 157.8336 | 5.013987 | 4.904410 | 4.800500 | 4.955327 | 5.050243 | 5.063799 |
| #2 | 158.2962 | 5.048723 | 4.957284 | 4.837234 | 4.988000 | 5.118410 | 5.083054 |
| #3 | 157.8354 | 5.047917 | 5.006623 | 4.870621 | 5.009395 | 5.152968 | 5.112607 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: CCV055 Acquired: 12/18/2024 2:27:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCV055 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 5.160746 | 4.873079 | 5.195355 |
| Stddev | .010437 | .009033 | .008091 |
| %RSD | .2022305 | .1853655 | .1557404 |
| | | | |
| #1 | 5.171757 | 4.874076 | 5.187369 |
| #2 | 5.150998 | 4.881572 | 5.195148 |
| #3 | 5.159484 | 4.863589 | 5.203548 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1510.384 | 20403.81 | 1106.073 | 1340.396 | 1972.308 |
| Stddev | 6.256 | 164.31 | 2.530 | 7.006 | 3.395 |
| %RSD | .4141823 | .8052715 | .2287007 | .5226786 | .1721536 |
| | | | | | |
| #1 | 1517.605 | 20216.02 | 1105.160 | 1332.573 | 1975.708 |
| #2 | 1506.613 | 20474.29 | 1108.932 | 1342.524 | 1968.917 |
| #3 | 1506.933 | 20521.12 | 1104.126 | 1346.092 | 1972.299 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

Sample Name: CCB055 Acquired: 12/18/2024 2:30:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCB055 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0036276 | .0045489 | -.000150 | -.000434 | -.001196 | .0367063 |
| Stddev | .0028567 | .0012703 | .001100 | .003401 | .001299 | .0308425 |
| %RSD | 78.74837 | 27.92489 | 731.3966 | 784.0227 | 108.6363 | 84.02509 |
| | | | | | | |
| #1 | .0026792 | .0034141 | -.001320 | .002281 | -.002075 | .0721981 |
| #2 | .0013657 | .0043114 | .000863 | -.004249 | .000296 | .0215122 |
| #3 | .0068379 | .0059212 | .000006 | .000667 | -.001809 | .0164087 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0024947 | -.000025 | -.000018 | -.002455 | .0012347 | .0001553 |
| Stddev | .0013290 | .000040 | .000064 | .038056 | .0009673 | .0004600 |
| %RSD | 53.27050 | 159.1771 | 362.0338 | 1550.041 | 78.34577 | 296.1823 |
| | | | | | | |
| #1 | .0014789 | .000013 | .000030 | .005798 | .0018380 | .0000594 |
| #2 | .0020066 | -.000068 | -.000091 | .030797 | .0001190 | .0006557 |
| #3 | .0039987 | -.000021 | .000007 | -.043960 | .0017472 | -.000249 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0058887 | -.007309 | -.001727 | .1150466 | .0005709 | .0007891 |
| Stddev | .0190759 | .019606 | .001816 | .0796539 | .0001434 | .0003079 |
| %RSD | 323.9405 | 268.2359 | 105.1428 | 69.23621 | 25.11676 | 39.01999 |
| | | | | | | |
| #1 | -.009804 | .015219 | -.001606 | .0268869 | .0004542 | .0010750 |
| #2 | .027121 | -.020515 | .000025 | .1364187 | .0005275 | .0004631 |
| #3 | .000348 | -.016632 | -.003601 | .1818343 | .0007310 | .0008291 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.817261 | .0085866 | .0158958 | .3467854 | -.000549 | .0134285 |
| Stddev | .356803 | .0193842 | .0063798 | .1799740 | .000085 | .0027533 |
| %RSD | 43.65836 | 225.7487 | 40.13518 | 51.89782 | 15.55491 | 20.50330 |
| | | | | | | |
| #1 | -1.12951 | .0131435 | .0106677 | .4253772 | -.000459 | .0157830 |
| #2 | -.42836 | .0252864 | .0230045 | .1408817 | -.000561 | .0141012 |
| #3 | -.89391 | -.012670 | .0140152 | .4740972 | -.000628 | .0104011 |

Reviewed By:Jaswal
On:1/6/2025 8:51:01 AM
Inst Id :P5

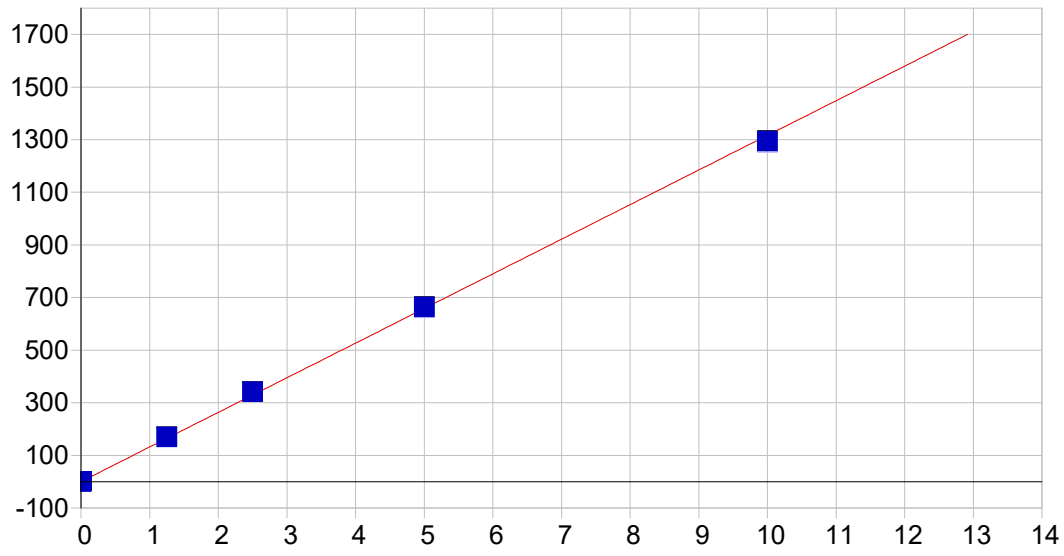
Sample Name: CCB055 Acquired: 12/18/2024 2:30:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v27) Mode: CONC Corr. Factor: 1.00000
User: Kareem Custom ID1: CCB055 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000389 | .0025525 | .0010179 | .0003892 | -.004679 | .0002128 |
| Stddev | .000314 | .0021415 | .0014666 | .0007826 | .005772 | .0001393 |
| %RSD | 80.80596 | 83.89811 | 144.0926 | 201.1043 | 123.3652 | 65.47063 |
| #1 | -.000257 | .0036376 | -.000623 | .0000078 | -.010743 | .0002552 |
| #2 | -.000748 | .0000857 | .001474 | -.000130 | -.004040 | .0003259 |
| #3 | -.000163 | .0039344 | .002202 | .001289 | .000747 | .0000572 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | F .0290581 |
| Stddev | .0061500 |
| %RSD | 21.16446 |
| #1 | .0253595 |
| #2 | .0361574 |
| #3 | .0256574 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1861.567 | 22822.06 | 1136.488 | 1591.956 | 2474.319 |
| Stddev | 2.804 | 55.57 | 19.414 | 10.232 | 1.184 |
| %RSD | .1506522 | .2434777 | 1.708281 | .6427588 | .0478636 |
| #1 | 1858.334 | 22813.00 | 1117.599 | 1599.915 | 2473.210 |
| #2 | 1863.032 | 22771.58 | 1156.388 | 1580.414 | 2474.180 |
| #3 | 1863.336 | 22881.59 | 1135.475 | 1595.538 | 2475.567 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



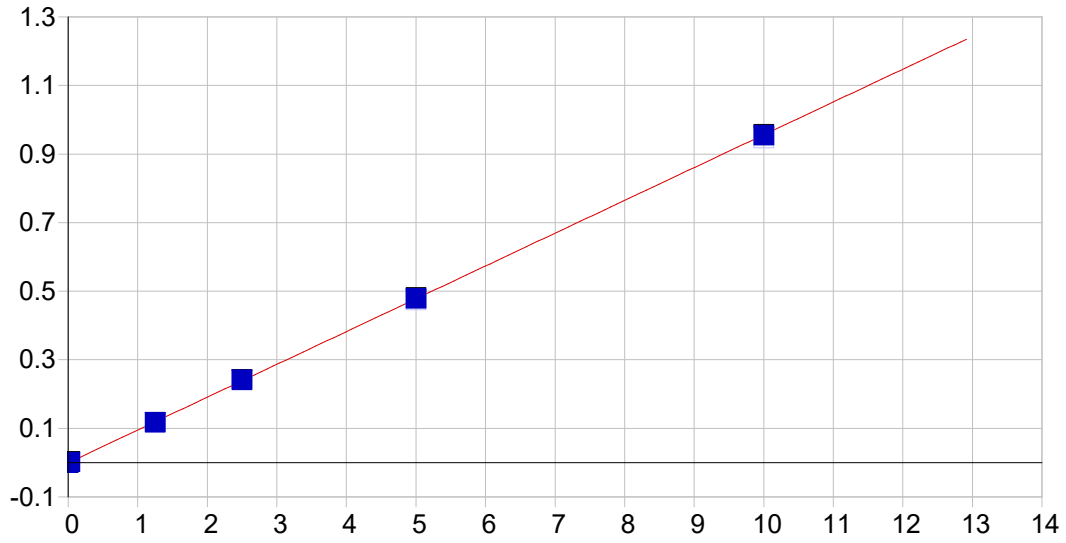

**As 189.042 {478}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/03/2025 12:56:42 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.189867 | Re-Slope: | 1.000000 |
| A1 (Gain): | 131.619343 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999767 | Status: | OK. |
| Std Error of Est: | 0.047478 | | |
| Predicted MDL: | 0.006415 | | |
| Predicted MQL: | 0.021383 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .18942 | .735 | 1 |
| S1 | .01000 | .01283 | .003 | 28.3 | 1.8764 | .338 | 1 |
| S2 | 1.2500 | 1.2875 | .038 | 3.00 | 168.96 | .251 | 1 |
| S3 | 2.5000 | 2.5926 | .093 | 3.70 | 340.05 | .802 | 1 |
| S4 | 5.0000 | 5.0403 | .040 | .805 | 660.82 | 1.07 | 1 |
| S5 | 10.000 | 9.8268 | -.173 | -1.73 | 1288.1 | 3.21 | 1 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



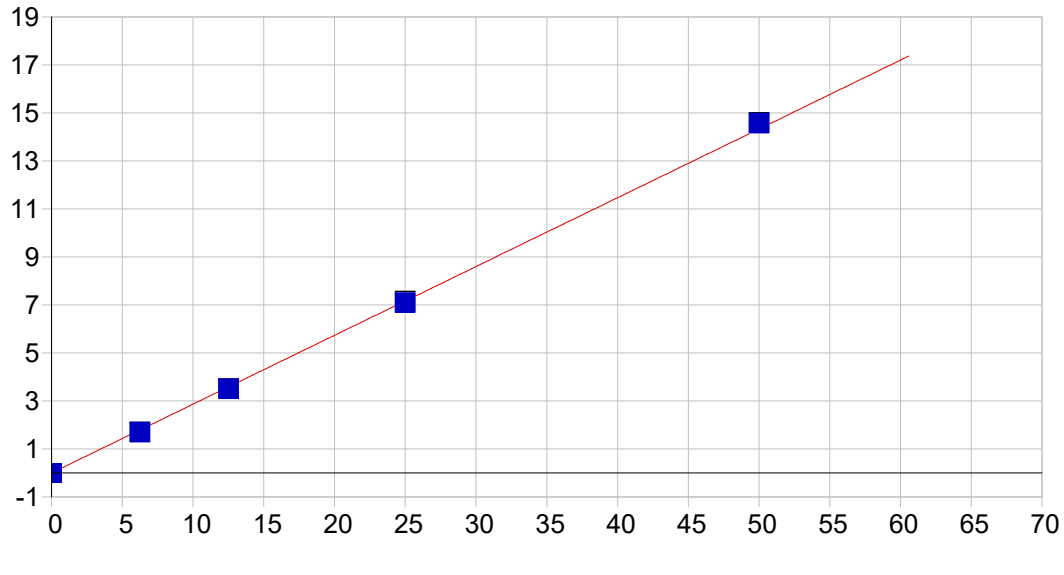

**Tl 190.856 {477}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/03/2025 12:56:42 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000448 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.095659 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999976 | Status: | OK. |
| Std Error of Est: | 0.000018 | | |
| Predicted MDL: | 0.003413 | | |
| Predicted MQL: | 0.011377 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | -.00045 | .000 | 1 |
| S1 | .02500 | .02701 | .002 | 8.03 | .00205 | .000 | 1 |
| S2 | 1.2500 | 1.2301 | -.020 | -1.59 | .11620 | .000 | 1 |
| S3 | 2.5000 | 2.5309 | .031 | 1.24 | .23960 | .000 | 1 |
| S4 | 5.0000 | 5.0061 | .006 | .121 | .47432 | .003 | 1 |
| S5 | 10.000 | 9.9810 | -.019 | -.190 | .94611 | .003 | 1 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



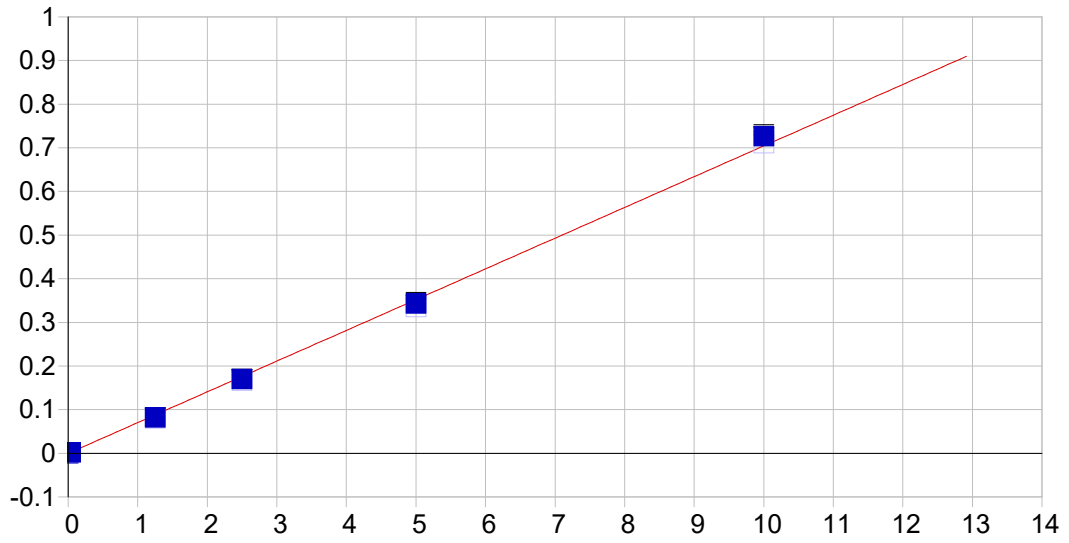

**Pb 220.353 {453}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/03/2025 12:56:42 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000676 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.286633 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999791 | Status: | OK. |
| Std Error of Est: | 0.000219 | | |
| Predicted MDL: | 0.003062 | | |
| Predicted MQL: | 0.010207 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | -.00068 | .001 | 1 |
| S1 | .01000 | .01070 | .001 | 7.05 | .00237 | .000 | 1 |
| S2 | 6.2500 | 5.9191 | -.331 | -5.29 | 1.6925 | .001 | 1 |
| S3 | 12.500 | 12.232 | -.268 | -2.14 | 3.4986 | .005 | 1 |
| S4 | 25.000 | 24.771 | -.229 | -.917 | 7.0856 | .054 | 1 |
| S5 | 50.000 | 50.827 | .827 | 1.65 | 14.541 | .032 | 1 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



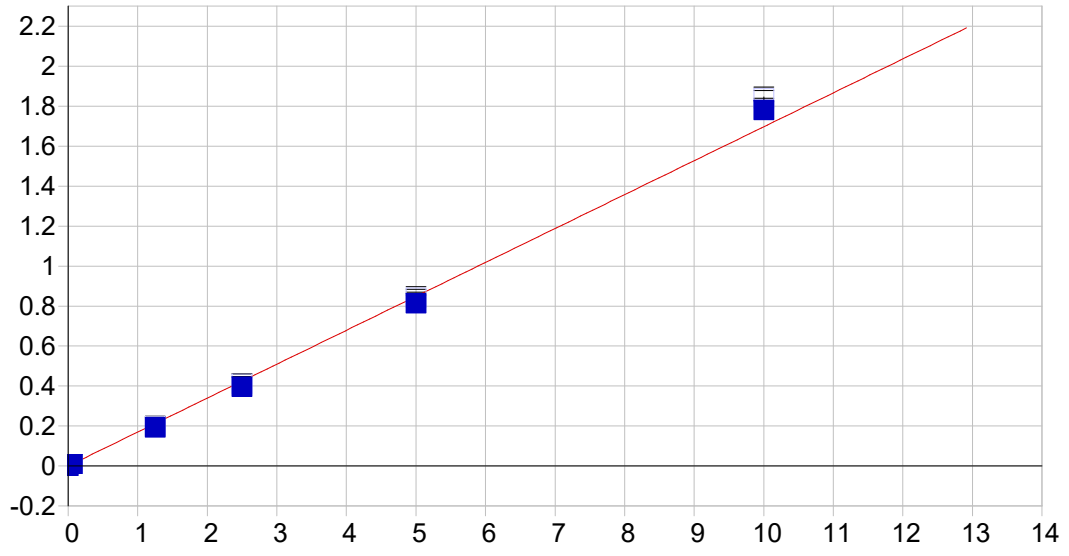

**Se 196.090 {472}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/03/2025 12:56:42 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000127 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.070441 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999349 | Status: | OK. |
| Std Error of Est: | 0.000078 | | |
| Predicted MDL: | 0.006053 | | |
| Predicted MQL: | 0.020176 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | -.00013 | .000 | 1 |
| S1 | .03500 | .03005 | -.005 | -14.1 | .00198 | .001 | 1 |
| S2 | 1.2500 | 1.1595 | -.090 | -7.24 | .07957 | .000 | 1 |
| S3 | 2.5000 | 2.4129 | -.087 | -3.48 | .16588 | .000 | 1 |
| S4 | 5.0000 | 4.8703 | -.130 | -2.59 | .33502 | .003 | 1 |
| S5 | 10.000 | 10.312 | .312 | 3.12 | .71043 | .004 | 1 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



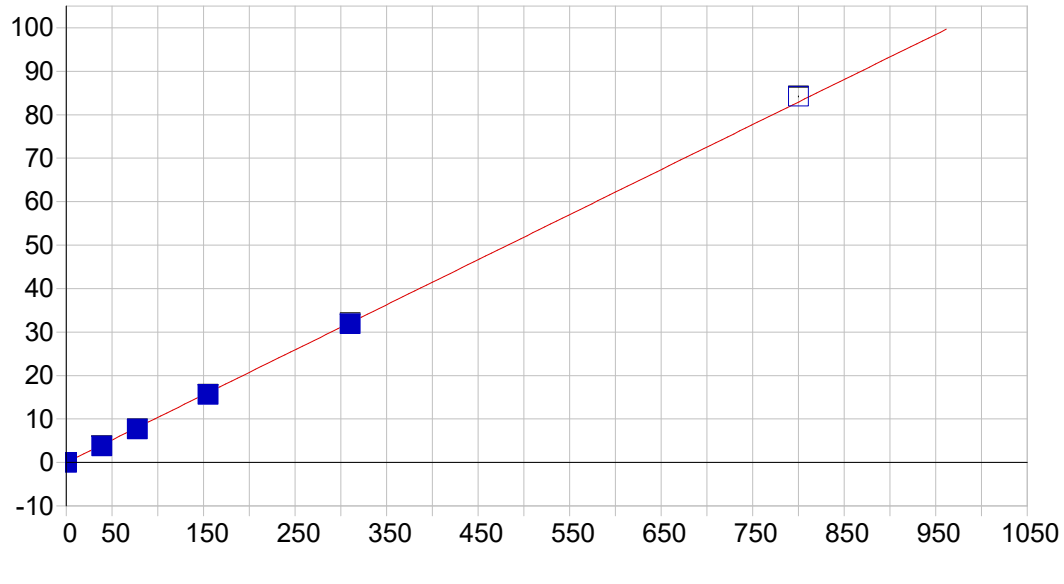

**Sb 206.833 {463}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/03/2025 12:56:42 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000032 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.169726 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.998614 | Status: | OK. |
| Std Error of Est: | 0.000380 | | |
| Predicted MDL: | 0.003498 | | |
| Predicted MQL: | 0.011660 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | -.00003 | .000 | 1 |
| S1 | .06000 | .05818 | -.002 | -3.04 | .00985 | .000 | 1 |
| S2 | 1.2500 | 1.1300 | -.120 | -9.60 | .19884 | .001 | 1 |
| S3 | 2.5000 | 2.3361 | -.164 | -6.56 | .41064 | .001 | 1 |
| S4 | 5.0000 | 4.7898 | -.210 | -4.20 | .84129 | .007 | 1 |
| S5 | 10.000 | 10.496 | .496 | 4.96 | 1.8381 | .009 | 1 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



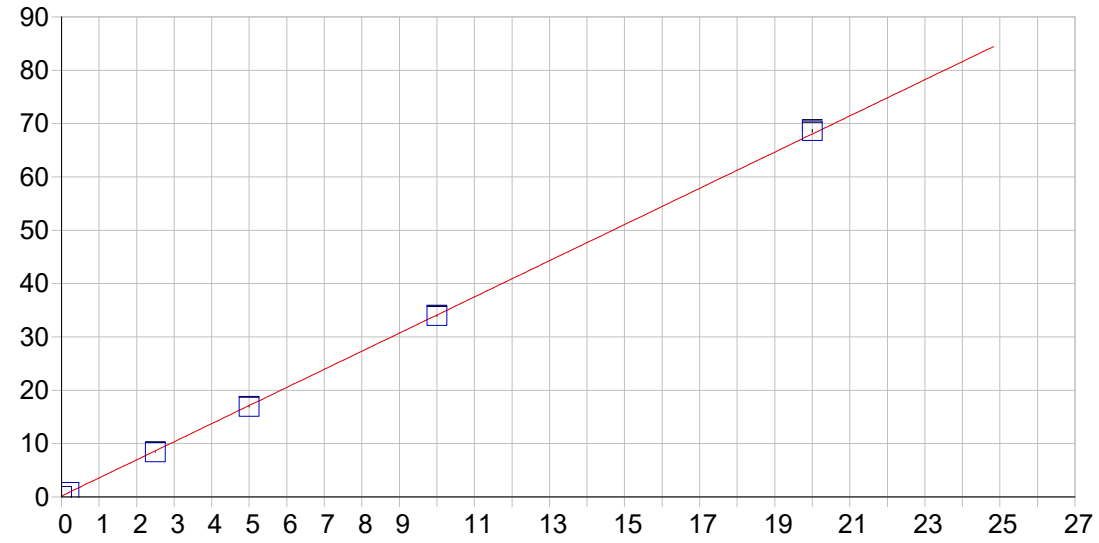

**Al 396.152 { 85}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/03/2025 12:56:42 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.001819 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.103654 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999769 | Status: | OK. |
| Std Error of Est: | 0.001387 | | |
| Predicted MDL: | 0.032035 | | |
| Predicted MQL: | 0.106784 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00004 | .000 | .000 | -.00182 | .001 | 1 |
| S1 | .20000 | .18763 | -.012 | -6.19 | .01766 | .006 | 1 |
| S2 | 38.750 | 36.602 | -2.15 | -5.54 | 3.7965 | .012 | 1 |
| S3 | 77.500 | 73.886 | -3.61 | -4.66 | 7.6655 | .009 | 1 |
| S4 | 155.00 | 150.44 | -4.56 | -2.94 | 15.609 | .062 | 1 |
| S5 | 310.00 | 307.69 | -2.31 | -.744 | 31.927 | .170 | 1 |
| S6 | 800.00 | 812.65 | 12.7 | 1.58 | 84.233 | .114 | 1 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



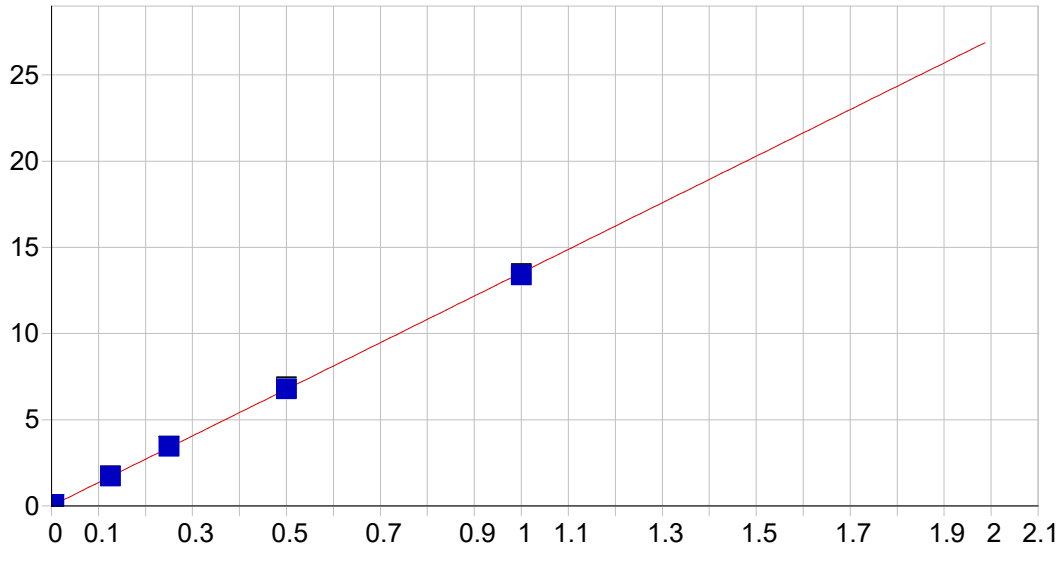

**Ba 493.409 { 68}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/03/2025 12:56:42 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.167881 | Re-Slope: | 1.000000 |
| A1 (Gain): | 3.393608 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999935 | Status: | OK. |
| Std Error of Est: | 0.004102 | | |
| Predicted MDL: | 0.002541 | | |
| Predicted MQL: | 0.008469 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .16789 | .013 | 1 |
| S1 | .20000 | .20599 | .006 | 2.99 | .86692 | .008 | 1 |
| S2 | 2.5000 | 2.4226 | -.077 | -3.10 | 8.3892 | .049 | 1 |
| S3 | 5.0000 | 4.9397 | -.060 | -1.21 | 16.931 | .049 | 1 |
| S4 | 10.000 | 9.9626 | -.037 | -.374 | 33.977 | .113 | 1 |
| S5 | 20.000 | 20.169 | .169 | .846 | 68.614 | .238 | 1 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



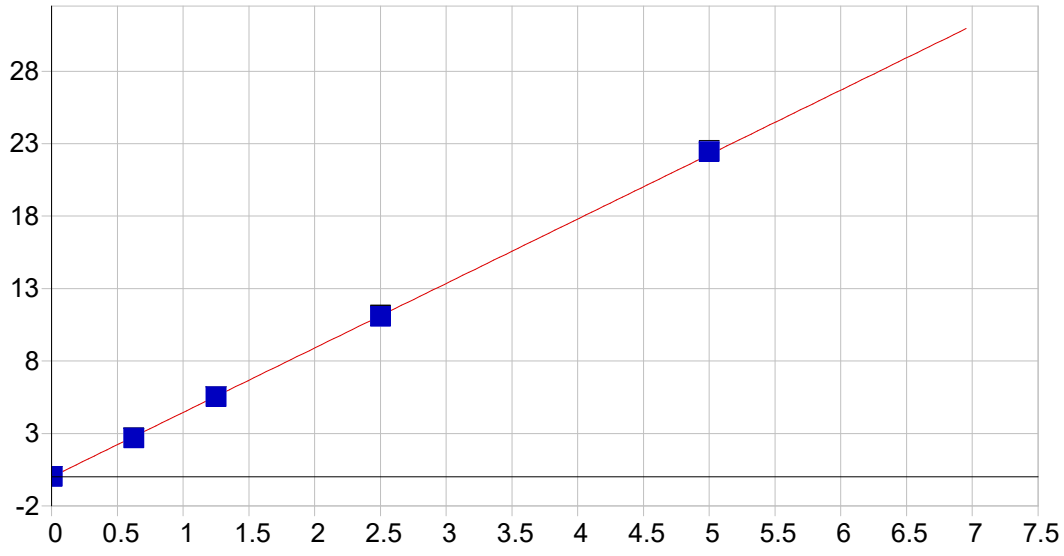

**Be 234.861 {144}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/03/2025 12:56:42 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.004962 | Re-Slope: | 1.000000 |
| A1 (Gain): | 13.524085 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999935 | Status: | OK. |
| Std Error of Est: | 0.000575 | | |
| Predicted MDL: | 0.000140 | | |
| Predicted MQL: | 0.000468 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00495 | .001 | 1 |
| S1 | .00500 | .00542 | .000 | 8.37 | .07818 | .000 | 1 |
| S2 | .12500 | .12709 | .002 | 1.67 | 1.7160 | .003 | 1 |
| S3 | .25000 | .25454 | .005 | 1.82 | 3.4319 | .022 | 1 |
| S4 | .50000 | .50197 | .002 | .394 | 6.7626 | .107 | 1 |
| S5 | 1.0000 | .99098 | -.009 | -.902 | 13.345 | .078 | 1 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



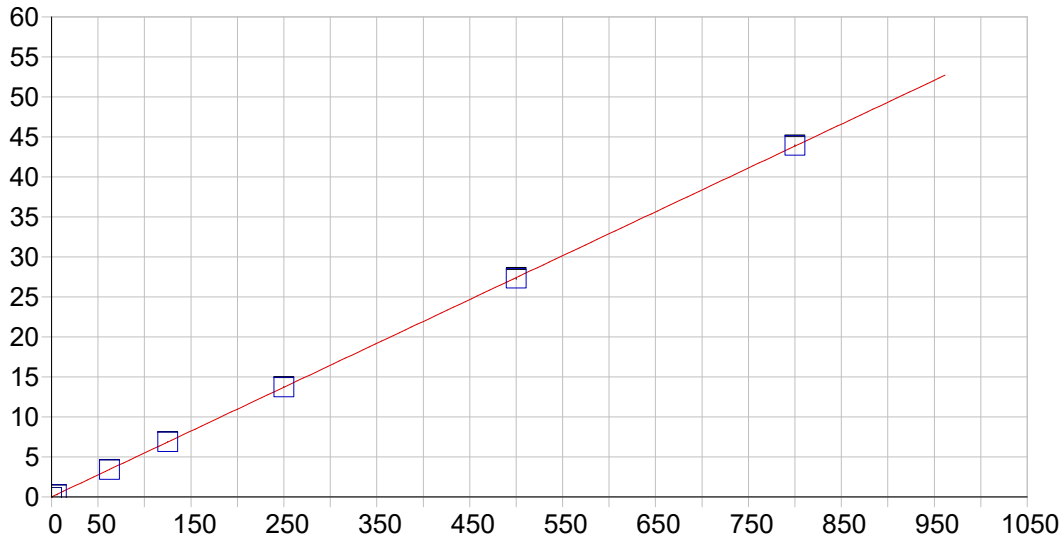

**Cd 214.438 {457}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/03/2025 12:56:42 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000501 | Re-Slope: | 1.000000 |
| A1 (Gain): | 4.450103 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999929 | Status: | OK. |
| Std Error of Est: | 0.000445 | | |
| Predicted MDL: | 0.000108 | | |
| Predicted MQL: | 0.000359 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00050 | .001 | 1 |
| S1 | .00500 | .00502 | .000 | .330 | .02291 | .000 | 1 |
| S2 | .62500 | .60175 | -.023 | -3.72 | 2.6826 | .002 | 1 |
| S3 | 1.2500 | 1.2433 | -.007 | -.537 | 5.5418 | .008 | 1 |
| S4 | 2.5000 | 2.4872 | -.013 | -.512 | 11.086 | .087 | 1 |
| S5 | 5.0000 | 5.0428 | .043 | .855 | 22.475 | .060 | 1 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



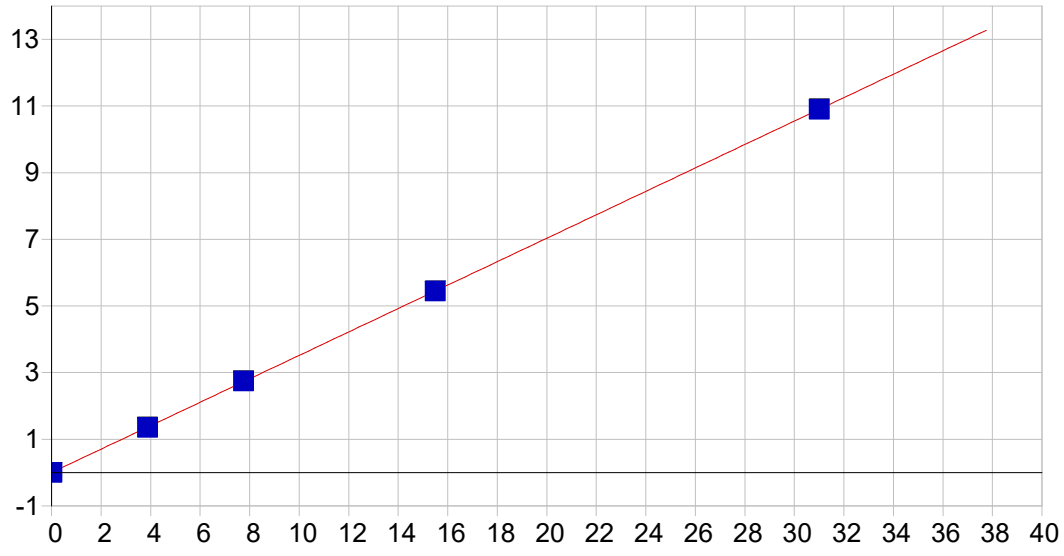

**Ca 373.690 { 90}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/03/2025 12:56:42 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.011547 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.054802 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999994 | Status: | OK. |
| Std Error of Est: | 0.000688 | | |
| Predicted MDL: | 0.042289 | | |
| Predicted MQL: | 0.140964 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00019 | -.000 | .000 | .01154 | .004 | 1 |
| S1 | 5.0000 | 5.2021 | .202 | 4.04 | .29663 | .003 | 1 |
| S2 | 62.500 | 62.059 | -.441 | -.706 | 3.4125 | .011 | 1 |
| S3 | 125.00 | 125.66 | .657 | .526 | 6.8978 | .025 | 1 |
| S4 | 250.00 | 250.31 | .309 | .123 | 13.729 | .058 | 1 |
| S5 | 500.00 | 498.25 | -1.75 | -.350 | 27.317 | .125 | 1 |
| S6 | 800.00 | 801.02 | 1.02 | .128 | 43.909 | .084 | 1 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



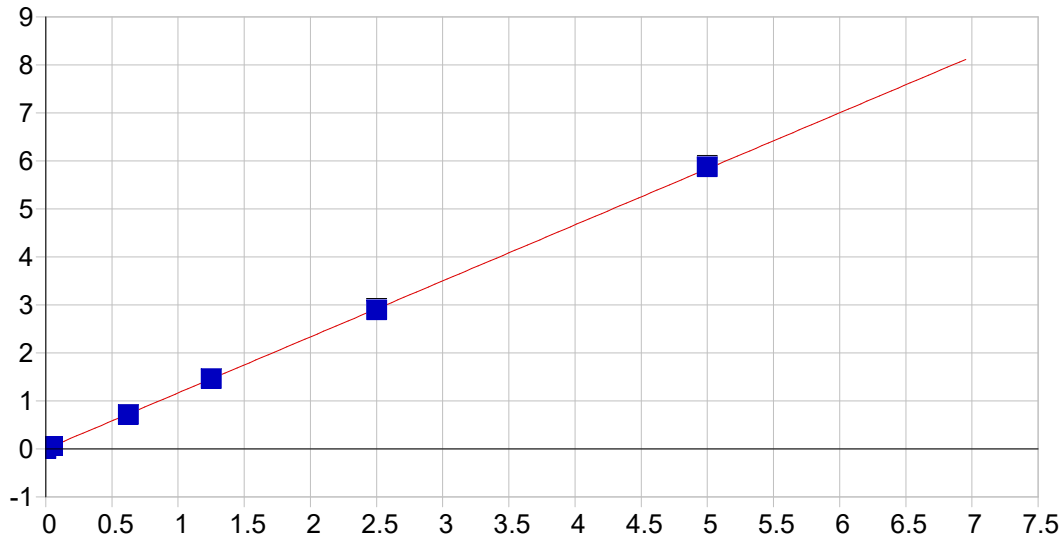

**Cr 267.716 {126}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/03/2025 12:56:42 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000110 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.351633 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999995 | Status: | OK. |
| Std Error of Est: | 0.000032 | | |
| Predicted MDL: | 0.000896 | | |
| Predicted MQL: | 0.002986 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | -.00011 | .000 | 1 |
| S1 | .01000 | .01066 | .001 | 6.64 | .00364 | .000 | 1 |
| S2 | 3.8750 | 3.8525 | -.022 | -.579 | 1.3556 | .006 | 1 |
| S3 | 7.7500 | 7.8017 | .052 | .667 | 2.7453 | .006 | 1 |
| S4 | 15.500 | 15.486 | -.014 | -.090 | 5.4495 | .006 | 1 |
| S5 | 31.000 | 30.984 | -.016 | -.051 | 10.903 | .016 | 1 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



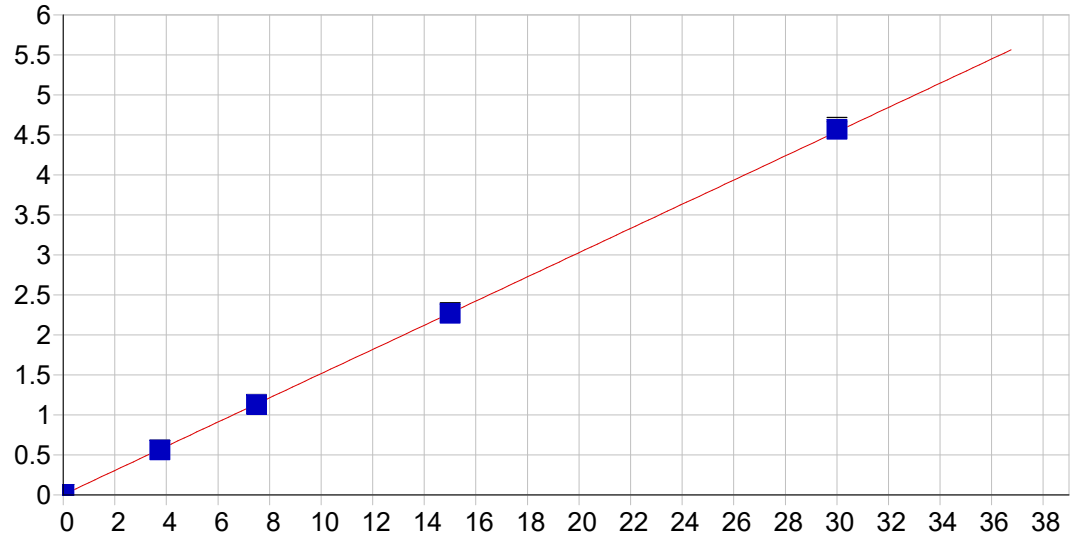

**Co 228.616 {448}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/03/2025 12:56:42 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000821 | Re-Slope: | 1.000000 |
| A1 (Gain): | 1.167159 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999965 | Status: | OK. |
| Std Error of Est: | 0.000260 | | |
| Predicted MDL: | 0.000441 | | |
| Predicted MQL: | 0.001469 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00082 | .001 | 1 |
| S1 | .05000 | .05107 | .001 | 2.15 | .05898 | .000 | 1 |
| S2 | .62500 | .61131 | -.014 | -2.19 | .71503 | .001 | 1 |
| S3 | 1.2500 | 1.2509 | .001 | .073 | 1.4639 | .003 | 1 |
| S4 | 2.5000 | 2.4808 | -.019 | -.770 | 2.9040 | .025 | 1 |
| S5 | 5.0000 | 5.0309 | .031 | .619 | 5.8899 | .015 | 1 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



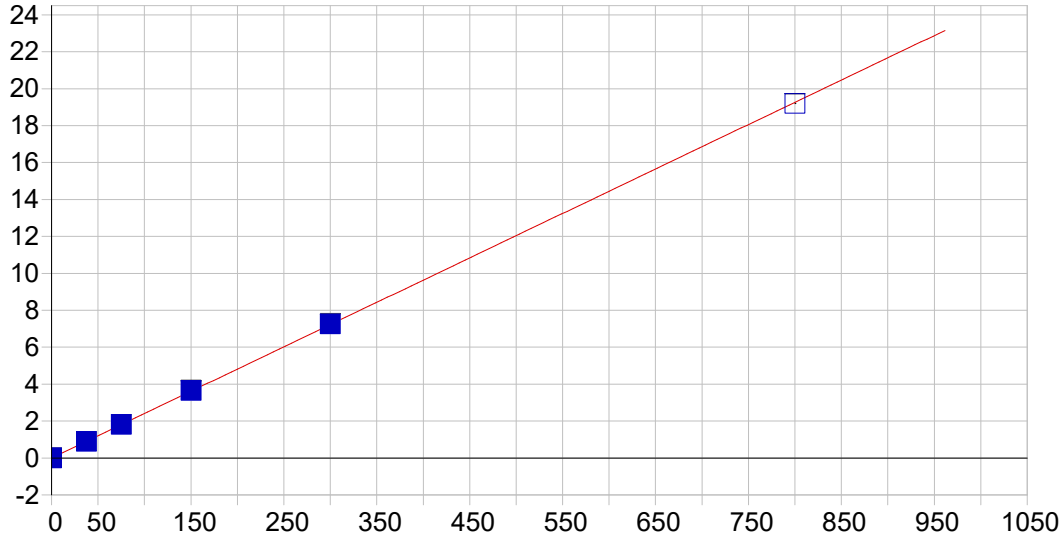

**Cu 324.754 {104}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/03/2025 12:56:42 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.003132 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.151250 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999962 | Status: | OK. |
| Std Error of Est: | 0.000060 | | |
| Predicted MDL: | 0.009883 | | |
| Predicted MQL: | 0.032942 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | .00313 | .001 | 1 |
| S1 | .02500 | .01979 | -.005 | -20.8 | .00612 | .001 | 1 |
| S2 | 3.7500 | 3.6716 | -.078 | -2.09 | .55841 | .001 | 1 |
| S3 | 7.5000 | 7.4430 | -.057 | -.761 | 1.1288 | .002 | 1 |
| S4 | 15.000 | 14.965 | -.035 | -.233 | 2.2664 | .010 | 1 |
| S5 | 30.000 | 30.176 | .176 | .585 | 4.5667 | .027 | 1 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



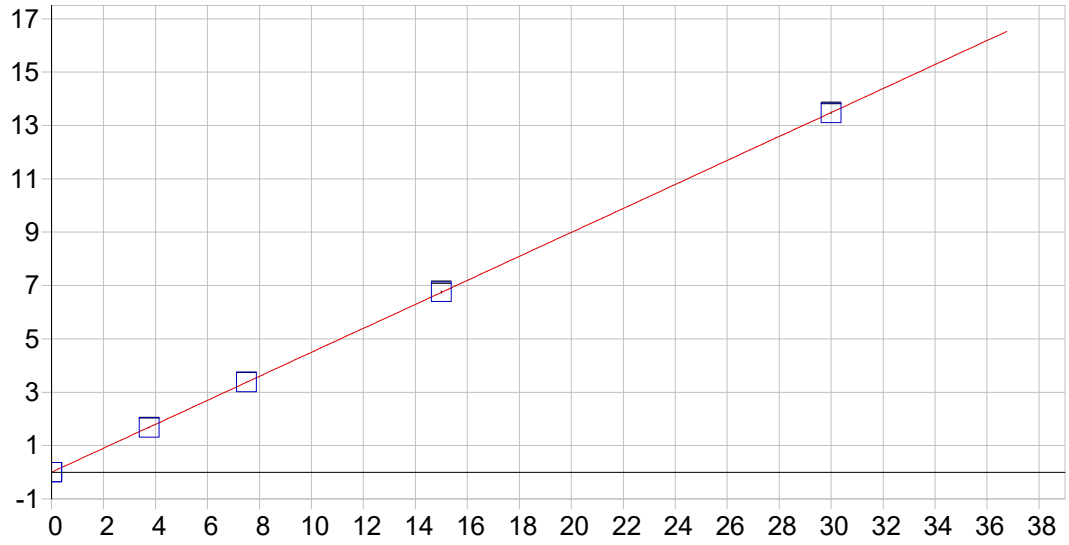

**Fe 259.837 {130}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/03/2025 12:56:42 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000208 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.024081 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999987 | Status: | OK. |
| Std Error of Est: | 0.000054 | | |
| Predicted MDL: | 0.035426 | | |
| Predicted MQL: | 0.118087 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | -.00021 | .001 | 1 |
| S1 | .10000 | .09310 | -.007 | -6.90 | .00203 | .001 | 1 |
| S2 | 37.500 | 37.287 | -.213 | -.568 | .89790 | .003 | 1 |
| S3 | 75.000 | 75.248 | .248 | .330 | 1.8122 | .003 | 1 |
| S4 | 150.00 | 151.53 | 1.53 | 1.02 | 3.6497 | .021 | 1 |
| S5 | 300.00 | 301.41 | 1.41 | .471 | 7.2597 | .032 | 1 |
| S6 | 800.00 | 797.03 | -2.97 | -.372 | 19.193 | .003 | 1 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



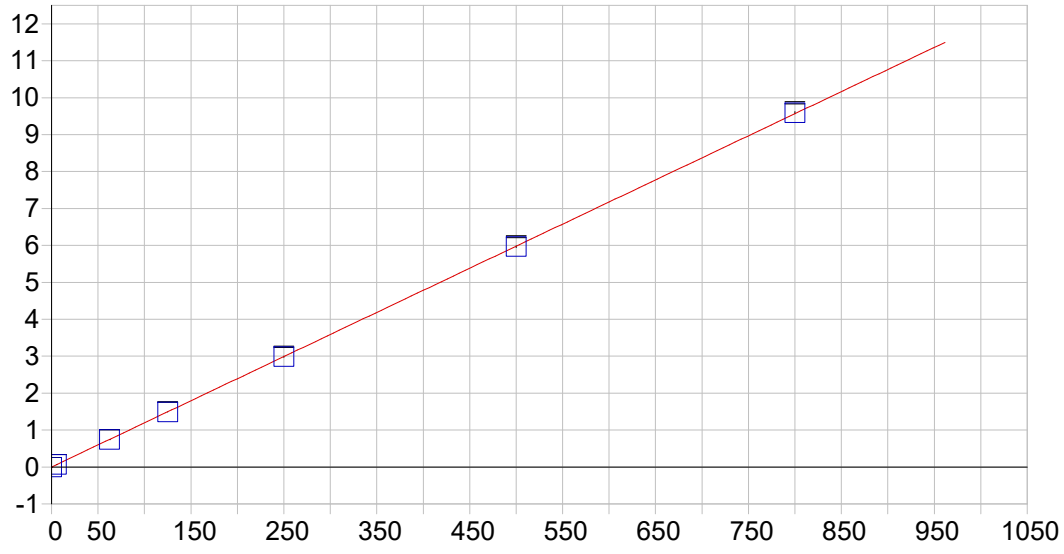

**Mn 257.610 {131}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/03/2025 12:56:42 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000088 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.449550 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999996 | Status: | OK. |
| Std Error of Est: | 0.000044 | | |
| Predicted MDL: | 0.001936 | | |
| Predicted MQL: | 0.006453 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00009 | .000 | 1 |
| S1 | .01500 | .01342 | -.002 | -10.5 | .00612 | .001 | 1 |
| S2 | 3.7500 | 3.7316 | -.018 | -.492 | 1.6776 | .008 | 1 |
| S3 | 7.5000 | 7.5135 | .013 | .179 | 3.3778 | .005 | 1 |
| S4 | 15.000 | 15.039 | .039 | .262 | 6.7610 | .043 | 1 |
| S5 | 30.000 | 29.967 | -.033 | -.109 | 13.472 | .030 | 1 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



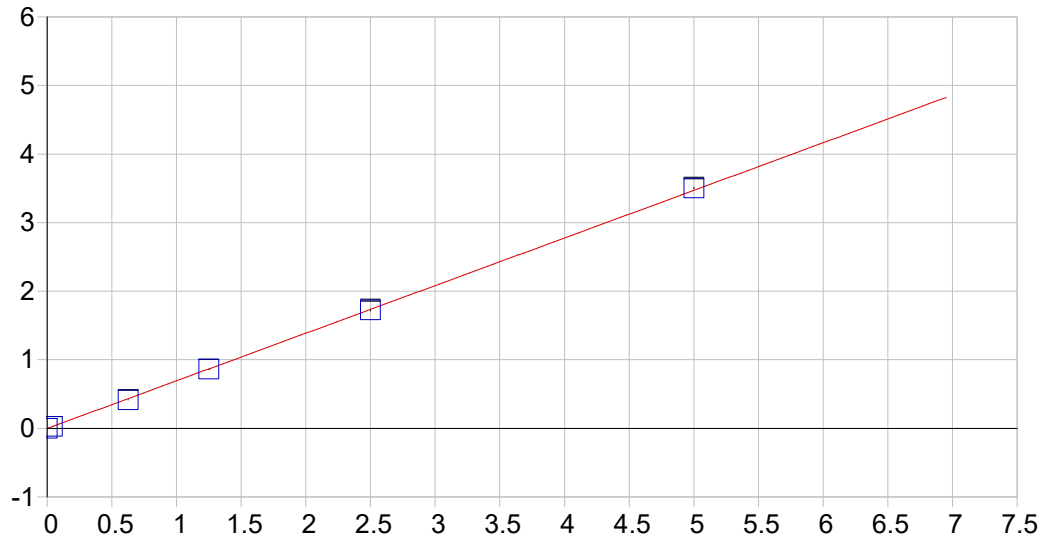

**Mg 279.079 {121}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/03/2025 12:56:42 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000058 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.011958 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999988 | Status: | OK. |
| Std Error of Est: | 0.000202 | | |
| Predicted MDL: | 0.090472 | | |
| Predicted MQL: | 0.301573 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00031 | -.000 | .000 | -.00006 | .001 | 1 |
| S1 | 5.0000 | 5.3746 | .375 | 7.49 | .06421 | .002 | 1 |
| S2 | 62.500 | 62.048 | -.452 | -.723 | .74192 | .004 | 1 |
| S3 | 125.00 | 124.38 | -.617 | -.493 | 1.4873 | .004 | 1 |
| S4 | 250.00 | 249.81 | -.193 | -.077 | 2.9872 | .015 | 1 |
| S5 | 500.00 | 499.01 | -.989 | -.198 | 5.9672 | .027 | 1 |
| S6 | 800.00 | 801.88 | 1.88 | .235 | 9.5889 | .030 | 1 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



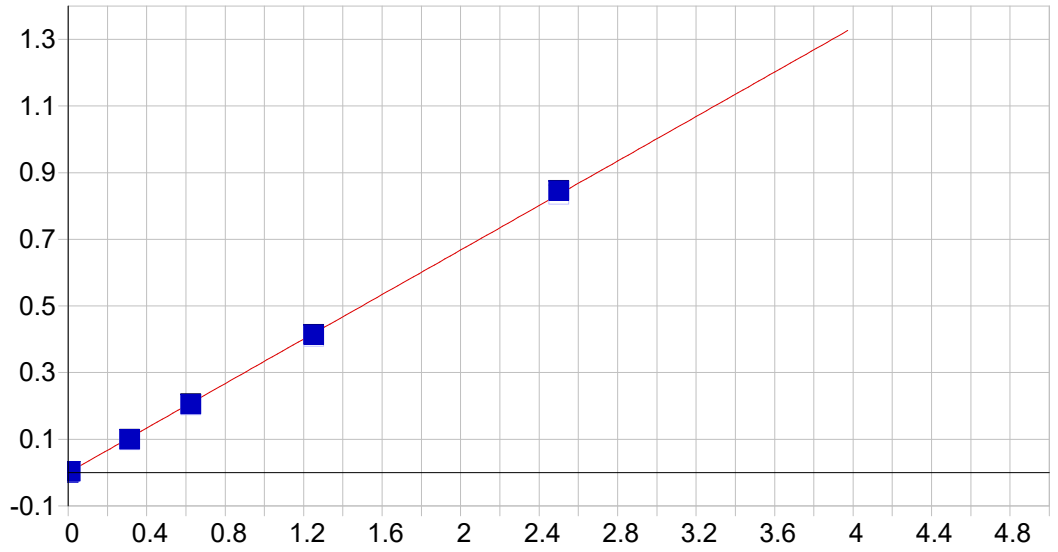

**Ni 231.604 {446}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/03/2025 12:56:42 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.001274 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.694264 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999911 | Status: | OK. |
| Std Error of Est: | 0.000220 | | |
| Predicted MDL: | 0.000939 | | |
| Predicted MQL: | 0.003131 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00127 | .001 | 1 |
| S1 | .04000 | .03851 | -.001 | -3.73 | .02546 | .000 | 1 |
| S2 | .62500 | .60027 | -.025 | -3.96 | .41547 | .001 | 1 |
| S3 | 1.2500 | 1.2413 | -.009 | -.695 | .86053 | .000 | 1 |
| S4 | 2.5000 | 2.4851 | -.015 | -.595 | 1.7241 | .015 | 1 |
| S5 | 5.0000 | 5.0498 | .050 | .996 | 3.5046 | .011 | 1 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

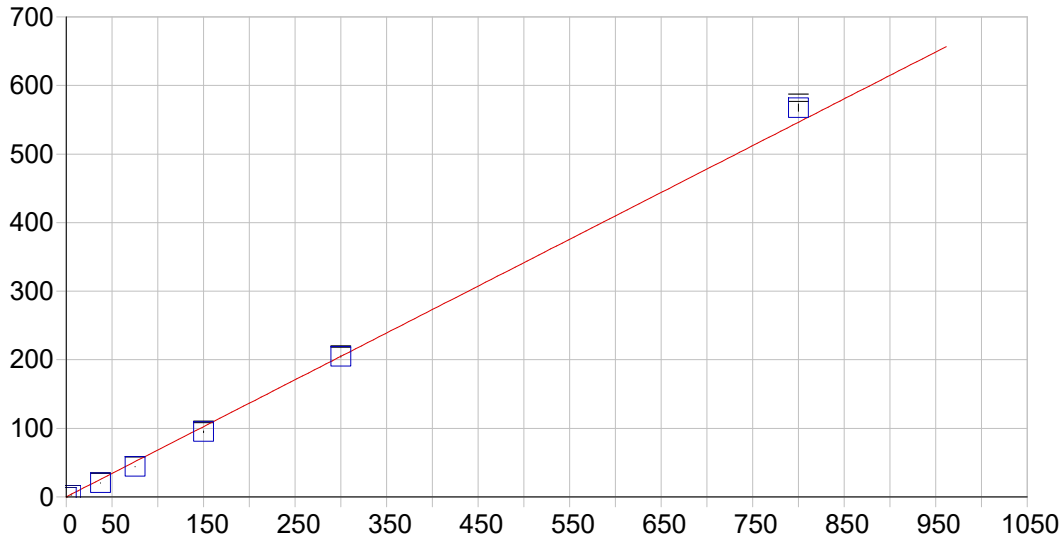



**Ag 328.068 {103}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/03/2025 12:56:42 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000171 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.333831 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999853 | Status: | OK. |
| Std Error of Est: | 0.000047 | | |
| Predicted MDL: | 0.001608 | | |
| Predicted MQL: | 0.005359 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00017 | .000 | 1 |
| S1 | .01000 | .01024 | .000 | 2.44 | .00359 | .000 | 1 |
| S2 | .31250 | .29801 | -.014 | -4.64 | .09816 | .000 | 1 |
| S3 | .62500 | .61567 | -.009 | -1.49 | .20270 | .001 | 1 |
| S4 | 1.2500 | 1.2401 | -.010 | -.792 | .40815 | .001 | 1 |
| S5 | 2.5000 | 2.5335 | .033 | 1.34 | .83391 | .001 | 1 |



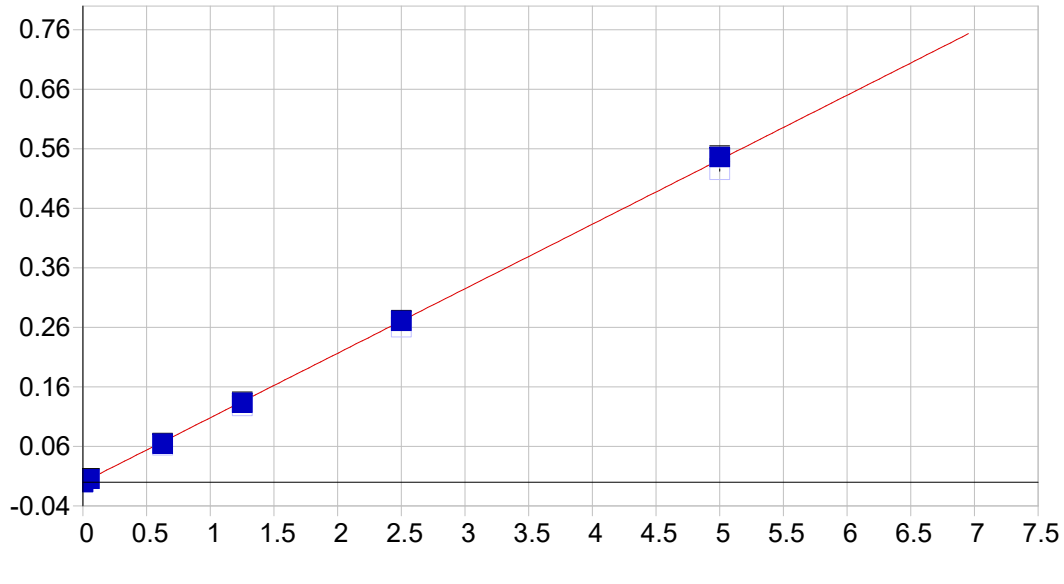

**Na 818.326 { 41}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/03/2025 12:56:42 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.102999 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.682872 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.998008 | Status: | OK. |
| Std Error of Est: | 0.133464 | | |
| Predicted MDL: | 0.019606 | | |
| Predicted MQL: | 0.065354 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00324 | .003 | .000 | .10521 | .023 | 1 |
| S1 | 5.0000 | 3.6759 | -1.32 | -26.5 | 2.6132 | .021 | 1 |
| S2 | 37.500 | 29.691 | -7.81 | -20.8 | 20.378 | .134 | 1 |
| S3 | 75.000 | 64.528 | -10.5 | -14.0 | 44.168 | .279 | 1 |
| S4 | 150.00 | 138.92 | -11.1 | -7.38 | 94.971 | 1.11 | 1 |
| S5 | 300.00 | 299.63 | -.365 | -.122 | 204.72 | .954 | 1 |
| S6 | 800.00 | 831.05 | 31.0 | 3.88 | 567.60 | 5.47 | 1 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



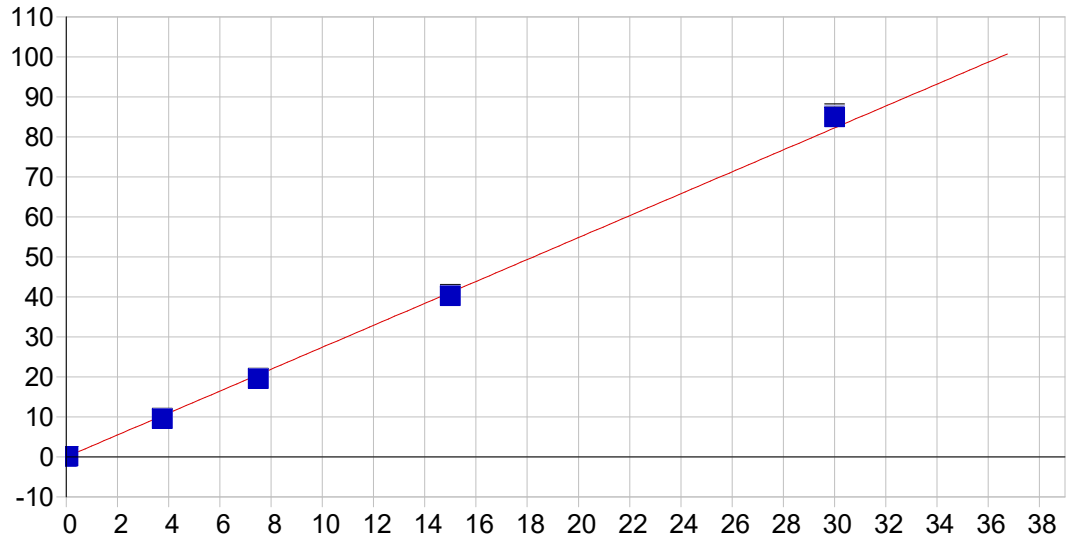

**V 292.402 {115}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/03/2025 12:56:42 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000235 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.108400 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999892 | Status: | OK. |
| Std Error of Est: | 0.000041 | | |
| Predicted MDL: | 0.011988 | | |
| Predicted MQL: | 0.039958 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00024 | .001 | 1 |
| S1 | .05000 | .05201 | .002 | 4.03 | .00539 | .001 | 1 |
| S2 | .62500 | .59736 | -.028 | -4.42 | .06180 | .001 | 1 |
| S3 | 1.2500 | 1.2331 | -.017 | -1.35 | .12800 | .001 | 1 |
| S4 | 2.5000 | 2.5007 | .001 | .030 | .25999 | .001 | 1 |
| S5 | 5.0000 | 5.0417 | .042 | .835 | .52457 | .002 | 1 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



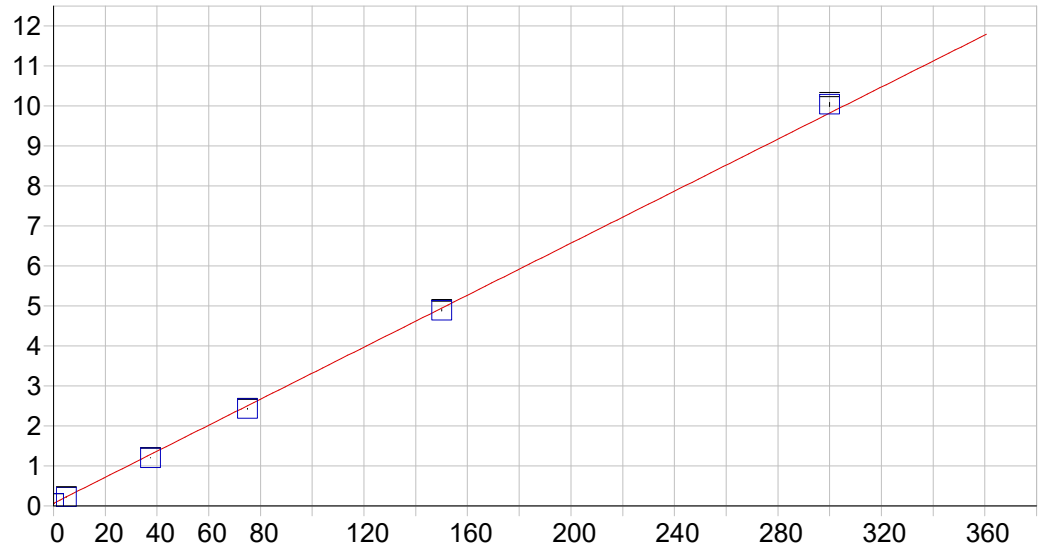

**Zn 213.856 {158}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/03/2025 12:56:42 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.002813 | Re-Slope: | 1.000000 |
| A1 (Gain): | 2.741170 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999297 | Status: | OK. |
| Std Error of Est: | 0.007355 | | |
| Predicted MDL: | 0.000618 | | |
| Predicted MQL: | 0.002059 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | .00283 | .003 | 1 |
| S1 | .06000 | .06041 | .000 | .684 | .16892 | .001 | 1 |
| S2 | 3.7500 | 3.4683 | -.282 | -7.51 | 9.5603 | .113 | 1 |
| S3 | 7.5000 | 7.1259 | -.374 | -4.99 | 19.637 | .065 | 1 |
| S4 | 15.000 | 14.664 | -.336 | -2.24 | 40.401 | .264 | 1 |
| S5 | 30.000 | 30.991 | .991 | 3.30 | 85.357 | .436 | 1 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



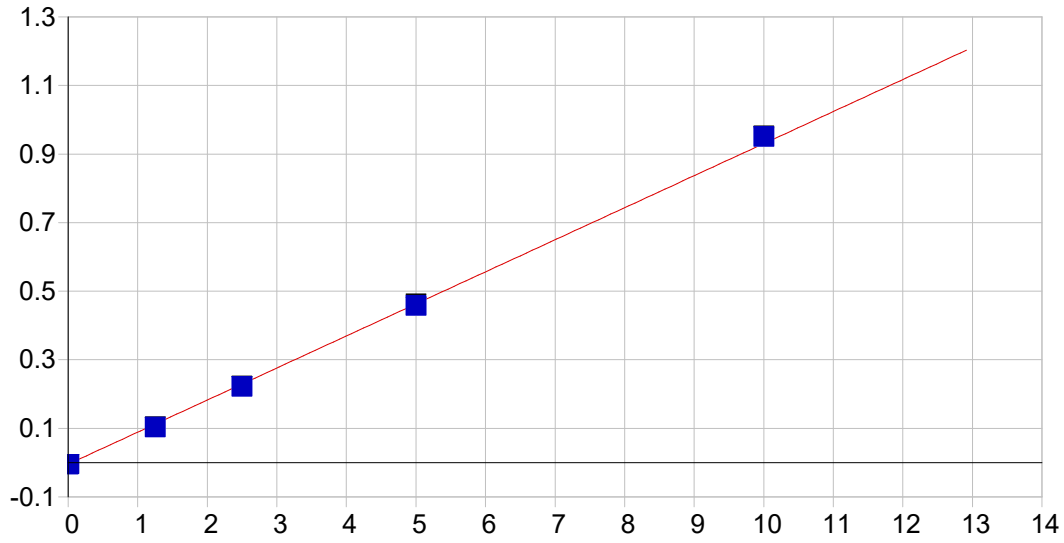

**K 769.896 { 44}**

Date of Fit: 01/03/2025 12:56:42 Type of Fit: Linear Weighting: 1/Conc

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.066515 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.032523 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999631 | Status: | OK. |
| Std Error of Est: | 0.001823 | | |
| Predicted MDL: | 0.183625 | | |
| Predicted MQL: | 0.612082 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00056 | .001 | .000 | .06653 | .007 | 1 |
| S1 | 5.0000 | 4.8812 | -.119 | -2.38 | .22526 | .011 | 1 |
| S2 | 37.500 | 34.921 | -2.58 | -6.88 | 1.2022 | .005 | 1 |
| S3 | 75.000 | 72.653 | -2.35 | -3.13 | 2.4294 | .014 | 1 |
| S4 | 150.00 | 148.38 | -1.62 | -1.08 | 4.8921 | .019 | 1 |
| S5 | 300.00 | 306.67 | 6.67 | 2.22 | 10.040 | .052 | 1 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



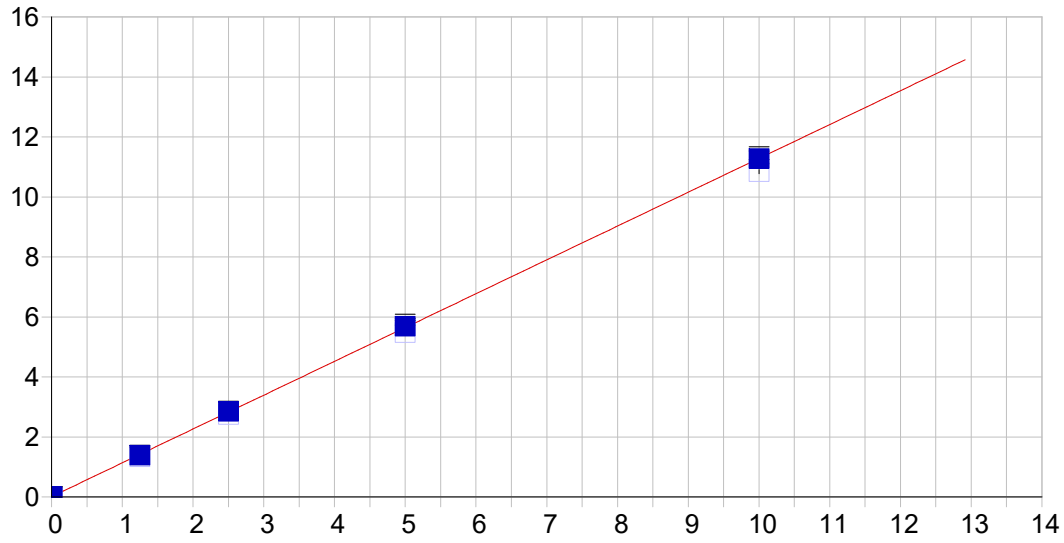

**P 177.495 {490}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/03/2025 12:56:42 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.004519 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.093497 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999611 | Status: | OK. |
| Std Error of Est: | 0.000044 | | |
| Predicted MDL: | 0.003018 | | |
| Predicted MQL: | 0.010061 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00452 | .000 | 1 |
| S1 | .01000 | .00970 | -.000 | -3.04 | -.00361 | .000 | 1 |
| S2 | 1.2500 | 1.1561 | -.094 | -7.52 | .10340 | .000 | 1 |
| S3 | 2.5000 | 2.4277 | -.072 | -2.89 | .22212 | .001 | 1 |
| S4 | 5.0000 | 4.9467 | -.053 | -1.07 | .45730 | .005 | 1 |
| S5 | 10.000 | 10.220 | .220 | 2.20 | .94964 | .002 | 1 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



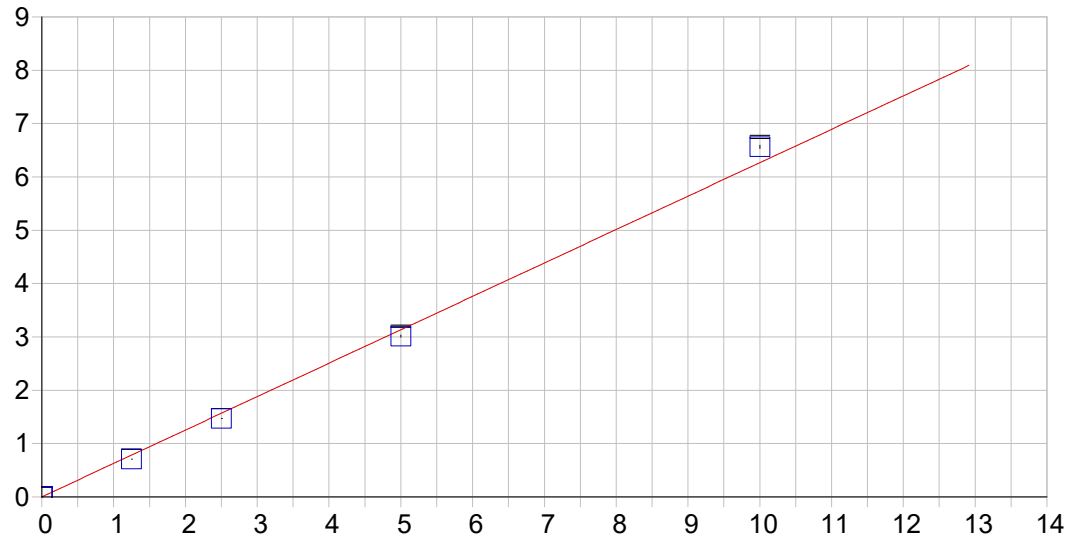

**B 249.678 {135}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/03/2025 12:56:42 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.008656 | Re-Slope: | 1.000000 |
| A1 (Gain): | 1.127550 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999460 | Status: | OK. |
| Std Error of Est: | 0.000598 | | |
| Predicted MDL: | 0.002059 | | |
| Predicted MQL: | 0.006862 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | .00867 | .002 | 1 |
| S1 | .01000 | -.00335 | -.013 | -134. | .00481 | .001 | 1 |
| S2 | 1.2500 | 1.2245 | -.026 | -2.04 | 1.3357 | .003 | 1 |
| S3 | 2.5000 | 2.5169 | .017 | .675 | 2.7394 | .016 | 1 |
| S4 | 5.0000 | 5.0355 | .036 | .711 | 5.4721 | .072 | 1 |
| S5 | 10.000 | 9.9869 | -.013 | -.131 | 10.841 | .066 | 1 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



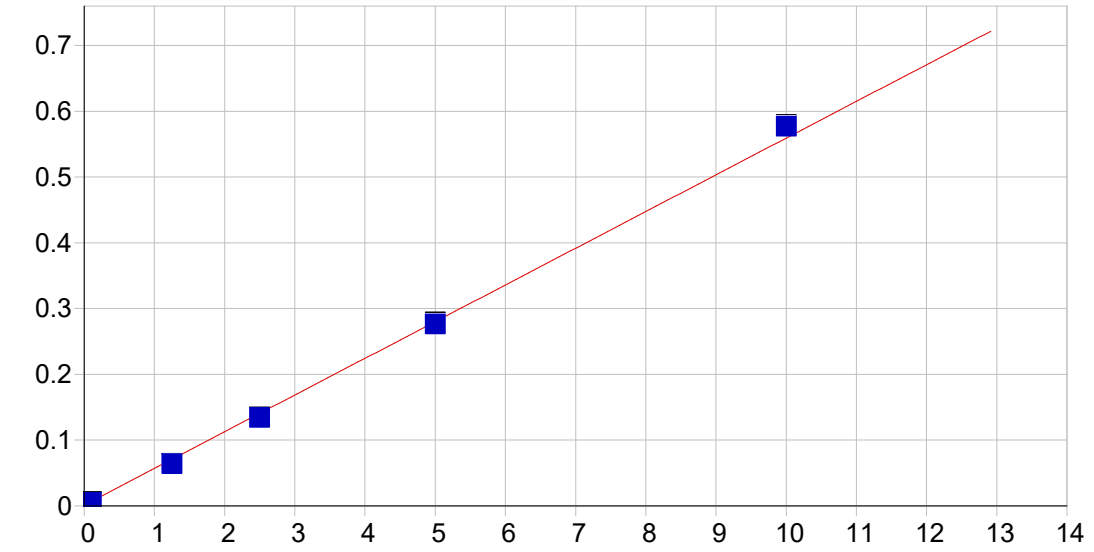

**Mo 202.030 {467}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/03/2025 12:56:42 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.001115 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.626497 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.998629 | Status: | OK. |
| Std Error of Est: | 0.000551 | | |
| Predicted MDL: | 0.000765 | | |
| Predicted MQL: | 0.002549 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00112 | .000 | 1 |
| S1 | .01000 | .01041 | .000 | 4.14 | .00764 | .000 | 1 |
| S2 | 1.2500 | 1.1265 | -.123 | -9.88 | .70686 | .001 | 1 |
| S3 | 2.5000 | 2.3431 | -.157 | -6.28 | 1.4690 | .002 | 1 |
| S4 | 5.0000 | 4.8091 | -.191 | -3.82 | 3.0140 | .019 | 1 |
| S5 | 10.000 | 10.471 | .471 | 4.71 | 6.5611 | .030 | 1 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



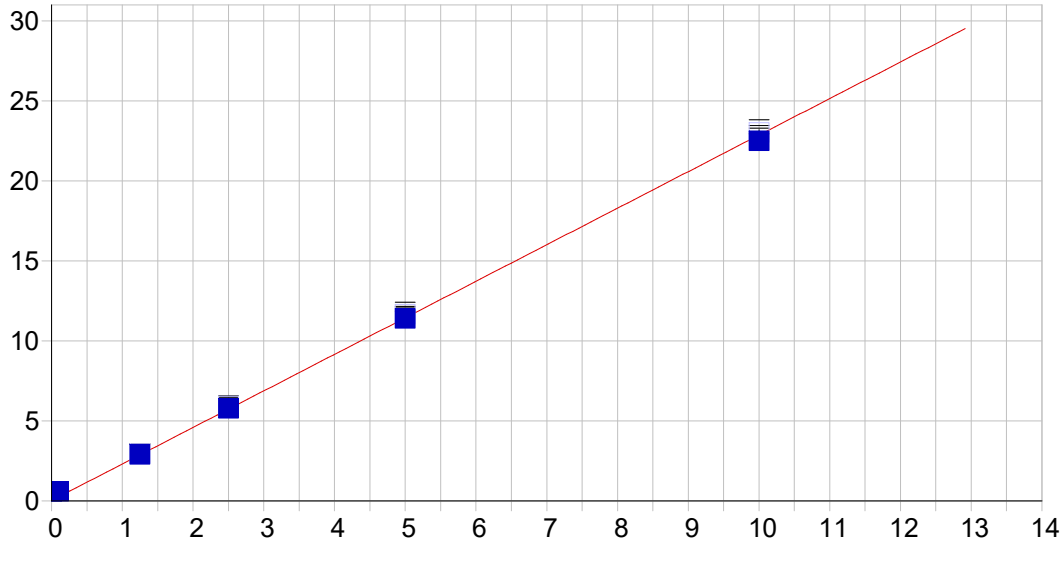

**S 182.034 {485}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/03/2025 12:56:42 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.001153 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.055803 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999184 | Status: | OK. |
| Std Error of Est: | 0.000120 | | |
| Predicted MDL: | 0.004528 | | |
| Predicted MQL: | 0.015092 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00003 | .000 | .000 | .00115 | .000 | 1 |
| S1 | .10000 | .08254 | -.017 | -17.5 | .00576 | .000 | 1 |
| S2 | 1.2500 | 1.1280 | -.122 | -9.76 | .06433 | .000 | 1 |
| S3 | 2.5000 | 2.3876 | -.112 | -4.50 | .13483 | .000 | 1 |
| S4 | 5.0000 | 4.9338 | -.066 | -1.32 | .27737 | .002 | 1 |
| S5 | 10.000 | 10.318 | .318 | 3.18 | .57872 | .001 | 1 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



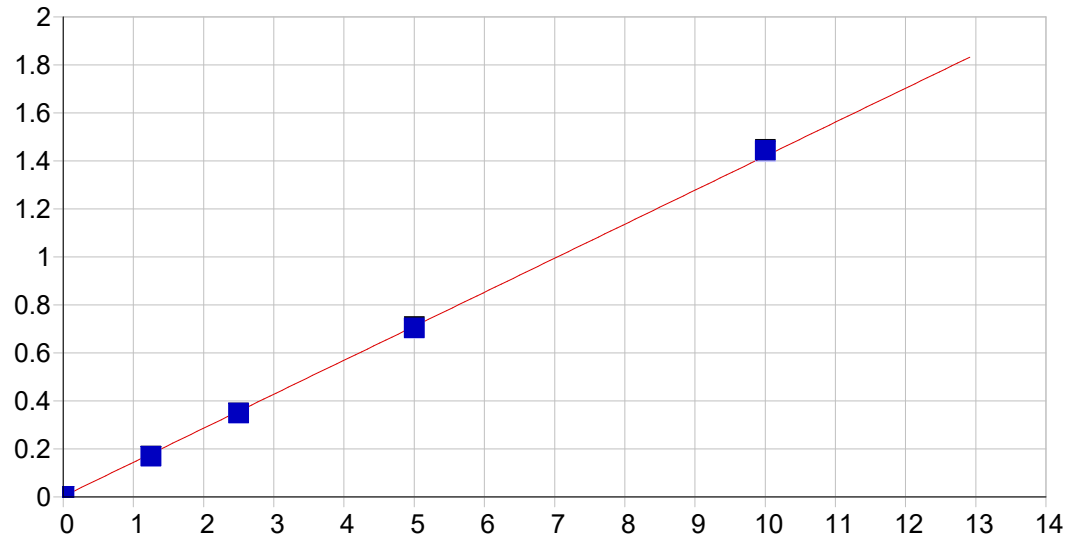

**Si 251.611 {134}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/03/2025 12:56:42 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.022974 | Re-Slope: | 1.000000 |
| A1 (Gain): | 2.283946 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.994217 | Status: | OK. |
| Std Error of Est: | 0.013407 | | |
| Predicted MDL: | 0.001043 | | |
| Predicted MQL: | 0.003478 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00015 | -.000 | .000 | .02263 | .001 | 1 |
| S1 | .10000 | .25066 | .151 | 151. | .59869 | .004 | 1 |
| S2 | 1.2500 | 1.2581 | .008 | .650 | 2.9613 | .005 | 1 |
| S3 | 2.5000 | 2.5213 | .021 | .853 | 5.9111 | .036 | 1 |
| S4 | 5.0000 | 4.9774 | -.023 | -.453 | 11.650 | .141 | 1 |
| S5 | 10.000 | 9.8438 | -.156 | -1.56 | 23.024 | .179 | 1 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

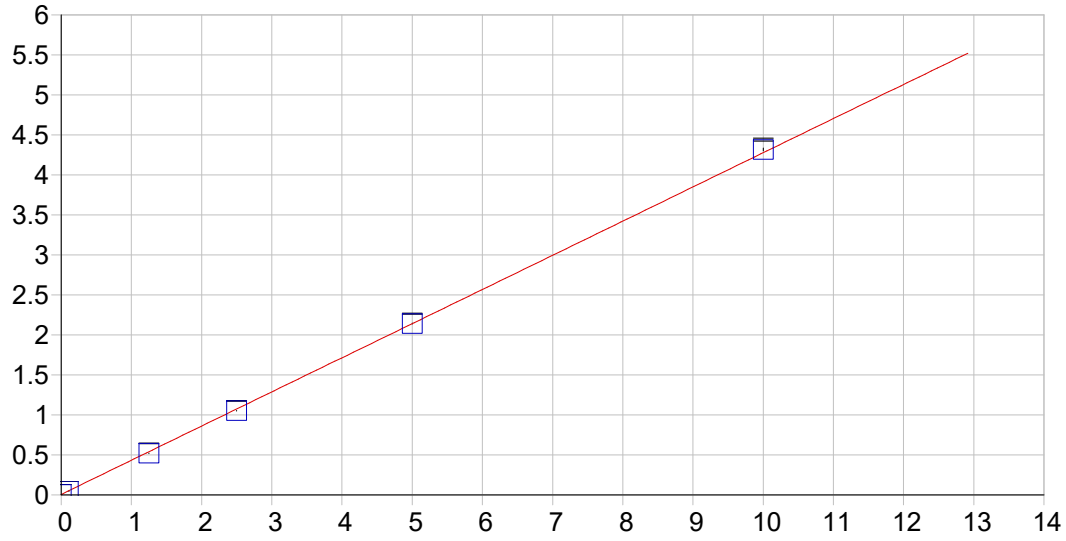



**Sn 189.989 {478}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/03/2025 12:56:42 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.002549 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.141695 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999751 | Status: | OK. |
| Std Error of Est: | 0.000044 | | |
| Predicted MDL: | 0.001604 | | |
| Predicted MQL: | 0.005348 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00255 | .000 | 1 |
| S1 | .00700 | .00726 | .000 | 3.70 | .00353 | .000 | 1 |
| S2 | 1.2500 | 1.1761 | -.074 | -5.91 | .16830 | .000 | 1 |
| S3 | 2.5000 | 2.4432 | -.057 | -2.27 | .34696 | .000 | 1 |
| S4 | 5.0000 | 4.9530 | -.047 | -.940 | .70081 | .006 | 1 |
| S5 | 10.000 | 10.178 | .178 | 1.78 | 1.4375 | .004 | 1 |



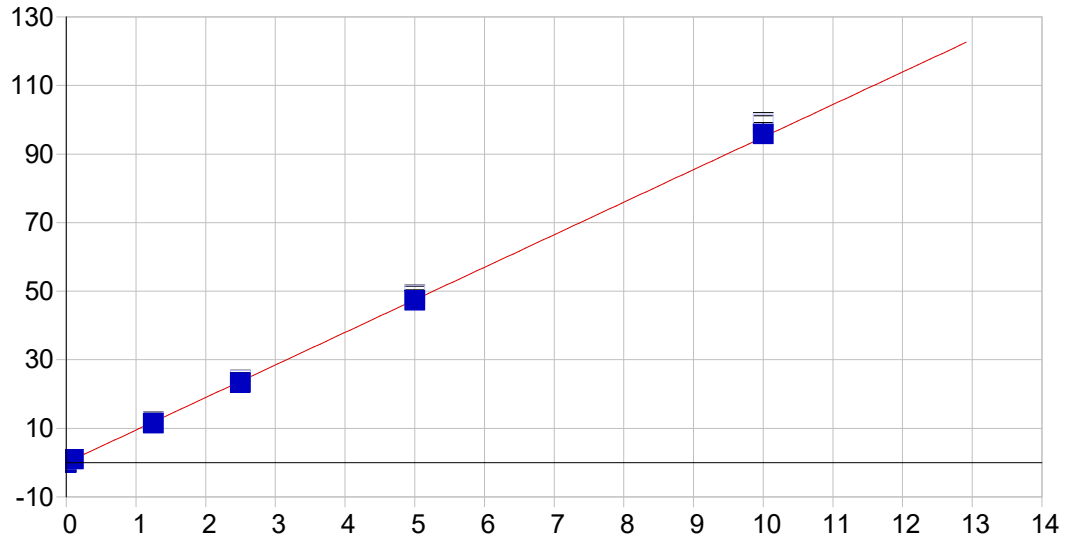

**Ti 336.121 {100}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/03/2025 12:56:42 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.005971 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.427042 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999902 | Status: | OK. |
| Std Error of Est: | 0.000317 | | |
| Predicted MDL: | 0.004656 | | |
| Predicted MQL: | 0.015522 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | .00597 | .002 | 1 |
| S1 | .10000 | .09665 | -.003 | -3.35 | .04724 | .001 | 1 |
| S2 | 1.2500 | 1.2054 | -.045 | -3.57 | .52073 | .004 | 1 |
| S3 | 2.5000 | 2.4492 | -.051 | -2.03 | 1.0519 | .004 | 1 |
| S4 | 5.0000 | 5.0017 | .002 | .034 | 2.1419 | .005 | 1 |
| S5 | 10.000 | 10.097 | .097 | .971 | 4.3178 | .017 | 1 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5



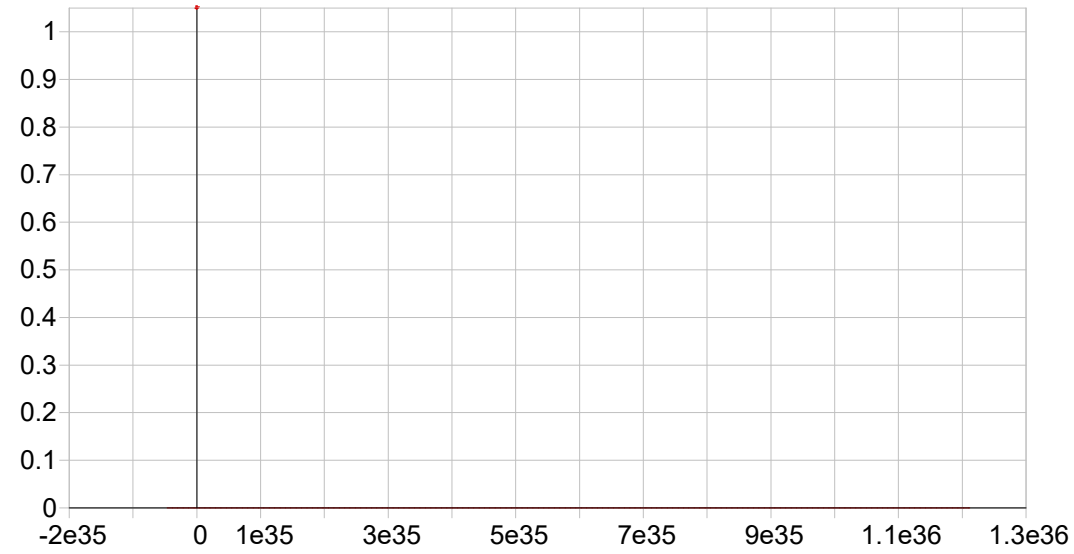

**Sr 407.771 { 83}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/03/2025 12:56:42 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.001853 | Re-Slope: | 1.000000 |
| A1 (Gain): | 9.493908 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999900 | Status: | OK. |
| Std Error of Est: | 0.007341 | | |
| Predicted MDL: | 0.000288 | | |
| Predicted MQL: | 0.000960 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | -.00189 | .003 | 1 |
| S1 | .10000 | .10882 | .009 | 8.82 | 1.0322 | .006 | 1 |
| S2 | 1.2500 | 1.2090 | -.041 | -3.28 | 11.832 | .024 | 1 |
| S3 | 2.5000 | 2.4535 | -.047 | -1.86 | 24.003 | .073 | 1 |
| S4 | 5.0000 | 4.9821 | -.018 | -.358 | 48.722 | .205 | 1 |
| S5 | 10.000 | 10.097 | .097 | .969 | 98.705 | .476 | 1 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

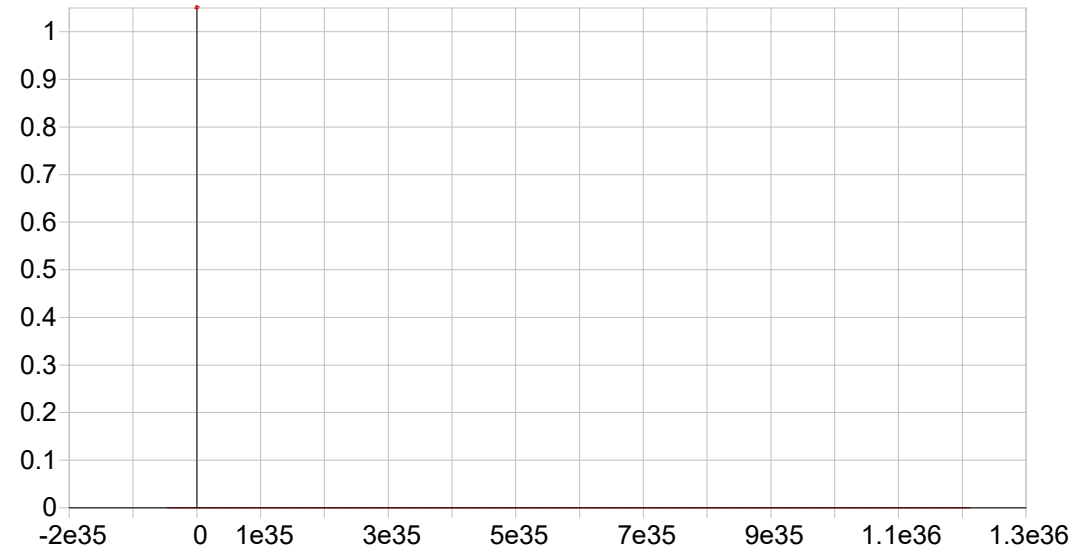



**Y 224.306 {450}***

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | <not fit> | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000000 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000000 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.000000 | Status: | Warning Zero Gain |
| Std Error of Est: | 0.000000 | | |
| Predicted MDL: | n/a | | |
| Predicted MQL: | n/a | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|




**Y 360.073 { 94}***

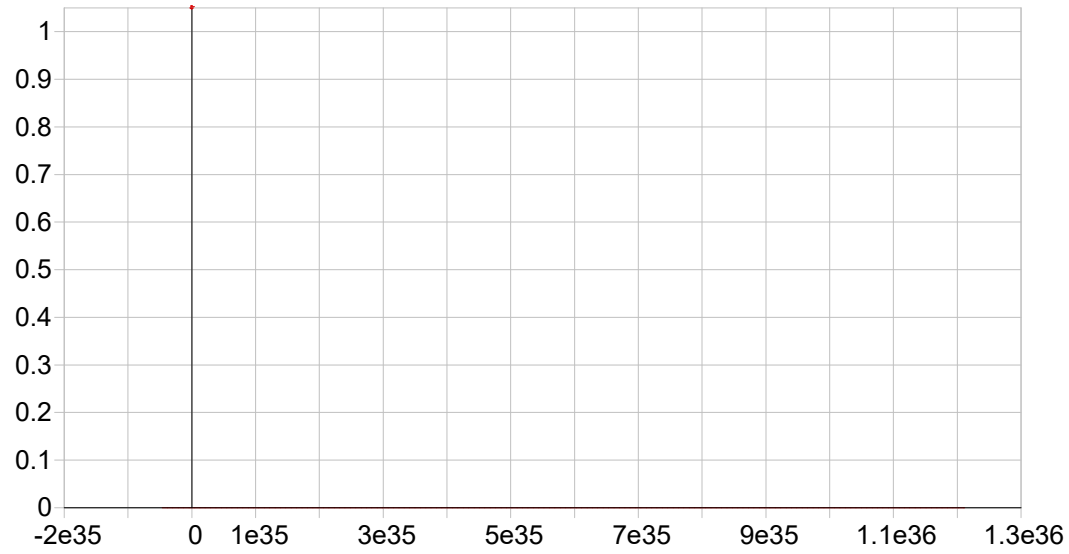
| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | <not fit> | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000000 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000000 | Y-int: | 0.000000 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

| | | | | | |
|---|---|---|---|---|---|
| A2 (Curvature): | 0.000000 | | | | |
| n (Exponent): | 1.000000 | | | | |
| Correlation: | 0.000000 | Status: | Warning | Zero Gain | |
| Std Error of Est: | 0.000000 | | | | |
| Predicted MDL: | n/a | | | | |
| Predicted MQL: | n/a | | | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|



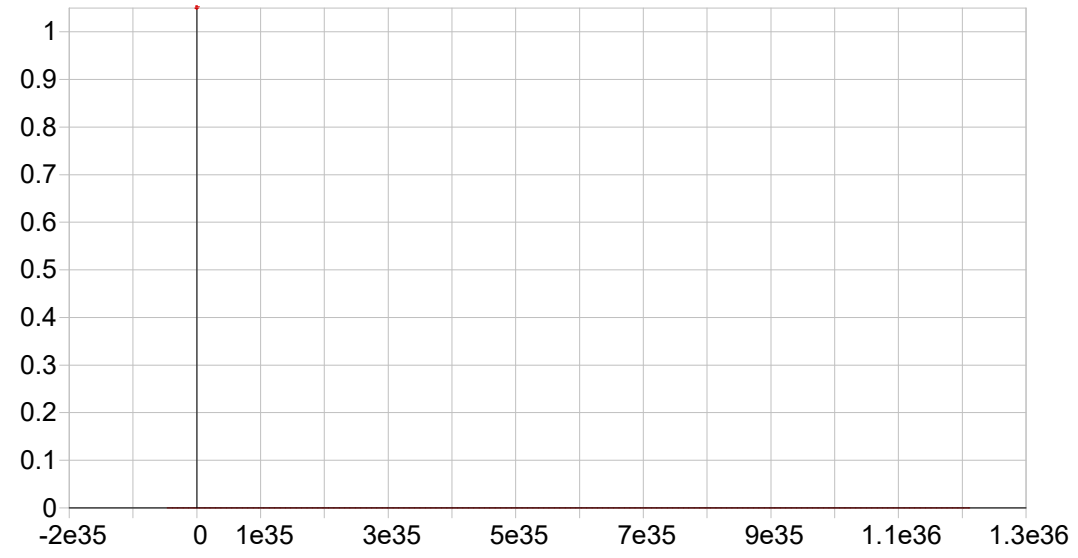

**Y 371.030 { 91}***

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | <not fit> | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000000 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000000 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.000000 | Status: | Warning Zero Gain |
| Std Error of Est: | 0.000000 | | |
| Predicted MDL: | n/a | | |
| Predicted MQL: | n/a | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|

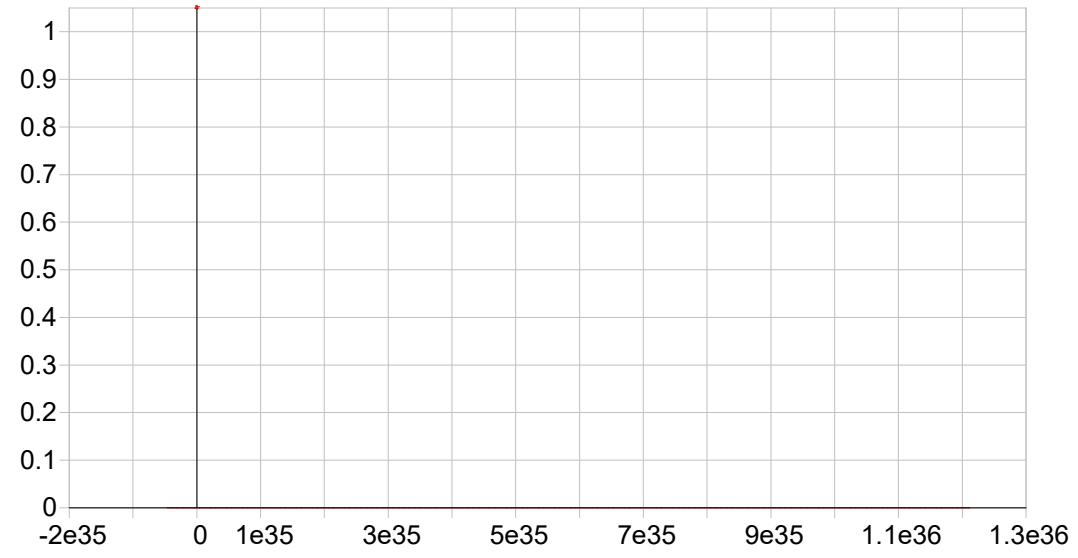
Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5




**Y 224.306 {150}***

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | <not fit> | Type of Fit: | Linear | Weighting: | 1/Conc |
| A0 (Offset): | 0.000000 | | Re-Slope: | 1.000000 | |
| A1 (Gain): | 0.000000 | | Y-int: | 0.000000 | |
| A2 (Curvature): | 0.000000 | | | | |
| n (Exponent): | 1.000000 | | | | |
| Correlation: | 0.000000 | | Status: | Warning | Zero Gain |
| Std Error of Est: | 0.000000 | | | | |
| Predicted MDL: | n/a | | | | |
| Predicted MQL: | n/a | | | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|

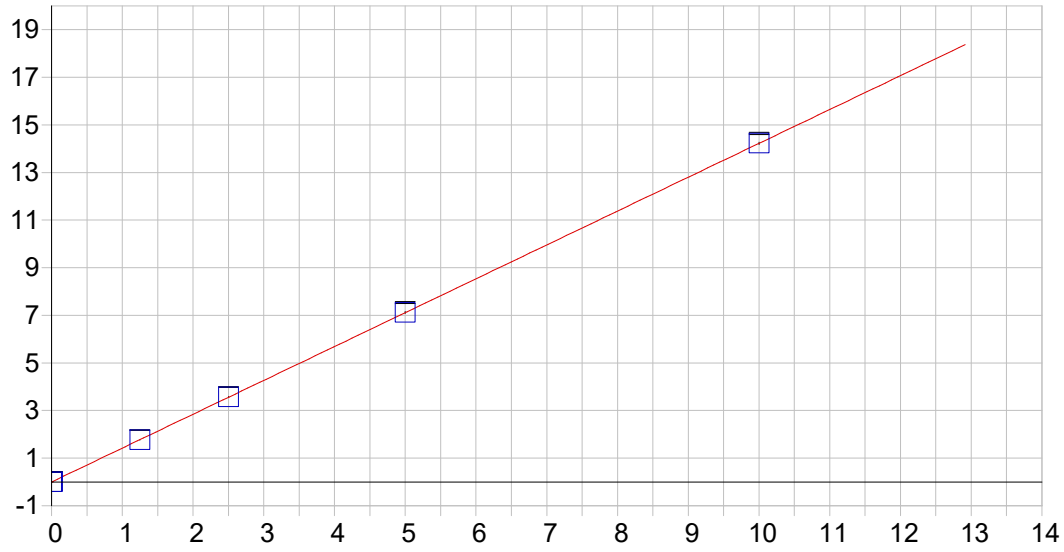



**In 230.606 {446}***

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | <not fit> | Type of Fit: | Linear | Weighting: | 1/Conc |
| A0 (Offset): | 0.000000 | | Re-Slope: | 1.000000 | |
| A1 (Gain): | 0.000000 | | Y-int: | 0.000000 | |

| | | | | | |
|---|---|---|---|---|---|
| A2 (Curvature): | 0.000000 | | | | |
| n (Exponent): | 1.000000 | | | | |
| Correlation: | 0.000000 | Status: | Warning | Zero Gain | |
| Std Error of Est: | 0.000000 | | | | |
| Predicted MDL: | n/a | | | | |
| Predicted MQL: | n/a | | | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|




**Li 670.784 { 50}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/03/2025 12:56:42 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.001239 | Re-Slope: | 1.000000 |
| A1 (Gain): | 1.422611 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999899 | Status: | OK. |
| Std Error of Est: | 0.000415 | | |
| Predicted MDL: | 0.004002 | | |
| Predicted MQL: | 0.013339 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | -.00123 | .007 | 1 |
| S5 | 10.000 | 10.002 | .002 | .016 | 14.227 | .049 | 1 |
| S4 | 5.0000 | 5.0033 | .003 | .065 | 7.1165 | .040 | 1 |
| S3 | 2.5000 | 2.5123 | .012 | .493 | 3.5728 | .010 | 1 |
| S2 | 1.2500 | 1.2401 | -.010 | -.789 | 1.7630 | .010 | 1 |
| S1 | .01500 | .00761 | -.007 | -49.3 | .00959 | .004 | 1 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: S0 Acquired: 01/03/2025 12:30:06 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S0 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | .18942 | -.00045 | -.00068 | -.00013 | -.00003 | -.00182 | .16789 | .00495 |
| Stddev | .73516 | .00019 | .00084 | .00013 | .00028 | .00132 | .01289 | .00085 |
| %RSD | 388.12 | 42.871 | 124.62 | 103.21 | 913.66 | 72.647 | 7.6797 | 17.133 |
| #1 | .51771 | -.00063 | .00027 | -.00016 | -.00029 | -.00182 | .17402 | .00464 |
| #2 | .70324 | -.00046 | -.00097 | .00002 | .00027 | -.00313 | .15307 | .00431 |
| #3 | -.65269 | -.00025 | -.00133 | -.00024 | -.00007 | -.00050 | .17657 | .00592 |

| Elem | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 | Mn2576 | Mg2790 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | .00050 | .01154 | -.00011 | -.00082 | .00313 | -.00021 | .00009 | -.00006 |
| Stddev | .00070 | .00374 | .00029 | .00052 | .00124 | .00138 | .00046 | .00061 |
| %RSD | 139.75 | 32.422 | 266.35 | 63.572 | 39.727 | 661.19 | 516.90 | 987.55 |
| #1 | .00126 | .01560 | -.00045 | -.00026 | .00170 | .00138 | .00059 | -.00075 |
| #2 | .00038 | .01078 | .00009 | -.00129 | .00392 | -.00106 | -.00032 | .00018 |
| #3 | -.00013 | .00824 | .00003 | -.00092 | .00378 | -.00095 | -.00001 | .00038 |

| Elem | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | -.00127 | .00017 | .10521 | -.00024 | .00283 | .06653 | -.00452 | .00867 |
| Stddev | .00083 | .00025 | .02252 | .00077 | .00289 | .00672 | .00048 | .00227 |
| %RSD | 64.946 | 146.34 | 21.405 | 326.65 | 101.96 | 10.103 | 10.520 | 26.163 |
| #1 | -.00217 | .00038 | .08203 | -.00111 | -.00009 | .07404 | -.00400 | .00636 |
| #2 | -.00109 | .00024 | .12701 | .00032 | .00290 | .06108 | -.00494 | .00877 |
| #3 | -.00055 | -.00011 | .10661 | .00009 | .00568 | .06448 | -.00461 | .01089 |

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | .00112 | .00115 | .02263 | .00255 | .00597 | -.00189 | -.00123 |
| Stddev | .00025 | .00011 | .00105 | .00015 | .00246 | .00318 | .00694 |
| %RSD | 22.223 | 9.1721 | 4.6347 | 5.8331 | 41.198 | 167.93 | 564.67 |
| #1 | .00138 | .00121 | .02229 | .00272 | .00755 | -.00246 | .00663 |
| #2 | .00089 | .00122 | .02381 | .00247 | .00314 | .00153 | -.00381 |
| #3 | .00108 | .00103 | .02180 | .00246 | .00724 | -.00475 | -.00650 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: S0 Acquired: 01/03/2025 12:30:06 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S0 Custom ID2: Custom ID3:
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1824.8 | 18450. | 1803.1 | 1377.2 | 2021.2 |
| Stddev | 9.7 | 147. | 42.2 | 7.2 | 5.7 |
| %RSD | .53010 | .79791 | 2.3388 | .52281 | .28371 |
| | | | | | |
| #1 | 1835.0 | 18606. | 1754.7 | 1382.9 | 2026.6 |
| #2 | 1815.8 | 18430. | 1822.1 | 1379.6 | 2015.1 |
| #3 | 1823.5 | 18314. | 1832.3 | 1369.1 | 2021.8 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: S1 Acquired: 01/03/2025 12:34:13 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S01 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1.8764 | .00205 | .00237 | .00198 | .00985 | .01766 | .86692 | .07818 |
| Stddev | .3376 | .00027 | .00042 | .00065 | .00028 | .00619 | .00785 | .00035 |
| %RSD | 17.990 | 13.099 | 17.706 | 32.805 | 2.8941 | 35.056 | .90573 | .44755 |
| #1 | 1.8125 | .00180 | .00200 | .00127 | .00988 | .01714 | .87553 | .07858 |
| #2 | 1.5753 | .00201 | .00283 | .00254 | .01011 | .01175 | .86015 | .07805 |
| #3 | 2.2414 | .00233 | .00229 | .00214 | .00955 | .02410 | .86509 | .07792 |

| Elem | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 | Mn2576 | Mg2790 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | .02291 | .29663 | .00364 | .05898 | .00612 | .00203 | .00612 | .06421 |
| Stddev | .00038 | .00275 | .00008 | .00050 | .00103 | .00077 | .00137 | .00181 |
| %RSD | 1.6700 | .92738 | 2.1600 | .84645 | 16.818 | 37.897 | 22.364 | 2.8175 |
| #1 | .02319 | .29980 | .00373 | .05950 | .00661 | .00274 | .00599 | .06531 |
| #2 | .02247 | .29525 | .00358 | .05850 | .00682 | .00121 | .00755 | .06520 |
| #3 | .02307 | .29485 | .00361 | .05894 | .00494 | .00215 | .00482 | .06212 |

| Elem | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | .02546 | .00359 | 2.6132 | .00539 | .16892 | .22526 | -.00361 | .00481 |
| Stddev | .00039 | .00030 | .0210 | .00141 | .00080 | .01069 | .00014 | .00101 |
| %RSD | 1.5301 | 8.3398 | .80184 | 26.199 | .47594 | 4.7437 | 3.8376 | 20.938 |
| #1 | .02524 | .00354 | 2.6359 | .00376 | .16939 | .23197 | -.00345 | .00421 |
| #2 | .02523 | .00332 | 2.5945 | .00628 | .16799 | .23088 | -.00369 | .00426 |
| #3 | .02591 | .00391 | 2.6092 | .00613 | .16937 | .21294 | -.00369 | .00598 |

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | .00764 | .00576 | .59869 | .00353 | .04724 | 1.0322 | .00959 |
| Stddev | .00039 | .00033 | .00383 | .00015 | .00068 | .0065 | .00447 |
| %RSD | 5.1646 | 5.7329 | .63948 | 4.3733 | 1.4319 | .62491 | 46.593 |
| #1 | .00741 | .00539 | .60263 | .00348 | .04646 | 1.0391 | .01080 |
| #2 | .00809 | .00602 | .59846 | .00341 | .04761 | 1.0310 | .01333 |
| #3 | .00742 | .00587 | .59498 | .00371 | .04765 | 1.0264 | .00464 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: S1 Acquired: 01/03/2025 12:34:13 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S01 Custom ID2: Custom ID3:
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1820.7 | 18414. | 1818.6 | 1356.0 | 2032.1 |
| Stddev | 6.2 | 95. | 9.8 | 6.2 | 3.6 |
| %RSD | .33854 | .51445 | .54150 | .46037 | .17955 |
| | | | | | |
| #1 | 1813.9 | 18424. | 1808.1 | 1352.8 | 2028.3 |
| #2 | 1822.5 | 18503. | 1827.5 | 1363.2 | 2032.5 |
| #3 | 1825.8 | 18315. | 1820.3 | 1352.1 | 2035.5 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: S2 Acquired: 01/03/2025 12:38:19 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S02 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 168.96 | .11620 | 1.6925 | .07957 | .19884 | 3.7965 | 8.3892 | 1.7160 |
| Stddev | .25 | .00033 | .0014 | .00025 | .00060 | .0124 | .0485 | .0032 |
| %RSD | .14865 | .28735 | .08196 | .31365 | .30340 | .32692 | .57818 | .18754 |
| | | | | | | | | |
| #1 | 168.98 | .11657 | 1.6929 | .07946 | .19891 | 3.8051 | 8.4374 | 1.7133 |
| #2 | 168.70 | .11591 | 1.6909 | .07940 | .19941 | 3.7823 | 8.3898 | 1.7151 |
| #3 | 169.20 | .11612 | 1.6936 | .07986 | .19821 | 3.8022 | 8.3404 | 1.7195 |

| Elem | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 | Mn2576 | Mg2790 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2.6826 | 3.4125 | 1.3556 | .71503 | .55841 | .89790 | 1.6776 | .74192 |
| Stddev | .0017 | .0112 | .0058 | .00110 | .00053 | .00267 | .0082 | .00352 |
| %RSD | .06273 | .32808 | .42876 | .15390 | .09504 | .29723 | .48995 | .47381 |
| | | | | | | | | |
| #1 | 2.6846 | 3.4233 | 1.3599 | .71605 | .55780 | .90042 | 1.6865 | .74597 |
| #2 | 2.6818 | 3.4132 | 1.3579 | .71387 | .55879 | .89511 | 1.6760 | .73964 |
| #3 | 2.6815 | 3.4010 | 1.3490 | .71518 | .55863 | .89817 | 1.6703 | .74015 |

| Elem | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | .41547 | .09816 | 20.378 | .06180 | 9.5603 | 1.2022 | .10340 | 1.3357 |
| Stddev | .00098 | .00015 | .134 | .00102 | .1128 | .0053 | .00046 | .0026 |
| %RSD | .23504 | .15473 | .65919 | 1.6555 | 1.1794 | .43845 | .44959 | .19596 |
| | | | | | | | | |
| #1 | .41660 | .09824 | 20.483 | .06087 | 9.6857 | 1.2066 | .10297 | 1.3334 |
| #2 | .41491 | .09824 | 20.425 | .06290 | 9.5280 | 1.2038 | .10333 | 1.3386 |
| #3 | .41490 | .09798 | 20.227 | .06164 | 9.4672 | 1.1964 | .10390 | 1.3351 |

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | .70686 | .06433 | 2.9613 | .16830 | .52073 | 11.832 | 1.7630 |
| Stddev | .00111 | .00027 | .0046 | .00034 | .00352 | .024 | .0098 |
| %RSD | .15667 | .41387 | .15651 | .20237 | .67691 | .20140 | .55363 |
| | | | | | | | |
| #1 | .70807 | .06453 | 2.9594 | .16864 | .51792 | 11.857 | 1.7739 |
| #2 | .70662 | .06442 | 2.9666 | .16832 | .51958 | 11.810 | 1.7599 |
| #3 | .70590 | .06402 | 2.9579 | .16796 | .52468 | 11.830 | 1.7552 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: S2 Acquired: 01/03/2025 12:38:19 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S02 Custom ID2: Custom ID3:
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1732.4 | 17980. | 1781.5 | 1298.5 | 1852.5 |
| Stddev | 3.2 | 211. | 13.6 | 18.4 | 4.0 |
| %RSD | .18354 | 1.1749 | .76139 | 1.4200 | .21676 |
| | | | | | |
| #1 | 1730.0 | 17816. | 1770.9 | 1279.5 | 1848.3 |
| #2 | 1731.2 | 17905. | 1776.7 | 1299.7 | 1852.9 |
| #3 | 1736.0 | 18218. | 1796.7 | 1316.3 | 1856.3 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: S3 Acquired: 01/03/2025 12:42:11 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S03 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 340.05 | .23960 | 3.4986 | .16588 | .41064 | 7.6655 | 16.931 | 3.4319 |
| Stddev | .80 | .00035 | .0051 | .00037 | .00122 | .0088 | .049 | .0219 |
| %RSD | .23599 | .14736 | .14643 | .22012 | .29655 | .11471 | .28783 | .63788 |
| | | | | | | | | |
| #1 | 340.23 | .23940 | 3.5021 | .16552 | .41045 | 7.6556 | 16.956 | 3.4528 |
| #2 | 340.74 | .24001 | 3.4927 | .16586 | .41194 | 7.6723 | 16.962 | 3.4337 |
| #3 | 339.17 | .23940 | 3.5010 | .16625 | .40953 | 7.6685 | 16.875 | 3.4092 |

| Elem | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 | Mn2576 | Mg2790 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5.5418 | 6.8978 | 2.7453 | 1.4639 | 1.1288 | 1.8122 | 3.3778 | 1.4873 |
| Stddev | .0084 | .0251 | .0059 | .0029 | .0024 | .0033 | .0054 | .0041 |
| %RSD | .15243 | .36437 | .21499 | .20034 | .21059 | .18007 | .16100 | .27844 |
| | | | | | | | | |
| #1 | 5.5416 | 6.9166 | 2.7506 | 1.4638 | 1.1311 | 1.8113 | 3.3796 | 1.4904 |
| #2 | 5.5334 | 6.9075 | 2.7464 | 1.4610 | 1.1288 | 1.8159 | 3.3821 | 1.4890 |
| #3 | 5.5503 | 6.8692 | 2.7389 | 1.4669 | 1.1263 | 1.8096 | 3.3716 | 1.4826 |

| Elem | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | .86053 | .20270 | 44.168 | .12800 | 19.637 | 2.4294 | .22212 | 2.7394 |
| Stddev | .00023 | .00097 | .279 | .00126 | .065 | .0143 | .00086 | .0158 |
| %RSD | .02715 | .47690 | .63188 | .98797 | .33075 | .58759 | .38805 | .57583 |
| | | | | | | | | |
| #1 | .86056 | .20317 | 44.449 | .12927 | 19.690 | 2.4435 | .22172 | 2.7536 |
| #2 | .86028 | .20334 | 44.164 | .12799 | 19.657 | 2.4297 | .22154 | 2.7420 |
| #3 | .86074 | .20158 | 43.891 | .12674 | 19.564 | 2.4149 | .22311 | 2.7224 |

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1.4690 | .13483 | 5.9111 | .34696 | 1.0519 | 24.003 | 3.5728 |
| Stddev | .0020 | .00039 | .0358 | .00014 | .0041 | .073 | .0098 |
| %RSD | .13575 | .28728 | .60589 | .03916 | .39273 | .30247 | .27287 |
| | | | | | | | |
| #1 | 1.4674 | .13454 | 5.9464 | .34687 | 1.0478 | 23.944 | 3.5841 |
| #2 | 1.4684 | .13468 | 5.9122 | .34712 | 1.0560 | 24.084 | 3.5672 |
| #3 | 1.4713 | .13527 | 5.8748 | .34690 | 1.0518 | 23.981 | 3.5672 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: S3 Acquired: 01/03/2025 12:42:11 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S03 Custom ID2: Custom ID3:
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1661.1 | 17448. | 1761.6 | 1240.8 | 1765.9 |
| Stddev | 4.0 | 40. | 8.7 | 2.9 | 6.0 |
| %RSD | .24354 | .22822 | .49442 | .23208 | .33992 |
| | | | | | |
| #1 | 1661.7 | 17405. | 1751.8 | 1237.5 | 1764.1 |
| #2 | 1664.7 | 17483. | 1764.8 | 1242.8 | 1772.6 |
| #3 | 1656.7 | 17457. | 1768.3 | 1242.1 | 1761.0 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: S4 Acquired: 01/03/2025 12:45:58 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S04 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 660.82 | .47432 | 7.0856 | .33502 | .84129 | 15.609 | 33.977 | 6.7626 |
| Stddev | 1.07 | .00317 | .0541 | .00280 | .00655 | .062 | .113 | .1068 |
| %RSD | .16136 | .66833 | .76371 | .83553 | .77897 | .39599 | .33161 | 1.5799 |
| #1 | 660.69 | .47647 | 7.1168 | .33746 | .84317 | 15.637 | 34.024 | 6.8371 |
| #2 | 659.83 | .47068 | 7.0232 | .33196 | .83400 | 15.653 | 34.059 | 6.8105 |
| #3 | 661.95 | .47581 | 7.1169 | .33562 | .84670 | 15.539 | 33.848 | 6.6402 |

| Elem | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 | Mn2576 | Mg2790 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 11.086 | 13.729 | 5.4495 | 2.9040 | 2.2664 | 3.6497 | 6.7610 | 2.9872 |
| Stddev | .087 | .058 | .0060 | .0253 | .0096 | .0211 | .0427 | .0146 |
| %RSD | .78537 | .42420 | .10912 | .87001 | .42412 | .57798 | .63121 | .48712 |
| #1 | 11.137 | 13.778 | 5.4428 | 2.9202 | 2.2772 | 3.6632 | 6.7807 | 2.9970 |
| #2 | 10.985 | 13.744 | 5.4514 | 2.8749 | 2.2631 | 3.6605 | 6.7902 | 2.9941 |
| #3 | 11.135 | 13.665 | 5.4543 | 2.9170 | 2.2588 | 3.6254 | 6.7120 | 2.9705 |

| Elem | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1.7241 | .40815 | 94.971 | .25999 | 40.401 | 4.8921 | .45730 | 5.4721 |
| Stddev | .0148 | .00079 | 1.111 | .00087 | .264 | .0190 | .00487 | .0720 |
| %RSD | .85952 | .19381 | 1.1703 | .33451 | .65300 | .38832 | 1.0651 | 1.3153 |
| #1 | 1.7355 | .40758 | 95.495 | .25935 | 40.339 | 4.8988 | .46004 | 5.5356 |
| #2 | 1.7073 | .40781 | 95.723 | .26098 | 40.691 | 4.9069 | .45168 | 5.4867 |
| #3 | 1.7293 | .40905 | 93.694 | .25963 | 40.174 | 4.8707 | .46019 | 5.3939 |

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3.0140 | .27737 | 11.650 | .70081 | 2.1419 | 48.722 | 7.1165 |
| Stddev | .0193 | .00217 | .141 | .00556 | .0052 | .205 | .0396 |
| %RSD | .64100 | .78323 | 1.2105 | .79268 | .24282 | .42097 | .55597 |
| #1 | 3.0257 | .27833 | 11.743 | .70381 | 2.1442 | 48.901 | 7.1557 |
| #2 | 2.9917 | .27488 | 11.720 | .69440 | 2.1456 | 48.765 | 7.1172 |
| #3 | 3.0246 | .27889 | 11.488 | .70422 | 2.1359 | 48.498 | 7.0765 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: S4 Acquired: 01/03/2025 12:45:58 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S04 Custom ID2: Custom ID3:
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1564.9 | 16891. | 1724.5 | 1158.3 | 1684.7 |
| Stddev | 9.2 | 74. | 19.3 | 7.4 | 12.2 |
| %RSD | .58525 | .43994 | 1.1220 | .64272 | .72660 |
| | | | | | |
| #1 | 1557.2 | 16976. | 1715.3 | 1162.1 | 1675.2 |
| #2 | 1575.1 | 16863. | 1711.5 | 1149.7 | 1698.5 |
| #3 | 1562.5 | 16835. | 1746.8 | 1163.1 | 1680.4 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: S5 Acquired: 01/03/2025 12:49:43 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S05 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1288.1 | .94611 | 14.541 | .71043 | 1.8381 | 31.927 | 68.614 | 13.345 |
| Stddev | 3.2 | .00324 | .032 | .00373 | .0089 | .171 | .238 | .078 |
| %RSD | .24887 | .34218 | .21873 | .52559 | .48151 | .53403 | .34748 | .58340 |
| | | | | | | | | |
| #1 | 1284.7 | .94581 | 14.534 | .71308 | 1.8434 | 31.839 | 68.423 | 13.287 |
| #2 | 1291.1 | .94304 | 14.512 | .70616 | 1.8279 | 32.123 | 68.881 | 13.434 |
| #3 | 1288.3 | .94949 | 14.575 | .71204 | 1.8431 | 31.818 | 68.538 | 13.314 |

| Elem | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 | Mn2576 | Mg2790 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 22.475 | 27.317 | 10.903 | 5.8899 | 4.5667 | 7.2597 | 13.472 | 5.9672 |
| Stddev | .060 | .125 | .016 | .0150 | .0271 | .0320 | .030 | .0265 |
| %RSD | .26644 | .45720 | .14718 | .25536 | .59382 | .44107 | .22595 | .44436 |
| | | | | | | | | |
| #1 | 22.453 | 27.255 | 10.896 | 5.8881 | 4.5637 | 7.2675 | 13.468 | 5.9585 |
| #2 | 22.430 | 27.460 | 10.922 | 5.8758 | 4.5952 | 7.2872 | 13.504 | 5.9970 |
| #3 | 22.543 | 27.235 | 10.892 | 5.9058 | 4.5412 | 7.2245 | 13.444 | 5.9461 |

| Elem | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3.5046 | .83391 | 204.72 | .52457 | 85.357 | 10.040 | .94964 | 10.841 |
| Stddev | .0106 | .00125 | .95 | .00192 | .436 | .052 | .00220 | .066 |
| %RSD | .30281 | .14985 | .46604 | .36615 | .51086 | .51968 | .23126 | .61060 |
| | | | | | | | | |
| #1 | 3.5045 | .83459 | 203.95 | .52579 | 84.863 | 10.002 | .94810 | 10.788 |
| #2 | 3.4940 | .83466 | 205.79 | .52556 | 85.521 | 10.100 | .94867 | 10.915 |
| #3 | 3.5153 | .83246 | 204.41 | .52236 | 85.687 | 10.018 | .95216 | 10.819 |

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6.5611 | .57872 | 23.024 | 1.4375 | 4.3178 | 98.705 | 14.227 |
| Stddev | .0300 | .00104 | .179 | .0038 | .0165 | .476 | .049 |
| %RSD | .45658 | .17894 | .77700 | .26261 | .38281 | .48213 | .34690 |
| | | | | | | | |
| #1 | 6.5714 | .57967 | 22.903 | 1.4366 | 4.3085 | 98.530 | 14.197 |
| #2 | 6.5274 | .57762 | 23.230 | 1.4343 | 4.3369 | 99.244 | 14.284 |
| #3 | 6.5845 | .57888 | 22.940 | 1.4417 | 4.3081 | 98.342 | 14.201 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: S5 Acquired: 01/03/2025 12:49:43 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S05 Custom ID2: Custom ID3:
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1398.4 | 16253. | 1695.1 | 1034.0 | 1582.9 |
| Stddev | 8.7 | 42. | 12.3 | 3.9 | 4.9 |
| %RSD | .62488 | .25617 | .72484 | .37986 | .31178 |
| | | | | | |
| #1 | 1392.7 | 16255. | 1701.8 | 1038.5 | 1580.8 |
| #2 | 1408.5 | 16210. | 1680.9 | 1032.3 | 1588.6 |
| #3 | 1394.1 | 16293. | 1702.5 | 1031.3 | 1579.4 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: S6 Acquired: 01/03/2025 12:53:37 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S06 Custom ID2: Custom ID3:
Comment:

| Elem | Al3961 | Ca3736 | Fe2598 | Mg2790 | Na8183 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 84.233 | 43.909 | 19.193 | 9.5889 | 567.60 |
| Stddev | .114 | .084 | .003 | .0302 | 5.47 |
| %RSD | .13541 | .19200 | .01321 | .31438 | .96315 |
| | | | | | |
| #1 | 84.293 | 43.971 | 19.190 | 9.6081 | 572.90 |
| #2 | 84.305 | 43.943 | 19.194 | 9.6044 | 567.91 |
| #3 | 84.102 | 43.813 | 19.195 | 9.5542 | 561.98 |

| Int. Std. | Y_3710 |
|---|---|
| Units | Cts/S |
| Avg | 1639.9 |
| Stddev | 9.6 |
| %RSD | .58272 |
| | |
| #1 | 1638.1 |
| #2 | 1631.4 |
| #3 | 1650.3 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: ICV051 Acquired: 01/03/2025 13:04:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV051 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.079059 | 1.000783 | .9840480 | .9477416 | .9086755 | 2.403445 |
| Stddev | .005416 | .005579 | .0040799 | .0053265 | .0024773 | .009321 |
| %RSD | .5019244 | .5574760 | .4146069 | .5620190 | .2726300 | .3878239 |
| #1 | 1.084504 | 1.001600 | .9884115 | .9436416 | .9113250 | 2.413351 |
| #2 | 1.079000 | 1.005909 | .9834043 | .9458213 | .9082847 | 2.394847 |
| #3 | 1.073673 | .994841 | .9803281 | .9537620 | .9064168 | 2.402138 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5176620 | .5321191 | .5019377 | 10.19293 | .5505940 | .5066093 |
| Stddev | .0008384 | .0031001 | .0006478 | .07120 | .0022569 | .0004314 |
| %RSD | .1619579 | .5825914 | .1290665 | .6984986 | .4099001 | .0851485 |
| #1 | .5180862 | .5329223 | .5025631 | 10.24929 | .5529878 | .5063505 |
| #2 | .5166963 | .5347385 | .5019805 | 10.11292 | .5502892 | .5063701 |
| #3 | .5182035 | .5286964 | .5012696 | 10.21658 | .5485050 | .5071072 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4953439 | 10.34324 | .5377142 | 6.225183 | .5153662 | .2476684 |
| Stddev | .0188414 | .09141 | .0055930 | .131177 | .0011326 | .0021007 |
| %RSD | 3.803696 | .8837320 | 1.040145 | 2.107193 | .2197625 | .8481806 |
| #1 | .5075821 | 10.38469 | .5437723 | 6.333317 | .5166226 | .2500775 |
| #2 | .4736471 | 10.40658 | .5327471 | 6.262972 | .5150524 | .2462192 |
| #3 | .5048027 | 10.23846 | .5366231 | 6.079260 | .5144236 | .2467083 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 10.35818 | .5140353 | .9468246 | 9.172970 | F .0001987 | F -.018514 |
| Stddev | .08303 | .0167179 | .0038610 | .214650 | .0015950 | .003559 |
| %RSD | .8015656 | 3.252285 | .4077866 | 2.340025 | 802.8371 | 19.22587 |
| #1 | 10.41849 | .5333166 | .9495476 | 9.262558 | .0020025 | -.020546 |
| #2 | 10.39257 | .5035808 | .9424059 | 9.328314 | -.001025 | -.014404 |
| #3 | 10.26348 | .5052086 | .9485204 | 8.928039 | -.000381 | -.020592 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: ICV051 Acquired: 01/03/2025 13:04:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV051 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F .0007138 | F .0017593 | F .0011466 | F -.000558 | F .0001971 | F -.009303 |
| Stddev | .0000815 | .0037057 | .0014510 | .001580 | .0016027 | .000173 |
| %RSD | 11.42263 | 210.6430 | 126.5497 | 283.2711 | 813.1978 | 1.855027 |
| | | | | | | |
| #1 | .0006811 | -.002456 | .0027984 | .000025 | .0020262 | -.009257 |
| #2 | .0006536 | .003232 | .0005638 | .000648 | -.000961 | -.009158 |
| #3 | .0008066 | .004503 | .0000776 | -.002346 | -.000474 | -.009494 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | F .0107418 |
| Stddev | .0035811 |
| %RSD | 33.33813 |
| | |
| #1 | .0066452 |
| #2 | .0132779 |
| #3 | .0123023 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1827.928 | 18579.01 | 1819.376 | 1371.695 | 2011.115 |
| Stddev | 3.347 | 129.75 | 17.681 | 9.916 | 1.243 |
| %RSD | .1830786 | .6983698 | .9718325 | .7229208 | .0617882 |
| | | | | | |
| #1 | 1828.681 | 18430.85 | 1803.870 | 1360.276 | 2011.275 |
| #2 | 1830.834 | 18633.85 | 1815.628 | 1378.141 | 2012.269 |
| #3 | 1824.269 | 18672.35 | 1838.631 | 1376.669 | 2009.800 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: ICB051 Acquired: 01/03/2025 13:08:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB051 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.001678 | -.000540 | -.003326 | .0020707 | .0010064 | .0159920 |
| Stddev | .001402 | .005331 | .001558 | .0119618 | .0017427 | .0135202 |
| %RSD | 83.51609 | 987.5499 | 46.84722 | 577.6809 | 173.1600 | 84.54358 |
| #1 | -.002770 | .001577 | -.002417 | -.011233 | -.000471 | .0266014 |
| #2 | -.002166 | .003408 | -.005126 | .011938 | .000563 | .0206057 |
| #3 | -.000098 | -.006604 | -.002437 | .005507 | .002928 | .0007688 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.002780 | -.000086 | .0000569 | -.029325 | -.000664 | -.000321 |
| Stddev | .001158 | .000246 | .0000937 | .025924 | .000896 | .000282 |
| %RSD | 41.65419 | 284.9883 | 164.8110 | 88.40165 | 134.8524 | 87.64895 |
| #1 | -.001448 | .000194 | .0001246 | -.038552 | -.001488 | -.000448 |
| #2 | -.003347 | -.000267 | -.000050 | -.049372 | -.000794 | -.000518 |
| #3 | -.003546 | -.000185 | .000096 | -.000050 | .000289 | .000001 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.001843 | -.014824 | .0009410 | -.203380 | -.000523 | .0005124 |
| Stddev | .001506 | .026210 | .0010680 | .012513 | .001038 | .0002923 |
| %RSD | 81.69471 | 176.8063 | 113.5021 | 6.152678 | 198.6388 | 57.05547 |
| #1 | -.000114 | .010669 | -.000204 | -.193495 | .000676 | .0001924 |
| #2 | -.002550 | -.013444 | .001910 | -.217449 | -.001117 | .0007655 |
| #3 | -.002865 | -.041698 | .001117 | -.199196 | -.001127 | .0005792 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0542194 | .0002697 | -.000697 | .2552889 | .0017364 | .0022724 |
| Stddev | .0261786 | .0066870 | .000873 | .1455996 | .0027666 | .0015308 |
| %RSD | 48.28277 | 2479.452 | 125.2438 | 57.03327 | 159.3314 | 67.36654 |
| #1 | .0786614 | -.006387 | .000310 | .2890208 | -.000922 | .0039886 |
| #2 | .0574016 | .000209 | -.001155 | .0957840 | .004600 | .0010476 |
| #3 | .0265951 | .006987 | -.001246 | .3810619 | .001532 | .0017809 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: ICB051 Acquired: 01/03/2025 13:08:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB051 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000004 | -.009380 | -.000948 | -.001624 | -.007239 | -.000293 |
| Stddev | .000378 | .000532 | .000819 | .001830 | .007378 | .000206 |
| %RSD | 9111.552 | 5.673457 | 86.38896 | 112.7436 | 101.9213 | 70.35167 |
| | | | | | | |
| #1 | .000323 | -.009789 | -.000039 | -.003079 | -.006387 | -.000056 |
| #2 | -.000418 | -.009572 | -.001176 | -.002223 | -.000324 | -.000392 |
| #3 | .000083 | -.008778 | -.001629 | .000432 | -.015006 | -.000431 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | F .0156638 |
| Stddev | .0032264 |
| %RSD | 20.59781 |
| | |
| #1 | .0192310 |
| #2 | .0129497 |
| #3 | .0148105 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1820.013 | 18635.04 | 1813.771 | 1371.427 | 2022.737 |
| Stddev | 5.651 | 35.45 | 6.025 | 2.752 | 6.694 |
| %RSD | .3104649 | .1902292 | .3321910 | .2006578 | .3309291 |
| | | | | | |
| #1 | 1824.133 | 18606.14 | 1806.814 | 1369.703 | 2029.871 |
| #2 | 1822.334 | 18674.60 | 1817.309 | 1374.601 | 2021.748 |
| #3 | 1813.572 | 18624.40 | 1817.190 | 1369.978 | 2016.593 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: ICSA051 Acquired: 01/03/2025 13:12:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA051 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0074544 | .0031927 | -.000350 | .0169467 | .0233405 | 244.8810 |
| Stddev | .0028776 | .0010692 | .002556 | .0045644 | .0074442 | .5007 |
| %RSD | 38.60308 | 33.48892 | 730.1681 | 26.93388 | 31.89368 | .2044758 |
| #1 | .0082358 | .0019621 | .002397 | .0220975 | .0313350 | 244.6140 |
| #2 | .0098607 | .0038943 | -.002658 | .0153383 | .0166080 | 245.4586 |
| #3 | .0042668 | .0037217 | -.000789 | .0134042 | .0220785 | 244.5703 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0041890 | .0019645 | .0021107 | 252.3211 | .0534663 | .0363422 |
| Stddev | .0029083 | .0000934 | .0001189 | .7491 | .0002414 | .0004795 |
| %RSD | 69.42647 | 4.751618 | 5.631994 | .2968848 | .4514145 | 1.319545 |
| #1 | .0008918 | .0018814 | .0022029 | 252.8266 | .0532529 | .0365528 |
| #2 | .0063891 | .0019468 | .0021527 | 252.6763 | .0534179 | .0366804 |
| #3 | .0052860 | .0020655 | .0019766 | 251.4605 | .0537282 | .0357934 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000283 | 102.0354 | .0044010 | 264.1299 | .0018849 | -.006753 |
| Stddev | .005782 | .5953 | .0018022 | 1.4337 | .0010950 | .000927 |
| %RSD | 2040.190 | .5834603 | 40.94927 | .5428190 | 58.09576 | 13.72872 |
| #1 | .005084 | 101.5976 | .0062082 | 263.6457 | .0027456 | -.007350 |
| #2 | .000473 | 102.7133 | .0043909 | 265.7431 | .0006524 | -.005685 |
| #3 | -.006407 | 101.7954 | .0026039 | 263.0009 | .0022566 | -.007224 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2071856 | .0017684 | -.032666 | .0861641 | .0071669 | F -.219530 |
| Stddev | .0209173 | .0085567 | .000985 | .0735077 | .0062138 | .001848 |
| %RSD | 10.09591 | 483.8631 | 3.015075 | 85.31120 | 86.70161 | .8418727 |
| #1 | .2007468 | -.004086 | -.032418 | .0309454 | .0042483 | -.220731 |
| #2 | .2305653 | .011588 | -.033752 | .0579475 | .0029497 | -.220458 |
| #3 | .1902446 | -.002197 | -.031830 | .1695996 | .0143027 | -.217402 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: ICSA051 Acquired: 01/03/2025 13:12:57 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA051 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0081297 | .0138816 | -.001839 | F .0111155 | -.004819 | .0064564 |
| Stddev | .0005213 | .0104981 | .001419 | .0039043 | .004548 | .0007771 |
| %RSD | 6.412075 | 75.62620 | 77.17797 | 35.12515 | 94.37831 | 12.03555 |
| | | | | | | |
| #1 | .0076981 | .0094780 | -.001027 | .0095089 | -.002040 | .0073255 |
| #2 | .0087089 | .0063024 | -.001013 | .0155668 | -.010067 | .0058286 |
| #3 | .0079820 | .0258644 | -.003478 | .0082708 | -.002349 | .0062152 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | -.001568 |
| Stddev | .001975 |
| %RSD | 125.9578 |
| | |
| #1 | -.003410 |
| #2 | -.001812 |
| #3 | .000518 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1692.588 | 17180.64 | 1728.607 | 1266.222 | 1760.400 |
| Stddev | .918 | 67.10 | 13.037 | 8.884 | 1.596 |
| %RSD | .0542317 | .3905779 | .7541819 | .7015793 | .0906691 |
| | | | | | |
| #1 | 1693.348 | 17103.58 | 1714.526 | 1259.510 | 1760.454 |
| #2 | 1692.848 | 17226.22 | 1731.039 | 1262.861 | 1761.968 |
| #3 | 1691.568 | 17212.11 | 1740.257 | 1276.296 | 1758.777 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: ICSAB051 Acquired: 01/03/2025 13:30:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB051 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1105540 | .1052969 | .0544834 | .0735933 | .5945946 | 230.8458 |
| Stddev | .0080456 | .0065868 | .0033071 | .0050908 | .0044290 | .9807 |
| %RSD | 7.277566 | 6.255427 | 6.069845 | 6.917484 | .7448683 | .4248267 |
| #1 | .1162164 | .1127920 | .0528712 | .0783855 | .5996829 | 231.6659 |
| #2 | .1013443 | .1004300 | .0522917 | .0682490 | .5916061 | 231.1121 |
| #3 | .1141014 | .1026687 | .0582874 | .0741455 | .5924947 | 229.7595 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5441400 | .5552487 | 1.055092 | 239.6750 | .6124890 | .5427696 |
| Stddev | .0018021 | .0023227 | .001014 | .2022 | .0026829 | .0003458 |
| %RSD | .3311800 | .4183199 | .0961180 | .0843463 | .4380385 | .0637054 |
| #1 | .5445500 | .5579299 | 1.055829 | 239.8271 | .6129932 | .5431115 |
| #2 | .5457018 | .5538496 | 1.053936 | 239.7523 | .6148840 | .5424201 |
| #3 | .5421683 | .5539665 | 1.055512 | 239.4456 | .6095897 | .5427771 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4890100 | 96.76802 | .5454623 | 249.7248 | 1.038176 | .2026830 |
| Stddev | .0128040 | .37460 | .0018664 | 1.2368 | .001052 | .0007037 |
| %RSD | 2.618346 | .3871141 | .3421752 | .4952697 | .1013504 | .3471667 |
| #1 | .4819625 | 97.03379 | .5475985 | 250.7535 | 1.037403 | .2018753 |
| #2 | .5037895 | 96.93069 | .5446414 | 250.0684 | 1.039374 | .2030101 |
| #3 | .4812781 | 96.33958 | .5441470 | 248.3525 | 1.037750 | .2031635 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2104516 | .5378842 | .9708969 | -.223013 | .0043904 | F -.219165 |
| Stddev | .0208074 | .0171337 | .0045171 | .120993 | .0020025 | .005399 |
| %RSD | 9.887017 | 3.185393 | .4652503 | 54.25390 | 45.61145 | 2.463546 |
| #1 | .2333080 | .5576102 | .9756062 | -.114204 | .0020830 | -.220218 |
| #2 | .2054371 | .5267063 | .9666004 | -.201524 | .0054133 | -.223960 |
| #3 | .1926097 | .5293361 | .9704840 | -.353311 | .0056749 | -.213317 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: ICSAB051 Acquired: 01/03/2025 13:30:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB051 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0086263 | .0182254 | .0009593 | F .0123274 | -.008717 | .0065345 |
| Stddev | .0004469 | .0042271 | .0020325 | .0025319 | .003474 | .0006708 |
| %RSD | 5.180852 | 23.19328 | 211.8658 | 20.53885 | 39.85083 | 10.26592 |
| | | | | | | |
| #1 | .0087816 | .0223269 | -.000795 | .0150875 | -.006967 | .0072819 |
| #2 | .0089748 | .0138830 | .000487 | .0101125 | -.006466 | .0059844 |
| #3 | .0081224 | .0184663 | .003186 | .0117823 | -.012717 | .0063373 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | -.005403 |
| Stddev | .002291 |
| %RSD | 42.40050 |
| | |
| #1 | -.007739 |
| #2 | -.005307 |
| #3 | -.003161 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1709.771 | 17271.25 | 1745.795 | 1280.182 | 1779.074 |
| Stddev | 1.419 | 10.56 | 7.348 | 2.108 | 4.179 |
| %RSD | .0830215 | .0611155 | .4208926 | .1646849 | .2348716 |
| | | | | | |
| #1 | 1708.202 | 17269.46 | 1737.318 | 1277.764 | 1775.207 |
| #2 | 1710.143 | 17261.71 | 1749.733 | 1281.637 | 1783.507 |
| #3 | 1710.967 | 17282.59 | 1750.335 | 1281.144 | 1778.507 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV100 Acquired: 01/03/2025 13:34:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV100 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.986542 | 4.888869 | 24.96035 | 4.959169 | 4.936823 | 409.8822 | 10.29827 |
| Stddev | .021184 | .014230 | .03067 | .009875 | .008344 | 2.0706 | .02405 |
| %RSD | .4248263 | .2910782 | .1228653 | .1991356 | .1690088 | .5051680 | .2335037 |
| #1 | 5.010969 | 4.904279 | 24.99569 | 4.969753 | 4.940028 | 412.2683 | 10.32410 |
| #2 | 4.973209 | 4.876223 | 24.94460 | 4.950201 | 4.943089 | 408.5579 | 10.29418 |
| #3 | 4.975449 | 4.886106 | 24.94076 | 4.957552 | 4.927352 | 408.8204 | 10.27653 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5159455 | 2.506042 | 414.1373 | 15.76837 | 2.524426 | 15.47551 | 413.9884 |
| Stddev | .0018574 | .004692 | 1.1884 | .00939 | .004612 | .07478 | 1.5830 |
| %RSD | .3599902 | .1872386 | .2869548 | .0595784 | .1826846 | .4832305 | .3823762 |
| #1 | .5166609 | 2.511041 | 415.4750 | 15.75756 | 2.528553 | 15.55762 | 415.8040 |
| #2 | .5173387 | 2.501733 | 413.7337 | 15.77307 | 2.519448 | 15.45759 | 413.2635 |
| #3 | .5138368 | 2.505353 | 413.2034 | 15.77449 | 2.525278 | 15.41131 | 412.8977 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 15.39325 | 412.7765 | 2.526445 | 1.272928 | 415.9639 | 2.588262 | 15.03302 |
| Stddev | .08296 | .7637 | .002099 | .004559 | .6968 | .010486 | .07294 |
| %RSD | .5389299 | .1850042 | .0830893 | .3581761 | .1675212 | .4051173 | .4851728 |
| #1 | 15.48847 | 413.5144 | 2.528868 | 1.272814 | 416.6049 | 2.576922 | 14.95422 |
| #2 | 15.35473 | 411.9895 | 2.525184 | 1.277543 | 416.0648 | 2.590257 | 15.04667 |
| #3 | 15.33656 | 412.8257 | 2.525282 | 1.268426 | 415.2222 | 2.597606 | 15.09816 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 157.3900 | 4.973658 | 4.525969 | 4.904945 | 5.015445 | 5.096419 | 5.047130 |
| Stddev | .5998 | .013484 | .008418 | .003580 | .011632 | .012706 | .005707 |
| %RSD | .3810702 | .2710985 | .1859825 | .0729829 | .2319246 | .2493104 | .1130646 |
| #1 | 157.9709 | 4.978503 | 4.534763 | 4.907976 | 5.025276 | 5.089665 | 5.053592 |
| #2 | 157.4261 | 4.984049 | 4.525156 | 4.905863 | 5.002604 | 5.111075 | 5.042784 |
| #3 | 156.7730 | 4.958421 | 4.517987 | 4.900996 | 5.018455 | 5.088516 | 5.045013 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV100 Acquired: 01/03/2025 13:34:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV100 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 5.155402 | 4.904750 | 5.130397 |
| Stddev | .033260 | .024801 | .005420 |
| %RSD | .6451533 | .5056618 | .1056432 |
| | | | |
| #1 | 5.191528 | 4.932799 | 5.136491 |
| #2 | 5.148626 | 4.895734 | 5.126117 |
| #3 | 5.126051 | 4.885718 | 5.128584 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1513.393 | 16280.49 | 1677.318 | 1115.052 | 1626.775 |
| Stddev | 2.244 | 51.21 | 7.334 | .185 | 3.115 |
| %RSD | .1482801 | .3145708 | .4372331 | .0165880 | .1914730 |
| | | | | | |
| #1 | 1514.556 | 16224.38 | 1670.440 | 1115.177 | 1627.064 |
| #2 | 1514.817 | 16292.37 | 1676.479 | 1115.139 | 1629.735 |
| #3 | 1510.807 | 16324.72 | 1685.036 | 1114.839 | 1623.525 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB100 Acquired: 01/03/2025 13:37:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB100 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.001673 | -.000109 | -.001720 | -.001678 | .0011823 | .0043281 | -.005963 |
| Stddev | .001996 | .002282 | .001178 | .005821 | .0020692 | .0369288 | .002205 |
| %RSD | 119.2523 | 2100.830 | 68.48507 | 346.8483 | 175.0116 | 853.2392 | 36.97314 |
| #1 | .000375 | .002349 | -.003023 | -.005494 | .0019486 | .0468252 | -.007397 |
| #2 | -.001783 | -.002162 | -.000731 | -.004561 | -.001161 | -.013883 | -.003424 |
| #3 | -.003612 | -.000513 | -.001405 | .005021 | .002759 | -.019958 | -.007068 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000062 | -.000056 | -.054609 | .0005948 | -.000125 | -.005152 | -.011386 |
| Stddev | .000108 | .000080 | .062180 | .0003527 | .000141 | .002911 | .044593 |
| %RSD | 174.0617 | 142.9535 | 113.8630 | 59.30461 | 113.4247 | 56.49256 | 391.6566 |
| #1 | .000048 | -.000045 | -.105681 | .0009925 | -.000184 | -.007033 | .017063 |
| #2 | -.000066 | -.000142 | .014631 | .0004720 | .000037 | -.001800 | .011559 |
| #3 | -.000168 | .000018 | -.072779 | .0003199 | -.000227 | -.006624 | -.062780 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000100 | -.066178 | -.001313 | .0004146 | .0296641 | .0041681 | -.001602 |
| Stddev | .001889 | .089846 | .000687 | .0006153 | .0316405 | .0169984 | .000202 |
| %RSD | 1898.503 | 135.7641 | 52.31042 | 148.3967 | 106.6627 | 407.8167 | 12.62427 |
| #1 | .000635 | .023991 | -.000704 | .0005626 | .0602277 | -.014529 | -.001382 |
| #2 | .001312 | -.155698 | -.001177 | .0009425 | .0317180 | .008343 | -.001645 |
| #3 | -.002246 | -.066828 | -.002058 | -.000261 | -.002953 | .018690 | -.001779 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1852553 | -.001183 | .0113102 | .0001302 | -.009330 | .0001185 | -.000501 |
| Stddev | .2963684 | .002583 | .0028380 | .0005292 | .002434 | .0010695 | .000370 |
| %RSD | 159.9784 | 218.4345 | 25.09257 | 406.3843 | 26.08802 | 902.4208 | 73.81336 |
| #1 | .2568894 | -.003763 | .0124735 | .0001383 | -.009235 | .0009452 | -.000928 |
| #2 | .4392409 | .001404 | .0133817 | .0006553 | -.006945 | -.001089 | -.000269 |
| #3 | -.140365 | -.001190 | .0080754 | -.000403 | -.011810 | .000500 | -.000307 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB100 Acquired: 01/03/2025 13:37:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB100 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.002872 | -.000215 | .0009120 |
| Stddev | .000308 | .000142 | .0009635 |
| %RSD | 10.73001 | 66.00238 | 105.6438 |
| | | | |
| #1 | -.002846 | -.000163 | -.000184 |
| #2 | -.003193 | -.000106 | .001625 |
| #3 | -.002578 | -.000375 | .001295 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1832.373 | 18733.64 | 1824.587 | 1384.055 | 2038.329 |
| Stddev | 2.951 | 99.02 | 10.851 | 5.080 | 1.184 |
| %RSD | .1610259 | .5285894 | .5947188 | .3670705 | .0581008 |
| | | | | | |
| #1 | 1835.752 | 18620.28 | 1824.262 | 1378.224 | 2037.168 |
| #2 | 1830.303 | 18803.24 | 1813.902 | 1386.420 | 2039.535 |
| #3 | 1831.066 | 18777.42 | 1835.597 | 1387.523 | 2038.286 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165852BL Acquired: 01/03/2025 13:42:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS852 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0037663 | .0006222 | -.001517 | .0047876 | .0011304 | .0006822 | -.001840 |
| Stddev | .0036811 | .0006579 | .000459 | .0035549 | .0030864 | .0365169 | .001057 |
| %RSD | 97.73913 | 105.7340 | 30.24262 | 74.25247 | 273.0374 | 5352.980 | 57.47859 |
| #1 | .0073179 | .0013428 | -.001089 | .0048024 | .0028365 | .0201295 | -.000661 |
| #2 | -.000032 | .0004705 | -.002001 | .0012253 | -.002432 | -.041443 | -.002152 |
| #3 | .004013 | .0000534 | -.001461 | .0083350 | .002987 | .023360 | -.002706 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0001204 | .0000162 | -.066570 | -.000764 | -.000122 | .0001484 | .0172846 |
| Stddev | .0001137 | .0000757 | .045542 | .000467 | .000559 | .0008256 | .0108082 |
| %RSD | 94.43201 | 466.3137 | 68.41177 | 61.13512 | 460.0232 | 556.5042 | 62.53072 |
| #1 | .0002015 | -.000010 | -.050597 | -.000955 | .000198 | .0009089 | .0093394 |
| #2 | .0001692 | -.000043 | -.031167 | -.001105 | .000205 | -.000730 | .0129223 |
| #3 | -.000010 | .000101 | -.117946 | -.000232 | -.000767 | .000266 | .0295922 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0000866 | -.040454 | -.000709 | .0000172 | -.006236 | .0030196 | -.000342 |
| Stddev | .0020389 | .110406 | .000828 | .0011003 | .013062 | .0095672 | .000098 |
| %RSD | 2353.598 | 272.9208 | 116.7753 | 6395.401 | 209.4542 | 316.8316 | 28.65628 |
| #1 | .0011814 | .016969 | -.000590 | -.000932 | -.009859 | -.000010 | -.000367 |
| #2 | .0013443 | .029408 | -.001589 | -.000239 | .008255 | -.004666 | -.000425 |
| #3 | -.002266 | -.167737 | .000053 | .001223 | -.017103 | .013735 | -.000234 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0937974 | .0041862 | .0011967 | -.000397 | -.014803 | -.002279 | -.001164 |
| Stddev | .2338474 | .0030986 | .0033432 | .000526 | .003329 | .000222 | .000959 |
| %RSD | 249.3112 | 74.01978 | 279.3636 | 132.4196 | 22.49207 | 9.733178 | 82.41282 |
| #1 | .1938777 | .0007447 | .0022868 | -.000508 | -.018530 | -.002094 | -.001672 |
| #2 | .2609497 | .0050593 | -.002555 | .000175 | -.012123 | -.002218 | -.001761 |
| #3 | -.173435 | .0067545 | .003859 | -.000858 | -.013755 | -.002525 | -.000057 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165852BL Acquired: 01/03/2025 13:42:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS852 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.008980 | -.000218 | -.004448 |
| Stddev | .003964 | .000238 | .003409 |
| %RSD | 44.14217 | 109.2675 | 76.64680 |
| | | | |
| #1 | -.012598 | -.000355 | -.008035 |
| #2 | -.009599 | -.000356 | -.001250 |
| #3 | -.004743 | .000057 | -.004058 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1829.139 | 18690.37 | 1820.079 | 1372.637 | 2033.793 |
| Stddev | .681 | 20.81 | 4.763 | 2.285 | 3.489 |
| %RSD | .0372424 | .1113499 | .2616869 | .1664422 | .1715561 |
| | | | | | |
| #1 | 1828.526 | 18675.20 | 1814.928 | 1371.277 | 2031.371 |
| #2 | 1829.873 | 18681.82 | 1824.323 | 1375.275 | 2037.792 |
| #3 | 1829.020 | 18714.09 | 1820.988 | 1371.360 | 2032.216 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165852BS Acquired: 01/03/2025 13:46:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS852 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0250250 | .0518862 | .0157661 | .0594546 | .1105526 | .3988026 |
| Stddev | .0041921 | .0020297 | .0015937 | .0045048 | .0013525 | .0600675 |
| %RSD | 16.75158 | 3.911763 | 10.10853 | 7.576796 | 1.223423 | 15.06195 |
| #1 | .0225822 | .0532774 | .0175515 | .0645941 | .1114249 | .3379441 |
| #2 | .0298656 | .0495572 | .0152597 | .0575792 | .1089945 | .4004174 |
| #3 | .0226274 | .0528241 | .0144871 | .0561906 | .1112383 | .4580464 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4003362 | .0105701 | .0097297 | 9.988173 | .0204020 | .1001975 |
| Stddev | .0021663 | .0000230 | .0000123 | .084163 | .0003443 | .0002855 |
| %RSD | .5411200 | .2173352 | .1268051 | .8426285 | 1.687662 | .2849299 |
| #1 | .4028335 | .0105966 | .0097304 | 9.894825 | .0204993 | .0999532 |
| #2 | .3992113 | .0105553 | .0097171 | 10.01144 | .0200195 | .1001279 |
| #3 | .3989637 | .0105585 | .0097417 | 10.05826 | .0206872 | .1005113 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0502458 | .2231042 | .0313630 | 10.36965 | .0773147 | .0197099 |
| Stddev | .0091431 | .0269094 | .0012290 | .07067 | .0007438 | .0001884 |
| %RSD | 18.19669 | 12.06136 | 3.918549 | .6815015 | .9620995 | .9557383 |
| #1 | .0566011 | .1982645 | .0299499 | 10.29705 | .0767018 | .0198989 |
| #2 | .0543690 | .2516906 | .0321826 | 10.43822 | .0771001 | .0197085 |
| #3 | .0397672 | .2193575 | .0319564 | 10.37368 | .0781423 | .0195222 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 7.503226 | .0940941 | .1157011 | 9.373038 | .0184724 | F -.001123 |
| Stddev | .037973 | .0119299 | .0006724 | .112839 | .0041228 | .001484 |
| %RSD | .5060839 | 12.67871 | .5811491 | 1.203873 | 22.31891 | 132.1102 |
| #1 | 7.547072 | .1048238 | .1162108 | 9.487120 | .0171592 | -.002757 |
| #2 | 7.481442 | .0962111 | .1149390 | 9.261484 | .0151661 | -.000752 |
| #3 | 7.481163 | .0812474 | .1159535 | 9.370511 | .0230918 | .000140 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165852BS Acquired: 01/03/2025 13:46:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS852 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0197065 | .1681094 | F .4872956 | .0121342 | .1981951 | .2098052 |
| Stddev | .0007934 | .0039046 | .0012669 | .0005946 | .0041570 | .0004595 |
| %RSD | 4.026101 | 2.322655 | .2599880 | 4.899934 | 2.097422 | .2189954 |
| | | | | | | |
| #1 | .0202328 | .1721535 | .4871023 | .0127934 | .2019885 | .2094059 |
| #2 | .0187940 | .1678133 | .4861365 | .0119711 | .1937512 | .2097023 |
| #3 | .0200929 | .1643612 | .4886481 | .0116383 | .1988456 | .2103074 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0252894 |
| Stddev | .0040789 |
| %RSD | 16.12885 |
| | |
| #1 | .0298455 |
| #2 | .0219776 |
| #3 | .0240450 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1818.570 | 18354.06 | 1800.244 | 1357.495 | 2014.601 |
| Stddev | 2.965 | 5.86 | 2.906 | 2.364 | 3.055 |
| %RSD | .1630611 | .0319269 | .1614237 | .1741272 | .1516552 |
| | | | | | |
| #1 | 1816.884 | 18347.50 | 1801.732 | 1357.068 | 2011.727 |
| #2 | 1821.994 | 18355.87 | 1796.895 | 1355.374 | 2017.810 |
| #3 | 1816.831 | 18358.79 | 1802.104 | 1360.043 | 2014.266 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165860BL Acquired: 01/03/2025 13:50:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS860 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0019130 | -.001470 | -.004329 | .0003007 | .0014815 | .0138906 | .0008215 |
| Stddev | .0023410 | .004553 | .001458 | .0061589 | .0032747 | .0134101 | .0036393 |
| %RSD | 122.3757 | 309.7723 | 33.68230 | 2048.229 | 221.0437 | 96.54137 | 443.0249 |
| #1 | .0004311 | .002598 | -.003251 | -.005587 | .0015450 | .0293753 | .0048148 |
| #2 | .0006960 | -.006389 | -.005989 | .006699 | .0047240 | .0061656 | -.002309 |
| #3 | .0046119 | -.000619 | -.003749 | -.000210 | -.001825 | .0061308 | -.000042 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000119 | .0000148 | -.062357 | -.000153 | -.000137 | .0026251 | .0327388 |
| Stddev | .000117 | .0001146 | .006475 | .000324 | .000323 | .0094465 | .0176262 |
| %RSD | 97.74664 | 772.5520 | 10.38335 | 211.3306 | 235.9532 | 359.8527 | 53.83888 |
| #1 | -.000161 | -.000110 | -.066170 | .000105 | -.000482 | -.003388 | .0288588 |
| #2 | .000012 | .000040 | -.054881 | -.000517 | .000158 | -.002250 | .0519818 |
| #3 | -.000210 | .000115 | -.066020 | -.000049 | -.000087 | .013513 | .0173759 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0002707 | -.150011 | .0001080 | .0014815 | -.005553 | -.002012 | -.000217 |
| Stddev | .0008248 | .151300 | .0000723 | .0010095 | .028111 | .016189 | .000533 |
| %RSD | 304.6645 | 100.8591 | 66.95756 | 68.14452 | 506.2711 | 804.7698 | 245.5462 |
| #1 | .0008751 | -.324285 | .0001913 | .0006726 | -.037957 | -.020138 | -.000089 |
| #2 | -.000669 | -.052233 | .0000714 | .0011589 | .012287 | .011006 | -.000803 |
| #3 | .000606 | -.073516 | .0000613 | .0026128 | .009012 | .003097 | .000240 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0821578 | -.002990 | -.002805 | -.000524 | -.007115 | -.000941 | -.000561 |
| Stddev | .1998575 | .002523 | .001905 | .000966 | .000988 | .000699 | .001343 |
| %RSD | 243.2604 | 84.39956 | 67.91559 | 184.3627 | 13.88060 | 74.22252 | 239.5626 |
| #1 | .2209570 | -.000088 | -.003589 | .000349 | -.007786 | -.001385 | -.000499 |
| #2 | -.146911 | -.004670 | -.004193 | -.001562 | -.007578 | -.000136 | -.001934 |
| #3 | .172427 | -.004211 | -.000633 | -.000359 | -.005981 | -.001303 | .000751 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165860BL Acquired: 01/03/2025 13:50:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS860 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.003543 | -.000290 | -.007045 |
| Stddev | .003927 | .000146 | .002857 |
| %RSD | 110.8506 | 50.46603 | 40.55214 |
| | | | |
| #1 | -.008018 | -.000132 | -.004593 |
| #2 | -.001941 | -.000318 | -.006360 |
| #3 | -.000670 | -.000421 | -.010182 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1822.483 | 18456.07 | 1818.392 | 1370.460 | 2018.780 |
| Stddev | 4.598 | 24.38 | 7.214 | 8.296 | 2.542 |
| %RSD | .2522965 | .1321130 | .3967109 | .6053716 | .1259367 |
| | | | | | |
| #1 | 1826.273 | 18429.68 | 1817.951 | 1360.881 | 2019.225 |
| #2 | 1817.368 | 18477.76 | 1811.409 | 1375.349 | 2016.044 |
| #3 | 1823.807 | 18460.78 | 1825.816 | 1375.150 | 2021.070 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165861BL Acquired: 01/03/2025 13:58:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS861 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0018887 | .0006285 | -.001874 | .0024279 | .0008751 | .0094990 | -.000254 |
| Stddev | .0022029 | .0018584 | .001880 | .0037931 | .0035719 | .0318746 | .005352 |
| %RSD | 116.6329 | 295.6639 | 100.2851 | 156.2292 | 408.1533 | 335.5583 | 2104.490 |
| #1 | .0027767 | .0025859 | -.001550 | -.001620 | .0023139 | .0348138 | .005917 |
| #2 | .0035091 | -.001112 | -.003895 | .005901 | -.003192 | -.026296 | -.003625 |
| #3 | -.000620 | .000412 | -.000178 | .003003 | .003503 | .019979 | -.003055 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0000334 | -.000044 | -.031025 | -.000153 | -.000385 | -.012164 | -.010027 |
| Stddev | .0000204 | .000074 | .031703 | .000477 | .000403 | .008894 | .035932 |
| %RSD | 61.03721 | 167.1007 | 102.1860 | 312.1413 | 104.6443 | 73.12060 | 358.3327 |
| #1 | .0000533 | -.000001 | -.039845 | -.000704 | .000046 | -.013301 | -.038345 |
| #2 | .0000344 | -.000002 | .004154 | .000117 | -.000449 | -.020435 | -.022130 |
| #3 | .0000126 | -.000130 | -.057384 | .000129 | -.000752 | -.002756 | .030393 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0006743 | -.121367 | .0000944 | .0011024 | -.001239 | .0044215 | -.000371 |
| Stddev | .0008268 | .132425 | .0003490 | .0011685 | .006994 | .0040341 | .000115 |
| %RSD | 122.6211 | 109.1112 | 369.8074 | 106.0005 | 564.3448 | 91.23721 | 31.06509 |
| #1 | -.000130 | -.045836 | .0002309 | .0003400 | .005421 | .0077193 | -.000495 |
| #2 | .001522 | -.274274 | -.000302 | .0024477 | -.000614 | -.000076 | -.000267 |
| #3 | .000631 | -.043990 | .000355 | .0005194 | -.008525 | .005622 | -.000352 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.163308 | -.002702 | -.002315 | -.000444 | -.010022 | -.000348 | -.000382 |
| Stddev | .287078 | .001975 | .001276 | .000543 | .002846 | .001686 | .001533 |
| %RSD | 175.7894 | 73.07371 | 55.09868 | 122.3213 | 28.39921 | 484.1239 | 401.8829 |
| #1 | -.026963 | -.000756 | -.002795 | -.000566 | -.009709 | -.000188 | .001334 |
| #2 | -.493151 | -.002648 | -.000869 | .000150 | -.013012 | .001252 | -.000858 |
| #3 | .030190 | -.004704 | -.003281 | -.000917 | -.007345 | -.002108 | -.001620 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165861BL Acquired: 01/03/2025 13:58:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS861 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.005132 | -.000347 | -.008406 |
| Stddev | .010249 | .000529 | .001737 |
| %RSD | 199.7020 | 152.4971 | 20.66167 |
| | | | |
| #1 | -.012895 | .000197 | -.006918 |
| #2 | .006486 | -.000378 | -.010314 |
| #3 | -.008988 | -.000859 | -.007986 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1828.715 | 18458.90 | 1819.945 | 1371.574 | 2025.503 |
| Stddev | 2.200 | 28.51 | 5.342 | 9.817 | 1.686 |
| %RSD | .1202984 | .1544278 | .2935020 | .7157297 | .0832574 |
| | | | | | |
| #1 | 1827.343 | 18468.38 | 1818.322 | 1381.209 | 2026.567 |
| #2 | 1827.550 | 18426.87 | 1825.910 | 1361.585 | 2023.559 |
| #3 | 1831.252 | 18481.46 | 1815.603 | 1371.927 | 2026.384 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165860BS Acquired: 01/03/2025 14:02:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS860 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0193195 | .0492350 | .0163697 | .0612387 | .1049310 | .3831966 |
| Stddev | .0023566 | .0032124 | .0037183 | .0014774 | .0023419 | .0383136 |
| %RSD | 12.19812 | 6.524680 | 22.71474 | 2.412576 | 2.231805 | 9.998427 |
| #1 | .0171396 | .0470602 | .0142344 | .0623174 | .1030004 | .3557476 |
| #2 | .0218200 | .0529248 | .0206633 | .0618440 | .1075361 | .4269685 |
| #3 | .0189989 | .0477201 | .0142115 | .0595547 | .1042565 | .3668736 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3896520 | .0101830 | .0094183 | 9.846625 | .0202288 | .0969317 |
| Stddev | .0031118 | .0001771 | .0001501 | .056521 | .0009897 | .0003192 |
| %RSD | .7986004 | 1.739516 | 1.593584 | .5740187 | 4.892683 | .3293569 |
| #1 | .3915122 | .0100284 | .0094295 | 9.904793 | .0213623 | .0970440 |
| #2 | .3860596 | .0101443 | .0092630 | 9.843176 | .0197879 | .0965714 |
| #3 | .3913841 | .0103763 | .0095625 | 9.791908 | .0195361 | .0971796 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0457529 | .1855780 | .0324484 | 10.09392 | .0753242 | .0203176 |
| Stddev | .0040047 | .0222975 | .0019845 | .08930 | .0008301 | .0006710 |
| %RSD | 8.752791 | 12.01516 | 6.115858 | .8847360 | 1.102044 | 3.302533 |
| #1 | .0475997 | .2101065 | .0347178 | 10.17789 | .0761153 | .0208380 |
| #2 | .0485008 | .1800917 | .0310390 | 10.10376 | .0753972 | .0205544 |
| #3 | .0411581 | .1665358 | .0315883 | 10.00010 | .0744599 | .0195603 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 7.325321 | .1041099 | .1155368 | 8.960629 | .0176373 | F -.004256 |
| Stddev | .016844 | .0106574 | .0009398 | .122477 | .0016351 | .000549 |
| %RSD | .2299479 | 10.23668 | .8133831 | 1.366835 | 9.270521 | 12.89914 |
| #1 | 7.336719 | .1164029 | .1149333 | 9.095491 | .0161202 | -.003997 |
| #2 | 7.305973 | .0984546 | .1166195 | 8.930072 | .0174226 | -.004887 |
| #3 | 7.333271 | .0974721 | .1150575 | 8.856323 | .0193692 | -.003885 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165860BS Acquired: 01/03/2025 14:02:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS860 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0195393 | .1644094 | F .4794011 | .0114457 | .1922740 | .2063134 |
| Stddev | .0006922 | .0022170 | .0006802 | .0021509 | .0044392 | .0007081 |
| %RSD | 3.542550 | 1.348467 | .1418929 | 18.79216 | 2.308762 | .3432220 |
| | | | | | | |
| #1 | .0195946 | .1631838 | .4795976 | .0134419 | .1947723 | .2071163 |
| #2 | .0188211 | .1630758 | .4799615 | .0117272 | .1871486 | .2060457 |
| #3 | .0202022 | .1669687 | .4786443 | .0091679 | .1949010 | .2057781 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0220965 |
| Stddev | .0035708 |
| %RSD | 16.15987 |
| | |
| #1 | .0230173 |
| #2 | .0181555 |
| #3 | .0251166 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1804.212 | 18250.19 | 1797.329 | 1348.219 | 1999.843 |
| Stddev | 4.713 | 120.46 | 10.041 | 7.670 | 7.620 |
| %RSD | .2612361 | .6600644 | .5586411 | .5688699 | .3810326 |
| | | | | | |
| #1 | 1806.012 | 18126.55 | 1787.732 | 1351.024 | 2001.666 |
| #2 | 1807.759 | 18256.83 | 1796.494 | 1339.542 | 2006.387 |
| #3 | 1798.863 | 18367.20 | 1807.761 | 1354.092 | 1991.478 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165861BS Acquired: 01/03/2025 14:06:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS861 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0226678 | .0557892 | .0204420 | .0657766 | .1094461 | .4390022 |
| Stddev | .0035805 | .0005129 | .0031689 | .0047820 | .0007720 | .0109290 |
| %RSD | 15.79538 | .9193454 | 15.50218 | 7.270085 | .7053771 | 2.489513 |
| #1 | .0262553 | .0551979 | .0239848 | .0652854 | .1091194 | .4385687 |
| #2 | .0190944 | .0560558 | .0178779 | .0707852 | .1103277 | .4282964 |
| #3 | .0226536 | .0561138 | .0194631 | .0612591 | .1088911 | .4501415 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4046647 | .0106969 | .0097361 | 10.14209 | .0213897 | .1011931 |
| Stddev | .0028052 | .0001779 | .0001086 | .07096 | .0004931 | .0002976 |
| %RSD | .6932181 | 1.662923 | 1.115515 | .6996672 | 2.305214 | .2941278 |
| #1 | .4040035 | .0105585 | .0096523 | 10.21821 | .0219070 | .1008543 |
| #2 | .4077414 | .0106346 | .0096971 | 10.07777 | .0209251 | .1014124 |
| #3 | .4022491 | .0108975 | .0098588 | 10.13028 | .0213370 | .1013125 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0405516 | .1967667 | .0341002 | 10.56893 | .0779584 | .0210054 |
| Stddev | .0064968 | .0366466 | .0002488 | .07639 | .0007910 | .0018468 |
| %RSD | 16.02117 | 18.62437 | .7297141 | .7227509 | 1.014613 | 8.791935 |
| #1 | .0450679 | .2083815 | .0339993 | 10.65327 | .0788063 | .0210614 |
| #2 | .0434811 | .1557203 | .0343836 | 10.50439 | .0778282 | .0191312 |
| #3 | .0331059 | .2261985 | .0339176 | 10.54914 | .0772405 | .0228235 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 7.638022 | .1106441 | .1184398 | 9.524075 | .0186710 | F -.003657 |
| Stddev | .038568 | .0016318 | .0009836 | .293454 | .0002739 | .001839 |
| %RSD | .5049415 | 1.474794 | .8304436 | 3.081178 | 1.466983 | 50.28037 |
| #1 | 7.671241 | .1103298 | .1176914 | 9.534691 | .0185640 | -.003237 |
| #2 | 7.595726 | .1091923 | .1180742 | 9.225458 | .0184667 | -.002065 |
| #3 | 7.647100 | .1124101 | .1195538 | 9.812077 | .0189822 | -.005670 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165861BS Acquired: 01/03/2025 14:06:29 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS861 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0195475 | .1737788 | F .4947446 | .0110611 | .1919551 | .2116770 |
| Stddev | .0005113 | .0045943 | .0007708 | .0025396 | .0035219 | .0011396 |
| %RSD | 2.615757 | 2.643780 | .1558023 | 22.95972 | 1.834778 | .5383734 |
| | | | | | | |
| #1 | .0190536 | .1764440 | .4947768 | .0093825 | .1930352 | .2128773 |
| #2 | .0200746 | .1684738 | .4954988 | .0098181 | .1948105 | .2106097 |
| #3 | .0195142 | .1764186 | .4939582 | .0139828 | .1880195 | .2115439 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0247382 |
| Stddev | .0004272 |
| %RSD | 1.727061 |
| | |
| #1 | .0248481 |
| #2 | .0242668 |
| #3 | .0250998 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1802.775 | 18396.19 | 1796.447 | 1352.570 | 1995.434 |
| Stddev | 1.194 | 93.09 | 10.733 | 2.710 | 4.093 |
| %RSD | .0662077 | .5060309 | .5974361 | .2003299 | .2051050 |
| | | | | | |
| #1 | 1803.926 | 18291.88 | 1787.655 | 1350.344 | 1998.164 |
| #2 | 1802.856 | 18470.82 | 1808.407 | 1355.587 | 1997.409 |
| #3 | 1801.543 | 18425.86 | 1793.279 | 1351.778 | 1990.728 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165841BL Acquired: 01/03/2025 14:10:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS841 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0009420 | -.003166 | -.002514 | .0039044 | -.000284 | -.018817 | -.000109 |
| Stddev | .0025760 | .001169 | .000811 | .0037483 | .002082 | .021439 | .001697 |
| %RSD | 273.4756 | 36.92740 | 32.26335 | 96.00347 | 732.9619 | 113.9341 | 1550.724 |
| #1 | .0023287 | -.004112 | -.002638 | .0012322 | .001098 | -.008540 | -.000122 |
| #2 | .0025276 | -.003526 | -.001647 | .0081891 | .000729 | -.043460 | .001594 |
| #3 | -.002030 | -.001859 | -.003255 | .0022917 | -.002678 | -.004451 | -.001800 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000128 | -.000024 | -.076450 | -.000654 | -.000232 | -.006281 | -.010009 |
| Stddev | .000159 | .000133 | .062077 | .000801 | .000251 | .014241 | .088382 |
| %RSD | 124.3000 | 560.5623 | 81.19884 | 122.4119 | 108.1974 | 226.7412 | 883.0185 |
| #1 | -.000005 | -.000176 | -.073387 | -.001457 | -.000343 | .008904 | .077600 |
| #2 | -.000071 | .000064 | -.015962 | -.000651 | .000055 | -.008408 | -.099143 |
| #3 | -.000308 | .000041 | -.140003 | .000145 | -.000410 | -.019338 | -.008484 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000045 | -.072943 | -.000267 | .0014438 | -.022292 | -.010957 | -.001099 |
| Stddev | .000797 | .069920 | .001102 | .0009305 | .009881 | .010383 | .000762 |
| %RSD | 1773.878 | 95.85589 | 412.9791 | 64.44920 | 44.32549 | 94.76290 | 69.33919 |
| #1 | .000838 | .007729 | -.000250 | .0019732 | -.018449 | .000779 | -.000255 |
| #2 | -.000263 | -.110471 | -.001377 | .0019888 | -.014910 | -.018950 | -.001305 |
| #3 | -.000711 | -.116086 | .000826 | .0003694 | -.033517 | -.014701 | -.001737 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.064183 | .0019580 | -.005842 | .0000298 | -.011951 | -.001795 | -.000271 |
| Stddev | .115068 | .0035120 | .000335 | .0002220 | .001804 | .000933 | .002339 |
| %RSD | 179.2813 | 179.3672 | 5.735922 | 745.1183 | 15.09213 | 51.98523 | 864.5207 |
| #1 | .060784 | .0002405 | -.006028 | .0002857 | -.013749 | -.002853 | -.002580 |
| #2 | -.087574 | -.000365 | -.005455 | -.000111 | -.010142 | -.001447 | -.000328 |
| #3 | -.165758 | .005998 | -.006043 | -.000085 | -.011960 | -.001087 | .002097 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165841BL Acquired: 01/03/2025 14:10:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS841 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.006481 | -.000203 | -.011148 |
| Stddev | .006343 | .000155 | .001552 |
| %RSD | 97.87112 | 76.29544 | 13.91745 |
| | | | |
| #1 | .000559 | -.000034 | -.012688 |
| #2 | -.011750 | -.000338 | -.011171 |
| #3 | -.008251 | -.000237 | -.009585 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1831.968 | 18676.83 | 1834.648 | 1377.412 | 2033.572 |
| Stddev | 2.218 | 120.81 | 3.725 | 2.832 | .650 |
| %RSD | .1210937 | .6468276 | .2030245 | .2055699 | .0319621 |
| | | | | | |
| #1 | 1832.116 | 18637.74 | 1830.434 | 1380.286 | 2033.064 |
| #2 | 1829.679 | 18580.40 | 1837.502 | 1377.324 | 2033.347 |
| #3 | 1834.109 | 18812.34 | 1836.008 | 1374.625 | 2034.304 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165841BS Acquired: 01/03/2025 14:14:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS841 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0257030 | .0503791 | .0166280 | .0629391 | .1060288 | .3810145 |
| Stddev | .0055634 | .0027468 | .0010854 | .0034320 | .0019410 | .0078906 |
| %RSD | 21.64483 | 5.452310 | 6.527697 | 5.452888 | 1.830618 | 2.070954 |
| #1 | .0207109 | .0472302 | .0174223 | .0668854 | .1059815 | .3884871 |
| #2 | .0317005 | .0516238 | .0153913 | .0612797 | .1041119 | .3817930 |
| #3 | .0246976 | .0522832 | .0170706 | .0606522 | .1079930 | .3727635 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3951200 | .0105827 | .0095444 | 9.994091 | .0217659 | .0988883 |
| Stddev | .0054338 | .0000642 | .0001189 | .096795 | .0008259 | .0005208 |
| %RSD | 1.375234 | .6066715 | 1.245268 | .9685203 | 3.794690 | .5266853 |
| #1 | .3898497 | .0105593 | .0096165 | 9.890140 | .0226097 | .0987770 |
| #2 | .3948064 | .0106554 | .0094072 | 10.01050 | .0209591 | .0994558 |
| #3 | .4007038 | .0105335 | .0096094 | 10.08163 | .0217289 | .0984322 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0466072 | .2314789 | .0322006 | 10.28877 | .0763590 | .0197018 |
| Stddev | .0078511 | .0405175 | .0012569 | .21818 | .0008039 | .0004221 |
| %RSD | 16.84533 | 17.50373 | 3.903205 | 2.120596 | 1.052774 | 2.142564 |
| #1 | .0478604 | .1891218 | .0312809 | 10.15728 | .0754612 | .0201268 |
| #2 | .0537563 | .2698642 | .0336328 | 10.16842 | .0766036 | .0192826 |
| #3 | .0382048 | .2354507 | .0316883 | 10.54063 | .0770121 | .0196962 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 7.384619 | .0961964 | .1177585 | 9.170215 | .0198747 | F -.005657 |
| Stddev | .072050 | .0169411 | .0002404 | .151127 | .0014557 | .002239 |
| %RSD | .9756736 | 17.61097 | .2041900 | 1.648020 | 7.324323 | 39.58369 |
| #1 | 7.327238 | .1094540 | .1175052 | 9.003079 | .0185915 | -.007020 |
| #2 | 7.361138 | .0771105 | .1177868 | 9.297241 | .0195760 | -.006879 |
| #3 | 7.465479 | .1020246 | .1179836 | 9.210324 | .0214566 | -.003073 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165841BS Acquired: 01/03/2025 14:14:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS841 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0195934 | .1656915 | F .4844070 | .0121014 | .1868319 | .2084243 |
| Stddev | .0005267 | .0030423 | .0074235 | .0014583 | .0047910 | .0014979 |
| %RSD | 2.688356 | 1.836149 | 1.532489 | 12.05090 | 2.564320 | .7186934 |
| #1 | .0201545 | .1623596 | .4767892 | .0128848 | .1821611 | .2068749 |
| #2 | .0191096 | .1683216 | .4848123 | .0104188 | .1917346 | .2085332 |
| #3 | .0195159 | .1663933 | .4916195 | .0130006 | .1865999 | .2098648 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | F .0187955 |
| Stddev | .0011380 |
| %RSD | 6.054491 |
| #1 | .0174877 |
| #2 | .0195595 |
| #3 | .0193394 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1806.264 | 18294.36 | 1800.769 | 1348.480 | 1999.828 |
| Stddev | 4.666 | 95.66 | 17.378 | 5.312 | 3.442 |
| %RSD | .2583084 | .5229196 | .9650447 | .3939074 | .1721128 |
| #1 | 1803.256 | 18208.97 | 1817.345 | 1344.131 | 1996.362 |
| #2 | 1811.638 | 18397.75 | 1802.276 | 1354.400 | 2003.246 |
| #3 | 1803.896 | 18276.37 | 1782.687 | 1346.909 | 1999.876 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165850BL Acquired: 01/03/2025 14:18:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS850 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.002931 | .0013812 | -.003206 | .0004199 | .0032774 | .0255520 | .0008865 |
| Stddev | .003707 | .0022992 | .002261 | .0023064 | .0022213 | .0168888 | .0002919 |
| %RSD | 126.4503 | 166.4652 | 70.52465 | 549.3198 | 67.77705 | 66.09581 | 32.93188 |
| #1 | -.003129 | .0018747 | -.005142 | -.001875 | .0046673 | .0294565 | .0009640 |
| #2 | .000870 | -.001125 | -.003757 | .002738 | .0044494 | .0070529 | .0005636 |
| #3 | -.006535 | .003394 | -.000721 | .000396 | .0007155 | .0401467 | .0011319 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000009 | .0000295 | -.046361 | -.001235 | -.000146 | -.007655 | -.012908 |
| Stddev | .000031 | .0001593 | .045782 | .000775 | .000142 | .005902 | .046579 |
| %RSD | 340.2136 | 540.4489 | 98.75262 | 62.77975 | 96.97526 | 77.10318 | 360.8521 |
| #1 | .000018 | .0001172 | -.008699 | -.001648 | -.000006 | -.010889 | .039531 |
| #2 | -.000043 | .0001257 | -.097320 | -.000340 | -.000290 | -.011234 | -.028770 |
| #3 | -.000003 | -.000154 | -.033063 | -.001716 | -.000142 | -.000843 | -.049485 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0001075 | -.093822 | -.000742 | -.000417 | -.018279 | -.004754 | .0007482 |
| Stddev | .0033614 | .078495 | .000198 | .000324 | .022364 | .007663 | .0008345 |
| %RSD | 3126.591 | 83.66429 | 26.68450 | 77.72925 | 122.3464 | 161.1980 | 111.5412 |
| #1 | -.003185 | -.090188 | -.000799 | -.000108 | -.001505 | -.009588 | .0013617 |
| #2 | .003534 | -.174071 | -.000522 | -.000755 | -.043669 | -.008756 | .0010848 |
| #3 | -.000027 | -.017207 | -.000905 | -.000388 | -.009662 | .004082 | -.000202 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.170305 | .0004208 | -.003500 | .0002186 | -.007821 | -.001024 | -.000145 |
| Stddev | .225946 | .0018542 | .001614 | .0007359 | .003784 | .000322 | .000639 |
| %RSD | 132.6711 | 440.6705 | 46.11025 | 336.7316 | 48.37954 | 31.41202 | 441.3886 |
| #1 | .086071 | .0025557 | -.001755 | .0006771 | -.009320 | -.001273 | -.000240 |
| #2 | -.256601 | -.000787 | -.004939 | -.000630 | -.003517 | -.000661 | -.000730 |
| #3 | -.340386 | -.000506 | -.003805 | .000609 | -.010625 | -.001137 | .000536 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165850BL Acquired: 01/03/2025 14:18:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS850 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.008130 | -.000131 | -.013765 |
| Stddev | .003466 | .000247 | .005280 |
| %RSD | 42.62412 | 188.5152 | 38.35791 |
| | | | |
| #1 | -.012081 | -.000155 | -.007691 |
| #2 | -.006708 | .000127 | -.017254 |
| #3 | -.005603 | -.000365 | -.016350 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1818.514 | 18365.43 | 1817.613 | 1367.427 | 2009.627 |
| Stddev | 7.171 | 103.68 | 8.818 | 3.885 | 4.785 |
| %RSD | .3943202 | .5645602 | .4851505 | .2841304 | .2380999 |
| | | | | | |
| #1 | 1818.041 | 18313.82 | 1807.554 | 1363.004 | 2008.401 |
| #2 | 1825.910 | 18484.79 | 1821.269 | 1370.287 | 2014.905 |
| #3 | 1811.592 | 18297.68 | 1824.014 | 1368.991 | 2005.574 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165840BL Acquired: 01/03/2025 14:26:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS840 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0022488 | -.001644 | -.003250 | .0007486 | -.002514 | -.002230 | -.003247 |
| Stddev | .0027611 | .001982 | .002322 | .0022021 | .002884 | .039876 | .003017 |
| %RSD | 122.7801 | 120.5134 | 71.46157 | 294.1607 | 114.6901 | 1788.423 | 92.94076 |
| #1 | .0002079 | -.003514 | -.001983 | -.001734 | -.005342 | .030544 | -.005803 |
| #2 | .0053905 | -.001852 | -.005930 | .001513 | -.002623 | .009393 | -.004019 |
| #3 | .0011480 | .000433 | -.001836 | .002467 | .000422 | -.046626 | .000082 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0000995 | .0000157 | -.090654 | -.000748 | -.000042 | -.011982 | .0097595 |
| Stddev | .0000797 | .0001114 | .012306 | .000825 | .000416 | .003270 | .0328219 |
| %RSD | 80.10609 | 709.1543 | 13.57446 | 110.2296 | 994.2260 | 27.29529 | 336.3070 |
| #1 | .0000126 | .0001399 | -.088275 | -.000781 | -.000156 | -.008217 | -.027886 |
| #2 | .0001167 | -.000076 | -.079712 | .000093 | -.000389 | -.013610 | .032379 |
| #3 | .0001692 | -.000017 | -.103976 | -.001556 | .000419 | -.014118 | .024785 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000759 | -.062874 | -.000357 | -.000520 | -.027790 | .0049959 | -.000640 |
| Stddev | .000701 | .084500 | .000629 | .001433 | .011489 | .0062379 | .000135 |
| %RSD | 92.42723 | 134.3950 | 176.1608 | 275.6881 | 41.34136 | 124.8598 | 21.07122 |
| #1 | -.000075 | -.000976 | -.000184 | -.001946 | -.014526 | -.000817 | -.000708 |
| #2 | -.000724 | -.028504 | .000168 | .000921 | -.034204 | .011586 | -.000727 |
| #3 | -.001476 | -.159143 | -.001054 | -.000534 | -.034639 | .004218 | -.000485 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.198172 | -.001655 | -.005429 | -.000244 | -.009308 | -.001644 | -.001228 |
| Stddev | .067257 | .000339 | .000376 | .000297 | .000607 | .000178 | .000613 |
| %RSD | 33.93853 | 20.48789 | 6.923281 | 121.6132 | 6.518904 | 10.81097 | 49.92173 |
| #1 | -.275275 | -.002024 | -.005853 | .000035 | -.009687 | -.001446 | -.001373 |
| #2 | -.167672 | -.001359 | -.005295 | -.000211 | -.008608 | -.001790 | -.001756 |
| #3 | -.151569 | -.001581 | -.005137 | -.000556 | -.009628 | -.001696 | -.000556 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165840BL Acquired: 01/03/2025 14:26:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS840 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.006510 | -.000355 | -.012594 |
| Stddev | .002724 | .000333 | .000925 |
| %RSD | 41.84871 | 93.77344 | 7.345473 |
| | | | |
| #1 | -.003384 | -.000320 | -.012497 |
| #2 | -.007770 | -.000704 | -.013564 |
| #3 | -.008377 | -.000041 | -.011722 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1823.219 | 18295.00 | 1833.172 | 1355.557 | 2016.632 |
| Stddev | 4.717 | 132.99 | 5.258 | 13.072 | 2.109 |
| %RSD | .2587115 | .7269309 | .2868364 | .9642961 | .1046005 |
| | | | | | |
| #1 | 1823.990 | 18283.34 | 1833.283 | 1357.570 | 2018.938 |
| #2 | 1818.164 | 18168.22 | 1838.373 | 1341.595 | 2014.799 |
| #3 | 1827.503 | 18433.44 | 1827.859 | 1367.505 | 2016.159 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165840BS Acquired: 01/03/2025 14:34:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS840 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0257858 | .0497520 | .0182802 | .0656493 | .1101429 | .4671989 |
| Stddev | .0042828 | .0031900 | .0005494 | .0035138 | .0023347 | .0297720 |
| %RSD | 16.60912 | 6.411762 | 3.005626 | 5.352321 | 2.119738 | 6.372439 |
| #1 | .0211247 | .0510732 | .0178440 | .0639210 | .1076856 | .4345700 |
| #2 | .0266851 | .0520692 | .0188973 | .0633343 | .1123318 | .4741383 |
| #3 | .0295475 | .0461137 | .0180993 | .0696924 | .1104113 | .4928883 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3977809 | .0106057 | .0096960 | 10.03148 | .0204371 | .1003363 |
| Stddev | .0030890 | .0001184 | .0001057 | .05697 | .0006005 | .0005609 |
| %RSD | .7765563 | 1.116213 | 1.089883 | .5679182 | 2.938321 | .5589801 |
| #1 | .3965908 | .0106423 | .0096758 | 10.02403 | .0197796 | .0998045 |
| #2 | .3954639 | .0104734 | .0096018 | 9.97859 | .0205753 | .1002822 |
| #3 | .4012879 | .0107015 | .0098103 | 10.09180 | .0209565 | .1009223 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0423210 | .2405823 | .0335321 | 10.32644 | .0766265 | .0186899 |
| Stddev | .0248602 | .0274262 | .0005871 | .21680 | .0002992 | .0018497 |
| %RSD | 58.74195 | 11.39993 | 1.750836 | 2.099419 | .3905356 | 9.896821 |
| #1 | .0648142 | .2481602 | .0332946 | 10.25819 | .0768147 | .0179484 |
| #2 | .0465200 | .2634229 | .0331010 | 10.56915 | .0767833 | .0173260 |
| #3 | .0156287 | .2101639 | .0342008 | 10.15199 | .0762814 | .0207953 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 7.440452 | .0997960 | .1166708 | 9.373095 | .0187193 | F -.005095 |
| Stddev | .023508 | .0072044 | .0012981 | .139098 | .0017496 | .000584 |
| %RSD | .3159420 | 7.219118 | 1.112600 | 1.484012 | 9.346685 | 11.45782 |
| #1 | 7.414491 | .1072700 | .1157368 | 9.242546 | .0172049 | -.004568 |
| #2 | 7.446568 | .0928955 | .1181530 | 9.357337 | .0206345 | -.004994 |
| #3 | 7.460297 | .0992225 | .1161224 | 9.519400 | .0183184 | -.005723 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165840BS Acquired: 01/03/2025 14:34:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS840 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0190082 | .1640598 | F .4852931 | .0123197 | .1906594 | .2078182 |
| Stddev | .0002151 | .0040079 | .0039454 | .0010998 | .0035822 | .0002882 |
| %RSD | 1.131723 | 2.442960 | .8129833 | 8.927044 | 1.878870 | .1386879 |
| | | | | | | |
| #1 | .0187831 | .1674439 | .4846842 | .0111406 | .1878946 | .2079958 |
| #2 | .0190297 | .1651016 | .4816876 | .0133177 | .1893774 | .2079731 |
| #3 | .0192118 | .1596338 | .4895075 | .0125009 | .1947063 | .2074856 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0233053 |
| Stddev | .0028773 |
| %RSD | 12.34613 |
| | |
| #1 | .0203672 |
| #2 | .0261177 |
| #3 | .0234308 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1789.281 | 18347.29 | 1801.516 | 1356.821 | 1985.423 |
| Stddev | 4.879 | 109.14 | 1.374 | 8.710 | 5.075 |
| %RSD | .2726745 | .5948601 | .0762469 | .6419063 | .2556003 |
| | | | | | |
| #1 | 1793.624 | 18334.54 | 1801.390 | 1357.792 | 1991.260 |
| #2 | 1790.218 | 18245.08 | 1802.949 | 1347.666 | 1982.958 |
| #3 | 1784.002 | 18462.24 | 1800.210 | 1365.004 | 1982.052 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165850BS Acquired: 01/03/2025 14:38:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS850 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0230369 | .0490453 | .0190364 | .0655245 | .1103330 | .4070655 |
| Stddev | .0049299 | .0033962 | .0006217 | .0033985 | .0016067 | .0109842 |
| %RSD | 21.40015 | 6.924701 | 3.265739 | 5.186630 | 1.456255 | 2.698375 |
| #1 | .0215472 | .0469096 | .0197500 | .0626764 | .1108233 | .3961398 |
| #2 | .0190236 | .0472648 | .0187471 | .0646105 | .1085382 | .4069495 |
| #3 | .0285399 | .0529616 | .0186120 | .0692865 | .1116374 | .4181071 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4067333 | .0105608 | .0097936 | 10.23850 | .0210943 | .1015717 |
| Stddev | .0024723 | .0000812 | .0001053 | .04479 | .0005728 | .0005772 |
| %RSD | .6078476 | .7690675 | 1.075543 | .4374934 | 2.715265 | .5682499 |
| #1 | .4067454 | .0104901 | .0096827 | 10.19230 | .0205598 | .1012779 |
| #2 | .4042550 | .0105428 | .0098059 | 10.24144 | .0210243 | .1012005 |
| #3 | .4091995 | .0106495 | .0098923 | 10.28174 | .0216989 | .1022366 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0382080 | .2207564 | .0329640 | 10.52516 | .0787894 | .0216298 |
| Stddev | .0016464 | .0023711 | .0017417 | .06941 | .0005347 | .0013559 |
| %RSD | 4.309120 | 1.074089 | 5.283580 | .6594640 | .6787053 | 6.268827 |
| #1 | .0365087 | .2213555 | .0322927 | 10.48471 | .0785508 | .0210665 |
| #2 | .0383195 | .2227706 | .0349415 | 10.48546 | .0784155 | .0231766 |
| #3 | .0397959 | .2181432 | .0316579 | 10.60530 | .0794019 | .0206463 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 7.529171 | .0975673 | .1176485 | 9.577862 | .0204704 | F -.004464 |
| Stddev | .037480 | .0092208 | .0008658 | .155139 | .0006610 | .002658 |
| %RSD | .4977942 | 9.450682 | .7358964 | 1.619764 | 3.229226 | 59.54725 |
| #1 | 7.487886 | .1065311 | .1185892 | 9.411525 | .0197229 | -.005456 |
| #2 | 7.538569 | .0881094 | .1174712 | 9.718625 | .0207105 | -.006483 |
| #3 | 7.561057 | .0980613 | .1168851 | 9.603434 | .0209778 | -.001452 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165850BS Acquired: 01/03/2025 14:38:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS850 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0202184 | .1702961 | F .4917840 | .0126261 | .1909241 | .2127274 |
| Stddev | .0011909 | .0036957 | .0027498 | .0023266 | .0058113 | .0003471 |
| %RSD | 5.890200 | 2.170173 | .5591402 | 18.42716 | 3.043780 | .1631433 |
| #1 | .0188892 | .1711469 | .4891403 | .0147967 | .1951264 | .2123914 |
| #2 | .0205778 | .1734923 | .4915828 | .0129119 | .1933536 | .2127064 |
| #3 | .0211882 | .1662492 | .4946288 | .0101698 | .1842923 | .2130845 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0234403 |
| Stddev | .0038070 |
| %RSD | 16.24128 |
| #1 | .0249655 |
| #2 | .0191071 |
| #3 | .0262481 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1795.573 | 18270.71 | 1796.863 | 1348.686 | 1986.540 |
| Stddev | .698 | 78.82 | 4.610 | 9.372 | 3.525 |
| %RSD | .0388921 | .4314005 | .2565421 | .6949243 | .1774511 |
| #1 | 1795.794 | 18217.55 | 1801.919 | 1345.650 | 1990.611 |
| #2 | 1796.134 | 18233.32 | 1792.895 | 1341.209 | 1984.467 |
| #3 | 1794.791 | 18361.27 | 1795.774 | 1359.201 | 1984.544 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165842BL Acquired: 01/03/2025 14:42:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS842 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000233 | .0018052 | -.001554 | .0028297 | .0011312 | .0004910 | .0014370 |
| Stddev | .003573 | .0031227 | .003681 | .0035354 | .0019287 | .0579471 | .0033688 |
| %RSD | 1533.017 | 172.9834 | 236.9634 | 124.9402 | 170.4951 | 11801.58 | 234.4268 |
| #1 | -.000337 | .0048366 | -.002344 | .0002204 | -.000858 | .0652042 | .0051068 |
| #2 | .003390 | .0019806 | -.004775 | .0014154 | .001259 | -.017134 | .0007195 |
| #3 | -.003753 | -.001401 | .002459 | .0068534 | .002993 | -.046597 | -.001515 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000141 | -.000091 | -.039974 | .0000397 | -.000294 | -.010453 | .0075571 |
| Stddev | .000186 | .000090 | .042483 | .0006122 | .000125 | .006160 | .0229009 |
| %RSD | 131.8461 | 99.73673 | 106.2769 | 1542.871 | 42.72982 | 58.93712 | 303.0404 |
| #1 | -.000162 | .000008 | -.058733 | -.000374 | -.000406 | -.015292 | .0316859 |
| #2 | .000055 | -.000110 | -.069848 | -.000249 | -.000317 | -.003518 | .0048629 |
| #3 | -.000315 | -.000170 | .008660 | .000743 | -.000158 | -.012548 | -.013878 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.001210 | -.101945 | -.000474 | .0003734 | -.021065 | -.015183 | -.000529 |
| Stddev | .000257 | .042165 | .000445 | .0014877 | .015989 | .008919 | .000377 |
| %RSD | 21.21818 | 41.36051 | 93.85785 | 398.4557 | 75.90537 | 58.74704 | 71.39279 |
| #1 | -.000978 | -.148679 | -.000809 | .0019878 | -.012362 | -.004920 | -.000952 |
| #2 | -.001166 | -.090399 | .000031 | .0000745 | -.011315 | -.021067 | -.000405 |
| #3 | -.001486 | -.066755 | -.000643 | -.000942 | -.039517 | -.019560 | -.000228 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.055542 | -.000334 | -.004825 | .0003279 | -.010034 | -.001045 | -.001408 |
| Stddev | .121390 | .001993 | .001617 | .0007850 | .003067 | .001616 | .001310 |
| %RSD | 218.5535 | 596.4740 | 33.50005 | 239.4177 | 30.56952 | 154.6965 | 93.05422 |
| #1 | -.190518 | -.002554 | -.005751 | .0012104 | -.009822 | .000585 | -.002857 |
| #2 | .044682 | .000251 | -.002959 | .0000654 | -.013202 | -.001072 | -.001056 |
| #3 | -.020791 | .001301 | -.005767 | -.000292 | -.007078 | -.002647 | -.000310 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165842BL Acquired: 01/03/2025 14:42:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS842 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.006271 | -.000459 | -.011129 |
| Stddev | .001151 | .000184 | .000782 |
| %RSD | 18.36065 | 40.19094 | 7.027437 |
| | | | |
| #1 | -.004976 | -.000338 | -.010822 |
| #2 | -.006656 | -.000367 | -.012018 |
| #3 | -.007180 | -.000671 | -.010546 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1809.411 | 18249.29 | 1796.288 | 1346.852 | 2002.960 |
| Stddev | 3.255 | 55.42 | 2.422 | 5.935 | 3.161 |
| %RSD | .1798976 | .3036982 | .1348187 | .4406353 | .1578004 |
| | | | | | |
| #1 | 1807.196 | 18308.30 | 1796.636 | 1347.746 | 1999.372 |
| #2 | 1813.148 | 18241.26 | 1793.711 | 1340.521 | 2005.333 |
| #3 | 1807.889 | 18198.33 | 1798.517 | 1352.289 | 2004.176 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165842BS Acquired: 01/03/2025 14:46:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS842 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0237965 | .0506290 | .0154471 | .0568301 | .1098841 | .4287086 |
| Stddev | .0027720 | .0024994 | .0004895 | .0039091 | .0019794 | .0292348 |
| %RSD | 11.64895 | 4.936725 | 3.169102 | 6.878509 | 1.801346 | 6.819276 |
| #1 | .0265614 | .0489059 | .0155500 | .0552974 | .1121423 | .4569239 |
| #2 | .0238108 | .0494856 | .0149143 | .0612733 | .1084493 | .3985511 |
| #3 | .0210174 | .0534956 | .0158770 | .0539197 | .1090608 | .4306507 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4029420 | .0106243 | .0097929 | 10.08074 | .0208323 | .1005721 |
| Stddev | .0042133 | .0000995 | .0000313 | .02240 | .0007882 | .0005747 |
| %RSD | 1.045622 | .9361708 | .3198757 | .2221711 | 3.783677 | .5713830 |
| #1 | .4044926 | .0105428 | .0098248 | 10.09104 | .0201288 | .1012196 |
| #2 | .4061603 | .0105950 | .0097915 | 10.05505 | .0206839 | .1001229 |
| #3 | .3981732 | .0107351 | .0097622 | 10.09613 | .0216841 | .1003737 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0479720 | .2103591 | .0320524 | 10.54682 | .0771465 | .0206212 |
| Stddev | .0043783 | .0405185 | .0007777 | .07789 | .0011704 | .0002639 |
| %RSD | 9.126719 | 19.26159 | 2.426318 | .7385542 | 1.517095 | 1.279974 |
| #1 | .0524842 | .2545584 | .0317569 | 10.61911 | .0764512 | .0205494 |
| #2 | .0476905 | .2015475 | .0314658 | 10.55701 | .0784977 | .0209136 |
| #3 | .0437413 | .1749716 | .0329346 | 10.46433 | .0764905 | .0204005 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 7.441684 | .1034601 | .1185432 | 9.315784 | .0170125 | F -.006795 |
| Stddev | .033014 | .0089084 | .0005661 | .062305 | .0031549 | .002461 |
| %RSD | .4436415 | 8.610426 | .4775360 | .6688138 | 18.54485 | 36.21215 |
| #1 | 7.468193 | .0936570 | .1187561 | 9.250574 | .0173965 | -.006642 |
| #2 | 7.404704 | .1110604 | .1189720 | 9.322069 | .0136832 | -.004415 |
| #3 | 7.452154 | .1056629 | .1179015 | 9.374708 | .0199579 | -.009329 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165842BS Acquired: 01/03/2025 14:46:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS842 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0200087 | .1665303 | F .4894943 | .0107296 | .1919835 | .2117934 |
| Stddev | .0006255 | .0056927 | .0035160 | .0022548 | .0005407 | .0010647 |
| %RSD | 3.125877 | 3.418390 | .7182857 | 21.01439 | .2816383 | .5027133 |
| | | | | | | |
| #1 | .0193383 | .1603060 | .4874788 | .0132908 | .1919038 | .2121535 |
| #2 | .0205766 | .1678124 | .4874498 | .0090439 | .1925596 | .2126315 |
| #3 | .0201111 | .1714726 | .4935541 | .0098541 | .1914870 | .2105954 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0210013 |
| Stddev | .0021105 |
| %RSD | 10.04929 |
| | |
| #1 | .0198429 |
| #2 | .0234373 |
| #3 | .0197237 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1804.546 | 18176.38 | 1804.679 | 1345.159 | 1994.786 |
| Stddev | 3.796 | 97.08 | 4.094 | 12.115 | 5.104 |
| %RSD | .2103662 | .5341239 | .2268715 | .9006242 | .2558651 |
| | | | | | |
| #1 | 1800.240 | 18176.86 | 1799.954 | 1340.712 | 1988.960 |
| #2 | 1805.989 | 18079.06 | 1807.159 | 1335.897 | 1996.929 |
| #3 | 1807.409 | 18273.22 | 1806.926 | 1358.869 | 1998.469 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165891BL Acquired: 01/03/2025 14:50:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS891 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000536 | .0020699 | -.003585 | -.001165 | .0016177 | -.018105 | -.000602 |
| Stddev | .006137 | .0011934 | .003978 | .004714 | .0023052 | .011281 | .003159 |
| %RSD | 1144.716 | 57.65423 | 110.9746 | 404.4869 | 142.4957 | 62.30971 | 525.0550 |
| | | | | | | | |
| #1 | -.007597 | .0028455 | -.003051 | -.002892 | .0040300 | -.009855 | -.002493 |
| #2 | .003513 | .0006957 | -.007803 | .004168 | -.000563 | -.030960 | -.002358 |
| #3 | .002475 | .0026686 | .000100 | -.004772 | .001386 | -.013499 | .003046 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0000081 | .0000062 | -.004486 | -.000397 | -.000336 | -.009006 | .0136323 |
| Stddev | .0000244 | .0001255 | .017875 | .000524 | .000376 | .003080 | .0699984 |
| %RSD | 301.3580 | 2026.183 | 398.4657 | 132.0779 | 111.8182 | 34.20124 | 513.4763 |
| | | | | | | | |
| #1 | -.000016 | .0001067 | .016073 | .000206 | -.000568 | -.009037 | -.065563 |
| #2 | .000033 | .0000465 | -.013185 | -.000653 | -.000537 | -.012071 | .067226 |
| #3 | .000008 | -.000135 | -.016346 | -.000743 | .000097 | -.005911 | .039233 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000339 | -.135886 | -.000920 | .0024630 | -.023330 | -.009394 | -.000992 |
| Stddev | .000516 | .018083 | .000492 | .0008764 | .013913 | .009910 | .000597 |
| %RSD | 152.1270 | 13.30763 | 53.48869 | 35.58313 | 59.63544 | 105.4996 | 60.21493 |
| | | | | | | | |
| #1 | -.000788 | -.154905 | -.000462 | .0014512 | -.039190 | .001202 | -.001394 |
| #2 | -.000455 | -.133841 | -.001440 | .0029858 | -.013183 | -.018435 | -.000306 |
| #3 | .000225 | -.118913 | -.000859 | .0029521 | -.017617 | -.010949 | -.001277 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.032208 | -.001909 | -.006195 | -.000606 | -.013058 | -.002625 | -.001952 |
| Stddev | .024195 | .001886 | .001688 | .000579 | .003939 | .000406 | .000276 |
| %RSD | 75.12109 | 98.78947 | 27.24267 | 95.68159 | 30.16406 | 15.48350 | 14.15571 |
| | | | | | | | |
| #1 | -.030007 | -.002177 | -.004413 | -.000283 | -.011409 | -.002157 | -.001748 |
| #2 | -.009188 | -.003646 | -.007770 | -.000259 | -.010211 | -.002838 | -.001843 |
| #3 | -.057428 | .000097 | -.006403 | -.001274 | -.017553 | -.002881 | -.002267 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165891BL Acquired: 01/03/2025 14:50:58 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS891 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.003580 | -.000321 | -.009057 |
| Stddev | .001368 | .000259 | .003292 |
| %RSD | 38.19829 | 80.44694 | 36.34488 |
| | | | |
| #1 | -.002396 | -.000054 | -.009863 |
| #2 | -.003268 | -.000570 | -.011871 |
| #3 | -.005077 | -.000341 | -.005437 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1827.895 | 18378.26 | 1826.004 | 1360.712 | 2020.294 |
| Stddev | 5.515 | 102.86 | 10.238 | 11.599 | 6.676 |
| %RSD | .3016951 | .5597051 | .5606696 | .8524407 | .3304614 |
| | | | | | |
| #1 | 1833.879 | 18375.03 | 1821.946 | 1355.322 | 2027.926 |
| #2 | 1823.017 | 18482.71 | 1818.416 | 1374.026 | 2017.417 |
| #3 | 1826.790 | 18277.06 | 1837.648 | 1352.788 | 2015.538 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165891BS Acquired: 01/03/2025 14:55:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS891 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0217968 | .0521962 | .0171653 | .0643853 | .1090996 | .4810220 |
| Stddev | .0027764 | .0045970 | .0008753 | .0033738 | .0029520 | .0246470 |
| %RSD | 12.73748 | 8.807072 | 5.099010 | 5.240044 | 2.705802 | 5.123878 |
| #1 | .0194809 | .0561482 | .0164502 | .0608400 | .1120732 | .4758991 |
| #2 | .0210350 | .0532891 | .0181413 | .0647595 | .1061697 | .4593391 |
| #3 | .0248745 | .0471513 | .0169042 | .0675565 | .1090559 | .5078278 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4056127 | .0106127 | .0099370 | 10.19178 | .0211504 | .1017605 |
| Stddev | .0045236 | .0002179 | .0001121 | .03773 | .0010574 | .0005007 |
| %RSD | 1.115247 | 2.052783 | 1.128484 | .3702060 | 4.999666 | .4920087 |
| #1 | .4082450 | .0103837 | .0099571 | 10.16288 | .0223499 | .1023136 |
| #2 | .4082037 | .0108174 | .0098161 | 10.23446 | .0207485 | .1013383 |
| #3 | .4003894 | .0106370 | .0100377 | 10.17799 | .0203528 | .1016295 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0539389 | .2254370 | .0308347 | 10.46651 | .0779761 | .0207549 |
| Stddev | .0014390 | .0196557 | .0006104 | .07308 | .0007993 | .0013296 |
| %RSD | 2.667881 | 8.718953 | 1.979532 | .6982168 | 1.025008 | 6.406118 |
| #1 | .0553358 | .2329582 | .0315393 | 10.43566 | .0785592 | .0207280 |
| #2 | .0540197 | .2402215 | .0304684 | 10.54995 | .0770650 | .0194390 |
| #3 | .0524611 | .2031312 | .0304963 | 10.41391 | .0783041 | .0220977 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 7.466350 | .1029067 | .1192018 | 9.318468 | .0152462 | F -.005852 |
| Stddev | .051965 | .0128057 | .0002791 | .087988 | .0029826 | .003342 |
| %RSD | .6959914 | 12.44398 | .2341260 | .9442346 | 19.56297 | 57.10440 |
| #1 | 7.517606 | .1057345 | .1188795 | 9.376249 | .0162644 | -.003045 |
| #2 | 7.467740 | .1140621 | .1193646 | 9.361951 | .0118878 | -.009549 |
| #3 | 7.413704 | .0889234 | .1193613 | 9.217204 | .0175863 | -.004963 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165891BS Acquired: 01/03/2025 14:55:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS891 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0188871 | .1728443 | F .4923688 | .0126740 | .1921867 | .2146811 |
| Stddev | .0004050 | .0029839 | .0023088 | .0006635 | .0014697 | .0007784 |
| %RSD | 2.144053 | 1.726358 | .4689218 | 5.235473 | .7647479 | .3625896 |
| #1 | .0188049 | .1700066 | .4947684 | .0132029 | .1926205 | .2148621 |
| #2 | .0185296 | .1759556 | .4921749 | .0119295 | .1933907 | .2153531 |
| #3 | .0193268 | .1725707 | .4901630 | .0128897 | .1905489 | .2138281 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0263361 |
| Stddev | .0040515 |
| %RSD | 15.38393 |
| #1 | .0296157 |
| #2 | .0275855 |
| #3 | .0218070 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1798.642 | 18240.78 | 1810.889 | 1352.826 | 1988.795 |
| Stddev | 4.797 | 80.34 | 10.682 | 2.502 | 5.177 |
| %RSD | .2667122 | .4404460 | .5898697 | .1849746 | .2602888 |
| #1 | 1799.837 | 18323.35 | 1802.133 | 1355.648 | 1988.561 |
| #2 | 1802.730 | 18236.12 | 1807.744 | 1351.949 | 1994.085 |
| #3 | 1793.361 | 18162.87 | 1822.790 | 1350.880 | 1983.739 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165566BL Acquired: 01/03/2025 14:58:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS566 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0012127 | -.001496 | -.002769 | .0018354 | -.000562 | -.005904 | -.002035 |
| Stddev | .0047711 | .000977 | .001812 | .0095975 | .002443 | .012026 | .004698 |
| %RSD | 393.4326 | 65.32018 | 65.43905 | 522.9159 | 434.7430 | 203.6904 | 230.8338 |
| #1 | .0064980 | -.001769 | -.001695 | -.009166 | -.000657 | .007972 | .002224 |
| #2 | -.002776 | -.000411 | -.004861 | .006175 | .001927 | -.013298 | -.007074 |
| #3 | -.000084 | -.002308 | -.001750 | .008497 | -.002955 | -.012386 | -.001256 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000080 | .0000251 | -.057207 | -.000852 | -.000307 | -.006932 | .0144998 |
| Stddev | .000069 | .0001197 | .042188 | .001059 | .000374 | .005170 | .0164156 |
| %RSD | 86.14118 | 476.5296 | 73.74559 | 124.3511 | 121.8817 | 74.57913 | 113.2123 |
| #1 | -.000001 | .0001340 | -.008505 | -.001740 | -.000552 | -.008117 | .0149031 |
| #2 | -.000124 | -.000103 | -.080610 | -.001135 | .000123 | -.001273 | .0307100 |
| #3 | -.000114 | .000044 | -.082506 | .000320 | -.000491 | -.011407 | -.002114 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0006858 | -.089003 | -.000406 | .0002131 | -.022642 | -.011985 | -.001417 |
| Stddev | .0015162 | .067447 | .000497 | .0001309 | .016295 | .001993 | .000346 |
| %RSD | 221.0834 | 75.78033 | 122.2744 | 61.42869 | 71.96901 | 16.63152 | 24.40679 |
| #1 | -.000057 | -.033954 | -.000764 | .0001386 | -.019999 | -.010237 | -.001571 |
| #2 | .002430 | -.068818 | .000161 | .0001364 | -.040097 | -.011562 | -.001021 |
| #3 | -.000316 | -.164238 | -.000617 | .0003642 | -.007830 | -.014156 | -.001660 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1232903 | -.005578 | -.004545 | .0000027 | -.008983 | -.002260 | -.000188 |
| Stddev | .2369928 | .001432 | .000953 | .0007592 | .003956 | .000973 | .000540 |
| %RSD | 192.2234 | 25.67635 | 20.96269 | 28533.68 | 44.03330 | 43.06615 | 287.4732 |
| #1 | .1865682 | -.006313 | -.005179 | -.000620 | -.008036 | -.001311 | .000424 |
| #2 | .3222212 | -.006495 | -.005007 | -.000221 | -.005587 | -.003256 | -.000599 |
| #3 | -.138919 | -.003928 | -.003449 | .000849 | -.013327 | -.002213 | -.000388 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165566BL Acquired: 01/03/2025 14:58:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS566 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.010910 | -.000291 | -.011884 |
| Stddev | .001344 | .000109 | .003880 |
| %RSD | 12.32261 | 37.29597 | 32.64381 |
| | | | |
| #1 | -.012417 | -.000170 | -.007832 |
| #2 | -.009835 | -.000379 | -.015565 |
| #3 | -.010478 | -.000325 | -.012256 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1799.485 | 18318.42 | 1797.820 | 1348.353 | 1992.122 |
| Stddev | 1.171 | 63.28 | 11.227 | 3.072 | 1.270 |
| %RSD | .0650599 | .3454227 | .6244785 | .2278277 | .0637371 |
| | | | | | |
| #1 | 1798.134 | 18281.17 | 1790.687 | 1349.766 | 1993.214 |
| #2 | 1800.117 | 18282.61 | 1792.013 | 1344.828 | 1992.424 |
| #3 | 1800.203 | 18391.48 | 1810.761 | 1350.464 | 1990.729 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165566BS Acquired: 01/03/2025 15:03:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS566 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0220361 | .0524066 | .0191565 | .0613230 | .1109244 | .3843472 |
| Stddev | .0010193 | .0014546 | .0018927 | .0049134 | .0018515 | .0326726 |
| %RSD | 4.625556 | 2.775657 | 9.880054 | 8.012348 | 1.669129 | 8.500812 |
| #1 | .0209007 | .0529444 | .0202381 | .0564849 | .1124949 | .3700266 |
| #2 | .0228723 | .0535158 | .0169711 | .0663085 | .1088830 | .4217348 |
| #3 | .0223353 | .0507597 | .0202604 | .0611756 | .1113953 | .3612802 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4074995 | .0103344 | .0097342 | 10.11095 | .0205814 | .1019990 |
| Stddev | .0013743 | .0000837 | .0000498 | .05616 | .0008609 | .0006102 |
| %RSD | .3372601 | .8096730 | .5112193 | .5553993 | 4.183082 | .5982324 |
| #1 | .4059268 | .0103012 | .0097872 | 10.04666 | .0205816 | .1021001 |
| #2 | .4081020 | .0102724 | .0097268 | 10.15045 | .0197203 | .1025523 |
| #3 | .4084697 | .0104295 | .0096885 | 10.13573 | .0214422 | .1013446 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0421970 | .1964252 | .0327523 | 10.62529 | .0782159 | .0214236 |
| Stddev | .0116999 | .0492310 | .0015648 | .05754 | .0013231 | .0015790 |
| %RSD | 27.72687 | 25.06348 | 4.777534 | .5415684 | 1.691654 | 7.370155 |
| #1 | .0353557 | .1553948 | .0313132 | 10.57811 | .0797045 | .0197225 |
| #2 | .0557065 | .2510149 | .0325256 | 10.60837 | .0777696 | .0217060 |
| #3 | .0355288 | .1828660 | .0344180 | 10.68940 | .0771736 | .0228423 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 7.500608 | .1029298 | .1174156 | 9.387644 | .0194780 | F -.007448 |
| Stddev | .045574 | .0158669 | .0006815 | .325964 | .0043490 | .003008 |
| %RSD | .6076055 | 15.41527 | .5804588 | 3.472262 | 22.32773 | 40.39132 |
| #1 | 7.463774 | .1094827 | .1166305 | 9.056167 | .0215218 | -.004417 |
| #2 | 7.486475 | .1144705 | .1177606 | 9.707799 | .0224285 | -.010433 |
| #3 | 7.551574 | .0848360 | .1178557 | 9.398967 | .0144836 | -.007494 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165566BS Acquired: 01/03/2025 15:03:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS566 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0194969 | .1673178 | F .4853568 | .0120943 | .1935985 | .2122947 |
| Stddev | .0003821 | .0036629 | .0064813 | .0001341 | .0038711 | .0010706 |
| %RSD | 1.960029 | 2.189189 | 1.335364 | 1.108652 | 1.999546 | .5042928 |
| | | | | | | |
| #1 | .0197276 | .1693823 | .4811128 | .0121017 | .1902145 | .2118051 |
| #2 | .0197072 | .1630887 | .4821404 | .0122245 | .1927613 | .2115565 |
| #3 | .0190557 | .1694826 | .4928172 | .0119566 | .1978197 | .2135226 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0227745 |
| Stddev | .0021160 |
| %RSD | 9.290932 |
| | |
| #1 | .0251735 |
| #2 | .0211738 |
| #3 | .0219762 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1792.861 | 18286.97 | 1812.576 | 1347.364 | 1983.571 |
| Stddev | 2.396 | 98.58 | 8.717 | 7.575 | 2.402 |
| %RSD | .1336240 | .5390477 | .4809418 | .5621837 | .1210932 |
| | | | | | |
| #1 | 1794.237 | 18236.67 | 1819.546 | 1343.931 | 1984.617 |
| #2 | 1794.251 | 18223.68 | 1815.381 | 1342.115 | 1985.272 |
| #3 | 1790.095 | 18400.54 | 1802.802 | 1356.048 | 1980.823 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-01 Acquired: 01/03/2025 15:07:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM98 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1109477 | -.008848 | 3.732858 | .0505353 | .0410913 | 41.76621 |
| Stddev | .0073445 | .001562 | .004327 | .0056102 | .0008027 | .26037 |
| %RSD | 6.619812 | 17.65446 | .1159281 | 11.10161 | 1.953527 | .6233930 |
| #1 | .1182920 | -.008800 | 3.735666 | .0562851 | .0414385 | 42.06685 |
| #2 | .1109482 | -.010433 | 3.735034 | .0502449 | .0401734 | 41.61454 |
| #3 | .1036030 | -.007310 | 3.727875 | .0450759 | .0416620 | 41.61724 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.243064 | .0057850 | .0073122 | 234.4576 | .1578546 | .0937320 |
| Stddev | .005768 | .0001641 | .0002127 | .2577 | .0009578 | .0002093 |
| %RSD | .4640206 | 2.836793 | 2.908239 | .1099008 | .6067328 | .2232994 |
| #1 | 1.243742 | .0058561 | .0075482 | 234.7034 | .1577100 | .0939720 |
| #2 | 1.236987 | .0055973 | .0071355 | 234.1895 | .1569773 | .0936372 |
| #3 | 1.248463 | .0059016 | .0072529 | 234.4798 | .1588764 | .0935870 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4343102 | 146.1707 | 4.641555 | 85.00012 | .1837545 | -.008473 |
| Stddev | .0102578 | .3856 | .016982 | .38786 | .0007039 | .001394 |
| %RSD | 2.361865 | .2638194 | .3658650 | .4563026 | .3830731 | 16.45027 |
| #1 | .4381937 | 146.5729 | 4.657700 | 85.44791 | .1829768 | -.008847 |
| #2 | .4420593 | 146.1351 | 4.623845 | 84.78336 | .1843481 | -.009643 |
| #3 | .4226777 | 145.8041 | 4.643120 | 84.76910 | .1839385 | -.006931 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6871475 | .1606266 | 2.922471 | 6.808532 | F 12.37505 | -.250029 |
| Stddev | .0144127 | .0166390 | .006961 | .149442 | .00934 | .003547 |
| %RSD | 2.097472 | 10.35880 | .2381998 | 2.194924 | .0755124 | 1.418782 |
| #1 | .6746795 | .1791112 | 2.928263 | 6.759847 | 12.38581 | -.247797 |
| #2 | .6838348 | .1559223 | 2.914748 | 6.689503 | 12.37035 | -.248170 |
| #3 | .7029281 | .1468462 | 2.924402 | 6.976245 | 12.36899 | -.254119 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-01 Acquired: 01/03/2025 15:07:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM98 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0144993 | 4.930597 | 4.401578 | .2871252 | .8541772 | .2282922 |
| Stddev | .0007414 | .002665 | .005387 | .0017451 | .0090450 | .0011156 |
| %RSD | 5.113615 | .0540582 | .1223793 | .6077711 | 1.058918 | .4886702 |
| | | | | | | |
| #1 | .0137467 | 4.928526 | 4.398379 | .2890160 | .8642126 | .2294109 |
| #2 | .0152291 | 4.929660 | 4.407797 | .2867832 | .8466533 | .2282859 |
| #3 | .0145220 | 4.933604 | 4.398559 | .2855765 | .8516658 | .2271798 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0637974 |
| Stddev | .0032291 |
| %RSD | 5.061464 |
| | |
| #1 | .0600689 |
| #2 | .0656789 |
| #3 | .0656445 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1897.398 | 19314.13 | 1934.870 | 1417.301 | 1816.402 |
| Stddev | 2.323 | 91.12 | 6.285 | 10.371 | 2.357 |
| %RSD | .1224108 | .4717818 | .3248426 | .7317372 | .1297595 |
| | | | | | |
| #1 | 1899.843 | 19350.49 | 1932.151 | 1413.368 | 1818.913 |
| #2 | 1897.128 | 19381.46 | 1942.057 | 1429.063 | 1814.238 |
| #3 | 1895.222 | 19210.44 | 1930.402 | 1409.472 | 1816.055 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV101 Acquired: 01/03/2025 15:10:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV101 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.022171 | 4.961384 | 25.33066 | 5.016289 | 5.028464 | 413.9742 | 10.34215 |
| Stddev | .005517 | .007068 | .02636 | .025778 | .013616 | 2.1275 | .02588 |
| %RSD | .1098619 | .1424649 | .1040526 | .5138825 | .2707847 | .5139202 | .2502331 |
| #1 | 5.018036 | 4.968131 | 25.31993 | 5.022181 | 5.013049 | 411.5376 | 10.31544 |
| #2 | 5.028436 | 4.954033 | 25.31136 | 4.988075 | 5.038850 | 415.4638 | 10.34388 |
| #3 | 5.020040 | 4.961988 | 25.36069 | 5.038611 | 5.033495 | 414.9211 | 10.36712 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5204287 | 2.541779 | 413.9136 | 15.94240 | 2.570226 | 15.58179 | 417.2798 |
| Stddev | .0031065 | .002342 | .7783 | .05183 | .002500 | .06889 | 1.9691 |
| %RSD | .5969076 | .0921552 | .1880404 | .3251369 | .0972779 | .4420931 | .4718893 |
| #1 | .5222545 | 2.540089 | 413.2184 | 15.88340 | 2.573112 | 15.52312 | 415.0177 |
| #2 | .5221896 | 2.540796 | 413.7680 | 15.98065 | 2.568804 | 15.56462 | 418.6096 |
| #3 | .5168418 | 2.544453 | 414.7545 | 15.96313 | 2.568760 | 15.65764 | 418.2120 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 15.50975 | 415.6826 | 2.559184 | 1.276424 | 420.9336 | 2.612064 | 15.20990 |
| Stddev | .08141 | 2.3592 | .005529 | .004837 | 3.7601 | .013797 | .03172 |
| %RSD | .5248641 | .5675511 | .2160259 | .3789379 | .8932842 | .5281852 | .2085510 |
| #1 | 15.41608 | 412.9805 | 2.553418 | 1.273719 | 425.2722 | 2.598270 | 15.22270 |
| #2 | 15.54981 | 417.3330 | 2.559695 | 1.282008 | 418.6197 | 2.612058 | 15.17378 |
| #3 | 15.56336 | 416.7344 | 2.564440 | 1.273545 | 418.9089 | 2.625864 | 15.23322 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 158.4596 | 5.088355 | 4.585228 | 4.993687 | 5.101755 | 5.135504 | 5.130561 |
| Stddev | .0319 | .004958 | .025592 | .010111 | .007867 | .030513 | .007878 |
| %RSD | .0201624 | .0974400 | .5581501 | .2024658 | .1541972 | .5941610 | .1535479 |
| #1 | 158.4402 | 5.090151 | 4.581696 | 4.982388 | 5.101197 | 5.133358 | 5.122961 |
| #2 | 158.4965 | 5.092164 | 4.612404 | 5.001880 | 5.094182 | 5.167033 | 5.130031 |
| #3 | 158.4422 | 5.082749 | 4.561586 | 4.996794 | 5.109886 | 5.106120 | 5.138691 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV101 Acquired: 01/03/2025 15:10:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV101 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 5.192689 | 4.953785 | 5.162527 |
| Stddev | .038702 | .021848 | .017015 |
| %RSD | .7453190 | .4410420 | .3295791 |
| | | | |
| #1 | 5.148605 | 4.928708 | 5.158295 |
| #2 | 5.221080 | 4.968713 | 5.148027 |
| #3 | 5.208381 | 4.963934 | 5.181257 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1500.994 | 16275.87 | 1680.646 | 1113.446 | 1618.076 |
| Stddev | 4.218 | 72.43 | 5.746 | 3.944 | 4.687 |
| %RSD | .2809837 | .4449845 | .3418882 | .3542011 | .2896538 |
| | | | | | |
| #1 | 1503.832 | 16359.19 | 1682.058 | 1112.627 | 1620.529 |
| #2 | 1503.003 | 16240.54 | 1674.326 | 1117.735 | 1621.027 |
| #3 | 1496.148 | 16227.90 | 1685.555 | 1109.976 | 1612.672 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB101 Acquired: 01/03/2025 15:14:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB101 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0099878 | -.002772 | -.002298 | .0041717 | .0032293 | -.015428 | -.000600 |
| Stddev | .0026369 | .002107 | .002500 | .0021576 | .0029588 | .016020 | .000309 |
| %RSD | 26.40100 | 76.00109 | 108.7766 | 51.71996 | 91.62506 | 103.8360 | 51.55050 |
| #1 | .0105370 | -.002607 | .000147 | .0028627 | .0000717 | -.017431 | -.000876 |
| #2 | .0123069 | -.004956 | -.004849 | .0029905 | .0036781 | .001499 | -.000266 |
| #3 | .0071196 | -.000753 | -.002192 | .0066620 | .0059380 | -.030352 | -.000659 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0000653 | .0000246 | -.020547 | -.001139 | .0001996 | .0071096 | -.004610 |
| Stddev | .0001028 | .0000067 | .031042 | .000597 | .0004707 | .0100794 | .087326 |
| %RSD | 157.4205 | 27.12229 | 151.0742 | 52.40491 | 235.8743 | 141.7725 | 1894.134 |
| #1 | .0001486 | .0000256 | -.039780 | -.000466 | .0000267 | -.003136 | -.099366 |
| #2 | .0000968 | .0000175 | .015264 | -.001347 | .0007323 | .017014 | .012902 |
| #3 | -.000050 | .0000307 | -.037125 | -.001603 | -.000160 | .007451 | .072633 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0009641 | .0134226 | -.000556 | .0008828 | .0120603 | -.016955 | -.000120 |
| Stddev | .0017273 | .0416086 | .000254 | .0009336 | .0236885 | .006283 | .000091 |
| %RSD | 179.1674 | 309.9890 | 45.64949 | 105.7558 | 196.4184 | 37.05426 | 76.00088 |
| #1 | .0024627 | -.025574 | -.000723 | .0019285 | -.011624 | -.016761 | -.000022 |
| #2 | .0013547 | .008616 | -.000681 | .0005869 | .012051 | -.023333 | -.000135 |
| #3 | -.000925 | .057226 | -.000264 | .0001330 | .035754 | -.010772 | -.000203 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2203201 | -.000468 | .0125955 | .0005405 | -.006240 | -.001635 | .0016538 |
| Stddev | .1319329 | .002468 | .0012351 | .0009294 | .005308 | .001770 | .0009309 |
| %RSD | 59.88240 | 526.8317 | 9.806091 | 171.9313 | 85.06386 | 108.2877 | 56.28646 |
| #1 | .3675185 | -.002368 | .0120150 | .0004059 | -.000320 | -.000776 | .0006741 |
| #2 | .1807176 | .002321 | .0140139 | .0015299 | -.007825 | -.000458 | .0025267 |
| #3 | .1127242 | -.001359 | .0117575 | -.000314 | -.010575 | -.003671 | .0017606 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB101 Acquired: 01/03/2025 15:14:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB101 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.005271 | -.000370 | -.004153 |
| Stddev | .002985 | .000141 | .008234 |
| %RSD | 56.62981 | 38.10325 | 198.2852 |
| | | | |
| #1 | -.006990 | -.000278 | -.007671 |
| #2 | -.006998 | -.000300 | .005256 |
| #3 | -.001824 | -.000533 | -.010043 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1829.423 | 18479.20 | 1809.721 | 1373.612 | 2022.411 |
| Stddev | 3.741 | 46.46 | 9.079 | 7.920 | 4.284 |
| %RSD | .2044907 | .2514168 | .5016842 | .5766179 | .2118467 |
| | | | | | |
| #1 | 1828.316 | 18481.15 | 1817.504 | 1373.030 | 2020.190 |
| #2 | 1826.360 | 18431.80 | 1799.747 | 1365.998 | 2019.693 |
| #3 | 1833.592 | 18524.66 | 1811.913 | 1381.807 | 2027.350 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-02 Acquired: 01/03/2025 15:18:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM99 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1277980 | -.020468 | 3.217530 | .0669079 | .0504259 | 43.29390 |
| Stddev | .0042409 | .002152 | .008940 | .0046258 | .0040722 | .28426 |
| %RSD | 3.318408 | 10.51507 | .2778448 | 6.913616 | 8.075624 | .6565823 |
| #1 | .1255010 | -.022242 | 3.224121 | .0697664 | .0543983 | 43.27106 |
| #2 | .1326918 | -.021089 | 3.221114 | .0693863 | .0462608 | 43.58889 |
| #3 | .1252011 | -.018074 | 3.207354 | .0615711 | .0506186 | 43.02175 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.249538 | .0067927 | .0067217 | 173.8269 | .1541832 | .1037355 |
| Stddev | .006630 | .0000394 | .0000422 | .6985 | .0003502 | .0012527 |
| %RSD | .5306312 | .5802576 | .6282758 | .4018188 | .2271283 | 1.207548 |
| #1 | 1.245284 | .0068089 | .0066863 | 173.0803 | .1538009 | .1044216 |
| #2 | 1.246152 | .0067477 | .0067684 | 173.9358 | .1544885 | .1044952 |
| #3 | 1.257177 | .0068214 | .0067105 | 174.4644 | .1542601 | .1022897 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4277663 | 165.9716 | 4.622710 | 54.88525 | .1996046 | -.010421 |
| Stddev | .0099650 | .5732 | .010000 | .36091 | .0020278 | .001191 |
| %RSD | 2.329537 | .3453710 | .2163189 | .6575789 | 1.015883 | 11.42801 |
| #1 | .4385317 | 165.5599 | 4.618243 | 54.68880 | .2002897 | -.011617 |
| #2 | .4188650 | 166.6263 | 4.634164 | 55.30177 | .2012010 | -.010410 |
| #3 | .4259022 | 165.7287 | 4.615722 | 54.66518 | .1973230 | -.009235 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7176350 | .1889471 | 2.566720 | 5.896804 | F 11.74906 | -.300088 |
| Stddev | .0123082 | .0094278 | .009101 | .194668 | .03085 | .004587 |
| %RSD | 1.715101 | 4.989645 | .3545780 | 3.301252 | .2625619 | 1.528519 |
| #1 | .7262747 | .1917916 | 2.568702 | 6.107493 | 11.76337 | -.298712 |
| #2 | .7230880 | .1966251 | 2.556792 | 5.723611 | 11.77016 | -.296346 |
| #3 | .7035424 | .1784246 | 2.574667 | 5.859306 | 11.71366 | -.305205 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-02 Acquired: 01/03/2025 15:18:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM99 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0133920 | 5.045535 | 4.674225 | .2512143 | .9418363 | .1961223 |
| Stddev | .0008316 | .016174 | .023186 | .0017372 | .0072065 | .0016064 |
| %RSD | 6.209903 | .3205512 | .4960380 | .6915365 | .7651497 | .8190876 |
| #1 | .0129580 | 5.035435 | 4.655078 | .2502972 | .9376559 | .1945945 |
| #2 | .0143508 | 5.064189 | 4.667593 | .2532179 | .9501575 | .1977972 |
| #3 | .0128671 | 5.036980 | 4.700004 | .2501278 | .9376954 | .1959750 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0719468 |
| Stddev | .0070023 |
| %RSD | 9.732544 |
| #1 | .0660268 |
| #2 | .0796762 |
| #3 | .0701375 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1951.000 | 19784.44 | 1971.266 | 1459.812 | 1877.244 |
| Stddev | 3.278 | 55.35 | 2.503 | 3.890 | 4.179 |
| %RSD | .1680239 | .2797589 | .1269584 | .2664764 | .2225979 |
| #1 | 1947.446 | 19731.72 | 1970.592 | 1455.386 | 1872.951 |
| #2 | 1953.906 | 19779.51 | 1974.037 | 1462.687 | 1877.483 |
| #3 | 1951.648 | 19842.08 | 1969.169 | 1461.364 | 1881.298 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-16 Acquired: 01/03/2025 15:22:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMM9 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2186262 | -.017687 | 2.741373 | .1244521 | .0594805 | 73.96075 |
| Stddev | .0031810 | .001911 | .000553 | .0100449 | .0045311 | .28396 |
| %RSD | 1.455010 | 10.80456 | .0201659 | 8.071333 | 7.617798 | .3839275 |
| #1 | .2213420 | -.019891 | 2.741853 | .1295199 | .0643370 | 74.24741 |
| #2 | .2194101 | -.016480 | 2.741497 | .1309536 | .0587379 | 73.67958 |
| #3 | .2151265 | -.016691 | 2.740768 | .1128828 | .0553665 | 73.95527 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.596058 | .0077351 | .0083024 | 249.8388 | .1623631 | .1642136 |
| Stddev | .003693 | .0002140 | .0002803 | .6357 | .0008760 | .0012189 |
| %RSD | .2313592 | 2.766926 | 3.376220 | .2544464 | .5395378 | .7422875 |
| #1 | 1.595434 | .0079666 | .0083452 | 250.4974 | .1627240 | .1635213 |
| #2 | 1.592716 | .0076942 | .0080031 | 249.2288 | .1613643 | .1656210 |
| #3 | 1.600022 | .0075444 | .0085588 | 249.7902 | .1630011 | .1634984 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5649014 | 247.1735 | 21.71324 | 34.80055 | .2060889 | -.013888 |
| Stddev | .0053683 | .7951 | .05786 | .13263 | .0011898 | .000589 |
| %RSD | .9503054 | .3216900 | .2664670 | .3811209 | .5773141 | 4.243188 |
| #1 | .5598611 | 248.0910 | 21.77928 | 34.91096 | .2074488 | -.014015 |
| #2 | .5642965 | 246.7451 | 21.67149 | 34.65342 | .2052398 | -.014403 |
| #3 | .5705465 | 246.6845 | 21.68894 | 34.83725 | .2055782 | -.013245 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7458208 | .2117989 | 1.610795 | 10.13980 | F 13.75797 | -.495518 |
| Stddev | .0055354 | .0153727 | .008731 | .08289 | .04771 | .013425 |
| %RSD | .7421961 | 7.258152 | .5420313 | .8174261 | .3467748 | 2.709266 |
| #1 | .7452230 | .2044986 | 1.617270 | 10.21645 | 13.79554 | -.498229 |
| #2 | .7406084 | .2014367 | 1.600865 | 10.05184 | 13.77406 | -.480944 |
| #3 | .7516308 | .2294615 | 1.614249 | 10.15111 | 13.70429 | -.507380 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-16 Acquired: 01/03/2025 15:22:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMM9 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0148410 | 3.857958 | 4.275694 | .1698437 | .8932016 | .1966950 |
| Stddev | .0003777 | .036457 | .047668 | .0024672 | .0013024 | .0008491 |
| %RSD | 2.545213 | .9449702 | 1.114861 | 1.452602 | .1458066 | .4316615 |
| #1 | .0147426 | 3.887677 | 4.312259 | .1726250 | .8926966 | .1969268 |
| #2 | .0145223 | 3.868918 | 4.221782 | .1679193 | .8922274 | .1957541 |
| #3 | .0152582 | 3.817278 | 4.293042 | .1689867 | .8946808 | .1974040 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0865996 |
| Stddev | .0029557 |
| %RSD | 3.413061 |
| #1 | .0864018 |
| #2 | .0896493 |
| #3 | .0837478 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2240.212 | 22670.80 | 2271.389 | 1670.202 | 1859.723 |
| Stddev | 2.422 | 66.95 | 17.910 | .678 | 1.347 |
| %RSD | .1080968 | .2953063 | .7884989 | .0405693 | .0724056 |
| #1 | 2240.942 | 22656.05 | 2255.223 | 1670.339 | 1858.293 |
| #2 | 2242.184 | 22612.46 | 2290.642 | 1669.467 | 1860.966 |
| #3 | 2237.509 | 22743.90 | 2268.302 | 1670.801 | 1859.909 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-03 Acquired: 01/03/2025 15:26:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA0 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1936050 | -.022671 | 4.443515 | .0772362 | .0562441 | 54.98736 |
| Stddev | .0049848 | .002787 | .006506 | .0045078 | .0020312 | .25713 |
| %RSD | 2.574727 | 12.29232 | .1464196 | 5.836408 | 3.611384 | .4676252 |
| #1 | .1967144 | -.019528 | 4.451017 | .0736525 | .0583247 | 55.25972 |
| #2 | .1962452 | -.023645 | 4.440101 | .0822973 | .0561415 | 54.74879 |
| #3 | .1878554 | -.024840 | 4.439426 | .0757586 | .0542662 | 54.95357 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.599917 | .0078637 | .0083697 | 186.5311 | .1829584 | .1095886 |
| Stddev | .009751 | .0001196 | .0000893 | .3870 | .0011571 | .0006015 |
| %RSD | .6094377 | 1.520419 | 1.066578 | .2074844 | .6324310 | .5488897 |
| #1 | 1.590342 | .0079754 | .0083333 | 186.5937 | .1832333 | .1095696 |
| #2 | 1.599574 | .0078781 | .0084714 | 186.1166 | .1839533 | .1101994 |
| #3 | 1.609834 | .0077376 | .0083044 | 186.8830 | .1816887 | .1089968 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6050659 | 189.7123 | 6.445309 | 51.53213 | .2166037 | -.009483 |
| Stddev | .0170385 | .4627 | .032803 | .32158 | .0013214 | .001442 |
| %RSD | 2.815975 | .2439205 | .5089369 | .6240421 | .6100331 | 15.21100 |
| #1 | .5890214 | 190.1977 | 6.473376 | 51.75133 | .2177074 | -.009419 |
| #2 | .6229492 | 189.2761 | 6.409248 | 51.16295 | .2151395 | -.008073 |
| #3 | .6032270 | 189.6632 | 6.453302 | 51.68210 | .2169643 | -.010956 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .9229348 | .2040811 | 3.477506 | 6.174594 | F 14.82853 | -.352546 |
| Stddev | .0185016 | .0065218 | .013820 | .007248 | .03491 | .001719 |
| %RSD | 2.004649 | 3.195686 | .3974191 | .1173816 | .2354103 | .4875929 |
| #1 | .9277910 | .2086502 | 3.487664 | 6.177758 | 14.86835 | -.352721 |
| #2 | .9385239 | .1966123 | 3.483087 | 6.179722 | 14.80323 | -.354171 |
| #3 | .9024894 | .2069809 | 3.461768 | 6.166302 | 14.81401 | -.350746 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-03 Acquired: 01/03/2025 15:26:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA0 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0144904 | 4.046266 | 6.726216 | .3998661 | 1.088960 | .2735159 |
| Stddev | .0005235 | .023018 | .039069 | .0024797 | .005674 | .0014015 |
| %RSD | 3.612788 | .5688669 | .5808401 | .6201429 | .5210293 | .5123916 |
| #1 | .0139821 | 4.070945 | 6.759038 | .4015990 | 1.095357 | .2750716 |
| #2 | .0144612 | 4.042474 | 6.736606 | .4009738 | 1.086983 | .2723520 |
| #3 | .0150279 | 4.025380 | 6.683002 | .3970256 | 1.084538 | .2731242 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0852440 |
| Stddev | .0018950 |
| %RSD | 2.223009 |
| #1 | .0872045 |
| #2 | .0851053 |
| #3 | .0834222 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2002.415 | 20291.28 | 2019.935 | 1488.250 | 1893.982 |
| Stddev | 1.663 | 35.61 | 6.141 | 3.170 | 1.159 |
| %RSD | .0830317 | .1754849 | .3040333 | .2130016 | .0612167 |
| #1 | 2004.241 | 20280.89 | 2013.123 | 1485.702 | 1893.658 |
| #2 | 2000.989 | 20262.03 | 2021.632 | 1487.248 | 1893.019 |
| #3 | 2002.015 | 20330.93 | 2025.049 | 1491.800 | 1895.269 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-04 Acquired: 01/03/2025 15:30:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA0D Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1820366 | -.021613 | 4.208228 | .0796914 | .0539496 | 52.83409 |
| Stddev | .0027870 | .002484 | .009704 | .0071797 | .0014882 | .17890 |
| %RSD | 1.531001 | 11.49118 | .2306016 | 9.009352 | 2.758442 | .3386161 |
| #1 | .1851795 | -.019421 | 4.219423 | .0746133 | .0540001 | 52.89566 |
| #2 | .1798660 | -.024311 | 4.202209 | .0879056 | .0524368 | 52.63253 |
| #3 | .1810643 | -.021107 | 4.203052 | .0765553 | .0554118 | 52.97408 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.557454 | .0077123 | .0082036 | 178.1910 | .1755376 | .1084836 |
| Stddev | .004977 | .0002949 | .0001922 | .2630 | .0014619 | .0003820 |
| %RSD | .3195277 | 3.824209 | 2.342793 | .1476182 | .8327901 | .3521403 |
| #1 | 1.562067 | .0074496 | .0083546 | 178.4055 | .1738882 | .1088061 |
| #2 | 1.552180 | .0080314 | .0082690 | 177.8976 | .1766733 | .1080617 |
| #3 | 1.558115 | .0076561 | .0079873 | 178.2701 | .1760512 | .1085830 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5896917 | 186.3931 | 6.113031 | 44.89003 | .2102080 | -.010992 |
| Stddev | .0014582 | .6520 | .021332 | .39074 | .0007484 | .001376 |
| %RSD | .2472778 | .3498010 | .3489602 | .8704450 | .3560487 | 12.51573 |
| #1 | .5885164 | 186.1975 | 6.114074 | 44.81978 | .2102846 | -.011629 |
| #2 | .5913235 | 185.8613 | 6.091197 | 44.53918 | .2109152 | -.009413 |
| #3 | .5892352 | 187.1205 | 6.133823 | 45.31113 | .2094242 | -.011934 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .9755674 | .2145572 | 3.334001 | 6.344714 | F 14.34585 | -.336918 |
| Stddev | .0077535 | .0116833 | .007631 | .217727 | .02861 | .002776 |
| %RSD | .7947693 | 5.445316 | .2288955 | 3.431625 | .1994552 | .8240761 |
| #1 | .9787320 | .2275737 | 3.334127 | 6.593843 | 14.37365 | -.334767 |
| #2 | .9667321 | .2111196 | 3.326307 | 6.249404 | 14.31649 | -.335935 |
| #3 | .9812381 | .2049784 | 3.341569 | 6.190894 | 14.34741 | -.340052 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-04 Acquired: 01/03/2025 15:30:04 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA0D Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0158409 | 4.312583 | 6.424009 | .3826187 | 1.063861 | .2545024 |
| Stddev | .0007989 | .015728 | .031404 | .0023426 | .004547 | .0008185 |
| %RSD | 5.043605 | .3647083 | .4888466 | .6122584 | .4273699 | .3216201 |
| #1 | .0167393 | 4.302725 | 6.388969 | .3811809 | 1.069067 | .2543673 |
| #2 | .0152100 | 4.304303 | 6.433449 | .3853219 | 1.060674 | .2537599 |
| #3 | .0155736 | 4.330722 | 6.449611 | .3813535 | 1.061841 | .2553801 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0844631 |
| Stddev | .0022944 |
| %RSD | 2.716501 |
| #1 | .0818233 |
| #2 | .0859775 |
| #3 | .0855886 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1982.962 | 20222.61 | 2001.981 | 1482.855 | 1890.997 |
| Stddev | 3.428 | 151.65 | 8.876 | 8.900 | 4.893 |
| %RSD | .1728589 | .7499042 | .4433508 | .6002199 | .2587588 |
| #1 | 1981.647 | 20104.77 | 2003.938 | 1477.793 | 1888.974 |
| #2 | 1986.853 | 20393.71 | 2009.715 | 1493.132 | 1896.577 |
| #3 | 1980.388 | 20169.37 | 1992.290 | 1477.640 | 1887.439 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-03LX5 Acquired: 01/03/2025 15:33:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA0L Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0394629 | .0017079 | .9422519 | .0153466 | .0098809 | 12.25184 | .3700434 |
| Stddev | .0028611 | .0040356 | .0066450 | .0092256 | .0022516 | .08117 | .0033179 |
| %RSD | 7.250133 | 236.2928 | .7052287 | 60.11512 | 22.78774 | .6624855 | .8966225 |
| #1 | .0377957 | .0031193 | .9418547 | .0054098 | .0076720 | 12.25061 | .3666945 |
| #2 | .0427666 | .0048482 | .9358143 | .0169896 | .0097976 | 12.17130 | .3701064 |
| #3 | .0378265 | -.002844 | .9490865 | .0236403 | .0121730 | 12.33362 | .3733294 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0018524 | .0016646 | 43.04821 | .0418638 | .0341488 | .1386082 | 43.30098 |
| Stddev | .0000931 | .0001209 | .13005 | .0012254 | .0003145 | .0042840 | .14472 |
| %RSD | 5.027518 | 7.264766 | .3020956 | 2.927206 | .9209010 | 3.090713 | .3342093 |
| #1 | .0017548 | .0017726 | 42.96300 | .0409806 | .0340007 | .1393864 | 43.32962 |
| #2 | .0018621 | .0015339 | 42.98374 | .0432628 | .0339358 | .1339885 | 43.14409 |
| #3 | .0019403 | .0016872 | 43.19790 | .0413480 | .0345100 | .1424498 | 43.42924 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.476267 | 11.76021 | .0419120 | -.003189 | .2192656 | .0461645 | .7908416 |
| Stddev | .005018 | .07528 | .0002286 | .001370 | .0291401 | .0028566 | .0061417 |
| %RSD | .3399336 | .6401584 | .5453252 | 42.96109 | 13.28985 | 6.187799 | .7765984 |
| #1 | 1.479557 | 11.68587 | .0417469 | -.001626 | .2528349 | .0444090 | .7978219 |
| #2 | 1.470491 | 11.75835 | .0418162 | -.004183 | .2044744 | .0446238 | .7862669 |
| #3 | 1.478754 | 11.83640 | .0421728 | -.003759 | .2004877 | .0494606 | .7884359 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.511335 | 3.108347 | -.082913 | .0048207 | .8368950 | 1.223505 | .0735587 |
| Stddev | .103448 | .026158 | .001896 | .0007100 | .0036940 | .017281 | .0017947 |
| %RSD | 6.844816 | .8415428 | 2.286995 | 14.72769 | .4413960 | 1.412428 | 2.439807 |
| #1 | 1.465052 | 3.087289 | -.081055 | .0049526 | .8329903 | 1.231093 | .0715577 |
| #2 | 1.629844 | 3.100122 | -.082838 | .0054555 | .8373605 | 1.203728 | .0740926 |
| #3 | 1.439110 | 3.137629 | -.084845 | .0040541 | .8403342 | 1.235693 | .0750259 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-03LX5 Acquired: 01/03/2025 15:33:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA0L Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2292968 | .0612627 | .0100854 |
| Stddev | .0025121 | .0002852 | .0027716 |
| %RSD | 1.095585 | .4654789 | 27.48152 |
| | | | |
| #1 | .2307763 | .0612900 | .0091801 |
| #2 | .2263962 | .0609649 | .0078796 |
| #3 | .2307178 | .0615332 | .0131965 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1847.046 | 18876.91 | 1843.604 | 1398.308 | 1953.455 |
| Stddev | 4.817 | 91.82 | 15.019 | 9.737 | 4.939 |
| %RSD | .2607843 | .4864275 | .8146771 | .6963345 | .2528394 |
| | | | | | |
| #1 | 1852.263 | 18842.80 | 1833.335 | 1390.001 | 1958.697 |
| #2 | 1846.107 | 18807.02 | 1860.842 | 1395.900 | 1952.781 |
| #3 | 1842.768 | 18980.91 | 1836.635 | 1409.023 | 1948.888 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-04 Acquired: 01/03/2025 15:37:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0611451 | .0140703 | .3826018 | .0049526 | .0147315 | 39.15405 |
| Stddev | .0070858 | .0039978 | .0027145 | .0080269 | .0028808 | .09170 |
| %RSD | 11.58848 | 28.41341 | .7094715 | 162.0755 | 19.55512 | .2342151 |
| | | | | | | |
| #1 | .0634912 | .0119601 | .3853173 | -.002836 | .0151556 | 39.18467 |
| #2 | .0667603 | .0115697 | .3825997 | .004495 | .0173768 | 39.22653 |
| #3 | .0531838 | .0186811 | .3798884 | .013198 | .0116623 | 39.05095 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3938866 | .0051445 | .0030487 | F 1866.261 | .0593834 | .1247332 |
| Stddev | .0033436 | .0000621 | .0001817 | 11.033 | .0008945 | .0010323 |
| %RSD | .8488693 | 1.207766 | 5.959096 | .5911761 | 1.506320 | .8275992 |
| | | | | | | |
| #1 | .3944977 | .0051319 | .0030906 | 1866.183 | .0603996 | .1235879 |
| #2 | .3968824 | .0052119 | .0028498 | 1877.333 | .0590359 | .1250201 |
| #3 | .3902795 | .0050896 | .0032059 | 1855.267 | .0587149 | .1255918 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2148242 | 125.7643 | 7.621029 | 202.2940 | .1423951 | -.009010 |
| Stddev | .0045688 | .1786 | .026648 | .2318 | .0016437 | .000512 |
| %RSD | 2.126780 | .1420114 | .3496625 | .1145909 | 1.154302 | 5.684921 |
| | | | | | | |
| #1 | .2178003 | 125.6105 | 7.607441 | 202.0591 | .1441325 | -.009036 |
| #2 | .2171087 | 125.9602 | 7.651732 | 202.5226 | .1408648 | -.009508 |
| #3 | .2095637 | 125.7221 | 7.603914 | 202.3003 | .1421881 | -.008485 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.687741 | .0637144 | .6446990 | 14.72461 | 3.573379 | -.145532 |
| Stddev | .014509 | .0120280 | .0040940 | .05908 | .012244 | .001041 |
| %RSD | .8596653 | 18.87791 | .6350243 | .4012121 | .3426507 | .7153951 |
| | | | | | | |
| #1 | 1.685012 | .0510587 | .6403193 | 14.78628 | 3.584384 | -.146279 |
| #2 | 1.674790 | .0650879 | .6453480 | 14.71903 | 3.560190 | -.145975 |
| #3 | 1.703420 | .0749967 | .6484297 | 14.66852 | 3.575564 | -.144343 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-04 Acquired: 01/03/2025 15:37:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0007175 | 2.905342 | 4.377236 | .0222720 | .0634765 | 1.741473 |
| Stddev | .0015399 | .014261 | .028951 | .0046510 | .0040995 | .005960 |
| %RSD | 214.6057 | .4908625 | .6614012 | 20.88272 | 6.458297 | .3422247 |
| #1 | .0018496 | 2.912395 | 4.354480 | .0245861 | .0678930 | 1.739395 |
| #2 | -.001036 | 2.888928 | 4.409822 | .0253120 | .0627435 | 1.748193 |
| #3 | .001339 | 2.914701 | 4.367407 | .0169179 | .0597929 | 1.736830 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1132167 |
| Stddev | .0026588 |
| %RSD | 2.348424 |
| #1 | .1143549 |
| #2 | .1151169 |
| #3 | .1101783 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1820.479 | 18488.56 | 1910.163 | 1345.706 | 1567.958 |
| Stddev | 3.864 | 65.40 | 11.473 | 3.209 | 4.488 |
| %RSD | .2122286 | .3537136 | .6006250 | .2384913 | .2862199 |
| #1 | 1824.857 | 18562.22 | 1920.127 | 1346.496 | 1571.762 |
| #2 | 1819.038 | 18466.10 | 1897.620 | 1348.446 | 1569.103 |
| #3 | 1817.544 | 18437.35 | 1912.741 | 1342.175 | 1563.008 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-05 Acquired: 01/03/2025 15:41:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1D Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0591848 | .0146018 | .3842258 | .0077389 | .0176842 | 39.27771 |
| Stddev | .0060768 | .0049466 | .0028517 | .0036529 | .0003184 | .03475 |
| %RSD | 10.26755 | 33.87645 | .7421967 | 47.20169 | 1.800718 | .0884710 |
| #1 | .0538801 | .0143224 | .3838469 | .0106820 | .0177577 | 39.29185 |
| #2 | .0578592 | .0196822 | .3815824 | .0088839 | .0173354 | 39.30315 |
| #3 | .0658149 | .0098009 | .3872480 | .0036506 | .0179595 | 39.23811 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3836615 | .0049565 | .0030348 | F 1842.094 | .0587563 | .1238033 |
| Stddev | .0025438 | .0001195 | .0001256 | 9.250 | .0010386 | .0003275 |
| %RSD | .6630216 | 2.411137 | 4.140450 | .5021431 | 1.767706 | .2645682 |
| #1 | .3864717 | .0050519 | .0031669 | 1832.781 | .0599204 | .1234580 |
| #2 | .3829965 | .0048225 | .0029168 | 1842.224 | .0584241 | .1241096 |
| #3 | .3815162 | .0049952 | .0030206 | 1851.279 | .0579244 | .1238423 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2083538 | 124.9154 | 7.571320 | 201.4331 | .1431276 | -.007963 |
| Stddev | .0065314 | .2682 | .022694 | .5067 | .0012973 | .000875 |
| %RSD | 3.134754 | .2146803 | .2997321 | .2515490 | .9064070 | 10.98174 |
| #1 | .2020026 | 124.6063 | 7.545390 | 200.8483 | .1445736 | -.006981 |
| #2 | .2080071 | 125.0538 | 7.581010 | 201.7088 | .1427434 | -.008657 |
| #3 | .2150516 | 125.0862 | 7.587561 | 201.7421 | .1420657 | -.008252 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.683083 | .0783392 | .6449996 | 14.47119 | 3.544705 | -.146155 |
| Stddev | .031769 | .0030319 | .0026805 | .22784 | .005291 | .002177 |
| %RSD | 1.887555 | 3.870257 | .4155798 | 1.574421 | .1492577 | 1.489785 |
| #1 | 1.648488 | .0816027 | .6463724 | 14.71086 | 3.539797 | -.148022 |
| #2 | 1.689815 | .0756099 | .6419108 | 14.44530 | 3.544007 | -.143763 |
| #3 | 1.710948 | .0778049 | .6467157 | 14.25740 | 3.550310 | -.146680 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-05 Acquired: 01/03/2025 15:41:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1D Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000079 | 2.886770 | 5.668521 | .0173543 | .0713769 | 1.732973 |
| Stddev | .001008 | .016963 | .024286 | .0015448 | .0056357 | .000806 |
| %RSD | 1278.375 | .5876034 | .4284324 | 8.901451 | 7.895745 | .0464885 |
| #1 | -.000755 | 2.887547 | 5.652356 | .0164423 | .0692809 | 1.733625 |
| #2 | -.000562 | 2.869432 | 5.696448 | .0164827 | .0777604 | 1.733221 |
| #3 | .001080 | 2.903330 | 5.656758 | .0191379 | .0670896 | 1.732072 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1140021 |
| Stddev | .0034842 |
| %RSD | 3.056305 |
| #1 | .1180233 |
| #2 | .1118788 |
| #3 | .1121042 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1822.561 | 18506.52 | 1904.686 | 1348.626 | 1567.223 |
| Stddev | 4.480 | 126.77 | 4.650 | 11.360 | 4.255 |
| %RSD | .2458055 | .6850046 | .2441091 | .8423085 | .2715053 |
| #1 | 1817.558 | 18385.81 | 1899.753 | 1336.613 | 1562.310 |
| #2 | 1823.927 | 18638.59 | 1905.320 | 1359.194 | 1569.730 |
| #3 | 1826.200 | 18495.15 | 1908.987 | 1350.070 | 1569.629 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-04DLX5 Acquired: 01/03/2025 15:45:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1L Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0079341 | .0305671 | .0887853 | -.023565 | .0009902 | 8.905927 | .0864868 |
| Stddev | .0011798 | .0073608 | .0020159 | .003764 | .0026865 | .057571 | .0001134 |
| %RSD | 14.86999 | 24.08087 | 2.270593 | 15.97168 | 271.3065 | .6464403 | .1310630 |
| #1 | .0084384 | .0239874 | .0903015 | -.024827 | .0019264 | 8.969658 | .0864887 |
| #2 | .0065860 | .0291973 | .0895569 | -.026535 | -.002039 | 8.857684 | .0865992 |
| #3 | .0087779 | .0385166 | .0864976 | -.019332 | .003083 | 8.890439 | .0863725 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0010137 | .0005324 | 423.1190 | .0145418 | .0510374 | .0603488 | 28.55058 |
| Stddev | .0001101 | .0000706 | .5549 | .0010593 | .0012602 | .0057456 | .08631 |
| %RSD | 10.86300 | 13.25623 | .1311486 | 7.284893 | 2.469091 | 9.520609 | .3023183 |
| #1 | .0008957 | .0006136 | 423.1175 | .0156402 | .0504432 | .0539116 | 28.64613 |
| #2 | .0010317 | .0004855 | 422.5649 | .0135264 | .0524848 | .0621771 | 28.52734 |
| #3 | .0011137 | .0004982 | 423.6747 | .0144587 | .0501841 | .0649578 | 28.47827 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.755672 | 46.42834 | .0289466 | -.000277 | .3957783 | .0188653 | .1511915 |
| Stddev | .004744 | .09135 | .0022505 | .000202 | .0068324 | .0063060 | .0007864 |
| %RSD | .2702104 | .1967595 | 7.774698 | 72.86741 | 1.726311 | 33.42643 | .5201449 |
| #1 | 1.759979 | 46.32519 | .0270624 | -.000163 | .4011168 | .0182570 | .1520865 |
| #2 | 1.750587 | 46.49902 | .0314386 | -.000158 | .3880785 | .0128854 | .1506113 |
| #3 | 1.756450 | 46.46082 | .0283387 | -.000510 | .3981396 | .0254533 | .1508766 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.939773 | .6728914 | -.038894 | .0052286 | .5403017 | 1.004061 | -.003038 |
| Stddev | .113840 | .0004479 | .000869 | .0015437 | .0045904 | .007304 | .001138 |
| %RSD | 3.872414 | .0665593 | 2.234718 | 29.52450 | .8495971 | .7274782 | 37.45995 |
| #1 | 2.957780 | .6731384 | -.039164 | .0047453 | .5354637 | 1.006058 | -.001822 |
| #2 | 2.818002 | .6731615 | -.039595 | .0039843 | .5445960 | .995965 | -.003214 |
| #3 | 3.043536 | .6723745 | -.037921 | .0069561 | .5408454 | 1.010158 | -.004077 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-04DLX5 Acquired: 01/03/2025 15:45:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1L Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0106523 | .3858732 | .0276301 |
| Stddev | .0066601 | .0017123 | .0020147 |
| %RSD | 62.52247 | .4437567 | 7.291728 |
| | | | |
| #1 | .0183415 | .3864006 | .0258431 |
| #2 | .0066881 | .3839592 | .0272336 |
| #3 | .0069274 | .3872597 | .0298135 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1774.580 | 17927.10 | 1803.113 | 1315.886 | 1804.856 |
| Stddev | 1.504 | 30.89 | 6.085 | 6.470 | 1.328 |
| %RSD | .0847573 | .1723291 | .3374756 | .4916514 | .0735577 |
| | | | | | |
| #1 | 1773.907 | 17908.38 | 1798.994 | 1314.009 | 1805.955 |
| #2 | 1776.303 | 17910.17 | 1810.103 | 1310.563 | 1805.233 |
| #3 | 1773.530 | 17962.76 | 1800.243 | 1323.087 | 1803.381 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-06 Acquired: 01/03/2025 15:49:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1S Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1469153 | .1059430 | .4349915 | .1711169 | .1813410 | 42.50210 |
| Stddev | .0092811 | .0045152 | .0031262 | .0096046 | .0051205 | .14036 |
| %RSD | 6.317280 | 4.261926 | .7186891 | 5.612910 | 2.823715 | .3302462 |
| #1 | .1471145 | .1009287 | .4380545 | .1651769 | .1839755 | 42.56318 |
| #2 | .1375363 | .1072135 | .4351145 | .1821978 | .1754396 | 42.34155 |
| #3 | .1560952 | .1096869 | .4318056 | .1659761 | .1846079 | 42.60158 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.062851 | .0986252 | .1081532 | F 1869.228 | .4424571 | 1.178026 |
| Stddev | .020210 | .0007352 | .0002551 | 12.185 | .0006174 | .000790 |
| %RSD | .4974403 | .7454694 | .2358571 | .6518666 | .1395429 | .0670803 |
| #1 | 4.085106 | .0994144 | .1082214 | 1881.834 | .4421626 | 1.178427 |
| #2 | 4.045642 | .0979596 | .1078710 | 1857.513 | .4420420 | 1.177116 |
| #3 | 4.057806 | .0985015 | .1083673 | 1868.339 | .4431666 | 1.178536 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6303173 | 127.1774 | 8.545198 | 201.7646 | 1.212719 | .0629805 |
| Stddev | .0025633 | .2899 | .011013 | .2757 | .000779 | .0013215 |
| %RSD | .4066666 | .2279810 | .1288838 | .1366539 | .0642424 | 2.098249 |
| #1 | .6326102 | 127.4020 | 8.556434 | 201.5772 | 1.212667 | .0643564 |
| #2 | .6307918 | 126.8501 | 8.534422 | 201.6354 | 1.211967 | .0628638 |
| #3 | .6275499 | 127.2803 | 8.544736 | 202.0812 | 1.213522 | .0617212 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.696052 | 1.022876 | 1.506095 | 14.72341 | 3.572654 | -.160329 |
| Stddev | .029316 | .006983 | .005871 | .12657 | .011998 | .001147 |
| %RSD | 1.728476 | .6826765 | .3898314 | .8596271 | .3358408 | .7152387 |
| #1 | 1.717361 | 1.028802 | 1.512743 | 14.80048 | 3.578195 | -.161172 |
| #2 | 1.662619 | 1.024648 | 1.501621 | 14.57733 | 3.580881 | -.160792 |
| #3 | 1.708175 | 1.015178 | 1.503922 | 14.79241 | 3.558886 | -.159023 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-06 Acquired: 01/03/2025 15:49:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB1S Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0005311 | 2.935098 | 4.438052 | .0181998 | .0614293 | 1.743752 |
| Stddev | .0002969 | .003188 | .026572 | .0020211 | .0019741 | .002052 |
| %RSD | 55.89337 | .1086113 | .5987211 | 11.10493 | 3.213626 | .1176669 |
| | | | | | | |
| #1 | .0008107 | 2.932211 | 4.461795 | .0163348 | .0611986 | 1.745866 |
| #2 | .0002195 | 2.934563 | 4.409351 | .0203472 | .0635086 | 1.741768 |
| #3 | .0005632 | 2.938519 | 4.443011 | .0179174 | .0595807 | 1.743623 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1130123 |
| Stddev | .0028834 |
| %RSD | 2.551428 |
| | |
| #1 | .1132525 |
| #2 | .1157682 |
| #3 | .1100163 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1806.534 | 18478.88 | 1906.413 | 1351.280 | 1557.116 |
| Stddev | 5.255 | 17.09 | 9.001 | 4.546 | 3.380 |
| %RSD | .2909101 | .0924763 | .4721631 | .3364282 | .2170851 |
| | | | | | |
| #1 | 1812.589 | 18494.97 | 1901.445 | 1352.830 | 1560.675 |
| #2 | 1803.155 | 18480.72 | 1916.803 | 1354.848 | 1556.725 |
| #3 | 1803.859 | 18460.94 | 1900.989 | 1346.161 | 1553.948 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5128-19 Acquired: 01/03/2025 15:53:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK9 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2472903 | -.017124 | 5.488169 | .1017227 | .0477177 | 66.71898 |
| Stddev | .0082275 | .003899 | .004056 | .0032759 | .0009113 | .27291 |
| %RSD | 3.327064 | 22.77114 | .0739080 | 3.220459 | 1.909711 | .4090375 |
| #1 | .2532575 | -.013661 | 5.492677 | .1020391 | .0485644 | 67.01777 |
| #2 | .2507089 | -.021347 | 5.484816 | .1048290 | .0478353 | 66.65630 |
| #3 | .2379047 | -.016363 | 5.487013 | .0983001 | .0467533 | 66.48287 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.173136 | .0074753 | .0163277 | 121.4255 | .1771696 | .1446654 |
| Stddev | .003170 | .0001124 | .0001750 | .1324 | .0004847 | .0010120 |
| %RSD | .1458591 | 1.504055 | 1.071920 | .1090027 | .2735806 | .6995612 |
| #1 | 2.176408 | .0073986 | .0161744 | 121.4561 | .1775049 | .1447253 |
| #2 | 2.172920 | .0076043 | .0162903 | 121.5399 | .1773900 | .1436248 |
| #3 | 2.170079 | .0074228 | .0165184 | 121.2805 | .1766138 | .1456461 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8078334 | 195.4838 | 16.87644 | 33.40236 | .2401380 | -.005694 |
| Stddev | .0089076 | .8066 | .08511 | .11191 | .0009000 | .001493 |
| %RSD | 1.102654 | .4126092 | .5043087 | .3350289 | .3747683 | 26.22169 |
| #1 | .7982850 | 196.2268 | 16.96659 | 33.52720 | .2394812 | -.007333 |
| #2 | .8159191 | 195.5986 | 16.86526 | 33.36885 | .2397689 | -.005337 |
| #3 | .8092962 | 194.6260 | 16.79748 | 33.31104 | .2411638 | -.004412 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.178686 | .1970572 | 3.494731 | 9.151259 | F 12.48010 | -.380542 |
| Stddev | .024674 | .0120447 | .009451 | .270196 | .01881 | .001191 |
| %RSD | 2.093351 | 6.112263 | .2704243 | 2.952552 | .1506881 | .3129494 |
| #1 | 1.177515 | .1863546 | 3.487425 | 9.024725 | 12.46353 | -.381869 |
| #2 | 1.203925 | .2101004 | 3.505404 | 8.967550 | 12.47622 | -.379567 |
| #3 | 1.154619 | .1947168 | 3.491365 | 9.461503 | 12.50054 | -.380190 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5128-19 Acquired: 01/03/2025 15:53:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK9 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0159624 | 3.297823 | 5.531695 | .2374082 | .7399921 | .0614590 |
| Stddev | .0004181 | .003530 | .023329 | .0022109 | .0032133 | .0000630 |
| %RSD | 2.619270 | .1070471 | .4217244 | .9312475 | .4342318 | .1025648 |
| #1 | .0159661 | 3.296771 | 5.558075 | .2366697 | .7368104 | .0614001 |
| #2 | .0155425 | 3.301759 | 5.523227 | .2398937 | .7399296 | .0615255 |
| #3 | .0163787 | 3.294938 | 5.513784 | .2356611 | .7432361 | .0614515 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0885500 |
| Stddev | .0010625 |
| %RSD | 1.199865 |
| #1 | .0893390 |
| #2 | .0889692 |
| #3 | .0873419 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2176.721 | 22168.35 | 2181.958 | 1631.543 | 1920.412 |
| Stddev | 7.100 | 57.80 | 2.606 | 5.743 | 6.123 |
| %RSD | .3261650 | .2607405 | .1194552 | .3520101 | .3188619 |
| #1 | 2178.794 | 22233.08 | 2179.072 | 1635.458 | 1924.536 |
| #2 | 2182.554 | 22150.11 | 2182.664 | 1624.950 | 1923.325 |
| #3 | 2168.816 | 22121.88 | 2184.140 | 1634.221 | 1913.376 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5128-20 Acquired: 01/03/2025 15:57:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK9D Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2367505 | -.014062 | 5.443698 | .0979040 | .0429648 | 64.73329 |
| Stddev | .0047270 | .003799 | .008099 | .0053475 | .0021133 | .25354 |
| %RSD | 1.996609 | 27.01468 | .1487824 | 5.461929 | 4.918661 | .3916727 |
| #1 | .2343958 | -.017970 | 5.434557 | .1031538 | .0444822 | 65.02275 |
| #2 | .2421924 | -.013832 | 5.446556 | .0980943 | .0405511 | 64.62653 |
| #3 | .2336634 | -.010383 | 5.449980 | .0924640 | .0438612 | 64.55058 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.172252 | .0074684 | .0162333 | 120.2928 | .1742015 | .1451009 |
| Stddev | .013942 | .0002523 | .0002073 | .4379 | .0004684 | .0001826 |
| %RSD | .6418399 | 3.378739 | 1.277072 | .3640201 | .2688792 | .1258704 |
| #1 | 2.181975 | .0071772 | .0163912 | 120.7004 | .1736607 | .1450019 |
| #2 | 2.178504 | .0076247 | .0159985 | 120.3481 | .1744616 | .1453116 |
| #3 | 2.156279 | .0076031 | .0163102 | 119.8298 | .1744820 | .1449891 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7934752 | 191.1957 | 16.40964 | 32.75849 | .2391489 | -.008471 |
| Stddev | .0044941 | .8462 | .07343 | .06187 | .0016767 | .001207 |
| %RSD | .5663854 | .4425606 | .4474682 | .1888628 | .7011098 | 14.24632 |
| #1 | .7981573 | 191.9287 | 16.48603 | 32.70443 | .2390000 | -.009632 |
| #2 | .7891962 | 191.3886 | 16.40330 | 32.82596 | .2375516 | -.007223 |
| #3 | .7930720 | 190.2697 | 16.33959 | 32.74509 | .2408951 | -.008556 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.172614 | .1913846 | 3.394059 | 9.247728 | F 12.45085 | -.364208 |
| Stddev | .017475 | .0031549 | .016062 | .048620 | .02043 | .001100 |
| %RSD | 1.490250 | 1.648444 | .4732325 | .5257527 | .1640991 | .3019082 |
| #1 | 1.177571 | .1948658 | 3.406344 | 9.299694 | 12.44038 | -.365470 |
| #2 | 1.153197 | .1887144 | 3.375883 | 9.203345 | 12.43777 | -.363703 |
| #3 | 1.187076 | .1905737 | 3.399949 | 9.240144 | 12.47439 | -.363452 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5128-20 Acquired: 01/03/2025 15:57:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK9D Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0157707 | 3.256341 | 5.476824 | .2358836 | .7211262 | .0591282 |
| Stddev | .0003196 | .010294 | .020631 | .0018060 | .0073155 | .0001432 |
| %RSD | 2.026593 | .3161193 | .3767007 | .7656168 | 1.014451 | .2421623 |
| | | | | | | |
| #1 | .0155541 | 3.266945 | 5.500565 | .2361293 | .7293266 | .0592215 |
| #2 | .0161377 | 3.255689 | 5.463243 | .2339674 | .7152708 | .0591998 |
| #3 | .0156201 | 3.246388 | 5.466663 | .2375541 | .7187811 | .0589634 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0867107 |
| Stddev | .0011988 |
| %RSD | 1.382572 |
| | |
| #1 | .0876688 |
| #2 | .0870969 |
| #3 | .0853663 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2187.594 | 22433.13 | 2194.717 | 1647.267 | 1932.967 |
| Stddev | 3.616 | 51.75 | 7.994 | 9.482 | 1.903 |
| %RSD | .1652790 | .2306654 | .3642424 | .5755997 | .0984516 |
| | | | | | |
| #1 | 2184.062 | 22441.42 | 2187.192 | 1644.569 | 1932.866 |
| #2 | 2187.432 | 22480.24 | 2203.109 | 1657.805 | 1934.919 |
| #3 | 2191.288 | 22377.75 | 2193.850 | 1639.427 | 1931.117 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5128-19LX5 Acquired: 01/03/2025 16:01:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK9L Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0504023 | -.003155 | 1.123007 | .0258224 | .0084745 | 15.63615 | .5207639 |
| Stddev | .0012730 | .001809 | .001725 | .0035343 | .0006557 | .04344 | .0059483 |
| %RSD | 2.525708 | 57.33030 | .1536371 | 13.68677 | 7.737744 | .2778431 | 1.142231 |
| #1 | .0515538 | -.003954 | 1.123312 | .0258428 | .0078755 | 15.68033 | .5207128 |
| #2 | .0506178 | -.004426 | 1.121150 | .0222780 | .0091751 | 15.63466 | .5267377 |
| #3 | .0490353 | -.001084 | 1.124559 | .0293464 | .0083728 | 15.59348 | .5148413 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0017372 | .0033205 | 28.95109 | .0420921 | .0381913 | .1796272 | 46.03556 |
| Stddev | .0002558 | .0001422 | .06138 | .0000644 | .0006247 | .0021684 | .08953 |
| %RSD | 14.72453 | 4.282092 | .2119996 | .1530063 | 1.635579 | 1.207170 | .1944728 |
| #1 | .0019622 | .0032951 | 28.97816 | .0420278 | .0379454 | .1812861 | 45.98079 |
| #2 | .0017903 | .0031926 | 28.99428 | .0421566 | .0389015 | .1771736 | 45.98702 |
| #3 | .0014590 | .0034736 | 28.88083 | .0420919 | .0377270 | .1804220 | 46.13888 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.003678 | 8.002015 | .0467477 | -.000820 | .2564225 | .0417797 | .8256345 |
| Stddev | .005429 | .154433 | .0009497 | .000821 | .0029478 | .0031951 | .0016725 |
| %RSD | .1356103 | 1.929926 | 2.031575 | 100.1243 | 1.149578 | 7.647390 | .2025725 |
| #1 | 4.009865 | 7.987726 | .0475537 | -.001254 | .2597531 | .0437930 | .8237348 |
| #2 | 3.999710 | 7.855223 | .0469886 | .000127 | .2541490 | .0380957 | .8268853 |
| #3 | 4.001458 | 8.163096 | .0457007 | -.001332 | .2553655 | .0434503 | .8262835 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.142220 | 2.534124 | -.094306 | .0045464 | .6616743 | 1.328380 | .0361690 |
| Stddev | .045487 | .002742 | .002823 | .0007158 | .0025234 | .005609 | .0014913 |
| %RSD | 2.123349 | .1082205 | 2.993217 | 15.74435 | .3813604 | .4222768 | 4.123090 |
| #1 | 2.194691 | 2.532040 | -.093607 | .0048706 | .6595933 | 1.333830 | .0373360 |
| #2 | 2.113949 | 2.533100 | -.097412 | .0037259 | .6644810 | 1.328685 | .0344889 |
| #3 | 2.118021 | 2.537231 | -.091898 | .0050428 | .6609486 | 1.322624 | .0366820 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5128-19LX5 Acquired: 01/03/2025 16:01:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK9L Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .1661074 | .0140542 | .0224698 |
| Stddev | .0038527 | .0001527 | .0047013 |
| %RSD | 2.319398 | 1.086644 | 20.92280 |
| | | | |
| #1 | .1648204 | .0139219 | .0217057 |
| #2 | .1630629 | .0140193 | .0275063 |
| #3 | .1704388 | .0142213 | .0181973 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1902.136 | 19313.40 | 1874.047 | 1419.332 | 1986.024 |
| Stddev | 2.676 | 12.82 | 8.376 | 3.330 | 3.560 |
| %RSD | .1406684 | .0663772 | .4469503 | .2345955 | .1792625 |
| | | | | | |
| #1 | 1905.226 | 19321.45 | 1866.946 | 1423.083 | 1989.761 |
| #2 | 1900.607 | 19298.62 | 1871.910 | 1416.725 | 1985.639 |
| #3 | 1900.577 | 19320.14 | 1883.284 | 1418.188 | 1982.672 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5128-21 Acquired: 01/03/2025 16:05:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK9S Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3261639 | .0636915 | 5.541806 | .2450180 | .1935100 | 68.67063 |
| Stddev | .0054433 | .0030288 | .014501 | .0093215 | .0043207 | .37026 |
| %RSD | 1.668894 | 4.755442 | .2616692 | 3.804402 | 2.232826 | .5391760 |
| #1 | .3321211 | .0607611 | 5.529756 | .2350975 | .1885949 | 69.02139 |
| #2 | .3249210 | .0635035 | 5.537762 | .2535945 | .1952254 | 68.70695 |
| #3 | .3214494 | .0668099 | 5.557900 | .2463620 | .1967096 | 68.28355 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.596455 | .0946527 | .1159254 | 121.1195 | .5391390 | 1.164615 |
| Stddev | .002996 | .0006523 | .0003170 | .1771 | .0009371 | .002572 |
| %RSD | .0535291 | .6891763 | .2734843 | .1462598 | .1738235 | .2208245 |
| #1 | 5.592997 | .0953303 | .1155942 | 121.1233 | .5391394 | 1.163085 |
| #2 | 5.598254 | .0945988 | .1159558 | 121.2947 | .5382016 | 1.163176 |
| #3 | 5.598114 | .0940290 | .1162261 | 120.9404 | .5400759 | 1.167584 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.192807 | 194.6725 | 17.48557 | 33.05175 | 1.278955 | .0576091 |
| Stddev | .012113 | .6663 | .05589 | .10772 | .002247 | .0010013 |
| %RSD | 1.015503 | .3422549 | .3196313 | .3259068 | .1756805 | 1.738158 |
| #1 | 1.206542 | 195.2946 | 17.52687 | 33.16519 | 1.278572 | .0579434 |
| #2 | 1.183651 | 194.7535 | 17.50786 | 33.03921 | 1.276924 | .0564834 |
| #3 | 1.188228 | 193.9694 | 17.42197 | 32.95086 | 1.281368 | .0584005 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.177687 | 1.056343 | 4.261552 | 9.127311 | F 12.41747 | -.383087 |
| Stddev | .016700 | .004759 | .025166 | .173068 | .01583 | .004027 |
| %RSD | 1.418021 | .4505471 | .5905390 | 1.896157 | .1275066 | 1.051121 |
| #1 | 1.159831 | 1.050886 | 4.269823 | 9.081273 | 12.40488 | -.384775 |
| #2 | 1.192921 | 1.058506 | 4.233291 | 9.318742 | 12.41229 | -.385994 |
| #3 | 1.180310 | 1.059636 | 4.281542 | 8.981916 | 12.43525 | -.378491 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5128-21 Acquired: 01/03/2025 16:05:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMK9S Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0154180 | 3.316520 | 5.540292 | .2405534 | .7262760 | .0585817 |
| Stddev | .0003331 | .007241 | .027591 | .0025348 | .0053925 | .0001754 |
| %RSD | 2.160516 | .2183194 | .4980114 | 1.053716 | .7424841 | .2993881 |
| #1 | .0155248 | 3.308518 | 5.563966 | .2433330 | .7316623 | .0583933 |
| #2 | .0150446 | 3.318424 | 5.546918 | .2383698 | .7262884 | .0586116 |
| #3 | .0156847 | 3.322619 | 5.509990 | .2399572 | .7208774 | .0587402 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0868785 |
| Stddev | .0009473 |
| %RSD | 1.090392 |
| #1 | .0863871 |
| #2 | .0862779 |
| #3 | .0879706 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2181.757 | 22197.03 | 2184.852 | 1626.865 | 1925.577 |
| Stddev | 6.426 | 33.30 | 13.119 | 6.931 | 3.407 |
| %RSD | .2945118 | .1500345 | .6004455 | .4260203 | .1769164 |
| #1 | 2188.831 | 22177.01 | 2173.938 | 1623.150 | 1929.510 |
| #2 | 2180.160 | 22235.47 | 2181.212 | 1634.861 | 1923.645 |
| #3 | 2176.281 | 22178.59 | 2199.407 | 1622.583 | 1923.576 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5122-12 Acquired: 01/03/2025 16:08:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC9 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1485667 | -.027705 | 5.335357 | .0892314 | .0603685 | 59.44894 |
| Stddev | .0037745 | .001595 | .009914 | .0051591 | .0027345 | .19845 |
| %RSD | 2.540586 | 5.758942 | .1858242 | 5.781682 | 4.529639 | .3338109 |
| #1 | .1499050 | -.028545 | 5.324184 | .0832844 | .0606980 | 59.49481 |
| #2 | .1514897 | -.028704 | 5.343103 | .0919042 | .0629232 | 59.62044 |
| #3 | .1443054 | -.025865 | 5.338785 | .0925057 | .0574841 | 59.23158 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.945473 | .0079462 | .0076742 | 466.9157 | .1738992 | .1301745 |
| Stddev | .008905 | .0000595 | .0001377 | 1.2001 | .0001767 | .0006341 |
| %RSD | .4577095 | .7488398 | 1.794426 | .2570298 | .1015912 | .4870737 |
| #1 | 1.936147 | .0080072 | .0076413 | 465.6301 | .1737163 | .1305192 |
| #2 | 1.946384 | .0079430 | .0075558 | 467.1107 | .1739123 | .1305615 |
| #3 | 1.953886 | .0078883 | .0078253 | 468.0064 | .1740689 | .1294428 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4277065 | 228.1354 | 7.254069 | 73.74364 | .2477614 | -.015913 |
| Stddev | .0069523 | .1440 | .011614 | .23754 | .0015318 | .000971 |
| %RSD | 1.625493 | .0631130 | .1601043 | .3221173 | .6182633 | 6.102622 |
| #1 | .4212481 | 228.1846 | 7.245052 | 73.79821 | .2460266 | -.016147 |
| #2 | .4350651 | 228.2483 | 7.267174 | 73.94915 | .2483303 | -.014847 |
| #3 | .4268063 | 227.9732 | 7.249980 | 73.48357 | .2489274 | -.016746 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.385169 | .2451423 | 3.297468 | 10.68931 | F 16.24211 | -.395688 |
| Stddev | .000625 | .0094084 | .012900 | .18341 | .03854 | .003504 |
| %RSD | .0451570 | 3.837946 | .3912052 | 1.715781 | .2372833 | .8854388 |
| #1 | 1.385690 | .2442993 | 3.295130 | 10.48064 | 16.19882 | -.396327 |
| #2 | 1.384475 | .2549439 | 3.285897 | 10.76235 | 16.27271 | -.391909 |
| #3 | 1.385342 | .2361837 | 3.311377 | 10.82494 | 16.25478 | -.398828 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5122-12 Acquired: 01/03/2025 16:08:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC9 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0108627 | 4.624033 | 4.844110 | .2278688 | 1.203986 | .9660812 |
| Stddev | .0010959 | .006000 | .030263 | .0013677 | .007499 | .0033731 |
| %RSD | 10.08865 | .1297659 | .6247447 | .6001935 | .6228249 | .3491531 |
| #1 | .0114006 | 4.629620 | 4.855443 | .2283144 | 1.197863 | .9642996 |
| #2 | .0096018 | 4.617691 | 4.809816 | .2289580 | 1.212350 | .9699716 |
| #3 | .0115857 | 4.624788 | 4.867071 | .2263339 | 1.201746 | .9639725 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0988143 |
| Stddev | .0015082 |
| %RSD | 1.526245 |
| #1 | .0974475 |
| #2 | .0985632 |
| #3 | .1004323 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1976.304 | 19999.02 | 2008.834 | 1459.129 | 1794.466 |
| Stddev | 4.062 | 107.24 | 10.565 | 5.562 | 6.303 |
| %RSD | .2055537 | .5362281 | .5259174 | .3811730 | .3512462 |
| #1 | 1980.885 | 20115.88 | 2012.656 | 1464.175 | 1801.739 |
| #2 | 1974.890 | 19976.07 | 2016.956 | 1460.045 | 1790.577 |
| #3 | 1973.138 | 19905.11 | 1996.890 | 1453.165 | 1791.084 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5122-13 Acquired: 01/03/2025 16:12:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC9D Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1439594 | -.024659 | 5.327616 | .0862317 | .0590039 | 59.05396 |
| Stddev | .0031897 | .003633 | .007203 | .0039377 | .0043861 | .39809 |
| %RSD | 2.215696 | 14.73245 | .1352005 | 4.566396 | 7.433566 | .6741111 |
| #1 | .1416143 | -.023495 | 5.334236 | .0888268 | .0544236 | 59.34969 |
| #2 | .1426723 | -.021750 | 5.319945 | .0881675 | .0631658 | 58.60133 |
| #3 | .1475915 | -.028731 | 5.328667 | .0817008 | .0594225 | 59.21087 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.952015 | .0080120 | .0077606 | 465.1061 | .1726980 | .1296751 |
| Stddev | .004945 | .0002788 | .0000933 | 1.9323 | .0005854 | .0001611 |
| %RSD | .2533471 | 3.480117 | 1.201822 | .4154580 | .3389790 | .1242478 |
| #1 | 1.957724 | .0077719 | .0078681 | 467.2718 | .1725997 | .1295364 |
| #2 | 1.949248 | .0079463 | .0077116 | 463.5582 | .1721680 | .1298518 |
| #3 | 1.949072 | .0083178 | .0077020 | 464.4883 | .1733264 | .1296370 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4199382 | 227.1053 | 7.212302 | 73.11536 | .2485275 | -.016647 |
| Stddev | .0081926 | 1.2616 | .045077 | .22136 | .0016182 | .001132 |
| %RSD | 1.950916 | .5555209 | .6250023 | .3027533 | .6511358 | 6.801390 |
| #1 | .4258145 | 228.4147 | 7.251396 | 73.24105 | .2501408 | -.016690 |
| #2 | .4105797 | 225.8976 | 7.162994 | 72.85977 | .2469043 | -.017757 |
| #3 | .4234205 | 227.0034 | 7.222516 | 73.24525 | .2485375 | -.015494 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.382610 | .2445469 | 3.275500 | 10.68046 | F 16.21208 | -.404269 |
| Stddev | .032003 | .0049191 | .010554 | .18746 | .00854 | .003833 |
| %RSD | 2.314682 | 2.011529 | .3222248 | 1.755204 | .0526871 | .9480771 |
| #1 | 1.412485 | .2496116 | 3.263787 | 10.83798 | 16.22192 | -.403187 |
| #2 | 1.386508 | .2442414 | 3.278440 | 10.47312 | 16.20661 | -.408527 |
| #3 | 1.348836 | .2397875 | 3.284272 | 10.73028 | 16.20771 | -.401094 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5122-13 Acquired: 01/03/2025 16:12:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC9D Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0113920 | 4.583510 | 4.960472 | .2257363 | 1.199153 | .9608268 |
| Stddev | .0005995 | .005143 | .013282 | .0028012 | .003520 | .0056157 |
| %RSD | 5.262628 | .1122068 | .2677487 | 1.240928 | .2935051 | .5844684 |
| #1 | .0112774 | 4.579619 | 4.963709 | .2289679 | 1.195135 | .9652994 |
| #2 | .0108580 | 4.589341 | 4.971836 | .2239993 | 1.200636 | .9545244 |
| #3 | .0120405 | 4.581570 | 4.945871 | .2242418 | 1.201689 | .9626566 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1038521 |
| Stddev | .0034981 |
| %RSD | 3.368342 |
| #1 | .1075759 |
| #2 | .1033457 |
| #3 | .1006349 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1975.882 | 20025.37 | 2013.058 | 1470.545 | 1796.379 |
| Stddev | 5.418 | 73.44 | 2.716 | 8.429 | 4.315 |
| %RSD | .2742304 | .3667100 | .1349403 | .5732184 | .2401987 |
| #1 | 1969.925 | 20104.87 | 2014.148 | 1478.842 | 1792.494 |
| #2 | 1977.203 | 19960.06 | 2009.966 | 1470.804 | 1801.023 |
| #3 | 1980.517 | 20011.19 | 2015.059 | 1461.989 | 1795.621 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5122-12LX5 Acquired: 01/03/2025 16:16:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC9L Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0254615 | .0090893 | 1.069729 | .0089212 | .0124238 | 13.65067 | .4330474 |
| Stddev | .0039585 | .0026454 | .000979 | .0030951 | .0019861 | .07413 | .0032435 |
| %RSD | 15.54699 | 29.10414 | .0915292 | 34.69327 | 15.98618 | .5430703 | .7490034 |
| #1 | .0251773 | .0098039 | 1.068635 | .0077082 | .0126626 | 13.71805 | .4353882 |
| #2 | .0295544 | .0113040 | 1.070523 | .0066164 | .0142796 | 13.66271 | .4293450 |
| #3 | .0216527 | .0061601 | 1.070029 | .0124391 | .0103290 | 13.57125 | .4344090 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0018898 | .0014105 | 104.6366 | .0395740 | .0448459 | .0964694 | 51.38230 |
| Stddev | .0002328 | .0001499 | .3182 | .0002855 | .0005782 | .0128490 | .26595 |
| %RSD | 12.31815 | 10.62365 | .3041156 | .7215027 | 1.289246 | 13.31919 | .5175892 |
| #1 | .0016353 | .0015672 | 104.8490 | .0396655 | .0441867 | .0905782 | 51.56287 |
| #2 | .0020921 | .0012686 | 104.7901 | .0398026 | .0452672 | .0876224 | 51.50713 |
| #3 | .0019419 | .0013958 | 104.2708 | .0392540 | .0450837 | .1112076 | 51.07690 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.653604 | 16.71371 | .0482016 | -.003715 | .2876228 | .0468345 | .7388179 |
| Stddev | .005189 | .15933 | .0003584 | .000217 | .0079613 | .0009258 | .0012001 |
| %RSD | .3138236 | .9532924 | .7436259 | 5.846204 | 2.767978 | 1.976690 | .1624399 |
| #1 | 1.655057 | 16.72789 | .0485405 | -.003856 | .2960779 | .0477705 | .7387557 |
| #2 | 1.657913 | 16.86548 | .0478264 | -.003465 | .2802701 | .0468136 | .7400479 |
| #3 | 1.647843 | 16.54777 | .0482381 | -.003824 | .2865204 | .0459193 | .7376501 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.138939 | 3.144479 | -.098219 | .0065334 | .8852194 | 1.119391 | .0365952 |
| Stddev | .124558 | .008425 | .001838 | .0009513 | .0038530 | .007824 | .0010146 |
| %RSD | 5.823345 | .2679268 | 1.871267 | 14.56026 | .4352621 | .6989901 | 2.772424 |
| #1 | 2.272760 | 3.148593 | -.097424 | .0057402 | .8808744 | 1.128097 | .0354560 |
| #2 | 2.117675 | 3.150056 | -.096913 | .0075881 | .8882203 | 1.112947 | .0369280 |
| #3 | 2.026382 | 3.134787 | -.100321 | .0062718 | .8865635 | 1.117130 | .0374015 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5122-12LX5 Acquired: 01/03/2025 16:16:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC9L Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2621690 | .2142539 | .0184680 |
| Stddev | .0038165 | .0011213 | .0044915 |
| %RSD | 1.455739 | .5233459 | 24.32061 |
| | | | |
| #1 | .2609527 | .2154886 | .0173948 |
| #2 | .2664454 | .2139741 | .0146103 |
| #3 | .2591089 | .2132990 | .0233990 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1869.861 | 18849.80 | 1865.376 | 1395.658 | 1952.606 |
| Stddev | 2.354 | 82.88 | .718 | 11.979 | 2.650 |
| %RSD | .1259135 | .4396846 | .0384928 | .8582935 | .1356974 |
| | | | | | |
| #1 | 1872.167 | 18926.78 | 1864.787 | 1404.833 | 1955.134 |
| #2 | 1867.461 | 18762.07 | 1865.165 | 1382.106 | 1949.849 |
| #3 | 1869.954 | 18860.56 | 1866.176 | 1400.035 | 1952.836 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5122-14 Acquired: 01/03/2025 16:20:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC9S Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2257025 | .0585696 | 5.288775 | .2483200 | .2242464 | 62.30712 |
| Stddev | .0048077 | .0046311 | .011717 | .0111964 | .0049593 | .51944 |
| %RSD | 2.130092 | 7.906982 | .2215429 | 4.508869 | 2.211519 | .8336692 |
| #1 | .2302941 | .0626258 | 5.275590 | .2515668 | .2245356 | 62.14380 |
| #2 | .2261089 | .0595594 | 5.292742 | .2358590 | .2191489 | 61.88896 |
| #3 | .2207045 | .0535237 | 5.297994 | .2575342 | .2290547 | 62.88858 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.605947 | .1006564 | .1086739 | 462.1904 | .5606071 | 1.152395 |
| Stddev | .031783 | .0013491 | .0003229 | 2.6537 | .0007658 | .000739 |
| %RSD | .5669528 | 1.340295 | .2971138 | .5741549 | .1365988 | .0641676 |
| #1 | 5.597983 | .1012740 | .1086296 | 462.3058 | .5600057 | 1.152179 |
| #2 | 5.578903 | .0991091 | .1090166 | 459.4810 | .5614691 | 1.153218 |
| #3 | 5.640955 | .1015862 | .1083754 | 464.7846 | .5603463 | 1.151788 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8474973 | 227.8062 | 8.122889 | 72.87613 | 1.285074 | .0551353 |
| Stddev | .0100668 | 1.4329 | .064753 | .66894 | .000744 | .0008896 |
| %RSD | 1.187826 | .6289841 | .7971618 | .9179092 | .0578673 | 1.613389 |
| #1 | .8365507 | 227.2379 | 8.101403 | 72.69017 | 1.285324 | .0557559 |
| #2 | .8495837 | 226.7446 | 8.071611 | 72.31984 | 1.285661 | .0555338 |
| #3 | .8563573 | 229.4360 | 8.195654 | 73.61836 | 1.284238 | .0541161 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.369503 | 1.209007 | 4.055035 | 10.63685 | F 15.92179 | -.405598 |
| Stddev | .019082 | .021870 | .020433 | .05948 | .02498 | .010341 |
| %RSD | 1.393365 | 1.808920 | .5038853 | .5591477 | .1568785 | 2.549488 |
| #1 | 1.354862 | 1.184940 | 4.078585 | 10.57772 | 15.90022 | -.409635 |
| #2 | 1.362563 | 1.214417 | 4.044504 | 10.63614 | 15.94916 | -.393848 |
| #3 | 1.391084 | 1.227664 | 4.042016 | 10.69667 | 15.91601 | -.413311 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5122-14 Acquired: 01/03/2025 16:20:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC9S Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0114068 | 4.483749 | 4.840767 | .2229679 | 1.196553 | .9542190 |
| Stddev | .0013781 | .012354 | .074993 | .0022664 | .012751 | .0068577 |
| %RSD | 12.08100 | .2755354 | 1.549205 | 1.016474 | 1.065659 | .7186676 |
| | | | | | | |
| #1 | .0105010 | 4.485930 | 4.866082 | .2218526 | 1.197591 | .9509693 |
| #2 | .0129927 | 4.494867 | 4.756392 | .2255758 | 1.183314 | .9495902 |
| #3 | .0107268 | 4.470449 | 4.899827 | .2214753 | 1.208753 | .9620974 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1001332 |
| Stddev | .0023563 |
| %RSD | 2.353130 |
| | |
| #1 | .0975349 |
| #2 | .1021312 |
| #3 | .1007336 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1959.090 | 19961.72 | 2008.749 | 1464.287 | 1790.835 |
| Stddev | 6.913 | 122.24 | 23.696 | 4.741 | 8.445 |
| %RSD | .3528837 | .6123629 | 1.179631 | .3237850 | .4715583 |
| | | | | | |
| #1 | 1967.071 | 20094.31 | 2013.612 | 1463.882 | 1800.186 |
| #2 | 1954.929 | 19853.50 | 2029.636 | 1459.762 | 1783.765 |
| #3 | 1955.272 | 19937.36 | 1982.999 | 1469.218 | 1788.553 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5124-19 Acquired: 01/03/2025 16:24:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM88 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1275737 | -.015387 | .8223771 | .0465710 | .0247583 | 50.96020 | .6613770 |
| Stddev | .0066180 | .001350 | .0029993 | .0037280 | .0009506 | .35057 | .0056403 |
| %RSD | 5.187610 | 8.772697 | .3647138 | 8.004920 | 3.839696 | .6879228 | .8528166 |
| #1 | .1300717 | -.013831 | .8246086 | .0427887 | .0242562 | 50.67965 | .6555387 |
| #2 | .1200702 | -.016238 | .8189676 | .0466821 | .0258547 | 51.35319 | .6667960 |
| #3 | .1325791 | -.016092 | .8235552 | .0502422 | .0241639 | 50.84775 | .6617963 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0076738 | .0024068 | 77.70113 | .0749920 | .0774819 | .1632869 | 112.0587 |
| Stddev | .0000208 | .0000940 | .68671 | .0010101 | .0004818 | .0017986 | .7715 |
| %RSD | .2716484 | 3.903749 | .8837812 | 1.346958 | .6218399 | 1.101501 | .6884914 |
| #1 | .0076614 | .0023041 | 76.96194 | .0749711 | .0772224 | .1621596 | 111.2920 |
| #2 | .0076978 | .0024280 | 78.31925 | .0760124 | .0771854 | .1653612 | 112.8349 |
| #3 | .0076620 | .0024884 | 77.82222 | .0739925 | .0780378 | .1623401 | 112.0493 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.181316 | 23.37849 | .1324190 | -.008463 | .8286789 | .1471519 | .5455679 |
| Stddev | .012338 | .16407 | .0004485 | .001461 | .0177906 | .0061398 | .0011283 |
| %RSD | .5656058 | .7017835 | .3386680 | 17.26138 | 2.146868 | 4.172453 | .2068080 |
| #1 | 2.176010 | 23.24174 | .1319256 | -.010133 | .8267277 | .1541393 | .5442803 |
| #2 | 2.195419 | 23.56041 | .1328018 | -.007419 | .8119443 | .1426190 | .5460399 |
| #3 | 2.172518 | 23.33332 | .1325295 | -.007838 | .8473647 | .1446975 | .5463835 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.863531 | 4.553555 | -.149872 | .0136662 | 5.014756 | 4.447660 | .0277837 |
| Stddev | .109406 | .018857 | .002874 | .0008871 | .018732 | .015279 | .0007296 |
| %RSD | 2.831771 | .4141210 | 1.917564 | 6.491130 | .3735410 | .3435228 | 2.625886 |
| #1 | 3.981282 | 4.570277 | -.152147 | .0127255 | 5.031430 | 4.431157 | .0269591 |
| #2 | 3.765022 | 4.557271 | -.146642 | .0144876 | 5.018351 | 4.461312 | .0283455 |
| #3 | 3.844288 | 4.533116 | -.150826 | .0137855 | 4.994487 | 4.450512 | .0280464 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5124-19 Acquired: 01/03/2025 16:24:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM88 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 1.366111 | .3170817 | .0561006 |
| Stddev | .010435 | .0021741 | .0018118 |
| %RSD | .7638308 | .6856510 | 3.229518 |
| | | | |
| #1 | 1.354317 | .3156622 | .0540421 |
| #2 | 1.374144 | .3195846 | .0574530 |
| #3 | 1.369871 | .3159983 | .0568066 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1957.744 | 19942.89 | 1938.454 | 1466.962 | 1964.332 |
| Stddev | 6.210 | 13.21 | 8.299 | 3.790 | 7.525 |
| %RSD | .3172223 | .0662154 | .4281143 | .2583744 | .3830900 |
| | | | | | |
| #1 | 1951.330 | 19958.13 | 1948.008 | 1468.781 | 1957.442 |
| #2 | 1958.176 | 19934.68 | 1934.312 | 1469.499 | 1963.193 |
| #3 | 1963.728 | 19935.88 | 1933.042 | 1462.605 | 1972.362 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5124-20 Acquired: 01/03/2025 16:27:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM88D Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1294643 | -.015113 | .8156356 | .0500239 | .0256168 | 50.49896 | .6675897 |
| Stddev | .0019355 | .002335 | .0124927 | .0052276 | .0012635 | .73421 | .0048311 |
| %RSD | 1.494992 | 15.44843 | 1.531651 | 10.45017 | 4.932161 | 1.453916 | .7236685 |
| #1 | .1276180 | -.016343 | .8265328 | .0455545 | .0249679 | 51.34600 | .6731678 |
| #2 | .1292967 | -.012420 | .8183728 | .0487449 | .0248097 | 50.10633 | .6648539 |
| #3 | .1314781 | -.016575 | .8020013 | .0557723 | .0270729 | 50.04454 | .6647473 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0076381 | .0024528 | 78.16085 | .0757576 | .0767553 | .1618961 | 112.5700 |
| Stddev | .0003175 | .0001000 | .70061 | .0018856 | .0011622 | .0011338 | 1.2324 |
| %RSD | 4.156777 | 4.075888 | .8963700 | 2.489008 | 1.514187 | .7003419 | 1.094749 |
| #1 | .0079902 | .0023925 | 78.91282 | .0763021 | .0775482 | .1630720 | 113.9929 |
| #2 | .0075505 | .0023977 | 78.04326 | .0736596 | .0772966 | .1618065 | 111.8758 |
| #3 | .0073736 | .0025682 | 77.52648 | .0773110 | .0754212 | .1608097 | 111.8414 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.202150 | 23.64110 | .1301621 | -.009927 | .8116349 | .1396807 | .5492754 |
| Stddev | .032039 | .44368 | .0029825 | .000505 | .0138393 | .0121331 | .0016269 |
| %RSD | 1.454912 | 1.876735 | 2.291369 | 5.084720 | 1.705111 | 8.686304 | .2961963 |
| #1 | 2.239070 | 24.09437 | .1323620 | -.009361 | .8271166 | .1284229 | .5484128 |
| #2 | 2.185742 | 23.20767 | .1313567 | -.010089 | .8004643 | .1525317 | .5482614 |
| #3 | 2.181638 | 23.62125 | .1267674 | -.010331 | .8073238 | .1380874 | .5511520 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.003605 | 4.509174 | -.148982 | .0139264 | 4.984778 | 3.947713 | .0288375 |
| Stddev | .131472 | .081330 | .005081 | .0000738 | .077614 | .083801 | .0018743 |
| %RSD | 3.283844 | 1.803647 | 3.410794 | .5298682 | 1.557029 | 2.122772 | 6.499342 |
| #1 | 3.934820 | 4.583172 | -.154647 | .0140115 | 5.053895 | 4.042337 | .0308263 |
| #2 | 4.155200 | 4.522253 | -.147474 | .0138812 | 4.999628 | 3.917934 | .0285824 |
| #3 | 3.920795 | 4.422098 | -.144826 | .0138864 | 4.900812 | 3.882869 | .0271039 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5124-20 Acquired: 01/03/2025 16:27:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM88D Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 1.360146 | .3135446 | .0558136 |
| Stddev | .010150 | .0038727 | .0035130 |
| %RSD | .7462295 | 1.235124 | 6.294219 |
| | | | |
| #1 | 1.371463 | .3178678 | .0548686 |
| #2 | 1.351848 | .3123729 | .0597024 |
| #3 | 1.357126 | .3103931 | .0528697 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1973.088 | 19766.44 | 1933.998 | 1455.044 | 1983.437 |
| Stddev | 26.372 | 233.34 | 38.318 | 10.790 | 31.379 |
| %RSD | 1.336571 | 1.180510 | 1.981266 | .7415798 | 1.582075 |
| | | | | | |
| #1 | 1954.396 | 19744.45 | 1889.777 | 1456.640 | 1958.760 |
| #2 | 1961.615 | 20010.00 | 1954.829 | 1464.948 | 1972.797 |
| #3 | 2003.253 | 19544.86 | 1957.388 | 1443.545 | 2018.753 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5124-19LX5 Acquired: 01/03/2025 16:31:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM88L Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0292041 | -.000432 | .1674061 | .0095046 | .0056101 | 11.05697 | .1375619 |
| Stddev | .0032306 | .004864 | .0017362 | .0037844 | .0027734 | .12249 | .0039061 |
| %RSD | 11.06205 | 1127.002 | 1.037151 | 39.81683 | 49.43527 | 1.107831 | 2.839517 |
| #1 | .0264938 | -.000474 | .1685946 | .0126620 | .0032148 | 10.99735 | .1360742 |
| #2 | .0283395 | .004453 | .1682102 | .0053096 | .0086485 | 10.97570 | .1346182 |
| #3 | .0327790 | -.005274 | .1654136 | .0105422 | .0049671 | 11.19786 | .1419932 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0016572 | .0005363 | 16.63958 | .0160110 | .0203600 | .0285810 | 24.07469 |
| Stddev | .0000843 | .0000397 | .09664 | .0004653 | .0001417 | .0128915 | .15829 |
| %RSD | 5.089457 | 7.404420 | .5807607 | 2.905891 | .6959002 | 45.10511 | .6575018 |
| #1 | .0015606 | .0005640 | 16.57621 | .0165375 | .0204551 | .0163874 | 23.97829 |
| #2 | .0017162 | .0005542 | 16.59173 | .0158404 | .0204277 | .0272834 | 23.98841 |
| #3 | .0016948 | .0004908 | 16.75081 | .0156552 | .0201971 | .0420723 | 24.25738 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4821863 | 4.979722 | .0249516 | -.002776 | .1390406 | .0163263 | .1213551 |
| Stddev | .0025796 | .078329 | .0009011 | .000723 | .0090159 | .0095304 | .0014622 |
| %RSD | .5349768 | 1.572956 | 3.611174 | 26.06326 | 6.484385 | 58.37492 | 1.204863 |
| #1 | .4837040 | 4.933412 | .0239297 | -.003559 | .1406474 | .0077991 | .1230237 |
| #2 | .4792078 | 4.935595 | .0252933 | -.002132 | .1293293 | .0266144 | .1207439 |
| #3 | .4836470 | 5.070160 | .0256318 | -.002638 | .1471451 | .0145654 | .1202978 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8586359 | .9164689 | -.037984 | .0028610 | 1.029915 | .8383818 | -.004039 |
| Stddev | .0989856 | .0022138 | .001748 | .0009650 | .004249 | .0023266 | .001001 |
| %RSD | 11.52823 | .2415591 | 4.602846 | 33.73022 | .4125963 | .2775064 | 24.77737 |
| #1 | .8021867 | .9180174 | -.039035 | .0032796 | 1.034790 | .8401645 | -.002892 |
| #2 | .8007894 | .9139332 | -.038951 | .0017573 | 1.027955 | .8357500 | -.004734 |
| #3 | .9729317 | .9174560 | -.035965 | .0035460 | 1.026999 | .8392310 | -.004491 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5124-19LX5 Acquired: 01/03/2025 16:31:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM88L Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2844816 | .0675971 | .0034612 |
| Stddev | .0042557 | .0000958 | .0062784 |
| %RSD | 1.495954 | .1417229 | 181.3935 |
| | | | |
| #1 | .2879174 | .0675465 | .0050503 |
| #2 | .2858064 | .0677076 | .0087922 |
| #3 | .2797211 | .0675372 | -.003459 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1861.783 | 18810.28 | 1836.658 | 1391.592 | 2014.769 |
| Stddev | 4.236 | 29.99 | 12.717 | 7.283 | 2.361 |
| %RSD | .2275387 | .1594156 | .6923797 | .5233396 | .1172065 |
| | | | | | |
| #1 | 1857.569 | 18779.57 | 1828.016 | 1383.235 | 2012.219 |
| #2 | 1866.041 | 18839.49 | 1851.260 | 1396.581 | 2016.880 |
| #3 | 1861.738 | 18811.78 | 1830.698 | 1394.961 | 2015.207 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV102 Acquired: 01/03/2025 16:35:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV102 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.994153 | 4.911105 | 25.20507 | 4.964343 | 4.986097 | 430.7424 | 10.64493 |
| Stddev | .015535 | .093244 | .48023 | .089871 | .096156 | 29.5869 | .73682 |
| %RSD | .3110553 | 1.898640 | 1.905291 | 1.810329 | 1.928491 | 6.868824 | 6.921808 |
| #1 | 4.999229 | 4.950185 | 25.44752 | 5.019164 | 5.032830 | 464.9049 | 11.49574 |
| #2 | 4.976716 | 4.804680 | 24.65195 | 4.860625 | 4.875506 | 413.3797 | 10.22047 |
| #3 | 5.006515 | 4.978450 | 25.51575 | 5.013240 | 5.049954 | 413.9425 | 10.21858 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5381285 | 2.528364 | 429.5984 | 15.71158 | 2.550076 | 16.12516 | 434.9805 |
| Stddev | .0328731 | .046362 | 28.9539 | .15299 | .046607 | 1.09553 | 30.9062 |
| %RSD | 6.108792 | 1.833658 | 6.739756 | .9737164 | 1.827685 | 6.793927 | 7.105185 |
| #1 | .5760868 | 2.550262 | 463.0306 | 15.79728 | 2.573885 | 17.39007 | 470.6660 |
| #2 | .5190025 | 2.475109 | 413.0878 | 15.80252 | 2.496373 | 15.50659 | 417.4570 |
| #3 | .5192963 | 2.559720 | 412.6768 | 15.53496 | 2.579970 | 15.47882 | 416.8185 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 16.19783 | 432.5752 | 2.547521 | 1.261874 | 438.1283 | 2.715885 | 15.02010 |
| Stddev | 1.08440 | 28.6924 | .049644 | .011608 | 26.8781 | .188219 | .19676 |
| %RSD | 6.694751 | 6.632922 | 1.948722 | .9199232 | 6.134748 | 6.930312 | 1.309948 |
| #1 | 17.44999 | 465.7055 | 2.573033 | 1.272081 | 469.1052 | 2.933199 | 15.13316 |
| #2 | 15.57177 | 416.2215 | 2.490308 | 1.264295 | 420.9811 | 2.609931 | 15.13423 |
| #3 | 15.57173 | 415.7988 | 2.579222 | 1.249246 | 424.2985 | 2.604524 | 14.79291 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 161.9358 | 5.019769 | 4.736280 | 4.970384 | 5.050722 | 5.342269 | 5.103131 |
| Stddev | 10.5360 | .086299 | .293057 | .094552 | .084314 | .327740 | .109539 |
| %RSD | 6.506294 | 1.719192 | 6.187487 | 1.902310 | 1.669337 | 6.134852 | 2.146497 |
| #1 | 174.0986 | 5.054062 | 5.074634 | 5.012042 | 5.085368 | 5.720707 | 5.158565 |
| #2 | 156.0965 | 4.921594 | 4.562688 | 4.862156 | 4.954605 | 5.154445 | 4.976956 |
| #3 | 155.6124 | 5.083651 | 4.571516 | 5.036954 | 5.112193 | 5.151655 | 5.173871 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV102 Acquired: 01/03/2025 16:35:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV102 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 5.414866 | 5.144183 | 5.226932 |
| Stddev | .373663 | .348326 | .350762 |
| %RSD | 6.900696 | 6.771265 | 6.710668 |
| | | | |
| #1 | 5.846335 | 5.546362 | 5.631957 |
| #2 | 5.198679 | 4.938594 | 5.024735 |
| #3 | 5.199584 | 4.947593 | 5.024104 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1506.715 | 16474.80 | 1616.255 | 1128.850 | 1621.278 |
| Stddev | 24.996 | 140.64 | 96.004 | 13.856 | 27.439 |
| %RSD | 1.658975 | .8536687 | 5.939911 | 1.227448 | 1.692414 |
| | | | | | |
| #1 | 1494.275 | 16374.83 | 1505.431 | 1117.841 | 1606.200 |
| #2 | 1535.490 | 16413.95 | 1673.995 | 1124.301 | 1652.950 |
| #3 | 1490.380 | 16635.61 | 1669.337 | 1144.409 | 1604.685 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB102 Acquired: 01/03/2025 16:39:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB102 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0024687 | -.000355 | .0020604 | .0031786 | .0008036 | .0141827 | .0000363 |
| Stddev | .0015213 | .004616 | .0024719 | .0054018 | .0005355 | .0143146 | .0016264 |
| %RSD | 61.62280 | 1298.892 | 119.9694 | 169.9414 | 66.64122 | 100.9299 | 4476.626 |
| #1 | .0010676 | -.005537 | .0034222 | .0014712 | .0009784 | .0119995 | .0008716 |
| #2 | .0022517 | .001155 | -.000793 | -.001163 | .0012300 | .0294635 | -.001838 |
| #3 | .0040869 | .003316 | .003552 | .009228 | .0002025 | .0010851 | .001075 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000126 | .0000010 | -.029284 | .0004051 | -.000255 | -.018763 | .0429332 |
| Stddev | .000140 | .0000889 | .011066 | .0003197 | .000729 | .001452 | .0212716 |
| %RSD | 111.7055 | 9126.207 | 37.78787 | 78.90990 | 285.5325 | 7.740741 | 49.54574 |
| #1 | -.000234 | -.000066 | -.032232 | .0006587 | -.000903 | -.018368 | .0231462 |
| #2 | .000033 | -.000033 | -.017042 | .0005105 | -.000397 | -.017548 | .0402237 |
| #3 | -.000176 | .000102 | -.038576 | .0000460 | .000534 | -.020371 | .0654297 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0015745 | -.077752 | -.001292 | -.000370 | .2095810 | .0026332 | .0005936 |
| Stddev | .0018269 | .023984 | .000401 | .000871 | .0119367 | .0048188 | .0003542 |
| %RSD | 116.0304 | 30.84684 | 31.07783 | 235.3350 | 5.695490 | 182.9987 | 59.66920 |
| #1 | .0031990 | -.102747 | -.001135 | -.001366 | .2196774 | -.002580 | .0002411 |
| #2 | -.000403 | -.075582 | -.000992 | .000253 | .1964069 | .003557 | .0005902 |
| #3 | .001928 | -.054927 | -.001748 | .000002 | .2126587 | .006924 | .0009495 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3064272 | -.002003 | .0095845 | .0003636 | -.010377 | -.001272 | .0026869 |
| Stddev | .1789997 | .001695 | .0023123 | .0009715 | .001188 | .001031 | .0006753 |
| %RSD | 58.41507 | 84.60926 | 24.12579 | 267.1656 | 11.44595 | 81.03350 | 25.13441 |
| #1 | .1026725 | -.003843 | .0080466 | .0003316 | -.010394 | -.001081 | .0034495 |
| #2 | .3782399 | -.000505 | .0084632 | -.000591 | -.009181 | -.002384 | .0021646 |
| #3 | .4383692 | -.001662 | .0122437 | .001351 | -.011556 | -.000350 | .0024465 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB102 Acquired: 01/03/2025 16:39:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB102 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.007499 | -.000012 | .0106013 |
| Stddev | .007713 | .000328 | .0070208 |
| %RSD | 102.8613 | 2747.379 | 66.22602 |
| | | | |
| #1 | -.011285 | -.000361 | .0085442 |
| #2 | -.012587 | .000036 | .0184209 |
| #3 | .001376 | .000289 | .0048388 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1813.330 | 18409.39 | 1819.596 | 1364.961 | 1994.697 |
| Stddev | 41.697 | 1264.05 | 155.159 | 91.485 | 51.958 |
| %RSD | 2.299498 | 6.866312 | 8.527138 | 6.702401 | 2.604812 |
| | | | | | |
| #1 | 1834.502 | 17659.68 | 1802.017 | 1308.365 | 2021.608 |
| #2 | 1840.195 | 17699.68 | 1982.797 | 1316.010 | 2027.679 |
| #3 | 1765.295 | 19868.80 | 1673.975 | 1470.506 | 1934.803 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5124-21 Acquired: 01/03/2025 16:43:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM88S Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2185707 | .0704294 | .8635321 | .2111891 | .1955820 | 53.12841 | 4.500260 |
| Stddev | .0056135 | .0033558 | .0010989 | .0042389 | .0044918 | .27330 | .036971 |
| %RSD | 2.568269 | 4.764800 | .1272546 | 2.007142 | 2.296607 | .5144067 | .8215336 |
| #1 | .2122322 | .0681757 | .8635655 | .2109878 | .1940179 | 53.22980 | 4.528663 |
| #2 | .2229141 | .0688263 | .8624168 | .2155251 | .2006467 | 52.81891 | 4.458457 |
| #3 | .2205659 | .0742861 | .8646138 | .2070545 | .1920814 | 53.33652 | 4.513658 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1051740 | .1021329 | 76.60250 | .4878536 | 1.096615 | .6198705 | 112.1456 |
| Stddev | .0015116 | .0004896 | .51844 | .0012742 | .002157 | .0037712 | .4266 |
| %RSD | 1.437242 | .4793756 | .6767865 | .2611886 | .1966969 | .6083810 | .3803977 |
| #1 | .1068491 | .1015771 | 76.93455 | .4883070 | 1.095383 | .6241706 | 112.3551 |
| #2 | .1039116 | .1025004 | 76.00510 | .4888392 | 1.095357 | .6183148 | 111.6547 |
| #3 | .1047613 | .1023213 | 76.86785 | .4864148 | 1.099106 | .6171260 | 112.4269 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.172084 | 22.91252 | 1.175425 | .0637476 | .9265707 | 1.121172 | 1.426391 |
| Stddev | .022059 | .07258 | .003571 | .0010630 | .0230778 | .009492 | .005251 |
| %RSD | .6953968 | .3167698 | .3037949 | 1.667548 | 2.490663 | .8465883 | .3681224 |
| #1 | 3.187280 | 22.97327 | 1.172249 | .0648937 | .9340230 | 1.132104 | 1.428343 |
| #2 | 3.146783 | 22.83215 | 1.174736 | .0627939 | .9006876 | 1.116384 | 1.430387 |
| #3 | 3.182189 | 22.93214 | 1.179291 | .0635552 | .9450015 | 1.115027 | 1.420444 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.750180 | 4.522912 | -.151952 | .0134826 | 5.158767 | 3.952560 | .0309630 |
| Stddev | .104739 | .010953 | .005724 | .0003595 | .009260 | .044639 | .0005978 |
| %RSD | 2.792909 | .2421751 | 3.767062 | 2.666672 | .1794991 | 1.129370 | 1.930658 |
| #1 | 3.863102 | 4.513134 | -.158522 | .0132831 | 5.149007 | 4.000403 | .0308933 |
| #2 | 3.731226 | 4.520854 | -.148045 | .0138976 | 5.167429 | 3.912027 | .0304032 |
| #3 | 3.656212 | 4.534749 | -.149288 | .0132670 | 5.159866 | 3.945251 | .0315927 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5124-21 Acquired: 01/03/2025 16:43:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM88S Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 1.350472 | .3090611 | .0559445 |
| Stddev | .005331 | .0016385 | .0048338 |
| %RSD | .3947530 | .5301689 | 8.640266 |
| | | | |
| #1 | 1.354456 | .3101569 | .0552993 |
| #2 | 1.344416 | .3071774 | .0514658 |
| #3 | 1.352545 | .3098488 | .0610685 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1992.538 | 20245.67 | 1986.573 | 1493.725 | 1996.592 |
| Stddev | 6.850 | 29.16 | 17.727 | 6.567 | 8.481 |
| %RSD | .3437672 | .1440431 | .8923609 | .4396517 | .4247937 |
| | | | | | |
| #1 | 2000.433 | 20276.67 | 1967.949 | 1496.282 | 2006.355 |
| #2 | 1989.011 | 20218.78 | 2003.242 | 1486.264 | 1992.375 |
| #3 | 1988.172 | 20241.57 | 1988.528 | 1498.629 | 1991.045 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5121-10 Acquired: 01/03/2025 16:47:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2259108 | -.021126 | 5.426590 | .0795013 | .0489107 | 68.78903 |
| Stddev | .0025066 | .004258 | .006137 | .0085311 | .0040024 | 3.47458 |
| %RSD | 1.109536 | 20.15685 | .1130861 | 10.73084 | 8.183135 | 5.051067 |
| #1 | .2272383 | -.023393 | 5.419634 | .0844635 | .0526135 | 70.63570 |
| #2 | .2230197 | -.023771 | 5.428896 | .0843900 | .0494543 | 70.95033 |
| #3 | .2274745 | -.016214 | 5.431240 | .0696505 | .0446642 | 64.78104 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.560964 | .0111385 | .0207243 | 361.7533 | .2023920 | .1452458 |
| Stddev | .138428 | .0005419 | .0003629 | 18.4266 | .0075815 | .0001388 |
| %RSD | 5.405309 | 4.864873 | 1.750973 | 5.093693 | 3.745969 | .0955711 |
| #1 | 2.634125 | .0114421 | .0204057 | 371.1732 | .2056538 | .1450870 |
| #2 | 2.647459 | .0114606 | .0206479 | 373.5657 | .1937255 | .1453062 |
| #3 | 2.401306 | .0105129 | .0211193 | 340.5210 | .2077968 | .1453442 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8307642 | 196.8731 | 8.343589 | 109.4870 | .2265343 | -.011602 |
| Stddev | .0466531 | 9.7207 | .418101 | 5.4411 | .0015082 | .001595 |
| %RSD | 5.615684 | 4.937532 | 5.011046 | 4.969588 | .6657764 | 13.75137 |
| #1 | .8563091 | 201.7492 | 8.552571 | 112.4275 | .2259647 | -.010508 |
| #2 | .8590663 | 203.1906 | 8.615998 | 112.8251 | .2282444 | -.010865 |
| #3 | .7769174 | 185.6795 | 7.862198 | 103.2084 | .2253939 | -.013433 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.892301 | .2016814 | 4.491024 | 9.180954 | F 20.39511 | -.335437 |
| Stddev | .073965 | .0141533 | .199102 | .511017 | .05449 | .011035 |
| %RSD | 3.908722 | 7.017638 | 4.433339 | 5.566056 | .2671727 | 3.289863 |
| #1 | 1.951056 | .1978040 | 4.599195 | 9.415748 | 20.39080 | -.345453 |
| #2 | 1.916606 | .2173693 | 4.261252 | 9.532377 | 20.34289 | -.337251 |
| #3 | 1.809242 | .1898710 | 4.612626 | 8.594737 | 20.45162 | -.323607 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5121-10 Acquired: 01/03/2025 16:47:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0133474 | 6.058144 | 2.322607 | .3533493 | .9767044 | .6555342 |
| Stddev | .0010780 | .016588 | .093992 | .0023045 | .0529309 | .0337133 |
| %RSD | 8.076673 | .2738147 | 4.046831 | .6522017 | 5.419342 | 5.142876 |
| #1 | .0144082 | 6.058283 | 2.386391 | .3514046 | 1.005890 | .6741631 |
| #2 | .0133811 | 6.041487 | 2.366763 | .3558947 | 1.008618 | .6758223 |
| #3 | .0122529 | 6.074663 | 2.214668 | .3527485 | .915605 | .6166172 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0936146 |
| Stddev | .0057139 |
| %RSD | 6.103676 |
| #1 | .1000337 |
| #2 | .0917264 |
| #3 | .0890838 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2078.425 | 20789.62 | 2163.066 | 1527.736 | 1795.147 |
| Stddev | 3.091 | 627.36 | 94.034 | 56.255 | 5.438 |
| %RSD | .1487406 | 3.017674 | 4.347246 | 3.682231 | .3029298 |
| #1 | 2081.992 | 20466.97 | 2112.482 | 1499.576 | 1800.924 |
| #2 | 2076.513 | 21512.64 | 2105.151 | 1592.510 | 1794.388 |
| #3 | 2076.771 | 20389.24 | 2271.564 | 1491.121 | 1790.128 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5121-11 Acquired: 01/03/2025 16:50:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51D Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2348535 | -.027532 | 5.444673 | .0916506 | .0508692 | 72.17525 |
| Stddev | .0038395 | .006091 | .008834 | .0053357 | .0019394 | .17288 |
| %RSD | 1.634847 | 22.12502 | .1622457 | 5.821797 | 3.812534 | .2395234 |
| #1 | .2387876 | -.026878 | 5.435671 | .0923817 | .0514456 | 71.97914 |
| #2 | .2346567 | -.033924 | 5.453328 | .0859870 | .0487069 | 72.30559 |
| #3 | .2311162 | -.021794 | 5.445019 | .0965830 | .0524550 | 72.24102 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.666435 | .0116126 | .0206615 | 374.8200 | .1977010 | .1479943 |
| Stddev | .006441 | .0003197 | .0002318 | .6304 | .0006195 | .0006555 |
| %RSD | .2415595 | 2.753375 | 1.121748 | .1681944 | .3133568 | .4429211 |
| #1 | 2.667738 | .0119789 | .0204819 | 374.7554 | .1980898 | .1476366 |
| #2 | 2.672124 | .0113897 | .0209232 | 375.4802 | .1969866 | .1487508 |
| #3 | 2.659441 | .0114692 | .0205795 | 374.2243 | .1980266 | .1475955 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8570118 | 204.8576 | 8.656233 | 113.8747 | .2250543 | -.009392 |
| Stddev | .0073863 | .2356 | .045174 | .5592 | .0007305 | .002028 |
| %RSD | .8618690 | .1149970 | .5218650 | .4910408 | .3245886 | 21.59083 |
| #1 | .8498805 | 204.8593 | 8.609308 | 113.2327 | .2257465 | -.011723 |
| #2 | .8646291 | 205.0923 | 8.699424 | 114.1363 | .2242907 | -.008422 |
| #3 | .8565259 | 204.6211 | 8.659967 | 114.2552 | .2251257 | -.008032 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.949608 | .2007523 | 4.412034 | 9.881640 | F 20.56079 | -.329944 |
| Stddev | .010652 | .0017361 | .017701 | .099955 | .01533 | .002831 |
| %RSD | .5463514 | .8648057 | .4011957 | 1.011526 | .0745788 | .8578815 |
| #1 | 1.957952 | .1987752 | 4.401408 | 9.781212 | 20.54313 | -.331979 |
| #2 | 1.937610 | .2014543 | 4.402226 | 9.981116 | 20.57073 | -.326711 |
| #3 | 1.953261 | .2020276 | 4.432468 | 9.882592 | 20.56852 | -.331141 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5121-11 Acquired: 01/03/2025 16:50:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51D Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0135527 | 6.055050 | 3.336233 | .3567708 | 1.044014 | .6798026 |
| Stddev | .0004085 | .016435 | .017679 | .0030933 | .001043 | .0011959 |
| %RSD | 3.014404 | .2714301 | .5299069 | .8670120 | .0998843 | .1759150 |
| | | | | | | |
| #1 | .0131627 | 6.055238 | 3.356637 | .3538358 | 1.042849 | .6784255 |
| #2 | .0135178 | 6.038521 | 3.326580 | .3600011 | 1.044861 | .6805785 |
| #3 | .0139776 | 6.071390 | 3.325482 | .3564756 | 1.044332 | .6804040 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0952221 |
| Stddev | .0051446 |
| %RSD | 5.402775 |
| | |
| #1 | .0911246 |
| #2 | .0935459 |
| #3 | .1009958 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2046.045 | 20832.04 | 2082.172 | 1527.670 | 1769.948 |
| Stddev | 3.661 | 81.37 | 10.763 | 4.056 | 2.093 |
| %RSD | .1789476 | .3906017 | .5169042 | .2654964 | .1182789 |
| | | | | | |
| #1 | 2050.256 | 20880.70 | 2076.801 | 1531.985 | 1772.279 |
| #2 | 2043.618 | 20738.11 | 2075.152 | 1523.936 | 1768.229 |
| #3 | 2044.261 | 20877.32 | 2094.563 | 1527.089 | 1769.335 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5121-10LX5 Acquired: 01/03/2025 16:54:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51L Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0429317 | .0080274 | 1.094677 | .0053422 | .0104952 | 16.50043 | .6121922 |
| Stddev | .0039181 | .0017833 | .004241 | .0038015 | .0015848 | .08619 | .0019021 |
| %RSD | 9.126314 | 22.21502 | .3874652 | 71.15877 | 15.10003 | .5223780 | .3107034 |
| #1 | .0447655 | .0093926 | 1.099355 | .0095208 | .0121751 | 16.41079 | .6101569 |
| #2 | .0384330 | .0060098 | 1.093590 | .0020885 | .0090268 | 16.58271 | .6139247 |
| #3 | .0455966 | .0086800 | 1.091084 | .0044174 | .0102838 | 16.50779 | .6124951 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0027352 | .0039581 | 86.84740 | .0461915 | .0473772 | .1984238 | 47.61124 |
| Stddev | .0000404 | .0000537 | .32438 | .0000852 | .0005122 | .0047426 | .33759 |
| %RSD | 1.476827 | 1.356183 | .3735037 | .1844578 | 1.081141 | 2.390123 | .7090640 |
| #1 | .0027215 | .0039446 | 86.49071 | .0461191 | .0468141 | .1995412 | 47.25915 |
| #2 | .0027807 | .0040172 | 87.12474 | .0461701 | .0478153 | .2025079 | 47.64238 |
| #3 | .0027035 | .0039124 | 86.92676 | .0462854 | .0475024 | .1932223 | 47.93218 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.020921 | 26.79761 | .0410738 | -.001429 | .4204053 | .0379140 | 1.029678 |
| Stddev | .002412 | .06194 | .0004177 | .002777 | .0141220 | .0079678 | .003858 |
| %RSD | .1193494 | .2311301 | 1.016908 | 194.3841 | 3.359142 | 21.01542 | .3746606 |
| #1 | 2.021425 | 26.77850 | .0415194 | .001564 | .4366955 | .0292934 | 1.029620 |
| #2 | 2.023041 | 26.74749 | .0406912 | -.003924 | .4116267 | .0394405 | 1.033564 |
| #3 | 2.018297 | 26.86685 | .0410108 | -.001926 | .4128935 | .0450081 | 1.025849 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.069104 | 4.029356 | -.079701 | .0077721 | 1.166596 | .6660578 | .0610774 |
| Stddev | .083677 | .012393 | .001452 | .0005815 | .002063 | .0023909 | .0011357 |
| %RSD | 4.044102 | .3075571 | 1.821968 | 7.481711 | .1768079 | .3589571 | 1.859457 |
| #1 | 1.982401 | 4.035187 | -.080571 | .0083974 | 1.165174 | .6650039 | .0616147 |
| #2 | 2.075525 | 4.015124 | -.080508 | .0076714 | 1.165651 | .6643749 | .0618448 |
| #3 | 2.149385 | 4.037758 | -.078025 | .0072476 | 1.168961 | .6687945 | .0597728 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5121-10LX5 Acquired: 01/03/2025 16:54:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51L Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2236137 | .1545820 | .0165801 |
| Stddev | .0041717 | .0010430 | .0050537 |
| %RSD | 1.865571 | .6746879 | 30.48035 |
| | | | |
| #1 | .2213512 | .1534620 | .0171323 |
| #2 | .2210621 | .1555254 | .0213351 |
| #3 | .2284279 | .1547585 | .0112731 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1869.759 | 19068.71 | 1867.802 | 1398.797 | 1928.622 |
| Stddev | 5.601 | 34.54 | 2.774 | 7.350 | 4.001 |
| %RSD | .2995378 | .1811600 | .1485072 | .5254436 | .2074570 |
| | | | | | |
| #1 | 1863.951 | 19056.65 | 1870.274 | 1398.441 | 1927.307 |
| #2 | 1870.198 | 19041.82 | 1864.802 | 1391.632 | 1925.445 |
| #3 | 1875.127 | 19107.67 | 1868.329 | 1406.319 | 1933.115 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5121-12 Acquired: 01/03/2025 16:58:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51S Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2578024 | .0189172 | 5.354648 | .1522191 | .1257476 | 70.58309 |
| Stddev | .0021437 | .0028056 | .009280 | .0181137 | .0072897 | 6.20018 |
| %RSD | .8315190 | 14.83120 | .1732993 | 11.89978 | 5.797098 | 8.784223 |
| #1 | .2553297 | .0217567 | 5.344149 | .1365065 | .1175707 | 63.79555 |
| #2 | .2589406 | .0161467 | 5.358047 | .1720313 | .1281060 | 75.94896 |
| #3 | .2591369 | .0188483 | 5.361750 | .1481194 | .1315662 | 72.00477 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.259229 | .0543164 | .0708877 | 358.6252 | .3793165 | .6551936 |
| Stddev | .379669 | .0037900 | .0005017 | 31.6654 | .0024109 | .0002023 |
| %RSD | 8.914028 | 6.977614 | .7077153 | 8.829652 | .6356047 | .0308806 |
| #1 | 3.834140 | .0501422 | .0713703 | 323.4590 | .3817521 | .6553620 |
| #2 | 4.564633 | .0575420 | .0703689 | 384.8800 | .3769310 | .6552497 |
| #3 | 4.378915 | .0552650 | .0709238 | 367.5367 | .3792663 | .6549692 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.025192 | 196.7610 | 8.702977 | 108.8742 | .7363027 | .0205258 |
| Stddev | .093952 | 17.0772 | .728566 | 9.0501 | .0007219 | .0023568 |
| %RSD | 9.164285 | 8.679183 | 8.371460 | 8.312415 | .0980391 | 11.48197 |
| #1 | .922202 | 178.0360 | 7.905839 | 98.9278 | .7371297 | .0181991 |
| #2 | 1.106210 | 211.4774 | 9.334434 | 116.6233 | .7357988 | .0204669 |
| #3 | 1.047164 | 200.7695 | 8.868659 | 111.0716 | .7359797 | .0229115 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.827490 | .6367857 | 4.714001 | 9.210280 | F 20.12442 | -.315935 |
| Stddev | .144595 | .0603766 | .015170 | .862165 | .02037 | .018876 |
| %RSD | 7.912248 | 9.481467 | .3218043 | 9.360900 | .1012163 | 5.974676 |
| #1 | 1.673066 | .5744688 | 4.729126 | 8.242933 | 20.11731 | -.295732 |
| #2 | 1.959682 | .6950142 | 4.698786 | 9.897690 | 20.10856 | -.333121 |
| #3 | 1.849721 | .6408740 | 4.714090 | 9.490216 | 20.14739 | -.318951 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5121-12 Acquired: 01/03/2025 16:58:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51S Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0133248 | 5.953559 | 3.509681 | .3465365 | 1.012958 | .6503074 |
| Stddev | .0008074 | .013117 | .254990 | .0028362 | .083011 | .0546780 |
| %RSD | 6.059625 | .2203179 | 7.265333 | .8184333 | 8.194931 | 8.408017 |
| | | | | | | |
| #1 | .0141139 | 5.967480 | 3.234241 | .3433679 | .923515 | .5897806 |
| #2 | .0125002 | 5.941431 | 3.737509 | .3474040 | 1.087527 | .6961290 |
| #3 | .0133604 | 5.951765 | 3.557294 | .3488377 | 1.027833 | .6650126 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0926336 |
| Stddev | .0071518 |
| %RSD | 7.720518 |
| | |
| #1 | .0844094 |
| #2 | .0973937 |
| #3 | .0960977 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2079.907 | 21157.70 | 2166.495 | 1553.642 | 1804.296 |
| Stddev | 1.608 | 81.13 | 160.159 | 1.871 | 2.670 |
| %RSD | .0773099 | .3834409 | 7.392527 | .1204253 | .1479963 |
| | | | | | |
| #1 | 2081.137 | 21098.03 | 2342.257 | 1551.524 | 1805.542 |
| #2 | 2080.496 | 21125.00 | 2028.799 | 1554.335 | 1806.116 |
| #3 | 2078.088 | 21250.07 | 2128.428 | 1555.068 | 1801.230 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5129-01 Acquired: 01/03/2025 17:02:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM3 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2067818 | -.021723 | 2.477436 | .1010640 | .0402424 | 73.03287 |
| Stddev | .0051210 | .002532 | .003628 | .0060086 | .0029168 | .71139 |
| %RSD | 2.476519 | 11.65356 | .1464595 | 5.945357 | 7.248179 | .9740691 |
| #1 | .2126302 | -.020260 | 2.473291 | .0948105 | .0385153 | 72.25438 |
| #2 | .2046132 | -.020263 | 2.478986 | .1067935 | .0386019 | 73.64914 |
| #3 | .2031019 | -.024646 | 2.480033 | .1015881 | .0436102 | 73.19509 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.556481 | .0074468 | .0077648 | 64.88475 | .1459104 | .1406207 |
| Stddev | .000945 | .0001527 | .0000744 | .27759 | .0014224 | .0008546 |
| %RSD | .0606968 | 2.050525 | .9586539 | .4278246 | .9748556 | .6077089 |
| #1 | 1.555858 | .0076133 | .0077823 | 64.56449 | .1466135 | .1402487 |
| #2 | 1.556017 | .0074140 | .0076832 | 65.05628 | .1442733 | .1400152 |
| #3 | 1.557568 | .0073132 | .0078289 | 65.03350 | .1468443 | .1415982 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4705045 | 182.1103 | 18.35639 | 20.19064 | .2294052 | -.007827 |
| Stddev | .0113043 | 1.6705 | .12090 | .10995 | .0011465 | .000629 |
| %RSD | 2.402593 | .9172867 | .6586064 | .5445372 | .4997577 | 8.032207 |
| #1 | .4579571 | 180.2699 | 18.22026 | 20.06371 | .2285846 | -.007413 |
| #2 | .4798943 | 183.5305 | 18.45123 | 20.25194 | .2307152 | -.007518 |
| #3 | .4736620 | 182.5306 | 18.39768 | 20.25628 | .2289159 | -.008551 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4805770 | .2024793 | 1.557745 | 10.58642 | F 11.89032 | -.353850 |
| Stddev | .0182291 | .0136667 | .006306 | .08214 | .01837 | .002526 |
| %RSD | 3.793177 | 6.749665 | .4048120 | .7759426 | .1544900 | .7137613 |
| #1 | .4728285 | .2145417 | 1.551217 | 10.51326 | 11.88250 | -.351076 |
| #2 | .5014004 | .1876361 | 1.558215 | 10.67528 | 11.87716 | -.356017 |
| #3 | .4675022 | .2052601 | 1.563803 | 10.57072 | 11.91131 | -.354458 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5129-01 Acquired: 01/03/2025 17:02:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM3 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0135518 | 3.554672 | 6.395010 | .1798272 | .7954750 | .0830995 |
| Stddev | .0006600 | .012767 | .027035 | .0012540 | .0033522 | .0006050 |
| %RSD | 4.870202 | .3591591 | .4227522 | .6973377 | .4214082 | .7280156 |
| #1 | .0129365 | 3.560429 | 6.364597 | .1812446 | .7931801 | .0826737 |
| #2 | .0134699 | 3.540040 | 6.416313 | .1788618 | .7939229 | .0837920 |
| #3 | .0142489 | 3.563546 | 6.404121 | .1793753 | .7993219 | .0828327 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0875440 |
| Stddev | .0020184 |
| %RSD | 2.305615 |
| #1 | .0855632 |
| #2 | .0874706 |
| #3 | .0895981 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2234.582 | 22591.17 | 2209.899 | 1668.696 | 1960.912 |
| Stddev | 3.312 | 6.23 | 12.903 | 7.264 | 1.471 |
| %RSD | .1482286 | .0275767 | .5838827 | .4352856 | .0750028 |
| #1 | 2233.484 | 22597.98 | 2224.764 | 1674.661 | 1960.033 |
| #2 | 2238.304 | 22589.79 | 2201.589 | 1670.820 | 1962.610 |
| #3 | 2231.958 | 22585.75 | 2203.344 | 1660.607 | 1960.093 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5129-02 Acquired: 01/03/2025 17:06:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM3D Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2171708 | -.023226 | 2.503187 | .1060940 | .0394748 | 73.50490 |
| Stddev | .0042523 | .003632 | .006179 | .0055673 | .0015211 | .08869 |
| %RSD | 1.958061 | 15.63563 | .2468440 | 5.247500 | 3.853252 | .1206537 |
| #1 | .2143231 | -.024603 | 2.507427 | .1051803 | .0384065 | 73.42960 |
| #2 | .2151305 | -.025968 | 2.496098 | .1010400 | .0388016 | 73.48244 |
| #3 | .2220588 | -.019108 | 2.506037 | .1120616 | .0412163 | 73.60265 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.576165 | .0076216 | .0078612 | 65.42717 | .1463914 | .1419123 |
| Stddev | .004332 | .0000803 | .0001026 | .12593 | .0003459 | .0005320 |
| %RSD | .2748156 | 1.053612 | 1.305121 | .1924778 | .2362934 | .3748680 |
| #1 | 1.580950 | .0076251 | .0079781 | 65.46265 | .1460061 | .1413330 |
| #2 | 1.575034 | .0077001 | .0077861 | 65.53156 | .1466752 | .1420252 |
| #3 | 1.572511 | .0075397 | .0078195 | 65.28730 | .1464930 | .1423789 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4451368 | 183.9344 | 18.51651 | 20.34829 | .2268708 | -.006966 |
| Stddev | .0096066 | .4739 | .01641 | .06942 | .0013921 | .000567 |
| %RSD | 2.158116 | .2576290 | .0886284 | .3411791 | .6135905 | 8.143304 |
| #1 | .4369104 | 183.5615 | 18.50468 | 20.27026 | .2284153 | -.007533 |
| #2 | .4428056 | 183.7742 | 18.53524 | 20.37139 | .2257129 | -.006398 |
| #3 | .4556945 | 184.4677 | 18.50961 | 20.40322 | .2264843 | -.006968 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4909229 | .1937687 | 1.564705 | 10.89786 | F 11.96570 | -.359367 |
| Stddev | .0310642 | .0158887 | .001909 | .13734 | .03901 | .003999 |
| %RSD | 6.327723 | 8.199811 | .1220276 | 1.260202 | .3260358 | 1.112901 |
| #1 | .5175625 | .1781161 | 1.566166 | 11.05117 | 12.00933 | -.363984 |
| #2 | .4568008 | .2098834 | 1.562544 | 10.78610 | 11.95359 | -.356999 |
| #3 | .4984055 | .1933068 | 1.565405 | 10.85631 | 11.93418 | -.357117 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5129-02 Acquired: 01/03/2025 17:06:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM3D Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0136978 | 3.602119 | 6.113576 | .1805406 | .7972153 | .0837474 |
| Stddev | .0008629 | .009140 | .012135 | .0016947 | .0025161 | .0003076 |
| %RSD | 6.299732 | .2537514 | .1984934 | .9386989 | .3156106 | .3672497 |
| | | | | | | |
| #1 | .0129156 | 3.591668 | 6.122552 | .1821085 | .7946541 | .0840959 |
| #2 | .0146234 | 3.606071 | 6.099770 | .1807708 | .7973081 | .0836320 |
| #3 | .0135543 | 3.608619 | 6.118407 | .1787426 | .7996837 | .0835141 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0889670 |
| Stddev | .0025200 |
| %RSD | 2.832546 |
| | |
| #1 | .0886602 |
| #2 | .0916264 |
| #3 | .0866145 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2243.065 | 22602.69 | 2208.851 | 1671.658 | 1965.505 |
| Stddev | 7.099 | 106.45 | 12.871 | 9.310 | 6.375 |
| %RSD | .3164961 | .4709672 | .5827180 | .5569345 | .3243536 |
| | | | | | |
| #1 | 2239.876 | 22616.63 | 2205.215 | 1669.007 | 1958.579 |
| #2 | 2238.119 | 22701.49 | 2223.149 | 1682.006 | 1966.811 |
| #3 | 2251.199 | 22489.96 | 2198.189 | 1663.961 | 1971.127 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5129-01LX5 Acquired: 01/03/2025 17:09:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM3L Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0510018 | -.005754 | .5124853 | .0227362 | .0119040 | 17.21796 | .3692890 |
| Stddev | .0027158 | .002358 | .0012801 | .0083360 | .0023110 | .66633 | .0186290 |
| %RSD | 5.324864 | 40.97442 | .2497778 | 36.66392 | 19.41362 | 3.869971 | 5.044552 |
| #1 | .0518905 | -.003221 | .5139064 | .0201598 | .0100389 | 16.48730 | .3485349 |
| #2 | .0531618 | -.007885 | .5121265 | .0320562 | .0111838 | 17.79210 | .3845641 |
| #3 | .0479530 | -.006157 | .5114229 | .0159925 | .0144894 | 17.37447 | .3747679 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0018187 | .0015052 | 15.32405 | .0346506 | .0331730 | .0968623 | 42.79950 |
| Stddev | .0002971 | .0000742 | .58621 | .0008277 | .0004046 | .0117979 | 1.64939 |
| %RSD | 16.33855 | 4.929038 | 3.825395 | 2.388739 | 1.219680 | 12.18002 | 3.853755 |
| #1 | .0014863 | .0015570 | 14.67152 | .0351911 | .0333034 | .0832836 | 40.97552 |
| #2 | .0020586 | .0014202 | 15.80615 | .0350630 | .0334963 | .1027010 | 44.18615 |
| #3 | .0019111 | .0015385 | 15.49449 | .0336977 | .0327193 | .1046023 | 43.23683 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.410690 | 4.806048 | .0428724 | -.002739 | .1097522 | .0448167 | .3772986 |
| Stddev | .180145 | .259102 | .0005258 | .000619 | .0256200 | .0147377 | .0032265 |
| %RSD | 4.084273 | 5.391167 | 1.226460 | 22.58291 | 23.34355 | 32.88427 | .8551629 |
| #1 | 4.212280 | 4.574846 | .0424983 | -.002479 | .1187875 | .0346687 | .3778084 |
| #2 | 4.563999 | 5.086097 | .0426453 | -.002293 | .1296304 | .0617213 | .3802399 |
| #3 | 4.455790 | 4.757203 | .0434736 | -.003445 | .0808386 | .0380601 | .3738475 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.380857 | 2.449006 | -.090192 | .0035407 | .7223709 | 1.256541 | .0260238 |
| Stddev | .240211 | .004791 | .001520 | .0002448 | .0043221 | .031582 | .0010285 |
| %RSD | 10.08928 | .1956261 | 1.685560 | 6.914202 | .5983179 | 2.513432 | 3.952191 |
| #1 | 2.129988 | 2.450526 | -.090082 | .0033010 | .7266052 | 1.220950 | .0260548 |
| #2 | 2.608762 | 2.443639 | -.088729 | .0037903 | .7225416 | 1.281222 | .0249801 |
| #3 | 2.403819 | 2.452852 | -.091764 | .0035307 | .7179661 | 1.267450 | .0270364 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5129-01LX5 Acquired: 01/03/2025 17:09:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM3L Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .1800644 | .0196327 | .0135727 |
| Stddev | .0130201 | .0005889 | .0041449 |
| %RSD | 7.230775 | 2.999707 | 30.53825 |
| | | | |
| #1 | .1705655 | .0191628 | .0090450 |
| #2 | .1949059 | .0202933 | .0144930 |
| #3 | .1747218 | .0194419 | .0171800 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1934.792 | 19466.65 | 1939.723 | 1439.109 | 2022.187 |
| Stddev | 3.380 | 55.64 | 54.848 | 8.385 | 1.621 |
| %RSD | .1746919 | .2858416 | 2.827627 | .5826338 | .0801686 |
| | | | | | |
| #1 | 1935.992 | 19507.20 | 2000.736 | 1443.084 | 2021.039 |
| #2 | 1930.976 | 19403.21 | 1894.506 | 1429.476 | 2021.479 |
| #3 | 1937.408 | 19489.54 | 1923.927 | 1444.766 | 2024.041 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5129-03 Acquired: 01/03/2025 17:13:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM3S Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2886061 | .0666810 | 2.523663 | .2463711 | .1859096 | 74.62382 |
| Stddev | .0044990 | .0014621 | .005761 | .0049563 | .0040312 | .04843 |
| %RSD | 1.558887 | 2.192713 | .2282887 | 2.011728 | 2.168365 | .0648967 |
| #1 | .2915788 | .0683018 | 2.529593 | .2439272 | .1847622 | 74.57541 |
| #2 | .2908093 | .0654612 | 2.518087 | .2431113 | .1825765 | 74.62379 |
| #3 | .2834300 | .0662800 | 2.523307 | .2520747 | .1903901 | 74.67227 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.923652 | .0919958 | .1064728 | 64.78221 | .5010712 | 1.144728 |
| Stddev | .011596 | .0003004 | .0000729 | .18147 | .0014871 | .001182 |
| %RSD | .2355092 | .3264993 | .0684346 | .2801229 | .2967746 | .1032145 |
| #1 | 4.921186 | .0916494 | .1065117 | 64.58295 | .5024123 | 1.144260 |
| #2 | 4.936282 | .0921538 | .1065181 | 64.93800 | .5013294 | 1.146072 |
| #3 | 4.913487 | .0921841 | .1063888 | 64.82569 | .4994720 | 1.143852 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8190124 | 180.9577 | 19.02810 | 19.75665 | 1.248141 | .0548837 |
| Stddev | .0105237 | .3553 | .01092 | .07852 | .000943 | .0008482 |
| %RSD | 1.284929 | .1963184 | .0573794 | .3974181 | .0755471 | 1.545419 |
| #1 | .8300319 | 180.5660 | 19.03673 | 19.66654 | 1.249219 | .0557415 |
| #2 | .8090668 | 181.2590 | 19.03173 | 19.79308 | 1.247735 | .0540454 |
| #3 | .8179387 | 181.0483 | 19.01582 | 19.81034 | 1.247469 | .0548643 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4683050 | 1.048025 | 2.301537 | 10.61278 | F 11.88398 | -.366625 |
| Stddev | .0105952 | .005697 | .005349 | .26884 | .00509 | .003934 |
| %RSD | 2.262458 | .5435986 | .2324184 | 2.533145 | .0428652 | 1.072963 |
| #1 | .4651491 | 1.054275 | 2.301677 | 10.90368 | 11.88008 | -.363300 |
| #2 | .4596464 | 1.043123 | 2.306816 | 10.37348 | 11.88974 | -.365609 |
| #3 | .4801196 | 1.046676 | 2.296120 | 10.56117 | 11.88211 | -.370968 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5129-03 Acquired: 01/03/2025 17:13:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM3S Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0131982 | 3.572290 | 5.233597 | .1827650 | .7730051 | .0810976 |
| Stddev | .0003552 | .009930 | .008314 | .0023518 | .0015921 | .0006633 |
| %RSD | 2.691613 | .2779612 | .1588611 | 1.286781 | .2059566 | .8179514 |
| #1 | .0128084 | 3.562623 | 5.224006 | .1825735 | .7739914 | .0813464 |
| #2 | .0132824 | 3.582463 | 5.238021 | .1805148 | .7711684 | .0803458 |
| #3 | .0135037 | 3.571784 | 5.238763 | .1852067 | .7738554 | .0816006 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0880194 |
| Stddev | .0040991 |
| %RSD | 4.657017 |
| #1 | .0882129 |
| #2 | .0920183 |
| #3 | .0838270 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2259.864 | 22856.19 | 2248.113 | 1692.245 | 1985.153 |
| Stddev | 3.342 | 71.55 | 1.224 | 6.764 | 1.557 |
| %RSD | .1478951 | .3130623 | .0544457 | .3997039 | .0784225 |
| #1 | 2262.753 | 22795.40 | 2247.545 | 1685.118 | 1986.565 |
| #2 | 2260.636 | 22838.13 | 2247.277 | 1693.044 | 1983.484 |
| #3 | 2256.204 | 22935.05 | 2249.518 | 1698.575 | 1985.409 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5352-04 Acquired: 01/03/2025 17:17:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME2926 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1049796 | -.040517 | .2284254 | .1038064 | .0548673 | 113.7168 | 1.093979 |
| Stddev | .0044007 | .004887 | .0011218 | .0015477 | .0027425 | .4024 | .002750 |
| %RSD | 4.191986 | 12.06267 | .4910981 | 1.490989 | 4.998402 | .3538983 | .2514011 |
| #1 | .1093630 | -.037593 | .2283230 | .1055928 | .0537146 | 113.2853 | 1.091622 |
| #2 | .1050141 | -.046160 | .2273583 | .1029597 | .0528894 | 114.0820 | 1.093315 |
| #3 | .1005617 | -.037799 | .2295949 | .1028668 | .0579981 | 113.7831 | 1.097001 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0099405 | .0028858 | 454.1085 | .2182331 | .1877527 | .1860150 | 262.0546 |
| Stddev | .0000789 | .0000761 | 1.2987 | .0002183 | .0007710 | .0066893 | .1699 |
| %RSD | .7941568 | 2.636013 | .2859827 | .1000408 | .4106534 | 3.596089 | .0648451 |
| #1 | .0098494 | .0028036 | 454.3593 | .2183268 | .1877505 | .1906655 | 261.9630 |
| #2 | .0099900 | .0029001 | 455.2635 | .2183889 | .1885249 | .1890307 | 262.2507 |
| #3 | .0099820 | .0029537 | 452.7027 | .2179835 | .1869828 | .1783488 | 261.9502 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.267445 | 194.8857 | .4069150 | -.018920 | 1.465904 | .2887592 | .5567540 |
| Stddev | .009715 | .6914 | .0012743 | .000787 | .011881 | .0058695 | .0039941 |
| %RSD | .1844321 | .3547914 | .3131560 | 4.160391 | .8104895 | 2.032644 | .7173976 |
| #1 | 5.259751 | 194.1280 | .4066946 | -.018943 | 1.452251 | .2853836 | .5521856 |
| #2 | 5.278362 | 195.4825 | .4057653 | -.018121 | 1.473897 | .2853573 | .5584900 |
| #3 | 5.264221 | 195.0464 | .4082851 | -.019695 | 1.471564 | .2955366 | .5595864 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 20.57733 | 5.197994 | -.486740 | .0189090 | 6.878853 | 7.287725 | .0230590 |
| Stddev | .11824 | .010732 | .004983 | .0015498 | .018766 | .053762 | .0022904 |
| %RSD | .5746342 | .2064717 | 1.023805 | 8.195958 | .2728044 | .7377080 | 9.932863 |
| #1 | 20.45711 | 5.203581 | -.484545 | .0172372 | 6.876583 | 7.253878 | .0252535 |
| #2 | 20.69350 | 5.185621 | -.492444 | .0191920 | 6.861325 | 7.349717 | .0232401 |
| #3 | 20.58138 | 5.204781 | -.483231 | .0202977 | 6.898651 | 7.259581 | .0206834 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5352-04 Acquired: 01/03/2025 17:17:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME2926 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 1.803053 | .3393797 | .2737322 |
| Stddev | .004845 | .0010412 | .0015813 |
| %RSD | .2687153 | .3067832 | .5776693 |
| | | | |
| #1 | 1.799777 | .3384514 | .2723020 |
| #2 | 1.808619 | .3405055 | .2734642 |
| #3 | 1.800764 | .3391822 | .2754303 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1896.743 | 19303.84 | 1947.072 | 1416.603 | 1735.357 |
| Stddev | 4.713 | 61.33 | 9.235 | 8.617 | 4.721 |
| %RSD | .2484783 | .3177218 | .4743023 | .6083158 | .2720460 |
| | | | | | |
| #1 | 1899.533 | 19259.75 | 1955.119 | 1421.810 | 1737.976 |
| #2 | 1899.393 | 19373.88 | 1936.989 | 1421.342 | 1738.188 |
| #3 | 1891.301 | 19277.89 | 1949.108 | 1406.656 | 1729.907 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5352-05 Acquired: 01/03/2025 17:21:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME2926D Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1185248 | -.038151 | .2252767 | .1101182 | .0514579 | 113.5114 | 1.079071 |
| Stddev | .0020958 | .004140 | .0024870 | .0088730 | .0007902 | .7540 | .001353 |
| %RSD | 1.768222 | 10.85268 | 1.103976 | 8.057674 | 1.535644 | .6642919 | .1253560 |
| #1 | .1206236 | -.039096 | .2271442 | .1085903 | .0522801 | 112.6432 | 1.077903 |
| #2 | .1164320 | -.033619 | .2262322 | .1021084 | .0507041 | 113.8880 | 1.078756 |
| #3 | .1185187 | -.041737 | .2224536 | .1196559 | .0513894 | 114.0030 | 1.080553 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0099830 | .0024170 | 449.1126 | .2144697 | .1874991 | .1886440 | 260.3365 |
| Stddev | .0001733 | .0001310 | 1.5667 | .0014117 | .0005868 | .0132697 | 1.6213 |
| %RSD | 1.736358 | 5.419211 | .3488328 | .6582077 | .3129761 | 7.034268 | .6227772 |
| #1 | .0101541 | .0025139 | 447.9296 | .2134664 | .1881766 | .1746679 | 259.1042 |
| #2 | .0098075 | .0024691 | 448.5189 | .2160840 | .1871705 | .2010715 | 259.7321 |
| #3 | .0099876 | .0022680 | 450.8894 | .2138588 | .1871501 | .1901924 | 262.1732 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.226277 | 194.9510 | .4002402 | -.019224 | 1.507321 | .2973294 | .5490313 |
| Stddev | .028028 | .9639 | .0020050 | .001236 | .015381 | .0038499 | .0040798 |
| %RSD | .5362858 | .4944170 | .5009393 | 6.426895 | 1.020405 | 1.294840 | .7430856 |
| #1 | 5.196679 | 193.9475 | .4023945 | -.020075 | 1.494996 | .2931336 | .5505405 |
| #2 | 5.229740 | 195.0358 | .3984289 | -.019792 | 1.524558 | .3006994 | .5444119 |
| #3 | 5.252413 | 195.8696 | .3998972 | -.017807 | 1.502410 | .2981552 | .5521414 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 20.18776 | 5.148758 | -.472415 | .0180069 | 6.730161 | 7.336611 | .0221762 |
| Stddev | .12274 | .005786 | .003540 | .0015986 | .024819 | .019401 | .0034818 |
| %RSD | .6079693 | .1123791 | .7494414 | 8.877798 | .3687707 | .2644390 | 15.70057 |
| #1 | 20.30115 | 5.155041 | -.474742 | .0197643 | 6.741714 | 7.335550 | .0221105 |
| #2 | 20.05744 | 5.143649 | -.474162 | .0176174 | 6.747097 | 7.356520 | .0187278 |
| #3 | 20.20471 | 5.147583 | -.468340 | .0166390 | 6.701671 | 7.317762 | .0256904 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5352-05 Acquired: 01/03/2025 17:21:20 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME2926D Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 1.799938 | .3330946 | .2686204 |
| Stddev | .006193 | .0018352 | .0043725 |
| %RSD | .3440649 | .5509445 | 1.627755 |
| | | | |
| #1 | 1.794240 | .3311121 | .2636926 |
| #2 | 1.799045 | .3347341 | .2701324 |
| #3 | 1.806529 | .3334375 | .2720363 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1893.571 | 19278.71 | 1918.579 | 1405.005 | 1736.680 |
| Stddev | 3.753 | 31.72 | 5.748 | 6.691 | 3.464 |
| %RSD | .1982034 | .1645456 | .2996023 | .4762171 | .1994883 |
| | | | | | |
| #1 | 1891.751 | 19256.37 | 1918.870 | 1402.872 | 1734.125 |
| #2 | 1891.075 | 19264.74 | 1912.691 | 1412.502 | 1735.291 |
| #3 | 1897.887 | 19315.02 | 1924.177 | 1399.641 | 1740.623 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5352-04LX5 Acquired: 01/03/2025 17:25:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME2926L Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0229395 | .0081570 | .0500880 | .0143330 | .0109674 | 24.60624 | .2337851 |
| Stddev | .0043072 | .0055004 | .0046516 | .0033167 | .0009809 | .07998 | .0028725 |
| %RSD | 18.77631 | 67.43188 | 9.286950 | 23.14056 | 8.944057 | .3250311 | 1.228685 |
| #1 | .0187266 | .0023419 | .0461393 | .0126949 | .0098514 | 24.54129 | .2319538 |
| #2 | .0227567 | .0132766 | .0552157 | .0181500 | .0116930 | 24.69557 | .2370957 |
| #3 | .0273351 | .0088524 | .0489088 | .0121539 | .0113579 | 24.58185 | .2323058 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0023279 | .0004594 | 99.96582 | .0482580 | .0561069 | .0343068 | 57.70256 |
| Stddev | .0001598 | .0000935 | .48752 | .0006167 | .0003593 | .0113496 | .10126 |
| %RSD | 6.862838 | 20.35834 | .4876879 | 1.278011 | .6403914 | 33.08280 | .1754815 |
| #1 | .0021541 | .0005615 | 99.40288 | .0478126 | .0558866 | .0350775 | 57.62427 |
| #2 | .0024684 | .0003780 | 100.2480 | .0479995 | .0565215 | .0225914 | 57.81691 |
| #3 | .0023612 | .0004387 | 100.2466 | .0489619 | .0559125 | .0452514 | 57.66651 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.166481 | 43.78782 | .0778904 | -.004942 | .3089513 | .0554838 | .1197802 |
| Stddev | .003961 | .09450 | .0009385 | .000586 | .0245474 | .0019739 | .0010134 |
| %RSD | .3395769 | .2158122 | 1.204841 | 11.85017 | 7.945410 | 3.557654 | .8460274 |
| #1 | 1.170860 | 43.83987 | .0783664 | -.005202 | .3335116 | .0536163 | .1206486 |
| #2 | 1.165435 | 43.67874 | .0768093 | -.005353 | .2844168 | .0552858 | .1186668 |
| #3 | 1.163148 | 43.84485 | .0784954 | -.004272 | .3089255 | .0575493 | .1200251 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.959568 | 1.008460 | -.108591 | .0085868 | 1.306896 | 1.640670 | -.003327 |
| Stddev | .221636 | .006225 | .003811 | .0006178 | .005397 | .009137 | .002831 |
| %RSD | 5.597474 | .6173059 | 3.509491 | 7.194755 | .4129994 | .5569175 | 85.08814 |
| #1 | 3.864841 | 1.014308 | -.104930 | .0092761 | 1.305964 | 1.635360 | -.001926 |
| #2 | 3.801037 | 1.009155 | -.108308 | .0080830 | 1.302026 | 1.635429 | -.001470 |
| #3 | 4.212826 | 1.001916 | -.112536 | .0084012 | 1.312699 | 1.651220 | -.006586 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5352-04LX5 Acquired: 01/03/2025 17:25:07 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME2926L Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .3842274 | .0715953 | .0530603 |
| Stddev | .0049947 | .0004222 | .0014111 |
| %RSD | 1.299930 | .5897348 | 2.659451 |
| | | | |
| #1 | .3840559 | .0714335 | .0537757 |
| #2 | .3893056 | .0712779 | .0514348 |
| #3 | .3793206 | .0720745 | .0539706 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1827.673 | 18814.72 | 1818.837 | 1376.555 | 1909.181 |
| Stddev | 5.583 | 133.21 | 3.170 | 7.108 | 4.604 |
| %RSD | .3054734 | .7079831 | .1742830 | .5163927 | .2411368 |
| | | | | | |
| #1 | 1823.447 | 18750.90 | 1816.569 | 1374.676 | 1903.938 |
| #2 | 1834.002 | 18725.43 | 1817.483 | 1370.575 | 1911.040 |
| #3 | 1825.570 | 18967.82 | 1822.459 | 1384.414 | 1912.564 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5352-06 Acquired: 01/03/2025 17:29:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME2926S Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1876753 | .0475614 | .2717656 | .2607693 | .2170891 | 114.9167 | 4.731751 |
| Stddev | .0041518 | .0015034 | .0070563 | .0054288 | .0043055 | 1.2279 | .015158 |
| %RSD | 2.212245 | 3.161016 | 2.596457 | 2.081844 | 1.983293 | 1.068496 | .3203541 |
| #1 | .1839962 | .0492858 | .2736684 | .2641019 | .2140018 | 115.2478 | 4.728397 |
| #2 | .1868528 | .0468722 | .2639531 | .2545050 | .2220075 | 113.5572 | 4.718551 |
| #3 | .1921768 | .0465261 | .2776754 | .2637011 | .2152580 | 115.9451 | 4.748306 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1036939 | .1023742 | 444.8214 | .5987192 | 1.189699 | .6093512 | 257.4923 |
| Stddev | .0006272 | .0001574 | 1.9660 | .0020023 | .003023 | .0195560 | 2.2110 |
| %RSD | .6048841 | .1537107 | .4419859 | .3344256 | .2540823 | 3.209315 | .8586636 |
| #1 | .1043920 | .1024895 | 445.1388 | .5978810 | 1.191501 | .6224671 | 258.2795 |
| #2 | .1031779 | .1021950 | 442.7160 | .5972723 | 1.186209 | .5868742 | 254.9954 |
| #3 | .1035117 | .1024383 | 446.6095 | .6010044 | 1.191386 | .6187124 | 259.2020 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 6.050786 | 191.6667 | 1.414273 | .0472630 | 1.483915 | 1.247169 | 1.372256 |
| Stddev | .031086 | 1.4405 | .003451 | .0015452 | .018471 | .011046 | .006280 |
| %RSD | .5137467 | .7515645 | .2439969 | 3.269458 | 1.244721 | .8857057 | .4576305 |
| #1 | 6.070877 | 191.6644 | 1.413233 | .0481150 | 1.505238 | 1.234766 | 1.374468 |
| #2 | 6.014980 | 190.2273 | 1.411462 | .0454793 | 1.473653 | 1.250793 | 1.377131 |
| #3 | 6.066501 | 193.1083 | 1.418124 | .0481947 | 1.472854 | 1.255948 | 1.365170 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 20.15686 | 5.099332 | -.471683 | .0186982 | 6.701435 | 7.664247 | .0234671 |
| Stddev | .32249 | .004126 | .003663 | .0004955 | .010372 | .075953 | .0011242 |
| %RSD | 1.599881 | .0809049 | .7765283 | 2.650255 | .1547668 | .9910063 | 4.790553 |
| #1 | 20.23150 | 5.099828 | -.474779 | .0190214 | 6.712933 | 7.743832 | .0227400 |
| #2 | 19.80360 | 5.094981 | -.467640 | .0181277 | 6.698588 | 7.592539 | .0247620 |
| #3 | 20.43548 | 5.103188 | -.472631 | .0189454 | 6.692785 | 7.656370 | .0228994 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5352-06 Acquired: 01/03/2025 17:29:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ME2926S Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 1.762726 | .3275378 | .2697460 |
| Stddev | .007147 | .0015725 | .0040048 |
| %RSD | .4054685 | .4800893 | 1.484651 |
| | | | |
| #1 | 1.765102 | .3284157 | .2661875 |
| #2 | 1.754693 | .3257224 | .2689678 |
| #3 | 1.768383 | .3284753 | .2740828 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1895.720 | 19489.76 | 1933.499 | 1424.875 | 1743.849 |
| Stddev | 3.948 | 73.99 | 18.475 | .482 | 3.288 |
| %RSD | .2082799 | .3796380 | .9555255 | .0338033 | .1885500 |
| | | | | | |
| #1 | 1898.275 | 19520.59 | 1916.263 | 1425.075 | 1744.465 |
| #2 | 1897.712 | 19543.36 | 1953.004 | 1424.326 | 1746.786 |
| #3 | 1891.172 | 19405.34 | 1931.230 | 1425.225 | 1740.297 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5201-19 Acquired: 01/03/2025 17:32:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1215165 | -.064532 | .3902523 | .1612852 | .0623705 | 114.1381 | .7807668 |
| Stddev | .0054757 | .003183 | .0014324 | .0022210 | .0047639 | .4488 | .0039063 |
| %RSD | 4.506113 | 4.932661 | .3670540 | 1.377070 | 7.638019 | .3932361 | .5003167 |
| #1 | .1267587 | -.067983 | .3905247 | .1591772 | .0575637 | 113.6553 | .7766510 |
| #2 | .1158339 | -.063901 | .3915289 | .1636042 | .0670902 | 114.2164 | .7812265 |
| #3 | .1219569 | -.061711 | .3887032 | .1610742 | .0624574 | 114.5426 | .7844229 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0097450 | .0033955 | 30.92068 | .1459693 | .1601862 | .1959893 | 289.8834 |
| Stddev | .0001891 | .0001354 | .21744 | .0010278 | .0003282 | .0040731 | 1.1970 |
| %RSD | 1.940637 | 3.986316 | .7032336 | .7041042 | .2048765 | 2.078217 | .4129406 |
| #1 | .0097722 | .0035473 | 30.70252 | .1452368 | .1602210 | .1956159 | 288.5023 |
| #2 | .0099191 | .0033517 | 30.92213 | .1455270 | .1598420 | .2002363 | 290.6220 |
| #3 | .0095438 | .0032874 | 31.13740 | .1471442 | .1604956 | .1921158 | 290.5260 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 16.49034 | 34.47786 | .2179814 | -.020647 | .5404967 | .2820685 | .3041500 |
| Stddev | .09496 | .22882 | .0011329 | .000717 | .0106971 | .0104173 | .0031330 |
| %RSD | .5758528 | .6636850 | .5197343 | 3.473710 | 1.979115 | 3.693185 | 1.030083 |
| #1 | 16.38100 | 34.22555 | .2189977 | -.021423 | .5300301 | .2897182 | .3017381 |
| #2 | 16.53783 | 34.53607 | .2167599 | -.020509 | .5514102 | .2702042 | .3030209 |
| #3 | 16.55218 | 34.67196 | .2181868 | -.020009 | .5400500 | .2862830 | .3076911 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 7.651851 | 3.784781 | -.634306 | .0079886 | .5692978 | 4.183095 | .0188750 |
| Stddev | .178183 | .006122 | .003805 | .0007337 | .0017249 | .003298 | .0009211 |
| %RSD | 2.328626 | .1617635 | .5999113 | 9.184503 | .3029812 | .0788508 | 4.879884 |
| #1 | 7.464722 | 3.781724 | -.633338 | .0071436 | .5673084 | 4.186895 | .0197756 |
| #2 | 7.671348 | 3.780789 | -.631078 | .0084635 | .5702089 | 4.181423 | .0179347 |
| #3 | 7.819484 | 3.791830 | -.638502 | .0083588 | .5703761 | 4.180967 | .0189146 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5201-19 Acquired: 01/03/2025 17:32:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 1.296761 | -.175873 | .1124533 |
| Stddev | .012476 | .000507 | .0025738 |
| %RSD | .9621214 | .2884261 | 2.288820 |
| | | | |
| #1 | 1.290837 | -.175396 | .1100654 |
| #2 | 1.288350 | -.176406 | .1151796 |
| #3 | 1.311096 | -.175818 | .1121148 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2307.641 | 23259.80 | 2275.337 | 1713.373 | 1859.110 |
| Stddev | 6.715 | 79.36 | 5.403 | 11.660 | 5.612 |
| %RSD | .2910114 | .3411812 | .2374750 | .6805053 | .3018541 |
| | | | | | |
| #1 | 2300.880 | 23259.11 | 2272.048 | 1717.796 | 1853.934 |
| #2 | 2314.309 | 23339.50 | 2281.573 | 1722.175 | 1865.074 |
| #3 | 2307.733 | 23180.79 | 2272.389 | 1700.150 | 1858.320 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5201-20 Acquired: 01/03/2025 17:36:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7D Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1208771 | -.062018 | .3908096 | .1657343 | .0650118 | 114.3817 | .7810871 |
| Stddev | .0008349 | .004327 | .0013799 | .0083190 | .0034479 | .3427 | .0053496 |
| %RSD | .6906844 | 6.976758 | .3530872 | 5.019479 | 5.303547 | .2996528 | .6848963 |
| #1 | .1211368 | -.062697 | .3902498 | .1635630 | .0644996 | 114.5780 | .7821811 |
| #2 | .1199433 | -.057392 | .3897977 | .1749236 | .0618486 | 113.9859 | .7752751 |
| #3 | .1215513 | -.065966 | .3923815 | .1587162 | .0686872 | 114.5811 | .7858053 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0099948 | .0034761 | 31.09744 | .1463425 | .1605570 | .1853026 | 290.8678 |
| Stddev | .0001710 | .0000814 | .16397 | .0001792 | .0001585 | .0076931 | 1.0494 |
| %RSD | 1.710610 | 2.342465 | .5272848 | .1224594 | .0987266 | 4.151617 | .3607968 |
| #1 | .0098117 | .0035682 | 31.14604 | .1461357 | .1605339 | .1789570 | 291.7849 |
| #2 | .0100225 | .0034138 | 30.91466 | .1464387 | .1604113 | .1938590 | 289.7233 |
| #3 | .0101503 | .0034462 | 31.23162 | .1464531 | .1607258 | .1830918 | 291.0953 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 16.52937 | 34.36290 | .2206981 | -.020808 | .5316026 | .2747463 | .3094816 |
| Stddev | .02892 | .10741 | .0012749 | .000905 | .0071706 | .0159914 | .0009101 |
| %RSD | .1749528 | .3125842 | .5776524 | 4.350795 | 1.348856 | 5.820434 | .2940822 |
| #1 | 16.52614 | 34.33334 | .2219407 | -.020653 | .5388999 | .2875890 | .3084313 |
| #2 | 16.50220 | 34.27337 | .2193932 | -.021781 | .5313419 | .2798152 | .3100385 |
| #3 | 16.55977 | 34.48200 | .2207605 | -.019990 | .5245659 | .2568348 | .3099749 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 7.589540 | 3.788160 | -.633870 | .0078204 | .5729120 | 4.192512 | .0200753 |
| Stddev | .061733 | .012838 | .006873 | .0003005 | .0037041 | .022787 | .0018550 |
| %RSD | .8134011 | .3389036 | 1.084242 | 3.842878 | .6465366 | .5435262 | 9.240299 |
| #1 | 7.635185 | 3.799933 | -.635592 | .0076170 | .5724417 | 4.203589 | .0215636 |
| #2 | 7.614136 | 3.774472 | -.626300 | .0076787 | .5768288 | 4.166304 | .0206654 |
| #3 | 7.519300 | 3.790074 | -.639718 | .0081656 | .5694655 | 4.207643 | .0179971 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5201-20 Acquired: 01/03/2025 17:36:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7D Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 1.306015 | -.176882 | .1115108 |
| Stddev | .008463 | .000597 | .0006991 |
| %RSD | .6479722 | .3374153 | .6269209 |
| | | | |
| #1 | 1.315726 | -.177192 | .1115903 |
| #2 | 1.300219 | -.176194 | .1121667 |
| #3 | 1.302099 | -.177260 | .1107753 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2320.263 | 23455.19 | 2297.087 | 1730.857 | 1866.674 |
| Stddev | 6.900 | 96.13 | 18.450 | 9.880 | 4.515 |
| %RSD | .2973840 | .4098514 | .8031829 | .5707950 | .2419002 |
| | | | | | |
| #1 | 2324.827 | 23350.06 | 2279.236 | 1719.642 | 1864.622 |
| #2 | 2323.637 | 23538.60 | 2316.082 | 1738.274 | 1871.851 |
| #3 | 2312.325 | 23476.92 | 2295.942 | 1734.656 | 1863.549 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5201-19LX5 Acquired: 01/03/2025 17:40:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7L Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0276208 | -.017129 | .0756398 | .0368179 | .0180164 | 28.46327 | .1903659 |
| Stddev | .0054918 | .002256 | .0030476 | .0041167 | .0037118 | .27328 | .0025489 |
| %RSD | 19.88287 | 13.16762 | 4.029067 | 11.18125 | 20.60239 | .9601212 | 1.338941 |
| #1 | .0326793 | -.016779 | .0768481 | .0409984 | .0218151 | 28.60845 | .1932978 |
| #2 | .0284035 | -.019539 | .0778980 | .0366871 | .0178359 | 28.14803 | .1891225 |
| #3 | .0217796 | -.015069 | .0721734 | .0327682 | .0143981 | 28.63332 | .1886772 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0023357 | .0005002 | 7.664636 | .0365784 | .0337040 | .0484677 | 71.77631 |
| Stddev | .0001807 | .0000345 | .085438 | .0010314 | .0001757 | .0026556 | .22884 |
| %RSD | 7.734583 | 6.895267 | 1.114700 | 2.819732 | .5213960 | 5.479012 | .3188282 |
| #1 | .0025167 | .0005265 | 7.681218 | .0356866 | .0335022 | .0499152 | 71.93091 |
| #2 | .0023351 | .0004612 | 7.572123 | .0363407 | .0338232 | .0454029 | 71.51342 |
| #3 | .0021553 | .0005130 | 7.740567 | .0377079 | .0337866 | .0500850 | 71.88459 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.140622 | 8.579557 | .0435355 | -.006326 | .1014505 | .0538848 | .0777686 |
| Stddev | .022460 | .110389 | .0006449 | .001311 | .0175884 | .0048683 | .0008890 |
| %RSD | .5424360 | 1.286655 | 1.481228 | 20.72746 | 17.33692 | 9.034619 | 1.143081 |
| #1 | 4.150748 | 8.608491 | .0438249 | -.005984 | .1217558 | .0533530 | .0778512 |
| #2 | 4.114882 | 8.457582 | .0439848 | -.005219 | .0909460 | .0589971 | .0786133 |
| #3 | 4.156237 | 8.672598 | .0427966 | -.007774 | .0916497 | .0493042 | .0768412 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.975687 | .7523062 | -.162663 | .0013784 | .0996046 | 1.165037 | -.007884 |
| Stddev | .227334 | .0002607 | .002131 | .0008277 | .0024032 | .005615 | .001047 |
| %RSD | 11.50657 | .0346485 | 1.310175 | 60.04857 | 2.412748 | .4819990 | 13.27664 |
| #1 | 2.236218 | .7520052 | -.164559 | .0008468 | .0995330 | 1.168161 | -.007218 |
| #2 | 1.817615 | .7524619 | -.160356 | .0023321 | .1020427 | 1.168395 | -.007343 |
| #3 | 1.873227 | .7524513 | -.163073 | .0009564 | .0972379 | 1.158554 | -.009090 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5201-19LX5 Acquired: 01/03/2025 17:40:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7L Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .3160931 | -.043257 | .0217884 |
| Stddev | .0012621 | .000213 | .0019937 |
| %RSD | .3992699 | .4926645 | 9.150475 |
| | | | |
| #1 | .3148543 | -.043145 | .0235096 |
| #2 | .3160477 | -.043502 | .0196037 |
| #3 | .3173772 | -.043122 | .0222518 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1927.246 | 19516.94 | 1897.446 | 1448.091 | 1963.482 |
| Stddev | 5.435 | 94.15 | 12.423 | 11.924 | 4.198 |
| %RSD | .2819929 | .4823801 | .6547325 | .8234501 | .2137945 |
| | | | | | |
| #1 | 1928.333 | 19415.39 | 1883.760 | 1440.412 | 1963.150 |
| #2 | 1921.351 | 19534.11 | 1900.566 | 1442.032 | 1959.460 |
| #3 | 1932.056 | 19601.32 | 1908.011 | 1461.828 | 1967.836 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5201-21 Acquired: 01/03/2025 17:44:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7S Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1969138 | .0188452 | .4224732 | .2992461 | .1996946 | 115.8158 | 3.998103 |
| Stddev | .0058186 | .0013014 | .0045563 | .0036156 | .0027977 | .4123 | .013075 |
| %RSD | 2.954876 | 6.905690 | 1.078478 | 1.208232 | 1.400973 | .3560035 | .3270393 |
| #1 | .1926352 | .0202960 | .4268445 | .3032903 | .1966601 | 115.3695 | 3.986084 |
| #2 | .1945668 | .0184589 | .4228229 | .2963264 | .2002521 | 116.1825 | 3.996200 |
| #3 | .2035393 | .0177806 | .4177521 | .2981216 | .2021715 | 115.8955 | 4.012026 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0895171 | .1044556 | 31.05000 | .4804763 | 1.187754 | .5767274 | 288.6292 |
| Stddev | .0008273 | .0003967 | .16891 | .0008634 | .003223 | .0085001 | .3536 |
| %RSD | .9241928 | .3798122 | .5439870 | .1796880 | .2713490 | 1.473844 | .1224962 |
| #1 | .0896929 | .1042543 | 30.93382 | .4810863 | 1.186893 | .5745499 | 288.2260 |
| #2 | .0886160 | .1042000 | 30.97242 | .4794884 | 1.185049 | .5695280 | 288.7753 |
| #3 | .0902424 | .1049127 | 31.24376 | .4808541 | 1.191320 | .5861045 | 288.8863 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 17.15099 | 34.01670 | 1.260434 | .0386233 | .5438225 | 1.080648 | 1.010942 |
| Stddev | .04512 | .19821 | .004735 | .0015127 | .0097835 | .005007 | .007457 |
| %RSD | .2630689 | .5826949 | .3756729 | 3.916451 | 1.799023 | .4632904 | .7376387 |
| #1 | 17.10620 | 34.01572 | 1.259976 | .0402387 | .5507661 | 1.075837 | 1.002959 |
| #2 | 17.15036 | 34.21540 | 1.255945 | .0372404 | .5326334 | 1.080276 | 1.012139 |
| #3 | 17.19643 | 33.81898 | 1.265381 | .0383907 | .5480681 | 1.085830 | 1.017728 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 7.704983 | 3.754993 | -.632836 | .0080697 | .5739057 | 4.206028 | .0195837 |
| Stddev | .333029 | .013496 | .010383 | .0011826 | .0074109 | .032160 | .0029829 |
| %RSD | 4.322261 | .3594197 | 1.640726 | 14.65425 | 1.291304 | .7646074 | 15.23155 |
| #1 | 7.526063 | 3.753726 | -.633803 | .0086450 | .5803133 | 4.199615 | .0229285 |
| #2 | 7.499657 | 3.742175 | -.622003 | .0067096 | .5657899 | 4.177559 | .0186234 |
| #3 | 8.089230 | 3.769078 | -.642701 | .0088546 | .5756139 | 4.240911 | .0171993 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5201-21 Acquired: 01/03/2025 17:44:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNE7S Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 1.293123 | -.175624 | .1138949 |
| Stddev | .000849 | .000231 | .0012596 |
| %RSD | .0656759 | .1316664 | 1.105902 |
| | | | |
| #1 | 1.292190 | -.175658 | .1152637 |
| #2 | 1.293851 | -.175378 | .1127846 |
| #3 | 1.293329 | -.175837 | .1136364 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2311.120 | 23574.70 | 2302.330 | 1743.715 | 1866.886 |
| Stddev | 4.423 | 77.92 | 9.013 | 10.403 | 4.272 |
| %RSD | .1913866 | .3305026 | .3914670 | .5966156 | .2288143 |
| | | | | | |
| #1 | 2315.506 | 23558.67 | 2304.039 | 1753.262 | 1866.872 |
| #2 | 2311.194 | 23506.06 | 2310.365 | 1732.627 | 1871.165 |
| #3 | 2306.661 | 23659.39 | 2292.584 | 1745.255 | 1862.621 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5212-05 Acquired: 01/03/2025 17:48:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1247732 | -.005326 | 1.853927 | .0664241 | .0319680 | 64.92132 |
| Stddev | .0066588 | .003448 | .005158 | .0027478 | .0032692 | .21883 |
| %RSD | 5.336728 | 64.74048 | .2782046 | 4.136690 | 10.22649 | .3370678 |
| #1 | .1323301 | -.008260 | 1.859782 | .0649325 | .0284468 | 65.17290 |
| #2 | .1222235 | -.006190 | 1.851945 | .0647447 | .0325501 | 64.81598 |
| #3 | .1197660 | -.001528 | 1.850055 | .0695951 | .0349070 | 64.77509 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.868325 | .0058107 | .0056896 | 289.3910 | .1628481 | .1346455 |
| Stddev | .006353 | .0000914 | .0000798 | .6648 | .0015802 | .0006874 |
| %RSD | .3400493 | 1.573266 | 1.403154 | .2297118 | .9703227 | .5105379 |
| #1 | 1.875586 | .0058739 | .0057596 | 290.1064 | .1637151 | .1353778 |
| #2 | 1.865602 | .0058522 | .0056026 | 289.2742 | .1610243 | .1340141 |
| #3 | 1.863788 | .0057059 | .0057065 | 288.7924 | .1638050 | .1345446 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4042896 | 164.5024 | 13.55404 | 41.23241 | .1585661 | -.007475 |
| Stddev | .0039670 | .6718 | .02701 | .17963 | .0008111 | .000808 |
| %RSD | .9812225 | .4084119 | .1992449 | .4356543 | .5115216 | 10.80485 |
| #1 | .3998044 | 165.2408 | 13.58402 | 41.43913 | .1576654 | -.008285 |
| #2 | .4057261 | 163.9270 | 13.54649 | 41.11432 | .1592388 | -.006670 |
| #3 | .4073382 | 164.3395 | 13.53162 | 41.14377 | .1587940 | -.007470 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6959385 | .1770379 | 1.100185 | 7.607690 | F 14.65541 | -.321687 |
| Stddev | .0204865 | .0108613 | .001797 | .149700 | .01888 | .002759 |
| %RSD | 2.943722 | 6.135024 | .1633521 | 1.967746 | .1288288 | .8575687 |
| #1 | .7195280 | .1725335 | 1.098374 | 7.445487 | 14.67256 | -.324501 |
| #2 | .6826116 | .1894267 | 1.100213 | 7.740539 | 14.65848 | -.321574 |
| #3 | .6856758 | .1691535 | 1.101968 | 7.637044 | 14.63518 | -.318987 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5212-05 Acquired: 01/03/2025 17:48:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0131961 | 3.136351 | 10.88113 | .0822546 | .7415821 | .2031343 |
| Stddev | .0008335 | .011455 | .07622 | .0015469 | .0028801 | .0011818 |
| %RSD | 6.316345 | .3652333 | .7004962 | 1.880612 | .3883780 | .5817742 |
| #1 | .0122587 | 3.133911 | 10.96870 | .0821081 | .7446968 | .2035345 |
| #2 | .0134760 | 3.148830 | 10.82967 | .0807862 | .7410345 | .2040641 |
| #3 | .0138536 | 3.126313 | 10.84503 | .0838696 | .7390151 | .2018044 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0970067 |
| Stddev | .0042689 |
| %RSD | 4.400631 |
| #1 | .1019338 |
| #2 | .0946689 |
| #3 | .0944173 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2210.815 | 22547.47 | 2229.836 | 1661.960 | 1859.645 |
| Stddev | 1.497 | 79.43 | 14.771 | 4.432 | 2.442 |
| %RSD | .0677009 | .3522898 | .6624452 | .2666793 | .1313262 |
| #1 | 2209.164 | 22526.21 | 2213.039 | 1662.752 | 1862.194 |
| #2 | 2212.084 | 22635.37 | 2240.801 | 1665.942 | 1857.326 |
| #3 | 2211.196 | 22480.83 | 2235.668 | 1657.185 | 1859.416 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5212-06 Acquired: 01/03/2025 17:51:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3D Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1298440 | -.001457 | 1.843290 | .0628317 | .0364020 | 64.56243 |
| Stddev | .0049436 | .002793 | .003403 | .0054762 | .0029869 | .44861 |
| %RSD | 3.807326 | 191.7144 | .1846090 | 8.715677 | 8.205425 | .6948510 |
| #1 | .1253831 | -.000602 | 1.842742 | .0690457 | .0330943 | 64.10778 |
| #2 | .1351590 | .000809 | 1.846934 | .0587106 | .0372095 | 65.00475 |
| #3 | .1289898 | -.004577 | 1.840195 | .0607386 | .0389022 | 64.57475 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.857570 | .0058105 | .0056219 | 287.8911 | .1618723 | .1338023 |
| Stddev | .001834 | .0001278 | .0000385 | .7335 | .0003103 | .0015984 |
| %RSD | .0987180 | 2.199289 | .6849550 | .2547985 | .1916785 | 1.194608 |
| #1 | 1.856265 | .0059390 | .0055855 | 287.0863 | .1619645 | .1344136 |
| #2 | 1.856778 | .0056834 | .0056178 | 288.5222 | .1621259 | .1319884 |
| #3 | 1.859666 | .0058090 | .0056622 | 288.0647 | .1615263 | .1350048 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3934045 | 163.5655 | 13.50355 | 40.65194 | .1565765 | -.007660 |
| Stddev | .0065264 | .6219 | .05582 | .23356 | .0013790 | .000764 |
| %RSD | 1.658951 | .3801942 | .4133474 | .5745419 | .8807050 | 9.976055 |
| #1 | .3979907 | 162.8750 | 13.44021 | 40.74141 | .1579244 | -.007284 |
| #2 | .3962901 | 164.0815 | 13.54554 | 40.38686 | .1551684 | -.008539 |
| #3 | .3859327 | 163.7400 | 13.52490 | 40.82753 | .1566367 | -.007157 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6772811 | .1699516 | 1.094857 | 7.341839 | F 14.49295 | -.323271 |
| Stddev | .0115284 | .0117945 | .004085 | .170886 | .00830 | .001689 |
| %RSD | 1.702158 | 6.939895 | .3730751 | 2.327560 | .0572409 | .5225196 |
| #1 | .6668129 | .1821367 | 1.098401 | 7.259140 | 14.50039 | -.325211 |
| #2 | .6753936 | .1585910 | 1.095779 | 7.538342 | 14.48401 | -.322474 |
| #3 | .6896367 | .1691271 | 1.090389 | 7.228035 | 14.49446 | -.322128 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5212-06 Acquired: 01/03/2025 17:51:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3D Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0127238 | 3.098609 | 10.84627 | .0824215 | .7385454 | .2038408 |
| Stddev | .0004276 | .004924 | .02867 | .0015285 | .0072994 | .0006205 |
| %RSD | 3.360301 | .1589109 | .2643172 | 1.854482 | .9883472 | .3043785 |
| | | | | | | |
| #1 | .0122451 | 3.093560 | 10.86901 | .0813559 | .7301356 | .2031255 |
| #2 | .0130677 | 3.103397 | 10.85574 | .0841728 | .7422630 | .2042334 |
| #3 | .0128587 | 3.098869 | 10.81407 | .0817358 | .7432376 | .2041635 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0955069 |
| Stddev | .0026574 |
| %RSD | 2.782383 |
| | |
| #1 | .0927233 |
| #2 | .0980169 |
| #3 | .0957806 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2202.545 | 22586.37 | 2236.420 | 1662.960 | 1863.261 |
| Stddev | 5.110 | 76.07 | 5.027 | 5.587 | 3.923 |
| %RSD | .2320261 | .3367855 | .2247873 | .3359895 | .2105234 |
| | | | | | |
| #1 | 2207.003 | 22647.01 | 2235.988 | 1666.375 | 1863.992 |
| #2 | 2196.968 | 22501.02 | 2231.623 | 1656.512 | 1859.025 |
| #3 | 2203.663 | 22611.09 | 2241.649 | 1665.992 | 1866.767 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5212-05LX5 Acquired: 01/03/2025 17:55:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3L Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0199139 | .0074201 | .3734713 | .0076933 | .0071001 | 15.76017 | .4367206 |
| Stddev | .0009647 | .0015885 | .0031123 | .0061015 | .0019390 | .03783 | .0009311 |
| %RSD | 4.844264 | 21.40825 | .8333337 | 79.30902 | 27.30975 | .2400222 | .2131990 |
| #1 | .0188008 | .0082852 | .3757452 | .0138045 | .0062928 | 15.72950 | .4357949 |
| #2 | .0204333 | .0083883 | .3699244 | .0076739 | .0056952 | 15.74856 | .4376570 |
| #3 | .0205075 | .0055868 | .3747445 | .0016016 | .0093123 | 15.80244 | .4367098 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0013808 | .0009903 | 68.82187 | .0383564 | .0433377 | .0855645 | 39.45007 |
| Stddev | .0002184 | .0000302 | .26126 | .0004333 | .0002191 | .0124807 | .15940 |
| %RSD | 15.81831 | 3.050806 | .3796184 | 1.129632 | .5055980 | 14.58628 | .4040488 |
| #1 | .0014676 | .0010125 | 68.99965 | .0383612 | .0435872 | .0990776 | 39.62863 |
| #2 | .0011323 | .0009558 | 68.52190 | .0387873 | .0431766 | .0831452 | 39.32212 |
| #3 | .0015425 | .0010024 | 68.94405 | .0379208 | .0432493 | .0744705 | 39.39947 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.286783 | 9.957810 | .0269186 | -.001276 | .1462345 | .0339806 | .2655798 |
| Stddev | .010239 | .169449 | .0005384 | .001052 | .0277103 | .0093493 | .0026343 |
| %RSD | .3115195 | 1.701670 | 1.999999 | 82.46472 | 18.94922 | 27.51375 | .9919081 |
| #1 | 3.296756 | 10.13988 | .0269712 | -.000215 | .1152900 | .0379053 | .2634954 |
| #2 | 3.287295 | 9.92884 | .0274288 | -.002320 | .1546579 | .0407280 | .2685406 |
| #3 | 3.276298 | 9.80471 | .0263559 | -.001293 | .1687558 | .0233087 | .2647034 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.947168 | 2.846730 | -.082757 | .0071901 | .5985249 | 2.633463 | .0057886 |
| Stddev | .199506 | .010465 | .001306 | .0004762 | .0031889 | .006422 | .0015664 |
| %RSD | 10.24597 | .3675986 | 1.578504 | 6.622863 | .5327864 | .2438658 | 27.05928 |
| #1 | 2.176341 | 2.840601 | -.083067 | .0077386 | .6022070 | 2.637232 | .0065765 |
| #2 | 1.812271 | 2.840775 | -.083880 | .0069500 | .5967067 | 2.626048 | .0039847 |
| #3 | 1.852891 | 2.858813 | -.081323 | .0068818 | .5966610 | 2.637109 | .0068046 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5212-05LX5 Acquired: 01/03/2025 17:55:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3L Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .1681173 | .0475637 | .0146530 |
| Stddev | .0048807 | .0001074 | .0043948 |
| %RSD | 2.903173 | .2257274 | 29.99280 |
| | | | |
| #1 | .1687917 | .0475836 | .0180641 |
| #2 | .1629344 | .0476598 | .0162012 |
| #3 | .1726257 | .0474478 | .0096935 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1888.895 | 19197.76 | 1865.590 | 1409.629 | 1948.747 |
| Stddev | 1.601 | 64.29 | 4.375 | 10.015 | 1.715 |
| %RSD | .0847775 | .3348668 | .2344911 | .7104399 | .0879811 |
| | | | | | |
| #1 | 1888.232 | 19197.72 | 1860.539 | 1411.971 | 1949.337 |
| #2 | 1890.721 | 19133.49 | 1868.051 | 1398.651 | 1950.089 |
| #3 | 1887.732 | 19262.06 | 1868.180 | 1418.265 | 1946.816 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV103 Acquired: 01/03/2025 17:59:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV103 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.887965 | 4.870437 | 24.67143 | 4.877354 | 4.906258 | 402.2004 |
| Stddev | .007008 | .009030 | .04506 | .017560 | .015427 | 3.3642 |
| %RSD | .1433795 | .1853950 | .1826234 | .3600269 | .3144265 | .8364363 |
| | | | | | | |
| #1 | 4.894452 | 4.880850 | 24.66080 | 4.857485 | 4.892926 | 404.2082 |
| #2 | 4.880532 | 4.865702 | 24.63265 | 4.883790 | 4.902694 | 398.3166 |
| #3 | 4.888910 | 4.864761 | 24.72085 | 4.890788 | 4.923155 | 404.0764 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 10.14044 | .5148720 | 2.475023 | 405.2222 | 15.44588 | 2.512421 |
| Stddev | .03466 | .0026470 | .002744 | 1.8625 | .01286 | .003001 |
| %RSD | .3418484 | .5141134 | .1108478 | .4596365 | .0832269 | .1194652 |
| | | | | | | |
| #1 | 10.17265 | .5155599 | 2.473246 | 407.3470 | 15.45560 | 2.511824 |
| #2 | 10.14492 | .5171072 | 2.473640 | 403.8715 | 15.43130 | 2.509762 |
| #3 | 10.10376 | .5119489 | 2.478182 | 404.4482 | 15.45074 | 2.515675 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 15.25920 | 405.3560 | 15.15921 | 406.2900 | 2.507345 | 1.245691 |
| Stddev | .05539 | 2.7756 | .10949 | 2.4384 | .002595 | .002627 |
| %RSD | .3629709 | .6847198 | .7222982 | .6001533 | .1035024 | .2108912 |
| | | | | | | |
| #1 | 15.32281 | 406.9677 | 15.19183 | 408.3153 | 2.506760 | 1.248713 |
| #2 | 15.22165 | 402.1510 | 15.03711 | 403.5835 | 2.505092 | 1.243948 |
| #3 | 15.23314 | 406.9491 | 15.24869 | 406.9713 | 2.510183 | 1.244413 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 416.2829 | 2.530663 | 14.65352 | 154.3237 | 4.982117 | F 4.464340 |
| Stddev | 1.3960 | .035493 | .04291 | .8929 | .010924 | .021133 |
| %RSD | .3353530 | 1.402516 | .2928331 | .5786000 | .2192550 | .4733834 |
| | | | | | | |
| #1 | 417.8107 | 2.551722 | 14.69546 | 155.2568 | 4.989697 | 4.473963 |
| #2 | 415.9643 | 2.489684 | 14.65539 | 153.4773 | 4.969596 | 4.478950 |
| #3 | 415.0738 | 2.550582 | 14.60970 | 154.2369 | 4.987058 | 4.440108 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV103 Acquired: 01/03/2025 17:59:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV103 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.885210 | 4.916386 | 5.045221 | 4.984769 | 5.045768 | 4.799414 |
| Stddev | .008810 | .004949 | .027485 | .002637 | .052343 | .027841 |
| %RSD | .1803370 | .1006548 | .5447777 | .0528969 | 1.037361 | .5800898 |
| | | | | | | |
| #1 | 4.876636 | 4.921778 | 5.053275 | 4.984937 | 5.089684 | 4.815373 |
| #2 | 4.884756 | 4.915329 | 5.067779 | 4.982052 | 4.987847 | 4.767266 |
| #3 | 4.894238 | 4.912052 | 5.014608 | 4.987318 | 5.059772 | 4.815603 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | 5.003343 |
| Stddev | .011527 |
| %RSD | .2303909 |
| | |
| #1 | 5.014514 |
| #2 | 4.991490 |
| #3 | 5.004024 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1502.785 | 16481.58 | 1668.904 | 1123.302 | 1619.151 |
| Stddev | 2.736 | 76.60 | 4.191 | 2.328 | 1.631 |
| %RSD | .1820861 | .4647513 | .2510988 | .2072624 | .1007306 |
| | | | | | |
| #1 | 1505.943 | 16456.86 | 1665.284 | 1120.881 | 1621.026 |
| #2 | 1501.116 | 16567.48 | 1667.933 | 1125.524 | 1618.365 |
| #3 | 1501.296 | 16420.39 | 1673.495 | 1123.502 | 1618.062 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB103 Acquired: 01/03/2025 18:03:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB103 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.001446 | .0008454 | -.000859 | -.000454 | .0003634 | .0675623 | -.001813 |
| Stddev | .003607 | .0009536 | .002473 | .000880 | .0034178 | .0121984 | .000903 |
| %RSD | 249.4557 | 112.8046 | 287.8483 | 193.7253 | 940.6517 | 18.05509 | 49.81611 |
| #1 | -.002804 | .0002848 | -.000413 | -.001424 | -.002836 | .0792494 | -.001951 |
| #2 | .002643 | .0003049 | .001361 | .000294 | -.000038 | .0549099 | -.000848 |
| #3 | -.004177 | .0019465 | -.003525 | -.000233 | .003964 | .0685276 | -.002639 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0001278 | .0000637 | -.062057 | -.000103 | -.000230 | -.009377 | .0166474 |
| Stddev | .0000595 | .0000631 | .028278 | .000724 | .000152 | .004040 | .0123487 |
| %RSD | 46.58302 | 99.10036 | 45.56840 | 700.8308 | 66.12122 | 43.07809 | 74.17783 |
| #1 | .0001964 | .0000454 | -.073143 | .000655 | -.000302 | -.012324 | .0140170 |
| #2 | .0000978 | .0001338 | -.029915 | -.000178 | -.000055 | -.004773 | .0300994 |
| #3 | .0000893 | .0000117 | -.083113 | -.000787 | -.000332 | -.011035 | .0058259 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0038553 | -.049318 | -.000790 | .0016674 | .1269946 | -.003371 | -.000049 |
| Stddev | .0027600 | .104220 | .000500 | .0003930 | .0134583 | .016288 | .000230 |
| %RSD | 71.59079 | 211.3214 | 63.23398 | 23.57320 | 10.59757 | 483.1333 | 466.2245 |
| #1 | .0012869 | -.118232 | -.000385 | .0016962 | .1414427 | .001515 | .000206 |
| #2 | .0067736 | -.100300 | -.000637 | .0020452 | .1247270 | .009914 | -.000239 |
| #3 | .0035053 | .070578 | -.001348 | .0012607 | .1148142 | -.021543 | -.000114 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2315351 | -.000483 | .0081695 | .0000915 | -.014449 | -.001291 | .0009656 |
| Stddev | .0351435 | .001758 | .0015957 | .0005800 | .000359 | .000445 | .0005381 |
| %RSD | 15.17848 | 364.2962 | 19.53204 | 633.9658 | 2.481560 | 34.42866 | 55.72660 |
| #1 | .1910956 | .000948 | .0078242 | -.000570 | -.014138 | -.001774 | .0007088 |
| #2 | .2488306 | -.002445 | .0067747 | .000334 | -.014369 | -.000900 | .0006040 |
| #3 | .2546791 | .000049 | .0099095 | .000511 | -.014841 | -.001200 | .0015840 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB103 Acquired: 01/03/2025 18:03:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB103 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.004402 | -.000220 | .0098201 |
| Stddev | .005031 | .000132 | .0031938 |
| %RSD | 114.2907 | 59.83869 | 32.52352 |
| | | | |
| #1 | -.003551 | -.000353 | .0068889 |
| #2 | -.009805 | -.000217 | .0132239 |
| #3 | .000149 | -.000090 | .0093474 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1823.571 | 18527.59 | 1799.227 | 1367.276 | 2020.906 |
| Stddev | 5.642 | 61.80 | 9.639 | 12.378 | 6.798 |
| %RSD | .3093708 | .3335774 | .5357331 | .9052921 | .3363893 |
| | | | | | |
| #1 | 1818.581 | 18457.78 | 1803.978 | 1359.057 | 2013.350 |
| #2 | 1822.440 | 18549.70 | 1805.569 | 1381.512 | 2022.842 |
| #3 | 1829.693 | 18575.31 | 1788.135 | 1361.258 | 2026.526 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5212-07 Acquired: 01/03/2025 18:07:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3S Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2063269 | .0812376 | 1.865619 | .2132975 | .1838416 | 67.99960 |
| Stddev | .0069181 | .0036812 | .006639 | .0035038 | .0028019 | .44592 |
| %RSD | 3.352986 | 4.531416 | .3558770 | 1.642690 | 1.524076 | .6557744 |
| #1 | .2141657 | .0775125 | 1.861624 | .2173241 | .1835257 | 67.59268 |
| #2 | .2010752 | .0848733 | 1.861950 | .2116259 | .1867881 | 67.92981 |
| #3 | .2037398 | .0813269 | 1.873283 | .2109426 | .1812111 | 68.47630 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.174954 | .0910545 | .1052172 | 285.3221 | .5161133 | 1.148694 |
| Stddev | .024523 | .0011042 | .0003832 | 1.2673 | .0012934 | .002720 |
| %RSD | .4738751 | 1.212687 | .3641635 | .4441714 | .2506061 | .2367634 |
| #1 | 5.164433 | .0897887 | .1054106 | 284.6169 | .5151279 | 1.148749 |
| #2 | 5.157447 | .0915544 | .1047759 | 284.5642 | .5175779 | 1.145948 |
| #3 | 5.202982 | .0918202 | .1054652 | 286.7851 | .5156339 | 1.151386 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7951115 | 165.4979 | 14.33721 | 40.79579 | 1.184141 | .0544659 |
| Stddev | .0048383 | 1.2320 | .09329 | .15728 | .002405 | .0010450 |
| %RSD | .6085033 | .7444493 | .6506945 | .3855332 | .2030637 | 1.918587 |
| #1 | .7899327 | 164.7719 | 14.28283 | 40.61959 | 1.181723 | .0532723 |
| #2 | .7958859 | 164.8014 | 14.28387 | 40.84578 | 1.184168 | .0552161 |
| #3 | .7995158 | 166.9205 | 14.44493 | 40.92200 | 1.186532 | .0549092 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7559133 | 1.046595 | 1.864239 | 7.439420 | F 14.35527 | -.312293 |
| Stddev | .0224179 | .009950 | .009017 | .307988 | .02836 | .001586 |
| %RSD | 2.965675 | .9507383 | .4837084 | 4.139948 | .1975599 | .5077006 |
| #1 | .7300375 | 1.057237 | 1.872803 | 7.107415 | 14.34784 | -.312910 |
| #2 | .7694795 | 1.045025 | 1.854828 | 7.495032 | 14.33137 | -.310491 |
| #3 | .7682229 | 1.037523 | 1.865087 | 7.715813 | 14.38661 | -.313477 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5212-07 Acquired: 01/03/2025 18:07:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHNF3S Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0139439 | 3.055429 | 10.85094 | .0796958 | .7336099 | .2001869 |
| Stddev | .0003404 | .014100 | .08733 | .0019668 | .0048070 | .0015273 |
| %RSD | 2.440905 | .4614836 | .8048559 | 2.467842 | .6552590 | .7629518 |
| | | | | | | |
| #1 | .0135746 | 3.048008 | 10.76171 | .0802889 | .7280681 | .1990714 |
| #2 | .0142450 | 3.046589 | 10.85488 | .0775008 | .7366535 | .1995617 |
| #3 | .0140120 | 3.071690 | 10.93624 | .0812978 | .7361080 | .2019276 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0954263 |
| Stddev | .0013596 |
| %RSD | 1.424711 |
| | |
| #1 | .0955198 |
| #2 | .0940224 |
| #3 | .0967366 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2175.797 | 22212.45 | 2185.727 | 1624.886 | 1845.532 |
| Stddev | 4.545 | 49.54 | 15.666 | 8.552 | 6.438 |
| %RSD | .2089001 | .2230262 | .7167280 | .5263127 | .3488347 |
| | | | | | |
| #1 | 2180.882 | 22178.18 | 2201.407 | 1615.022 | 1852.022 |
| #2 | 2174.384 | 22189.91 | 2185.699 | 1630.218 | 1845.427 |
| #3 | 2172.127 | 22269.25 | 2170.075 | 1629.419 | 1839.148 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-05 Acquired: 01/03/2025 18:11:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA0S Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2741325 | .0647952 | 4.135668 | .2396316 | .2367651 | 55.30143 |
| Stddev | .0013884 | .0008954 | .008249 | .0072288 | .0014001 | .17704 |
| %RSD | .5064821 | 1.381827 | .1994554 | 3.016628 | .5913555 | .3201293 |
| #1 | .2742400 | .0641245 | 4.136176 | .2332721 | .2351515 | 55.21184 |
| #2 | .2754641 | .0658119 | 4.127176 | .2381293 | .2374838 | 55.50535 |
| #3 | .2726935 | .0644491 | 4.143650 | .2474935 | .2376599 | 55.18709 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.159022 | .1021612 | .1079308 | 173.6868 | .5701772 | 1.112070 |
| Stddev | .042436 | .0011560 | .0001279 | 1.0577 | .0006276 | .001227 |
| %RSD | .8225614 | 1.131574 | .1184729 | .6089923 | .1100618 | .1103467 |
| #1 | 5.143800 | .1017330 | .1078376 | 173.6816 | .5698826 | 1.111333 |
| #2 | 5.206970 | .1034703 | .1078782 | 174.7472 | .5697512 | 1.111391 |
| #3 | 5.126297 | .1012805 | .1080766 | 172.6317 | .5708979 | 1.113487 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.014883 | 186.4616 | 6.962534 | 42.79954 | 1.231598 | .0580572 |
| Stddev | .002711 | .9301 | .028065 | .12305 | .001322 | .0011181 |
| %RSD | .2670764 | .4988114 | .4030878 | .2875047 | .1073061 | 1.925807 |
| #1 | 1.015529 | 185.6052 | 6.939194 | 42.66160 | 1.231080 | .0589459 |
| #2 | 1.017212 | 187.4511 | 6.993674 | 42.89804 | 1.230613 | .0584239 |
| #3 | 1.011908 | 186.3287 | 6.954736 | 42.83897 | 1.233100 | .0568019 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .9743547 | 1.158046 | 4.136587 | 6.110857 | F 14.11286 | -.354110 |
| Stddev | .0042047 | .019298 | .012252 | .275498 | .03237 | .007988 |
| %RSD | .4315378 | 1.666469 | .2961801 | 4.508344 | .2293466 | 2.255873 |
| #1 | .9748299 | 1.142219 | 4.132382 | 5.835987 | 14.10548 | -.355525 |
| #2 | .9783016 | 1.179545 | 4.150388 | 6.386980 | 14.08482 | -.361296 |
| #3 | .9699326 | 1.152372 | 4.126992 | 6.109605 | 14.14828 | -.345509 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-05 Acquired: 01/03/2025 18:11:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA0S Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0146442 | 4.325863 | 4.933528 | .3766295 | 1.029449 | .2454840 |
| Stddev | .0006345 | .019653 | .047236 | .0019414 | .010033 | .0009792 |
| %RSD | 4.332853 | .4543132 | .9574451 | .5154556 | .9746429 | .3988972 |
| | | | | | | |
| #1 | .0152916 | 4.318979 | 4.935217 | .3768263 | 1.026696 | .2453231 |
| #2 | .0140235 | 4.310578 | 4.979897 | .3745972 | 1.040571 | .2465336 |
| #3 | .0146176 | 4.348032 | 4.885471 | .3784650 | 1.021078 | .2445951 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0737289 |
| Stddev | .0012278 |
| %RSD | 1.665300 |
| | |
| #1 | .0724434 |
| #2 | .0738536 |
| #3 | .0748895 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2001.832 | 20272.86 | 2019.389 | 1495.243 | 1921.699 |
| Stddev | 3.736 | 36.28 | 17.504 | 1.952 | 2.655 |
| %RSD | .1866370 | .1789426 | .8667852 | .1305267 | .1381820 |
| | | | | | |
| #1 | 2000.547 | 20231.17 | 2014.189 | 1495.959 | 1919.570 |
| #2 | 2006.041 | 20297.18 | 2005.075 | 1493.035 | 1924.675 |
| #3 | 1998.908 | 20290.24 | 2038.904 | 1496.736 | 1920.852 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5054-03A Acquired: 01/03/2025 18:14:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR2A Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2177228 | .0299646 | 3.392294 | .0595126 | .0324916 | 100.3359 | 1.317195 |
| Stddev | .0050855 | .0033662 | .007515 | .0028134 | .0017914 | .2201 | .005128 |
| %RSD | 2.335775 | 11.23393 | .2215190 | 4.727419 | 5.513490 | .2193481 | .3892742 |
| #1 | .2154059 | .0332437 | 3.383893 | .0604121 | .0311226 | 100.5615 | 1.319366 |
| #2 | .2142082 | .0265176 | 3.394615 | .0617662 | .0345191 | 100.1217 | 1.311339 |
| #3 | .2235542 | .0301326 | 3.398375 | .0563594 | .0318331 | 100.3245 | 1.320880 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0112895 | .0073290 | 189.9613 | .1536307 | .1933819 | 1.094963 | 158.6513 |
| Stddev | .0001330 | .0001092 | 1.0191 | .0021895 | .0007283 | .010659 | .6441 |
| %RSD | 1.177945 | 1.489754 | .5364703 | 1.425158 | .3765948 | .9734975 | .4059870 |
| #1 | .0114431 | .0073629 | 190.4522 | .1533686 | .1925665 | 1.083926 | 159.1058 |
| #2 | .0112149 | .0072069 | 188.7896 | .1559395 | .1936114 | 1.095765 | 157.9142 |
| #3 | .0112106 | .0074172 | 190.6420 | .1515841 | .1939677 | 1.105200 | 158.9339 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.898464 | 39.02711 | .3121130 | -.011513 | 1.705502 | .2774670 | 4.298006 |
| Stddev | .033955 | .11361 | .0004683 | .001008 | .027653 | .0040814 | .010459 |
| %RSD | .5756548 | .2910946 | .1500508 | 8.752934 | 1.621375 | 1.470954 | .2433415 |
| #1 | 5.931928 | 38.97182 | .3116423 | -.011350 | 1.733403 | .2798269 | 4.298398 |
| #2 | 5.864039 | 39.15778 | .3121179 | -.012593 | 1.705000 | .2727542 | 4.308263 |
| #3 | 5.899423 | 38.95174 | .3125789 | -.010597 | 1.678104 | .2798198 | 4.287356 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 12.52994 | 8.217419 | -.275074 | .0260986 | 3.991534 | 12.25693 | .0565741 |
| Stddev | .14847 | .014025 | .000913 | .0003203 | .011746 | .07291 | .0011227 |
| %RSD | 1.184932 | .1706726 | .3317502 | 1.227063 | .2942852 | .5948487 | 1.984538 |
| #1 | 12.48280 | 8.206861 | -.274514 | .0257802 | 3.993311 | 12.33934 | .0555550 |
| #2 | 12.41077 | 8.212064 | -.276127 | .0264207 | 3.979000 | 12.23067 | .0577776 |
| #3 | 12.69627 | 8.233333 | -.274581 | .0260948 | 4.002291 | 12.20079 | .0563897 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5054-03A Acquired: 01/03/2025 18:14:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR2A Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .8703629 | .3557669 | .2409880 |
| Stddev | .0091030 | .0007112 | .0035113 |
| %RSD | 1.045890 | .1999088 | 1.457058 |
| | | | |
| #1 | .8785703 | .3554292 | .2385457 |
| #2 | .8719464 | .3552875 | .2394064 |
| #3 | .8605720 | .3565841 | .2450120 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2074.910 | 21016.47 | 2081.771 | 1548.572 | 1869.213 |
| Stddev | 5.890 | 81.02 | 9.264 | 3.141 | 6.651 |
| %RSD | .2838842 | .3855220 | .4449878 | .2028298 | .3558011 |
| | | | | | |
| #1 | 2081.683 | 20968.22 | 2071.139 | 1552.183 | 1874.968 |
| #2 | 2072.064 | 20971.18 | 2086.070 | 1546.478 | 1870.738 |
| #3 | 2070.983 | 21110.01 | 2088.104 | 1547.053 | 1861.932 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-10A Acquired: 01/03/2025 18:18:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT3A Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1347506 | .0303735 | 1.006278 | .1375116 | .0332860 | 71.47112 |
| Stddev | .0017374 | .0033862 | .001930 | .0058449 | .0013517 | .50979 |
| %RSD | 1.289325 | 11.14859 | .1918321 | 4.250497 | 4.060913 | .7132759 |
| #1 | .1342152 | .0342500 | 1.005944 | .1390746 | .0321009 | 71.34398 |
| #2 | .1366926 | .0279928 | 1.004536 | .1310441 | .0329989 | 71.03693 |
| #3 | .1333439 | .0288777 | 1.008353 | .1424162 | .0347582 | 72.03244 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.380791 | .0067681 | .0059307 | 124.1102 | .1150776 | .1087028 |
| Stddev | .006372 | .0001835 | .0001855 | .8456 | .0005384 | .0009001 |
| %RSD | .4615097 | 2.711121 | 3.126935 | .6812917 | .4678522 | .8280254 |
| #1 | 1.386254 | .0069548 | .0061444 | 124.1903 | .1144559 | .1096922 |
| #2 | 1.373790 | .0067617 | .0058363 | 123.2275 | .1153867 | .1079324 |
| #3 | 1.382329 | .0065880 | .0058116 | 124.9129 | .1153901 | .1084840 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1968026 | 162.6816 | 9.988946 | 46.34640 | .1500387 | -.009810 |
| Stddev | .0029033 | 1.0843 | .059306 | .50321 | .0001465 | .000563 |
| %RSD | 1.475257 | .6665406 | .5937166 | 1.085752 | .0976313 | 5.742167 |
| #1 | .2000520 | 162.6144 | 10.00702 | 46.27458 | .1501591 | -.009810 |
| #2 | .1958923 | 161.6324 | 9.92271 | 45.88296 | .1498756 | -.010373 |
| #3 | .1944635 | 163.7979 | 10.03711 | 46.88166 | .1500813 | -.009246 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7366034 | .1800392 | 2.243810 | 9.548111 | F 12.32884 | -.320270 |
| Stddev | .0185376 | .0093428 | .008912 | .032636 | .01054 | .000673 |
| %RSD | 2.516627 | 5.189318 | .3971984 | .3418009 | .0854935 | .2100852 |
| #1 | .7576589 | .1885497 | 2.245655 | 9.582383 | 12.32413 | -.320981 |
| #2 | .7294132 | .1700423 | 2.251656 | 9.544546 | 12.32147 | -.320188 |
| #3 | .7227380 | .1815256 | 2.234120 | 9.517404 | 12.34091 | -.319642 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-10A Acquired: 01/03/2025 18:18:43 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT3A Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0099867 | 2.739370 | 13.39699 | .0463066 | .9184622 | .1374144 |
| Stddev | .0005625 | .008297 | .11438 | .0009102 | .0089663 | .0010046 |
| %RSD | 5.632573 | .3028762 | .8537398 | 1.965568 | .9762345 | .7310588 |
| | | | | | | |
| #1 | .0105944 | 2.745320 | 13.46261 | .0466109 | .9106459 | .1381061 |
| #2 | .0094843 | 2.729892 | 13.26492 | .0452833 | .9164904 | .1362621 |
| #3 | .0098813 | 2.742897 | 13.46343 | .0470257 | .9282504 | .1378749 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1070597 |
| Stddev | .0037053 |
| %RSD | 3.460933 |
| | |
| #1 | .1028742 |
| #2 | .1083840 |
| #3 | .1099208 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2166.905 | 22067.41 | 2155.835 | 1619.721 | 1886.786 |
| Stddev | 6.269 | 91.46 | 24.496 | 2.551 | 8.630 |
| %RSD | .2892861 | .4144506 | 1.136263 | .1574724 | .4574092 |
| | | | | | |
| #1 | 2159.668 | 22006.73 | 2140.803 | 1616.898 | 1877.207 |
| #2 | 2170.384 | 22172.61 | 2184.102 | 1621.859 | 1889.194 |
| #3 | 2170.662 | 22022.90 | 2142.602 | 1620.405 | 1893.956 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5057-07A Acquired: 01/03/2025 18:22:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL09A Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2676900 | .0086468 | 2.421584 | .2210818 | .0417537 | 93.74932 |
| Stddev | .0009782 | .0036743 | .004446 | .0021387 | .0032489 | .64422 |
| %RSD | .3654073 | 42.49325 | .1835982 | .9673933 | 7.781086 | .6871696 |
| #1 | .2669364 | .0044165 | 2.425766 | .2216949 | .0381212 | 93.67936 |
| #2 | .2687954 | .0110424 | 2.422073 | .2228470 | .0427583 | 93.14294 |
| #3 | .2673383 | .0104816 | 2.416914 | .2187035 | .0443816 | 94.42566 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.488594 | .0082974 | .0084005 | 29.50822 | .1761252 | .1083480 |
| Stddev | .005181 | .0001869 | .0000645 | .02611 | .0013929 | .0006829 |
| %RSD | .3480623 | 2.253049 | .7673224 | .0884923 | .7908470 | .6302508 |
| #1 | 1.482643 | .0081449 | .0084477 | 29.53735 | .1769409 | .1091334 |
| #2 | 1.491030 | .0082413 | .0083271 | 29.48692 | .1745169 | .1080148 |
| #3 | 1.492108 | .0085060 | .0084268 | 29.50040 | .1769177 | .1078956 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4816541 | 191.2981 | 7.842377 | 19.11161 | .1719383 | -.010821 |
| Stddev | .0038425 | 1.1166 | .046176 | .15879 | .0004807 | .001333 |
| %RSD | .7977808 | .5837169 | .5887994 | .8308332 | .2795913 | 12.31593 |
| #1 | .4811442 | 190.7923 | 7.832593 | 18.94712 | .1721095 | -.010853 |
| #2 | .4857262 | 190.5239 | 7.801877 | 19.12372 | .1723100 | -.012138 |
| #3 | .4780920 | 192.5782 | 7.892661 | 19.26400 | .1713954 | -.009473 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5304474 | .2206738 | 4.332801 | 8.212160 | F 12.21451 | -.407365 |
| Stddev | .0232185 | .0070866 | .030561 | .054322 | .02972 | .001182 |
| %RSD | 4.377156 | 3.211338 | .7053501 | .6614833 | .2432809 | .2902152 |
| #1 | .5557132 | .2196536 | 4.329257 | 8.235828 | 12.22664 | -.407034 |
| #2 | .5100474 | .2282152 | 4.304167 | 8.250633 | 12.23624 | -.406384 |
| #3 | .5255815 | .2141526 | 4.364981 | 8.150020 | 12.18065 | -.408678 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5057-07A Acquired: 01/03/2025 18:22:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL09A Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0103485 | 1.475567 | 15.30265 | .1468286 | .8083392 | -.061959 |
| Stddev | .0006398 | .006509 | .07246 | .0004506 | .0093341 | .000025 |
| %RSD | 6.182017 | .4410880 | .4734901 | .3068747 | 1.154720 | .0397406 |
| #1 | .0106267 | 1.482629 | 15.30035 | .1472266 | .8093729 | -.061931 |
| #2 | .0108021 | 1.469810 | 15.23136 | .1469198 | .7985313 | -.061970 |
| #3 | .0096168 | 1.474262 | 15.37622 | .1463394 | .8171134 | -.061977 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0898059 |
| Stddev | .0011327 |
| %RSD | 1.261283 |
| #1 | .0897678 |
| #2 | .0886926 |
| #3 | .0909571 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2163.162 | 21909.55 | 2131.840 | 1627.322 | 1999.753 |
| Stddev | 1.970 | 54.10 | 9.831 | 11.362 | 4.718 |
| %RSD | .0910692 | .2469079 | .4611550 | .6982228 | .2359418 |
| #1 | 2160.889 | 21929.91 | 2135.971 | 1634.460 | 1994.457 |
| #2 | 2164.363 | 21950.50 | 2138.932 | 1633.287 | 2003.507 |
| #3 | 2164.236 | 21848.22 | 2120.618 | 1614.219 | 2001.296 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5058-03A Acquired: 01/03/2025 18:26:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82A Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0558406 | .0529357 | .1941714 | .0227640 | .0203571 | 40.35612 | .3526558 |
| Stddev | .0025820 | .0017622 | .0051255 | .0090991 | .0003390 | .05011 | .0022058 |
| %RSD | 4.623953 | 3.328858 | 2.639680 | 39.97156 | 1.665356 | .1241763 | .6254745 |
| #1 | .0528667 | .0510412 | .1964368 | .0331566 | .0207091 | 40.34526 | .3505741 |
| #2 | .0571433 | .0545258 | .1977739 | .0162299 | .0203295 | 40.41078 | .3524258 |
| #3 | .0575117 | .0532401 | .1883036 | .0189055 | .0200328 | 40.31234 | .3549676 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0036416 | .0028948 | 758.7136 | .0609540 | .1101739 | .2751299 | 126.8830 |
| Stddev | .0000263 | .0001082 | 2.1484 | .0011967 | .0009122 | .0039790 | .5151 |
| %RSD | .7226723 | 3.738642 | .2831671 | 1.963300 | .8279791 | 1.446206 | .4059386 |
| #1 | .0036647 | .0029859 | 758.4969 | .0617811 | .1097424 | .2727138 | 126.6222 |
| #2 | .0036129 | .0027752 | 760.9622 | .0595817 | .1095574 | .2797223 | 127.4763 |
| #3 | .0036470 | .0029235 | 756.6818 | .0614990 | .1112218 | .2729537 | 126.5505 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 9.457630 | 214.3894 | .1162354 | -.008440 | 1.215312 | .0935076 | .5287077 |
| Stddev | .054765 | 1.2519 | .0008195 | .000648 | .008917 | .0121607 | .0016440 |
| %RSD | .5790526 | .5839202 | .7050254 | 7.675706 | .7336975 | 13.00508 | .3109470 |
| #1 | 9.457801 | 213.8171 | .1152914 | -.008650 | 1.217141 | .1075131 | .5271130 |
| #2 | 9.512309 | 215.8251 | .1167641 | -.008956 | 1.205622 | .0856281 | .5286132 |
| #3 | 9.402780 | 213.5260 | .1166507 | -.007713 | 1.223172 | .0873817 | .5303969 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.094332 | 4.572697 | -.237145 | .0054699 | .9561302 | 11.01352 | .0150057 |
| Stddev | .090500 | .014576 | .001357 | .0010389 | .0030413 | .02868 | .0027137 |
| %RSD | 1.776476 | .3187539 | .5722253 | 18.99258 | .3180849 | .2604264 | 18.08428 |
| #1 | 5.015231 | 4.589060 | -.235580 | .0043333 | .9526564 | 10.98432 | .0152876 |
| #2 | 5.193022 | 4.561103 | -.237992 | .0057059 | .9574209 | 11.04165 | .0121621 |
| #3 | 5.074744 | 4.567928 | -.237863 | .0063704 | .9583133 | 11.01459 | .0175674 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5058-03A Acquired: 01/03/2025 18:26:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82A Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .8009106 | .6879200 | .0835866 |
| Stddev | .0035008 | .0007088 | .0023520 |
| %RSD | .4371016 | .1030379 | 2.813831 |
| | | | |
| #1 | .7982746 | .6879984 | .0840086 |
| #2 | .8048827 | .6885863 | .0810522 |
| #3 | .7995745 | .6871752 | .0856990 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1948.562 | 19916.07 | 1996.868 | 1448.021 | 1691.031 |
| Stddev | 6.280 | 94.07 | 6.220 | 8.886 | 6.396 |
| %RSD | .3223077 | .4723559 | .3114856 | .6136350 | .3782362 |
| | | | | | |
| #1 | 1941.348 | 19828.52 | 1991.712 | 1438.148 | 1683.686 |
| #2 | 1952.806 | 19904.15 | 1995.116 | 1450.540 | 1695.372 |
| #3 | 1951.533 | 20015.53 | 2003.776 | 1455.375 | 1694.036 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5060-01A Acquired: 01/03/2025 18:30:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR8A Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1365967 | .0329315 | 2.005718 | .1407345 | .0344281 | 74.57120 |
| Stddev | .0071820 | .0037008 | .002320 | .0067601 | .0015910 | .13482 |
| %RSD | 5.257848 | 11.23783 | .1156792 | 4.803446 | 4.621279 | .1807966 |
| #1 | .1375120 | .0350195 | 2.008002 | .1400239 | .0327983 | 74.67557 |
| #2 | .1432773 | .0286585 | 2.003363 | .1478218 | .0359772 | 74.41898 |
| #3 | .1290010 | .0351163 | 2.005787 | .1343577 | .0345087 | 74.61906 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.663682 | .0079780 | .0089288 | 148.6051 | .1463015 | .1129507 |
| Stddev | .001214 | .0001456 | .0001361 | .2240 | .0006806 | .0002429 |
| %RSD | .0729565 | 1.825562 | 1.524369 | .1507086 | .4652162 | .2150481 |
| #1 | 1.662894 | .0078266 | .0090839 | 148.7862 | .1470751 | .1130307 |
| #2 | 1.665080 | .0081171 | .0088293 | 148.6744 | .1460345 | .1126779 |
| #3 | 1.663072 | .0079904 | .0088733 | 148.3547 | .1457949 | .1131435 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3731486 | 159.3898 | 8.116606 | 36.46874 | .2357177 | -.009459 |
| Stddev | .0081397 | .1588 | .012184 | .09370 | .0003793 | .001139 |
| %RSD | 2.181345 | .0996086 | .1501156 | .2569287 | .1609357 | 12.03782 |
| #1 | .3700525 | 159.5529 | 8.121463 | 36.36155 | .2354055 | -.010718 |
| #2 | .3670114 | 159.3807 | 8.102743 | 36.50961 | .2361399 | -.008502 |
| #3 | .3823820 | 159.2357 | 8.125614 | 36.53506 | .2356077 | -.009157 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7684125 | .1965375 | 5.014765 | 8.867838 | F 15.90228 | -.302406 |
| Stddev | .0057402 | .0075744 | .014263 | .230857 | .02919 | .004434 |
| %RSD | .7470238 | 3.853917 | .2844245 | 2.603309 | .1835626 | 1.466128 |
| #1 | .7656750 | .1973076 | 5.006616 | 9.092376 | 15.92556 | -.305060 |
| #2 | .7750090 | .1886075 | 5.006444 | 8.879997 | 15.86953 | -.304869 |
| #3 | .7645534 | .2036974 | 5.031234 | 8.631142 | 15.91175 | -.297287 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5060-01A Acquired: 01/03/2025 18:30:09 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKR8A Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0131389 | 4.340601 | 14.72138 | .0920475 | .8184801 | .2018342 |
| Stddev | .0008639 | .005891 | .06508 | .0008472 | .0080306 | .0010498 |
| %RSD | 6.575326 | .1357094 | .4421091 | .9203835 | .9811557 | .5201147 |
| #1 | .0141295 | 4.343282 | 14.78490 | .0918105 | .8218982 | .2024055 |
| #2 | .0127451 | 4.333846 | 14.72441 | .0913441 | .8093060 | .2006227 |
| #3 | .0125420 | 4.344674 | 14.65483 | .0929880 | .8242361 | .2024744 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1242403 |
| Stddev | .0006500 |
| %RSD | .5231476 |
| #1 | .1234927 |
| #2 | .1245572 |
| #3 | .1246711 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2185.326 | 22323.37 | 2195.461 | 1644.984 | 1955.870 |
| Stddev | 5.412 | 31.17 | 7.275 | 6.681 | 6.799 |
| %RSD | .2476518 | .1396331 | .3313794 | .4061656 | .3476174 |
| #1 | 2191.575 | 22356.70 | 2191.568 | 1652.623 | 1963.352 |
| #2 | 2182.203 | 22318.47 | 2190.960 | 1642.099 | 1954.187 |
| #3 | 2182.199 | 22294.94 | 2203.854 | 1640.229 | 1950.070 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5062-06A Acquired: 01/03/2025 18:33:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL02A Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1275949 | .0132576 | .5589661 | .0874636 | .0356921 | 72.20383 | .6557968 |
| Stddev | .0024034 | .0019814 | .0027995 | .0027085 | .0057972 | .43728 | .0034674 |
| %RSD | 1.883583 | 14.94529 | .5008310 | 3.096762 | 16.24215 | .6056198 | .5287346 |
| #1 | .1288861 | .0119420 | .5621162 | .0896057 | .0317071 | 72.65484 | .6596714 |
| #2 | .1248220 | .0122943 | .5580193 | .0844191 | .0423426 | 71.78171 | .6529856 |
| #3 | .1290767 | .0155364 | .5567629 | .0883660 | .0330266 | 72.17495 | .6547335 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0071140 | .0042588 | 30.06795 | .1095216 | .0898053 | .1843297 | 159.4235 |
| Stddev | .0001890 | .0000516 | .13963 | .0011860 | .0007668 | .0060091 | .8732 |
| %RSD | 2.656750 | 1.212335 | .4643812 | 1.082891 | .8538272 | 3.259979 | .5477407 |
| #1 | .0073270 | .0043179 | 30.20827 | .1107712 | .0890159 | .1791385 | 160.2231 |
| #2 | .0069666 | .0042225 | 29.92902 | .1093821 | .0898526 | .1909125 | 158.4917 |
| #3 | .0070483 | .0042360 | 30.06657 | .1084116 | .0905473 | .1829381 | 159.5557 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 6.619963 | 18.48105 | .1569024 | -.009211 | .3913002 | .1959906 | .5410235 |
| Stddev | .039636 | .09679 | .0001192 | .000930 | .0044484 | .0095952 | .0005904 |
| %RSD | .5987337 | .5237158 | .0759694 | 10.09611 | 1.136812 | 4.895758 | .1091302 |
| #1 | 6.652941 | 18.58525 | .1567656 | -.010161 | .3941512 | .2058945 | .5417038 |
| #2 | 6.575991 | 18.39395 | .1569582 | -.009168 | .3861744 | .1953401 | .5407217 |
| #3 | 6.630959 | 18.46395 | .1569835 | -.008303 | .3935748 | .1867371 | .5406449 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.290717 | 4.090448 | -.332955 | .0071653 | 2.447784 | 12.87330 | .0309828 |
| Stddev | .220928 | .009201 | .002082 | .0003799 | .007862 | .11645 | .0013641 |
| %RSD | 4.175771 | .2249364 | .6254361 | 5.301898 | .3211716 | .9045529 | 4.402729 |
| #1 | 5.076808 | 4.085527 | -.334091 | .0072140 | 2.446743 | 13.00137 | .0319326 |
| #2 | 5.277291 | 4.084754 | -.330551 | .0075185 | 2.440495 | 12.84475 | .0315960 |
| #3 | 5.518052 | 4.101063 | -.334222 | .0067634 | 2.456114 | 12.77378 | .0294197 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5062-06A Acquired: 01/03/2025 18:33:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL02A Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 1.011778 | -.069834 | .0717410 |
| Stddev | .004159 | .001153 | .0019869 |
| %RSD | .4110564 | 1.651229 | 2.769528 |
| | | | |
| #1 | 1.016540 | -.070751 | .0738162 |
| #2 | 1.008856 | -.068539 | .0715508 |
| #3 | 1.009939 | -.070211 | .0698561 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2141.349 | 21844.63 | 2122.701 | 1612.526 | 1953.002 |
| Stddev | 1.324 | 40.63 | 13.318 | 1.988 | 3.310 |
| %RSD | .0618447 | .1859766 | .6273929 | .1232786 | .1694682 |
| | | | | | |
| #1 | 2141.476 | 21879.77 | 2107.732 | 1614.627 | 1953.096 |
| #2 | 2142.605 | 21853.98 | 2127.131 | 1610.675 | 1956.264 |
| #3 | 2139.965 | 21800.15 | 2133.238 | 1612.275 | 1949.647 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5064-18A Acquired: 01/03/2025 18:37:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLB8A Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1045663 | .0116253 | .2148865 | .2248196 | .0407899 | 71.48905 | 1.948837 |
| Stddev | .0026732 | .0042459 | .0006546 | .0070529 | .0033528 | .06710 | .002427 |
| %RSD | 2.556425 | 36.52263 | .3046168 | 3.137121 | 8.219720 | .0938611 | .1245452 |
| | | | | | | | |
| #1 | .1052209 | .0096922 | .2153828 | .2219103 | .0434420 | 71.55486 | 1.948860 |
| #2 | .1016266 | .0086900 | .2151321 | .2196868 | .0419064 | 71.49155 | 1.951253 |
| #3 | .1068513 | .0164938 | .2141446 | .2328617 | .0370213 | 71.42073 | 1.946399 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0057756 | .0048312 | 36.11597 | .1118362 | .1273105 | .1018188 | 197.6928 |
| Stddev | .0001088 | .0000949 | .08714 | .0006704 | .0004252 | .0056679 | .2781 |
| %RSD | 1.884409 | 1.963417 | .2412809 | .5994489 | .3340051 | 5.566601 | .1406893 |
| | | | | | | | |
| #1 | .0056575 | .0047262 | 36.16581 | .1121907 | .1268348 | .1068696 | 197.9952 |
| #2 | .0057974 | .0049107 | 36.16676 | .1122550 | .1274433 | .0956890 | 197.6353 |
| #3 | .0058719 | .0048569 | 36.01535 | .1110630 | .1276535 | .1028979 | 197.4479 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 18.63150 | 26.71567 | .1773798 | -.010189 | .9820761 | .1937796 | .4657971 |
| Stddev | .02827 | .06020 | .0010025 | .000670 | .0200295 | .0100843 | .0030136 |
| %RSD | .1517157 | .2253276 | .5651437 | 6.578868 | 2.039506 | 5.204011 | .6469691 |
| | | | | | | | |
| #1 | 18.66412 | 26.74416 | .1774040 | -.010252 | .9617501 | .1840558 | .4633777 |
| #2 | 18.61629 | 26.64652 | .1763655 | -.010826 | 1.001795 | .1930936 | .4648408 |
| #3 | 18.61410 | 26.75635 | .1783700 | -.009490 | .982683 | .2041894 | .4691728 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 6.399720 | 6.165026 | -.425299 | .0075624 | .5698250 | 14.18957 | .0066564 |
| Stddev | .063719 | .018218 | .004508 | .0002789 | .0039307 | .09723 | .0014931 |
| %RSD | .9956578 | .2955102 | 1.060034 | 3.687637 | .6898148 | .6851951 | 22.43099 |
| | | | | | | | |
| #1 | 6.417387 | 6.145134 | -.421105 | .0073218 | .5664087 | 14.13616 | .0082564 |
| #2 | 6.452742 | 6.180900 | -.430067 | .0074973 | .5741211 | 14.13075 | .0053001 |
| #3 | 6.329032 | 6.169044 | -.424726 | .0078680 | .5689452 | 14.30179 | .0064128 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5064-18A Acquired: 01/03/2025 18:37:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLB8A Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .9460944 | -.061694 | .1279289 |
| Stddev | .0071940 | .000517 | .0011871 |
| %RSD | .7603899 | .8379113 | .9279315 |
| | | | |
| #1 | .9461434 | -.062283 | .1268555 |
| #2 | .9532637 | -.061317 | .1292038 |
| #3 | .9388760 | -.061482 | .1277273 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2141.147 | 21832.47 | 2131.366 | 1612.323 | 1980.940 |
| Stddev | 2.519 | 32.15 | 15.487 | 9.159 | 3.164 |
| %RSD | .1176308 | .1472725 | .7266084 | .5680886 | .1597368 |
| | | | | | |
| #1 | 2143.901 | 21868.65 | 2144.161 | 1621.126 | 1984.572 |
| #2 | 2140.579 | 21807.17 | 2135.789 | 1612.998 | 1979.473 |
| #3 | 2138.961 | 21821.58 | 2114.150 | 1602.844 | 1978.776 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5071-01A Acquired: 01/03/2025 18:41:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX5A Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0674158 | .0431048 | .3946338 | .0893787 | .0226643 | 56.34634 |
| Stddev | .0062006 | .0027675 | .0029344 | .0022513 | .0029706 | .22364 |
| %RSD | 9.197610 | 6.420450 | .7435711 | 2.518785 | 13.10676 | .3969031 |
| #1 | .0627676 | .0418606 | .3940063 | .0914931 | .0243231 | 56.46532 |
| #2 | .0650236 | .0411777 | .3920638 | .0870119 | .0192348 | 56.48535 |
| #3 | .0744562 | .0462760 | .3978311 | .0896310 | .0244349 | 56.08836 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7098668 | .0051304 | .0031991 | 237.9530 | .0950761 | .0798798 |
| Stddev | .0014529 | .0001656 | .0001220 | 1.4307 | .0007592 | .0006013 |
| %RSD | .2046770 | 3.228217 | 3.812169 | .6012736 | .7984922 | .7527146 |
| #1 | .7109593 | .0049763 | .0030605 | 238.9877 | .0959211 | .0794091 |
| #2 | .7104232 | .0053055 | .0032471 | 238.5511 | .0944515 | .0796733 |
| #3 | .7082179 | .0051093 | .0032898 | 236.3203 | .0948558 | .0805571 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2252441 | 117.2304 | 2.800479 | 94.42742 | .0961866 | -.007495 |
| Stddev | .0027511 | .5627 | .011781 | .29342 | .0013787 | .001187 |
| %RSD | 1.221386 | .4799526 | .4206647 | .3107390 | 1.433336 | 15.83849 |
| #1 | .2252376 | 117.4133 | 2.798218 | 94.64724 | .0976343 | -.008202 |
| #2 | .2279984 | 117.6788 | 2.813227 | 94.54080 | .0948893 | -.008158 |
| #3 | .2224962 | 116.5990 | 2.789993 | 94.09423 | .0960360 | -.006125 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7910462 | .1375836 | 1.395450 | 5.780830 | F 12.62099 | -.232702 |
| Stddev | .0110885 | .0065768 | .002694 | .086398 | .01684 | .002797 |
| %RSD | 1.401753 | 4.780242 | .1930829 | 1.494558 | .1334112 | 1.201962 |
| #1 | .8006082 | .1417093 | 1.396052 | 5.689123 | 12.60404 | -.232773 |
| #2 | .7936396 | .1299991 | 1.392506 | 5.860698 | 12.63772 | -.235463 |
| #3 | .7788908 | .1410424 | 1.397793 | 5.792668 | 12.62120 | -.229871 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5071-01A Acquired: 01/03/2025 18:41:35 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX5A Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0069192 | 1.771929 | 11.32331 | .0210057 | .9324837 | .1419732 |
| Stddev | .0008954 | .001527 | .05690 | .0014977 | .0038391 | .0003782 |
| %RSD | 12.94009 | .0861976 | .5024839 | 7.130053 | .4117127 | .2663570 |
| #1 | .0067222 | 1.772093 | 11.33825 | .0222774 | .9315866 | .1423987 |
| #2 | .0061387 | 1.770326 | 11.37124 | .0213849 | .9291725 | .1416756 |
| #3 | .0078966 | 1.773368 | 11.26043 | .0193549 | .9366919 | .1418453 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1066760 |
| Stddev | .0025920 |
| %RSD | 2.429807 |
| #1 | .1040820 |
| #2 | .1066800 |
| #3 | .1092660 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2167.315 | 22287.11 | 2184.775 | 1620.843 | 1868.950 |
| Stddev | 4.662 | 118.73 | 11.187 | 5.271 | 2.567 |
| %RSD | .2150952 | .5327136 | .5120456 | .3251950 | .1373630 |
| #1 | 2166.694 | 22168.65 | 2176.293 | 1617.505 | 1869.206 |
| #2 | 2172.255 | 22286.60 | 2180.579 | 1626.920 | 1871.380 |
| #3 | 2162.994 | 22406.10 | 2197.454 | 1618.105 | 1866.265 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5079-10A Acquired: 01/03/2025 18:45:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLF8A Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0936532 | .0244486 | .2947225 | .1282310 | .0357691 | 70.68400 |
| Stddev | .0060370 | .0052727 | .0037389 | .0035007 | .0034264 | .07457 |
| %RSD | 6.446149 | 21.56668 | 1.268629 | 2.729963 | 9.579125 | .1054933 |
| #1 | .0993189 | .0195953 | .2913348 | .1260321 | .0347472 | 70.75404 |
| #2 | .0873032 | .0236915 | .2987342 | .1322679 | .0395901 | 70.60561 |
| #3 | .0943373 | .0300590 | .2940984 | .1263931 | .0329699 | 70.69236 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.090600 | .0058995 | .0047341 | 67.42659 | .1160083 | .1012561 |
| Stddev | .004067 | .0001581 | .0000841 | .12147 | .0010755 | .0006111 |
| %RSD | .3728703 | 2.679532 | 1.775692 | .1801571 | .9270537 | .6035010 |
| #1 | 1.093217 | .0060009 | .0046966 | 67.42292 | .1172084 | .1008779 |
| #2 | 1.085915 | .0059802 | .0046753 | 67.30699 | .1151319 | .1019611 |
| #3 | 1.092667 | .0057173 | .0048304 | 67.54985 | .1156845 | .1009293 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6158446 | 171.7084 | 11.90326 | 28.95253 | .1671677 | -.012088 |
| Stddev | .0014282 | .1986 | .03254 | .09606 | .0010067 | .000316 |
| %RSD | .2319145 | .1156853 | .2734124 | .3317738 | .6022185 | 2.610558 |
| #1 | .6169208 | 171.9268 | 11.88942 | 29.04340 | .1663357 | -.011891 |
| #2 | .6163887 | 171.6597 | 11.87992 | 28.85201 | .1668808 | -.012452 |
| #3 | .6142243 | 171.5386 | 11.94043 | 28.96216 | .1682868 | -.011920 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5979054 | .1614578 | 1.540732 | 7.910802 | F 12.86687 | -.331441 |
| Stddev | .0087129 | .0087684 | .009033 | .084583 | .00480 | .003305 |
| %RSD | 1.457240 | 5.430760 | .5862874 | 1.069212 | .0373303 | .9973063 |
| #1 | .5934132 | .1703853 | 1.531757 | 7.954729 | 12.86197 | -.335146 |
| #2 | .5923552 | .1611303 | 1.549822 | 7.964384 | 12.86706 | -.330382 |
| #3 | .6079476 | .1528577 | 1.540616 | 7.813293 | 12.87157 | -.328795 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5079-10A Acquired: 01/03/2025 18:45:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLF8A Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0080433 | 1.561578 | 10.80364 | .0177687 | .7725521 | -.012378 |
| Stddev | .0008844 | .005249 | .08678 | .0013132 | .0005420 | .000319 |
| %RSD | 10.99493 | .3361656 | .8032761 | 7.390594 | .0701517 | 2.574096 |
| #1 | .0090206 | 1.566453 | 10.90157 | .0162573 | .7731082 | -.012078 |
| #2 | .0072983 | 1.562260 | 10.77308 | .0186307 | .7720255 | -.012712 |
| #3 | .0078109 | 1.556021 | 10.73627 | .0184180 | .7725227 | -.012344 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1054532 |
| Stddev | .0049473 |
| %RSD | 4.691428 |
| #1 | .1007939 |
| #2 | .1049204 |
| #3 | .1106453 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2303.133 | 23653.20 | 2315.627 | 1732.998 | 1936.335 |
| Stddev | 3.411 | 29.62 | 18.031 | 9.451 | 1.835 |
| %RSD | .1481050 | .1252423 | .7786743 | .5453644 | .0947613 |
| #1 | 2301.921 | 23687.18 | 2295.396 | 1742.097 | 1934.367 |
| #2 | 2306.984 | 23632.75 | 2321.482 | 1723.230 | 1937.999 |
| #3 | 2300.493 | 23639.68 | 2330.003 | 1733.666 | 1936.639 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5080-10A Acquired: 01/03/2025 18:49:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLE8A Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6055313 | .0184892 | 4.572661 | .2108755 | .0441629 | 78.00541 |
| Stddev | .0035671 | .0007401 | .007686 | .0052022 | .0040155 | .38449 |
| %RSD | .5890911 | 4.002747 | .1680767 | 2.466955 | 9.092371 | .4928999 |
| #1 | .6050349 | .0192634 | 4.566575 | .2060727 | .0398956 | 77.72606 |
| #2 | .6022384 | .0184155 | 4.570110 | .2101524 | .0447260 | 77.84624 |
| #3 | .6093206 | .0177888 | 4.581298 | .2164015 | .0478671 | 78.44392 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.054784 | .0072336 | .0114716 | 89.02845 | .3549410 | .1109825 |
| Stddev | .009995 | .0001097 | .0002366 | .28422 | .0003759 | .0002764 |
| %RSD | .3271913 | 1.516857 | 2.062818 | .3192413 | .1058956 | .2490189 |
| #1 | 3.046605 | .0073519 | .0116283 | 88.72406 | .3548051 | .1112491 |
| #2 | 3.065925 | .0071351 | .0115870 | 89.07439 | .3546520 | .1106973 |
| #3 | 3.051821 | .0072139 | .0111994 | 89.28690 | .3553659 | .1110010 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5937783 | 184.0767 | 9.999528 | 30.42500 | .2087261 | -.008826 |
| Stddev | .0086887 | .9723 | .045909 | .07252 | .0015156 | .000458 |
| %RSD | 1.463288 | .5282175 | .4591162 | .2383410 | .7261035 | 5.193517 |
| #1 | .5909932 | 183.1991 | 9.949977 | 30.35438 | .2087843 | -.009351 |
| #2 | .6035181 | 183.9091 | 10.00799 | 30.42137 | .2071823 | -.008507 |
| #3 | .5868237 | 185.1220 | 10.04062 | 30.49927 | .2102118 | -.008619 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7359248 | .1939673 | 3.188015 | 11.24076 | F 17.08480 | -.343198 |
| Stddev | .0062928 | .0123424 | .013430 | .11896 | .02754 | .007762 |
| %RSD | .8550886 | 6.363124 | .4212728 | 1.058321 | .1611969 | 2.261625 |
| #1 | .7427418 | .2004185 | 3.200733 | 11.19907 | 17.10390 | -.351127 |
| #2 | .7303379 | .1797362 | 3.173971 | 11.14826 | 17.05323 | -.342851 |
| #3 | .7346946 | .2017471 | 3.189342 | 11.37496 | 17.09727 | -.335615 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5080-10A Acquired: 01/03/2025 18:49:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLE8A Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0116874 | 3.715372 | 8.686527 | .2918974 | 1.185040 | .1097657 |
| Stddev | .0006735 | .011647 | .048653 | .0012377 | .007348 | .0007841 |
| %RSD | 5.763031 | .3134909 | .5601017 | .4240363 | .6200921 | .7143399 |
| | | | | | | |
| #1 | .0109764 | 3.714588 | 8.709330 | .2926165 | 1.178979 | .1091376 |
| #2 | .0117697 | 3.704136 | 8.719591 | .2926075 | 1.182927 | .1095150 |
| #3 | .0123160 | 3.727391 | 8.630660 | .2904681 | 1.193213 | .1106445 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1342035 |
| Stddev | .0021756 |
| %RSD | 1.621113 |
| | |
| #1 | .1319919 |
| #2 | .1342773 |
| #3 | .1363412 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2095.721 | 21425.93 | 2085.681 | 1571.634 | 1857.653 |
| Stddev | 6.130 | 48.65 | 8.556 | 9.793 | 2.973 |
| %RSD | .2924893 | .2270588 | .4102327 | .6231133 | .1600519 |
| | | | | | |
| #1 | 2088.671 | 21402.71 | 2078.388 | 1567.742 | 1854.248 |
| #2 | 2099.794 | 21481.84 | 2083.555 | 1582.775 | 1859.738 |
| #3 | 2098.698 | 21393.24 | 2095.099 | 1564.386 | 1858.972 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5081-05A Acquired: 01/03/2025 18:53:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLG4A Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1356618 | .0283169 | 1.685781 | .1407651 | .0356229 | 75.43017 |
| Stddev | .0056486 | .0019846 | .007342 | .0055774 | .0022692 | .08793 |
| %RSD | 4.163763 | 7.008501 | .4354979 | 3.962168 | 6.370041 | .1165655 |
| #1 | .1412522 | .0278559 | 1.681979 | .1362799 | .0377216 | 75.39468 |
| #2 | .1357763 | .0266034 | 1.694243 | .1390053 | .0332150 | 75.36553 |
| #3 | .1299567 | .0304914 | 1.681119 | .1470101 | .0359322 | 75.53029 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.439254 | .0177058 | .0087278 | 324.8150 | .3265548 | .1254636 |
| Stddev | .008795 | .0002882 | .0000300 | 1.2966 | .0008211 | .0008948 |
| %RSD | .6111012 | 1.627704 | .3431709 | .3991840 | .2514420 | .7132174 |
| #1 | 1.435932 | .0174125 | .0087041 | 324.2793 | .3265316 | .1255917 |
| #2 | 1.432604 | .0177164 | .0087614 | 323.8721 | .3257456 | .1262875 |
| #3 | 1.449227 | .0179886 | .0087177 | 326.2937 | .3273873 | .1245116 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7494402 | 173.9417 | 10.10977 | 114.7542 | .2505964 | -.012298 |
| Stddev | .0119505 | .1649 | .01040 | .4478 | .0009534 | .001064 |
| %RSD | 1.594589 | .0947756 | .1028984 | .3901898 | .3804672 | 8.651519 |
| #1 | .7525484 | 173.7956 | 10.09973 | 114.8278 | .2508302 | -.013069 |
| #2 | .7595295 | 173.9091 | 10.10909 | 114.2742 | .2495479 | -.011084 |
| #3 | .7362427 | 174.1205 | 10.12050 | 115.1606 | .2514113 | -.012740 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .9366742 | .5027780 | 2.506945 | 9.783585 | F 19.48902 | -.331170 |
| Stddev | .0136654 | .0075054 | .010042 | .195637 | .03641 | .003280 |
| %RSD | 1.458932 | 1.492785 | .4005701 | 1.999649 | .1868006 | .9905017 |
| #1 | .9523297 | .5107706 | 2.497154 | 9.622628 | 19.45515 | -.327956 |
| #2 | .9305564 | .4958800 | 2.517221 | 10.00134 | 19.48440 | -.331041 |
| #3 | .9271366 | .5016835 | 2.506459 | 9.72679 | 19.52752 | -.334513 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5081-05A Acquired: 01/03/2025 18:53:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLG4A Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0142002 | 3.851695 | 10.88725 | .1084053 | .8840628 | .2644530 |
| Stddev | .0009301 | .010793 | .09231 | .0030614 | .0046396 | .0013117 |
| %RSD | 6.549604 | .2802177 | .8478947 | 2.824037 | .5248038 | .4960148 |
| #1 | .0151626 | 3.845793 | 10.81892 | .1053507 | .8823183 | .2643250 |
| #2 | .0141318 | 3.864153 | 10.85058 | .1083917 | .8805484 | .2632100 |
| #3 | .0133062 | 3.845141 | 10.99227 | .1114735 | .8893218 | .2658241 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1452996 |
| Stddev | .0026463 |
| %RSD | 1.821269 |
| #1 | .1469556 |
| #2 | .1466956 |
| #3 | .1422476 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2188.647 | 22432.20 | 2205.501 | 1637.155 | 1786.511 |
| Stddev | 2.115 | 92.32 | 7.989 | 11.386 | 1.583 |
| %RSD | .0966443 | .4115705 | .3622248 | .6954819 | .0886147 |
| #1 | 2190.872 | 22337.36 | 2204.309 | 1630.841 | 1787.826 |
| #2 | 2186.661 | 22437.45 | 2214.019 | 1630.325 | 1784.754 |
| #3 | 2188.409 | 22521.79 | 2198.176 | 1650.299 | 1786.953 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5082-06A Acquired: 01/03/2025 18:56:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLL6A Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3875869 | .0243280 | 1.607542 | .0789943 | .0342933 | 66.08076 | 1.356367 |
| Stddev | .0030818 | .0042226 | .003939 | .0008535 | .0016474 | .34783 | .010152 |
| %RSD | .7951323 | 17.35711 | .2450231 | 1.080456 | 4.803926 | .5263731 | .7484540 |
| #1 | .3892392 | .0194524 | 1.605748 | .0782492 | .0328802 | 65.68849 | 1.356978 |
| #2 | .3840313 | .0267252 | 1.604820 | .0799255 | .0338969 | 66.35160 | 1.345925 |
| #3 | .3894903 | .0268065 | 1.612059 | .0788083 | .0361027 | 66.20219 | 1.366200 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0060917 | .0062775 | 72.71188 | .1903615 | .0923574 | .3418033 | 159.0722 |
| Stddev | .0000827 | .0000754 | .13622 | .0013567 | .0001140 | .0092462 | .4640 |
| %RSD | 1.357425 | 1.200499 | .1873439 | .7126763 | .1233773 | 2.705112 | .2916695 |
| #1 | .0060406 | .0062405 | 72.76490 | .1900714 | .0923297 | .3443465 | 158.7762 |
| #2 | .0061871 | .0062277 | 72.55713 | .1918397 | .0922599 | .3315517 | 158.8335 |
| #3 | .0060476 | .0063642 | 72.81363 | .1891733 | .0924827 | .3495117 | 159.6069 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 11.18920 | 22.15113 | .1447546 | -.009447 | .6172035 | .1687372 | .9534425 |
| Stddev | .01185 | .14356 | .0009720 | .000842 | .0190623 | .0084586 | .0030776 |
| %RSD | .1058720 | .6480784 | .6714677 | 8.915004 | 3.088501 | 5.012857 | .3227906 |
| #1 | 11.18593 | 21.99959 | .1455480 | -.010385 | .5955590 | .1733211 | .9509955 |
| #2 | 11.17934 | 22.16874 | .1436704 | -.008754 | .6314914 | .1589762 | .9568978 |
| #3 | 11.20234 | 22.28507 | .1450455 | -.009204 | .6245600 | .1739145 | .9524343 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.370864 | 9.729567 | -.329669 | .0126366 | 2.052871 | 11.86659 | .0565984 |
| Stddev | .107346 | .015243 | .004399 | .0006427 | .002412 | .12025 | .0007731 |
| %RSD | 1.998673 | .1566699 | 1.334356 | 5.086421 | .1174828 | 1.013335 | 1.365863 |
| #1 | 5.269881 | 9.726269 | -.326649 | .0132670 | 2.050189 | 11.74236 | .0559224 |
| #2 | 5.483605 | 9.716242 | -.327641 | .0126606 | 2.053563 | 11.87499 | .0574412 |
| #3 | 5.359105 | 9.746189 | -.334716 | .0119822 | 2.054861 | 11.98242 | .0564316 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5082-06A Acquired: 01/03/2025 18:56:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLL6A Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .7535669 | .1457745 | .0869689 |
| Stddev | .0061146 | .0003822 | .0036455 |
| %RSD | .8114204 | .2621891 | 4.191714 |
| | | | |
| #1 | .7476346 | .1457538 | .0873946 |
| #2 | .7532174 | .1461667 | .0831292 |
| #3 | .7598488 | .1454031 | .0903828 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2108.338 | 21503.34 | 2090.913 | 1586.174 | 2001.653 |
| Stddev | 5.673 | 65.65 | 15.477 | 8.324 | 5.721 |
| %RSD | .2690587 | .3053128 | .7401824 | .5247589 | .2858383 |
| | | | | | |
| #1 | 2105.992 | 21444.69 | 2107.437 | 1590.168 | 2003.738 |
| #2 | 2114.807 | 21491.07 | 2088.546 | 1576.607 | 2006.039 |
| #3 | 2104.214 | 21574.26 | 2076.757 | 1591.748 | 1995.181 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5087-07A Acquired: 01/03/2025 19:00:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLY4A Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1044606 | .0178398 | .4709080 | .2053807 | .0371750 | 79.71665 |
| Stddev | .0040754 | .0079143 | .0015288 | .0039142 | .0023033 | .10296 |
| %RSD | 3.901393 | 44.36321 | .3246450 | 1.905847 | 6.195845 | .1291574 |
| | | | | | | |
| #1 | .1074117 | .0195862 | .4726367 | .2085154 | .0378445 | 79.61112 |
| #2 | .0998105 | .0091982 | .4697340 | .2066332 | .0346111 | 79.72200 |
| #3 | .1061594 | .0247351 | .4703533 | .2009935 | .0390694 | 79.81683 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.588619 | .0177253 | .0042678 | 63.22223 | .1294650 | .1024073 |
| Stddev | .008075 | .0002553 | .0001917 | .26245 | .0009267 | .0010199 |
| %RSD | .3119304 | 1.440104 | 4.492123 | .4151293 | .7158159 | .9959277 |
| | | | | | | |
| #1 | 2.579782 | .0178553 | .0040465 | 63.06524 | .1294351 | .1012330 |
| #2 | 2.595613 | .0174312 | .0043789 | 63.52522 | .1304063 | .1030711 |
| #3 | 2.590462 | .0178894 | .0043781 | 63.07623 | .1285535 | .1029179 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.000192 | 171.7981 | 8.996143 | 27.38468 | .1712979 | -.009938 |
| Stddev | .010188 | .2678 | .028543 | .09424 | .0021524 | .000784 |
| %RSD | 1.018652 | .1558694 | .3172817 | .3441177 | 1.256545 | 7.890606 |
| | | | | | | |
| #1 | .996147 | 171.5569 | 8.964032 | 27.27675 | .1688182 | -.009256 |
| #2 | 1.011781 | 171.7510 | 9.018632 | 27.45061 | .1723924 | -.009762 |
| #3 | .992646 | 172.0863 | 9.005763 | 27.42668 | .1726832 | -.010795 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4772944 | .1728754 | 2.032048 | 6.302361 | F 10.20162 | -.340776 |
| Stddev | .0020913 | .0120757 | .012617 | .081462 | .04209 | .002793 |
| %RSD | .4381660 | 6.985216 | .6209172 | 1.292570 | .4125722 | .8194987 |
| | | | | | | |
| #1 | .4793227 | .1619692 | 2.032256 | 6.330413 | 10.15302 | -.337992 |
| #2 | .4774152 | .1708044 | 2.019328 | 6.210579 | 10.22621 | -.343578 |
| #3 | .4751452 | .1858527 | 2.044560 | 6.366090 | 10.22563 | -.340757 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5087-07A Acquired: 01/03/2025 19:00:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLY4A Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0121582 | 3.803854 | 11.66962 | .0222719 | .7382023 | -.020803 |
| Stddev | .0007031 | .018352 | .08672 | .0017682 | .0037756 | .000507 |
| %RSD | 5.782944 | .4824523 | .7430945 | 7.938973 | .5114569 | 2.438298 |
| #1 | .0114007 | 3.783287 | 11.62177 | .0220717 | .7348398 | -.020297 |
| #2 | .0122839 | 3.818557 | 11.61738 | .0206123 | .7422867 | -.020801 |
| #3 | .0127899 | 3.809718 | 11.76972 | .0241316 | .7374802 | -.021311 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1338628 |
| Stddev | .0007900 |
| %RSD | .5901571 |
| #1 | .1338754 |
| #2 | .1330667 |
| #3 | .1346465 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2320.794 | 23679.33 | 2317.926 | 1735.808 | 1936.568 |
| Stddev | 3.969 | 76.97 | 6.156 | 2.938 | 6.396 |
| %RSD | .1710404 | .3250635 | .2655774 | .1692507 | .3302562 |
| #1 | 2325.138 | 23643.50 | 2320.908 | 1732.574 | 1943.486 |
| #2 | 2317.356 | 23626.80 | 2322.022 | 1736.538 | 1930.871 |
| #3 | 2319.888 | 23767.68 | 2310.847 | 1738.312 | 1935.347 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5092-04A Acquired: 01/03/2025 19:04:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLP3A Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1102534 | .0216678 | 1.434752 | .1910398 | .0346209 | 84.46723 | .9316496 |
| Stddev | .0047979 | .0028436 | .005588 | .0060082 | .0015576 | .38553 | .0063779 |
| %RSD | 4.351697 | 13.12358 | .3894815 | 3.144991 | 4.499011 | .4564224 | .6845762 |
| #1 | .1157826 | .0220791 | 1.436751 | .1846791 | .0348854 | 84.02978 | .9244508 |
| #2 | .1077894 | .0186409 | 1.428440 | .1966189 | .0329480 | 84.75742 | .9365943 |
| #3 | .1071881 | .0242833 | 1.439067 | .1918214 | .0360293 | 84.61449 | .9339037 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0071821 | .0054332 | 125.2496 | .1348671 | .1089964 | .1738050 | 174.2336 |
| Stddev | .0000942 | .0000739 | .2196 | .0009490 | .0009982 | .0114218 | .7202 |
| %RSD | 1.311265 | 1.360981 | .1753065 | .7036442 | .9157826 | 6.571598 | .4133626 |
| #1 | .0072773 | .0054051 | 125.0304 | .1359436 | .1089694 | .1827559 | 173.4130 |
| #2 | .0071801 | .0055170 | 125.2489 | .1341516 | .1100077 | .1777182 | 174.5268 |
| #3 | .0070890 | .0053773 | 125.4696 | .1345062 | .1080119 | .1609410 | 174.7610 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 6.856279 | 33.69719 | .1315693 | -.011942 | .6634010 | .1989859 | 2.332385 |
| Stddev | .024875 | .21306 | .0007075 | .000893 | .0154679 | .0063359 | .001533 |
| %RSD | .3628037 | .6322810 | .5377307 | 7.480399 | 2.331606 | 3.184094 | .0657208 |
| #1 | 6.828632 | 33.55191 | .1321189 | -.011022 | .6802391 | .1932069 | 2.333374 |
| #2 | 6.863359 | 33.59788 | .1307710 | -.012806 | .6601408 | .1979900 | 2.333161 |
| #3 | 6.876846 | 33.94177 | .1318179 | -.011997 | .6498230 | .2057607 | 2.330619 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.034503 | 4.927864 | -.364423 | .0087555 | 1.408124 | 11.94028 | .0346488 |
| Stddev | .031641 | .006341 | .002632 | .0004459 | .002672 | .08783 | .0005868 |
| %RSD | .6284742 | .1286848 | .7221639 | 5.092371 | .1897413 | .7355445 | 1.693531 |
| #1 | 5.050763 | 4.933173 | -.364900 | .0091720 | 1.406034 | 11.84948 | .0341173 |
| #2 | 5.054707 | 4.920842 | -.361586 | .0082851 | 1.407202 | 11.94656 | .0352785 |
| #3 | 4.998038 | 4.929578 | -.366784 | .0088094 | 1.411134 | 12.02480 | .0345507 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5092-04A Acquired: 01/03/2025 19:04:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLP3A Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .9592156 | .0286845 | .0794901 |
| Stddev | .0030434 | .0005388 | .0034486 |
| %RSD | .3172771 | 1.878495 | 4.338356 |
| | | | |
| #1 | .9562121 | .0292555 | .0770271 |
| #2 | .9622973 | .0281850 | .0834314 |
| #3 | .9591376 | .0286130 | .0780120 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2137.292 | 21698.07 | 2106.549 | 1596.084 | 1959.952 |
| Stddev | 5.165 | 100.42 | 8.802 | 5.835 | 3.536 |
| %RSD | .2416446 | .4628049 | .4178369 | .3655826 | .1804173 |
| | | | | | |
| #1 | 2135.246 | 21631.78 | 2116.196 | 1589.425 | 1955.905 |
| #2 | 2133.463 | 21648.83 | 2104.494 | 1598.529 | 1961.510 |
| #3 | 2143.166 | 21813.61 | 2098.956 | 1600.299 | 1962.442 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5125-05A Acquired: 01/03/2025 19:08:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM94A Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3244857 | .0139587 | 3.863316 | .2588766 | .0614950 | 56.79902 |
| Stddev | .0009060 | .0043659 | .001963 | .0062280 | .0028474 | .17475 |
| %RSD | .2792228 | 31.27741 | .0508044 | 2.405771 | 4.630329 | .3076702 |
| #1 | .3241442 | .0148271 | 3.863112 | .2598470 | .0589738 | 56.97234 |
| #2 | .3255129 | .0092238 | 3.861464 | .2522205 | .0645833 | 56.62287 |
| #3 | .3238000 | .0178251 | 3.865373 | .2645625 | .0609279 | 56.80186 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.716641 | .0083981 | .0087980 | 187.5360 | .1866135 | .1100826 |
| Stddev | .012914 | .0001695 | .0002548 | .8639 | .0015512 | .0005775 |
| %RSD | .7523064 | 2.018623 | 2.896200 | .4606456 | .8312113 | .5245666 |
| #1 | 1.703275 | .0082733 | .0087719 | 186.6236 | .1877869 | .1097853 |
| #2 | 1.729051 | .0083298 | .0090648 | 188.3414 | .1848549 | .1097144 |
| #3 | 1.717598 | .0085911 | .0085572 | 187.6431 | .1871987 | .1107482 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.742197 | 222.5614 | 5.812003 | 41.11340 | .2217296 | -.014005 |
| Stddev | .013461 | .0689 | .014626 | .10943 | .0013617 | .001062 |
| %RSD | .7726179 | .0309541 | .2516497 | .2661756 | .6141251 | 7.584895 |
| #1 | 1.745868 | 222.4876 | 5.828642 | 41.02009 | .2203233 | -.014734 |
| #2 | 1.753441 | 222.5725 | 5.806185 | 41.08624 | .2218237 | -.012786 |
| #3 | 1.727281 | 222.6240 | 5.801181 | 41.23385 | .2230418 | -.014494 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.226045 | .2167055 | 8.113691 | 6.420531 | F 14.75952 | -.414809 |
| Stddev | .021012 | .0130331 | .057859 | .127129 | .01896 | .007891 |
| %RSD | 1.713769 | 6.014208 | .7131073 | 1.980040 | .1284668 | 1.902341 |
| #1 | 1.217942 | .2146586 | 8.129888 | 6.423858 | 14.77420 | -.418445 |
| #2 | 1.249901 | .2048169 | 8.049459 | 6.545964 | 14.73811 | -.405755 |
| #3 | 1.210291 | .2306409 | 8.161726 | 6.291771 | 14.76623 | -.420227 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5125-05A Acquired: 01/03/2025 19:08:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM94A Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0140225 | 5.216396 | 9.030288 | .5434328 | 1.292075 | .2986175 |
| Stddev | .0012515 | .011309 | .106855 | .0027469 | .003947 | .0011129 |
| %RSD | 8.925023 | .2167884 | 1.183297 | .5054772 | .3055102 | .3726834 |
| #1 | .0154328 | 5.219808 | 9.068895 | .5429798 | 1.287867 | .2988064 |
| #2 | .0135902 | 5.203775 | 8.909495 | .5409406 | 1.295696 | .2974223 |
| #3 | .0130444 | 5.225606 | 9.112474 | .5463781 | 1.292661 | .2996239 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0673833 |
| Stddev | .0034597 |
| %RSD | 5.134343 |
| #1 | .0666859 |
| #2 | .0643254 |
| #3 | .0711385 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2030.224 | 20723.04 | 2051.749 | 1526.051 | 1941.230 |
| Stddev | 2.631 | 56.02 | 7.154 | .480 | 1.681 |
| %RSD | .1295865 | .2703116 | .3486879 | .0314410 | .0866179 |
| #1 | 2027.850 | 20659.13 | 2049.265 | 1525.703 | 1940.083 |
| #2 | 2029.770 | 20763.61 | 2059.815 | 1526.598 | 1943.160 |
| #3 | 2033.052 | 20746.39 | 2046.169 | 1525.852 | 1940.448 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5131-05A Acquired: 01/03/2025 19:12:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMM6A Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6420652 | .0230882 | 4.420671 | .2473499 | .0518236 | 65.84083 |
| Stddev | .0069391 | .0025862 | .007684 | .0057176 | .0034451 | .04115 |
| %RSD | 1.080752 | 11.20125 | .1738135 | 2.311529 | 6.647825 | .0624963 |
| #1 | .6492824 | .0231664 | 4.419341 | .2518208 | .0490297 | 65.79841 |
| #2 | .6354424 | .0256343 | 4.413740 | .2493213 | .0556730 | 65.84351 |
| #3 | .6414707 | .0204638 | 4.428933 | .2409074 | .0507681 | 65.88058 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.529288 | .0075383 | .0256891 | 246.5040 | .2353713 | .1468463 |
| Stddev | .008336 | .0001570 | .0000288 | .9170 | .0005339 | .0003987 |
| %RSD | .3295771 | 2.082460 | .1120048 | .3720104 | .2268244 | .2715345 |
| #1 | 2.536723 | .0077141 | .0256629 | 247.1467 | .2351648 | .1471407 |
| #2 | 2.520276 | .0074887 | .0256844 | 245.4539 | .2359776 | .1470056 |
| #3 | 2.530866 | .0074121 | .0257199 | 246.9115 | .2349716 | .1463925 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.584577 | 229.2962 | 15.39986 | 49.79190 | .3952672 | -.008157 |
| Stddev | .008521 | .2412 | .01027 | .20386 | .0010692 | .000508 |
| %RSD | .5377327 | .1051727 | .0667126 | .4094162 | .2705048 | 6.232507 |
| #1 | 1.584151 | 229.5600 | 15.40391 | 49.56063 | .3957703 | -.007734 |
| #2 | 1.576277 | 229.2415 | 15.40749 | 49.86952 | .3940393 | -.008721 |
| #3 | 1.593303 | 229.0871 | 15.38818 | 49.94554 | .3959921 | -.008017 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.304035 | .1934484 | 10.39483 | 8.145675 | F 18.47318 | -.466521 |
| Stddev | .020922 | .0104460 | .04251 | .091712 | .02916 | .005361 |
| %RSD | 1.604426 | 5.399903 | .4089124 | 1.125901 | .1578636 | 1.149095 |
| #1 | 1.315803 | .1960313 | 10.37950 | 8.224111 | 18.48122 | -.465740 |
| #2 | 1.279879 | .2023606 | 10.44288 | 8.168076 | 18.44084 | -.461593 |
| #3 | 1.316423 | .1819532 | 10.36213 | 8.044837 | 18.49748 | -.472229 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5131-05A Acquired: 01/03/2025 19:12:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMM6A Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0237140 | 3.827072 | 10.22172 | .2610109 | .9408134 | .3918585 |
| Stddev | .0005165 | .009134 | .07198 | .0019211 | .0048680 | .0008171 |
| %RSD | 2.177834 | .2386751 | .7041838 | .7360274 | .5174222 | .2085249 |
| #1 | .0232824 | 3.832840 | 10.26855 | .2624147 | .9410537 | .3927849 |
| #2 | .0242862 | 3.816540 | 10.13884 | .2617965 | .9358298 | .3912402 |
| #3 | .0235735 | 3.831835 | 10.25777 | .2588215 | .9455569 | .3915503 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0862916 |
| Stddev | .0009035 |
| %RSD | 1.047081 |
| #1 | .0871383 |
| #2 | .0853403 |
| #3 | .0863963 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2116.325 | 21530.90 | 2140.337 | 1572.659 | 1904.685 |
| Stddev | 1.890 | 91.80 | 11.079 | 8.095 | 5.451 |
| %RSD | .0892832 | .4263595 | .5176513 | .5147450 | .2861860 |
| #1 | 2117.577 | 21620.86 | 2137.188 | 1577.900 | 1900.357 |
| #2 | 2117.246 | 21437.36 | 2152.651 | 1563.335 | 1910.807 |
| #3 | 2114.151 | 21534.47 | 2131.174 | 1576.741 | 1902.891 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-06 Acquired: 01/03/2025 19:15:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA1 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1831944 | -.019296 | 5.014699 | .0788453 | .0544126 | 57.55990 |
| Stddev | .0118273 | .004744 | .059075 | .0029555 | .0066479 | .14754 |
| %RSD | 6.456125 | 24.58736 | 1.178037 | 3.748543 | 12.21762 | .2563172 |
| #1 | .1750792 | -.022941 | 4.968147 | .0815623 | .0588746 | 57.42989 |
| #2 | .1777393 | -.013932 | 5.081155 | .0756983 | .0467721 | 57.52957 |
| #3 | .1967647 | -.021016 | 4.994795 | .0792752 | .0575910 | 57.72025 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.000001 | .0068067 | .0087229 | 199.3923 | .1860544 | .1165736 |
| Stddev | .003050 | .0000193 | .0002706 | .3811 | .0003698 | .0014167 |
| %RSD | .1525220 | .2828978 | 3.101959 | .1911222 | .1987395 | 1.215282 |
| #1 | 1.998533 | .0068155 | .0085337 | 199.0042 | .1862181 | .1150398 |
| #2 | 2.003508 | .0067847 | .0090328 | 199.4067 | .1863141 | .1178332 |
| #3 | 1.997962 | .0068201 | .0086020 | 199.7660 | .1856311 | .1168477 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6410103 | 190.4951 | 9.577617 | 45.23075 | .2462158 | -.008730 |
| Stddev | .0072897 | .1400 | .014748 | .31000 | .0011672 | .000624 |
| %RSD | 1.137216 | .0734679 | .1539838 | .6853634 | .4740561 | 7.143122 |
| #1 | .6447011 | 190.4611 | 9.577578 | 44.89791 | .2448803 | -.008629 |
| #2 | .6457165 | 190.3753 | 9.562889 | 45.51124 | .2470410 | -.009397 |
| #3 | .6326133 | 190.6489 | 9.592385 | 45.28310 | .2467260 | -.008163 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8660608 | .1855651 | 3.018341 | 5.870831 | F 15.17805 | -.371802 |
| Stddev | .0276087 | .0064151 | .018302 | .245064 | .17737 | .005095 |
| %RSD | 3.187849 | 3.457049 | .6063434 | 4.174262 | 1.168568 | 1.370360 |
| #1 | .8797344 | .1784971 | 2.997268 | 6.121256 | 15.07333 | -.371372 |
| #2 | .8841643 | .1910190 | 3.030252 | 5.631505 | 15.38284 | -.377098 |
| #3 | .8342838 | .1871791 | 3.027503 | 5.859733 | 15.07799 | -.366935 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-06 Acquired: 01/03/2025 19:15:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA1 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0143382 | 4.034086 | 5.330897 | .6801707 | 1.005541 | .3266179 |
| Stddev | .0004017 | .044586 | .033329 | .0090160 | .000947 | .0003655 |
| %RSD | 2.801940 | 1.105243 | .6252083 | 1.325555 | .0941898 | .1119036 |
| #1 | .0146093 | 3.999655 | 5.328181 | .6744064 | 1.005105 | .3263707 |
| #2 | .0145286 | 4.084450 | 5.365501 | .6905608 | 1.006627 | .3270377 |
| #3 | .0138767 | 4.018154 | 5.299009 | .6755450 | 1.004890 | .3264452 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0885291 |
| Stddev | .0018768 |
| %RSD | 2.119953 |
| #1 | .0891335 |
| #2 | .0864246 |
| #3 | .0900292 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2019.048 | 20811.33 | 2058.600 | 1538.080 | 1872.555 |
| Stddev | 16.214 | 153.24 | 8.977 | 5.240 | 19.081 |
| %RSD | .8030518 | .7363529 | .4360541 | .3407090 | 1.019008 |
| #1 | 2032.219 | 20659.43 | 2051.728 | 1540.162 | 1886.697 |
| #2 | 2000.939 | 20965.88 | 2055.315 | 1541.958 | 1850.851 |
| #3 | 2023.985 | 20808.69 | 2068.756 | 1532.118 | 1880.116 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-07 Acquired: 01/03/2025 19:19:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA2 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2721438 | -.076652 | 2.392462 | .1965354 | .0933521 | 49.09069 |
| Stddev | .0038225 | .003150 | .008725 | .0033170 | .0039578 | .11322 |
| %RSD | 1.404593 | 4.109760 | .3646683 | 1.687720 | 4.239648 | .2306425 |
| #1 | .2740373 | -.074179 | 2.383386 | .2001040 | .0969584 | 48.97071 |
| #2 | .2746499 | -.075579 | 2.393213 | .1935466 | .0939802 | 49.10570 |
| #3 | .2677441 | -.080199 | 2.400786 | .1959555 | .0891179 | 49.19566 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.319266 | .0080986 | .0116621 | 280.5206 | .1309546 | .1224283 |
| Stddev | .006150 | .0002550 | .0000104 | .7108 | .0013719 | .0004159 |
| %RSD | .2651626 | 3.149272 | .0895424 | .2533843 | 1.047646 | .3397167 |
| #1 | 2.326366 | .0083028 | .0116718 | 280.7211 | .1303406 | .1228329 |
| #2 | 2.315587 | .0078127 | .0116510 | 279.7311 | .1325263 | .1224500 |
| #3 | 2.315846 | .0081803 | .0116636 | 281.1096 | .1299968 | .1220019 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4624545 | 400.5209 | 14.62030 | 58.64919 | .2330154 | -.024112 |
| Stddev | .0132124 | .7021 | .04025 | .35859 | .0002085 | .000621 |
| %RSD | 2.857023 | .1753007 | .2752741 | .6114225 | .0894657 | 2.575152 |
| #1 | .4777070 | 400.3641 | 14.60668 | 58.44812 | .2331256 | -.024207 |
| #2 | .4545296 | 399.9104 | 14.58863 | 58.43625 | .2331457 | -.023449 |
| #3 | .4551269 | 401.2881 | 14.66559 | 59.06320 | .2327750 | -.024680 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.051816 | .2023125 | 2.718805 | 5.069343 | F 15.90156 | -.876533 |
| Stddev | .034574 | .0013848 | .010395 | .066279 | .03513 | .008061 |
| %RSD | 3.287091 | .6844760 | .3823533 | 1.307452 | .2209162 | .9196423 |
| #1 | 1.014439 | .2029558 | 2.707126 | 5.072116 | 15.86133 | -.867485 |
| #2 | 1.058356 | .2007231 | 2.727045 | 5.001721 | 15.91720 | -.879161 |
| #3 | 1.082653 | .2032586 | 2.722245 | 5.134192 | 15.92616 | -.882951 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-07 Acquired: 01/03/2025 19:19:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA2 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0224147 | 2.976785 | 3.916225 | .2329141 | .6963759 | .0673483 |
| Stddev | .0002794 | .008615 | .018256 | .0017744 | .0075461 | .0010519 |
| %RSD | 1.246705 | .2894205 | .4661598 | .7618466 | 1.083620 | 1.561892 |
| #1 | .0221193 | 2.986198 | 3.896423 | .2341919 | .7030495 | .0685629 |
| #2 | .0224502 | 2.969291 | 3.919866 | .2336623 | .6881873 | .0667486 |
| #3 | .0226748 | 2.974866 | 3.932385 | .2308881 | .6978911 | .0667333 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0810184 |
| Stddev | .0017222 |
| %RSD | 2.125736 |
| #1 | .0797417 |
| #2 | .0829772 |
| #3 | .0803362 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2061.336 | 21131.49 | 2085.146 | 1549.132 | 1884.632 |
| Stddev | 8.555 | 171.88 | 2.185 | 6.360 | 4.868 |
| %RSD | .4150413 | .8133878 | .1047852 | .4105740 | .2582896 |
| #1 | 2068.737 | 20983.47 | 2085.036 | 1544.874 | 1885.854 |
| #2 | 2063.301 | 21091.01 | 2083.019 | 1546.079 | 1888.773 |
| #3 | 2051.968 | 21320.01 | 2087.385 | 1556.444 | 1879.270 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV104 Acquired: 01/03/2025 19:23:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV104 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.087542 | 4.956179 | 25.28618 | 4.999079 | 4.982099 | 408.4619 | 10.41676 |
| Stddev | .007306 | .014924 | .02660 | .005344 | .022119 | 2.1276 | .04267 |
| %RSD | .1435985 | .3011105 | .1051834 | .1069032 | .4439636 | .5208859 | .4095904 |
| | | | | | | | |
| #1 | 5.081868 | 4.944181 | 25.25625 | 4.994983 | 4.968743 | 406.0609 | 10.38131 |
| #2 | 5.084973 | 4.951466 | 25.30711 | 4.997130 | 4.969924 | 409.2115 | 10.40485 |
| #3 | 5.095785 | 4.972890 | 25.29519 | 5.005124 | 5.007630 | 410.1133 | 10.46411 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5260932 | 2.543808 | 416.2621 | 15.81694 | 2.553795 | 15.54632 | 413.4644 |
| Stddev | .0008966 | .000449 | 2.1847 | .08538 | .001069 | .08582 | 1.6437 |
| %RSD | .1704195 | .0176538 | .5248324 | .5397920 | .0418560 | .5520259 | .3975385 |
| | | | | | | | |
| #1 | .5254925 | 2.543602 | 414.5438 | 15.77859 | 2.552792 | 15.45516 | 411.7820 |
| #2 | .5256633 | 2.543500 | 415.5217 | 15.91477 | 2.553673 | 15.55824 | 413.5448 |
| #3 | .5271238 | 2.544324 | 418.7207 | 15.75747 | 2.554920 | 15.62555 | 415.0664 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 15.44618 | 411.0968 | 2.564317 | 1.280926 | 419.7942 | 2.580052 | 14.94727 |
| Stddev | .06020 | 2.0392 | .002506 | .005680 | 2.8521 | .024939 | .12960 |
| %RSD | .3897378 | .4960349 | .0977389 | .4434144 | .6793928 | .9665980 | .8670415 |
| | | | | | | | |
| #1 | 15.37667 | 408.8732 | 2.561471 | 1.279524 | 417.1627 | 2.595021 | 14.83893 |
| #2 | 15.48114 | 411.5378 | 2.565284 | 1.287175 | 419.3952 | 2.551263 | 15.09084 |
| #3 | 15.48072 | 412.8794 | 2.566195 | 1.276078 | 422.8248 | 2.593873 | 14.91204 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 156.6631 | 5.041529 | 4.566706 | 4.972645 | 5.081372 | 5.174862 | 5.117885 |
| Stddev | .8308 | .015373 | .004144 | .013802 | .008358 | .010889 | .012115 |
| %RSD | .5303254 | .3049187 | .0907349 | .2775489 | .1644867 | .2104202 | .2367181 |
| | | | | | | | |
| #1 | 156.0343 | 5.024745 | 4.565520 | 4.972183 | 5.075958 | 5.168593 | 5.109178 |
| #2 | 156.3500 | 5.054925 | 4.563286 | 4.959080 | 5.077161 | 5.168558 | 5.112757 |
| #3 | 157.6050 | 5.044916 | 4.571314 | 4.986671 | 5.090999 | 5.187436 | 5.131721 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV104 Acquired: 01/03/2025 19:23:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV104 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 5.170353 | 4.917512 | 5.013810 |
| Stddev | .019760 | .029357 | .028371 |
| %RSD | .3821821 | .5969818 | .5658645 |
| | | | |
| #1 | 5.161518 | 4.884732 | 4.988536 |
| #2 | 5.156552 | 4.926425 | 5.008396 |
| #3 | 5.192989 | 4.941379 | 5.044498 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1524.035 | 16551.81 | 1678.550 | 1136.547 | 1634.004 |
| Stddev | .091 | 80.93 | 8.731 | 10.852 | 2.772 |
| %RSD | .0059805 | .4889404 | .5201501 | .9547833 | .1696387 |
| | | | | | |
| #1 | 1524.086 | 16632.29 | 1684.183 | 1148.118 | 1633.372 |
| #2 | 1523.930 | 16470.44 | 1682.975 | 1126.597 | 1631.602 |
| #3 | 1524.089 | 16552.68 | 1668.493 | 1134.928 | 1637.037 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB104 Acquired: 01/03/2025 19:27:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB104 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0020100 | -.002652 | .0024077 | .0049582 | -.000040 | .0735298 | -.004944 |
| Stddev | .0026339 | .002157 | .0027236 | .0083054 | .002361 | .0556264 | .001925 |
| %RSD | 131.0378 | 81.33095 | 113.1205 | 167.5091 | 5873.772 | 75.65154 | 38.94411 |
| #1 | -.000480 | -.004610 | .0036063 | -.000997 | .002476 | .1320313 | -.005582 |
| #2 | .004768 | -.000339 | .0043263 | .001425 | -.002205 | .0213121 | -.006469 |
| #3 | .001742 | -.003008 | -.000710 | .014446 | -.000391 | .0672460 | -.002780 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0000493 | .0000108 | -.052579 | .0003286 | -.000333 | -.011125 | .0242653 |
| Stddev | .0000398 | .0000790 | .012193 | .0006030 | .000268 | .007113 | .0129248 |
| %RSD | 80.73092 | 729.3408 | 23.19010 | 183.5118 | 80.39799 | 63.93557 | 53.26441 |
| #1 | .0000847 | -.000022 | -.038723 | -.000055 | -.000071 | -.016993 | .0380508 |
| #2 | .0000062 | .000101 | -.061669 | .001024 | -.000322 | -.013168 | .0124209 |
| #3 | .0000571 | -.000047 | -.057346 | .000017 | -.000607 | -.003214 | .0223241 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0043761 | -.117474 | -.000140 | .0007001 | .1050003 | -.009107 | .0008442 |
| Stddev | .0009139 | .067046 | .001117 | .0005937 | .0192550 | .010788 | .0005052 |
| %RSD | 20.88295 | 57.07333 | 798.6326 | 84.80366 | 18.33800 | 118.4540 | 59.84241 |
| #1 | .0033236 | -.103689 | .000017 | .0000235 | .1247261 | -.009508 | .0014273 |
| #2 | .0048364 | -.190342 | .000890 | .0009428 | .1040211 | -.019689 | .0005376 |
| #3 | .0049683 | -.058392 | -.001327 | .0011340 | .0862536 | .001875 | .0005678 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3911145 | -.001692 | .0099518 | .0001074 | -.010772 | -.002770 | -.000508 |
| Stddev | .2171316 | .002981 | .0013110 | .0006924 | .004590 | .000695 | .001747 |
| %RSD | 55.51613 | 176.1447 | 13.17339 | 644.4448 | 42.61025 | 25.09443 | 343.7487 |
| #1 | .6066822 | .001039 | .0113355 | .0006778 | -.012687 | -.003557 | -.001129 |
| #2 | .3942092 | -.001244 | .0097917 | .0003074 | -.014094 | -.002242 | -.001861 |
| #3 | .1724520 | -.004872 | .0087282 | -.000663 | -.005535 | -.002509 | .001465 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB104 Acquired: 01/03/2025 19:27:11 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB104 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.008857 | -.000337 | .0042710 |
| Stddev | .003929 | .000077 | .0024919 |
| %RSD | 44.35420 | 22.72321 | 58.34489 |
| | | | |
| #1 | -.012640 | -.000392 | .0069712 |
| #2 | -.009134 | -.000249 | .0037818 |
| #3 | -.004798 | -.000369 | .0020600 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1854.419 | 18978.95 | 1846.279 | 1407.942 | 2049.421 |
| Stddev | 3.827 | 30.76 | 15.956 | 2.830 | 3.364 |
| %RSD | .2063853 | .1620832 | .8642432 | .2009866 | .1641230 |
| | | | | | |
| #1 | 1850.757 | 19001.32 | 1861.277 | 1411.178 | 2045.638 |
| #2 | 1854.109 | 18991.65 | 1829.512 | 1405.931 | 2050.549 |
| #3 | 1858.392 | 18943.87 | 1848.050 | 1406.718 | 2052.075 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-08 Acquired: 01/03/2025 19:31:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA3 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3148031 | -.010936 | 11.46569 | .0912461 | .0457756 | 65.88404 |
| Stddev | .0098325 | .002369 | .01732 | .0034966 | .0002714 | .31288 |
| %RSD | 3.123368 | 21.66543 | .1510359 | 3.832094 | .5929534 | .4748938 |
| #1 | .3251497 | -.008971 | 11.47871 | .0950862 | .0459804 | 65.64287 |
| #2 | .3136779 | -.010269 | 11.47232 | .0904063 | .0454677 | 66.23759 |
| #3 | .3055816 | -.013567 | 11.44604 | .0882459 | .0458786 | 65.77168 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.959841 | .0074221 | .0132880 | 395.9940 | .1906727 | .1589280 |
| Stddev | .017382 | .0002126 | .0000311 | 1.0881 | .0016124 | .0001226 |
| %RSD | .3504498 | 2.864710 | .2343456 | .2747709 | .8456605 | .0771453 |
| #1 | 4.975290 | .0074201 | .0133162 | 396.2650 | .1891983 | .1590526 |
| #2 | 4.963212 | .0072106 | .0132931 | 396.9209 | .1923946 | .1589239 |
| #3 | 4.941021 | .0076358 | .0132546 | 394.7960 | .1904251 | .1588075 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8616319 | 206.9375 | 17.47669 | 45.21871 | .2645322 | -.007405 |
| Stddev | .0110234 | .7432 | .07463 | .21407 | .0014697 | .001188 |
| %RSD | 1.279368 | .3591395 | .4270475 | .4734102 | .5556046 | 16.03907 |
| #1 | .8726055 | 206.3511 | 17.46962 | 44.97707 | .2650556 | -.007973 |
| #2 | .8617311 | 207.7733 | 17.55461 | 45.38461 | .2656687 | -.008202 |
| #3 | .8505593 | 206.6882 | 17.40585 | 45.29446 | .2628724 | -.006040 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8716744 | .2266496 | 5.277286 | 12.22598 | F 17.47592 | -.411085 |
| Stddev | .0073601 | .0146150 | .007891 | .25305 | .04008 | .004646 |
| %RSD | .8443583 | 6.448268 | .1495249 | 2.069755 | .2293589 | 1.130186 |
| #1 | .8792829 | .2370841 | 5.268467 | 12.45802 | 17.46783 | -.416284 |
| #2 | .8645909 | .2099459 | 5.283681 | 11.95617 | 17.51942 | -.407341 |
| #3 | .8711493 | .2329187 | 5.279709 | 12.26376 | 17.44049 | -.409628 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-08 Acquired: 01/03/2025 19:31:13 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA3 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0141671 | 5.466608 | 4.699641 | .3548262 | .9326194 | .3419938 |
| Stddev | .0002854 | .010739 | .024777 | .0013590 | .0060512 | .0017708 |
| %RSD | 2.014432 | .1964496 | .5272121 | .3830148 | .6488355 | .5177791 |
| #1 | .0141481 | 5.474458 | 4.724772 | .3550169 | .9266379 | .3407846 |
| #2 | .0144615 | 5.470996 | 4.698915 | .3560798 | .9387379 | .3440263 |
| #3 | .0138917 | 5.454369 | 4.675234 | .3533819 | .9324824 | .3411705 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0853967 |
| Stddev | .0008676 |
| %RSD | 1.015923 |
| #1 | .0859107 |
| #2 | .0858845 |
| #3 | .0843951 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2139.519 | 21867.80 | 2166.878 | 1606.959 | 1846.842 |
| Stddev | 1.813 | 61.14 | 4.434 | 6.590 | .220 |
| %RSD | .0847372 | .2795794 | .2046080 | .4100815 | .0119282 |
| #1 | 2141.590 | 21918.54 | 2161.877 | 1614.413 | 1847.049 |
| #2 | 2138.753 | 21799.92 | 2168.428 | 1604.553 | 1846.611 |
| #3 | 2138.215 | 21884.92 | 2170.327 | 1601.909 | 1846.867 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-09 Acquired: 01/03/2025 19:35:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA4 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3532392 | -.020362 | 8.231576 | .0929794 | .0465412 | 67.22282 |
| Stddev | .0043891 | .004285 | .011326 | .0039131 | .0026631 | .07595 |
| %RSD | 1.242533 | 21.04223 | .1375918 | 4.208595 | 5.721951 | .1129833 |
| #1 | .3509657 | -.017563 | 8.234853 | .0937650 | .0493417 | 67.14057 |
| #2 | .3582987 | -.018230 | 8.218973 | .0887330 | .0462409 | 67.23759 |
| #3 | .3504533 | -.025295 | 8.240902 | .0964400 | .0440410 | 67.29030 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.757878 | .0074608 | .0138810 | 436.5313 | .1869201 | .1634158 |
| Stddev | .011813 | .0002852 | .0000245 | 1.3426 | .0008850 | .0006558 |
| %RSD | .2482869 | 3.822846 | .1762122 | .3075535 | .4734794 | .4013287 |
| #1 | 4.749931 | .0077724 | .0139022 | 435.3199 | .1876271 | .1626601 |
| #2 | 4.752249 | .0072127 | .0138542 | 436.2992 | .1872058 | .1637500 |
| #3 | 4.771453 | .0073972 | .0138866 | 437.9748 | .1859276 | .1638371 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.203949 | 215.7226 | 17.18202 | 45.64861 | .2699707 | -.009285 |
| Stddev | .001959 | .6388 | .04162 | .22627 | .0027387 | .001441 |
| %RSD | .1627315 | .2961347 | .2422368 | .4956676 | 1.014452 | 15.51509 |
| #1 | 1.205741 | 215.1601 | 17.14410 | 45.42667 | .2704233 | -.008089 |
| #2 | 1.204248 | 215.5906 | 17.17541 | 45.64022 | .2670339 | -.010884 |
| #3 | 1.201857 | 216.4171 | 17.22655 | 45.87896 | .2724550 | -.008882 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .9499926 | .2233738 | 5.035504 | 10.95891 | F 14.33752 | -.433531 |
| Stddev | .0191356 | .0131338 | .016709 | .07261 | .02865 | .003244 |
| %RSD | 2.014291 | 5.879727 | .3318306 | .6625376 | .1998405 | .7482487 |
| #1 | .9719148 | .2289616 | 5.018453 | 10.99245 | 14.36774 | -.432154 |
| #2 | .9414264 | .2083701 | 5.036209 | 11.00869 | 14.31075 | -.431203 |
| #3 | .9366366 | .2327896 | 5.051849 | 10.87560 | 14.33407 | -.437236 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-09 Acquired: 01/03/2025 19:35:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA4 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0137338 | 4.112936 | 5.322613 | .2188520 | .8991224 | .3850480 |
| Stddev | .0007908 | .009748 | .020849 | .0021423 | .0019670 | .0007755 |
| %RSD | 5.758123 | .2370190 | .3917077 | .9788837 | .2187723 | .2013934 |
| #1 | .0131565 | 4.123777 | 5.345339 | .2190524 | .8973115 | .3848239 |
| #2 | .0146352 | 4.104890 | 5.304370 | .2208871 | .8988404 | .3844093 |
| #3 | .0134098 | 4.110142 | 5.318132 | .2166166 | .9012151 | .3859109 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0906878 |
| Stddev | .0046119 |
| %RSD | 5.085481 |
| #1 | .0952078 |
| #2 | .0859891 |
| #3 | .0908666 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2114.768 | 21735.21 | 2166.303 | 1598.459 | 1840.246 |
| Stddev | .771 | 21.34 | 7.843 | 3.548 | 2.588 |
| %RSD | .0364725 | .0981795 | .3620264 | .2219855 | .1406229 |
| #1 | 2115.590 | 21739.37 | 2158.162 | 1600.964 | 1842.192 |
| #2 | 2114.652 | 21712.10 | 2173.809 | 1600.015 | 1841.237 |
| #3 | 2114.061 | 21754.17 | 2166.937 | 1594.398 | 1837.309 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-10 Acquired: 01/03/2025 19:38:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA5 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0676373 | .0064586 | 1.965114 | .0196543 | .0279439 | 34.73714 | .5889294 |
| Stddev | .0076102 | .0029790 | .001450 | .0038979 | .0056140 | .32495 | .0059252 |
| %RSD | 11.25154 | 46.12481 | .0737908 | 19.83246 | 20.09027 | .9354528 | 1.006103 |
| | | | | | | | |
| #1 | .0720961 | .0092755 | 1.964617 | .0238270 | .0239054 | 34.82560 | .5922966 |
| #2 | .0588501 | .0033404 | 1.963978 | .0161066 | .0343546 | 35.00870 | .5924038 |
| #3 | .0719658 | .0067601 | 1.966747 | .0190294 | .0255716 | 34.37712 | .5820878 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0039279 | .0163357 | 676.9417 | .2266446 | .0849947 | .2745682 | 117.0210 |
| Stddev | .0001252 | .0001788 | 6.5835 | .0018460 | .0001120 | .0095818 | 1.2361 |
| %RSD | 3.188086 | 1.094697 | .9725344 | .8144955 | .1317100 | 3.489777 | 1.056286 |
| | | | | | | | |
| #1 | .0039936 | .0162290 | 678.8471 | .2279287 | .0850506 | .2812374 | 117.3151 |
| #2 | .0040066 | .0165422 | 682.3623 | .2245291 | .0850677 | .2635882 | 118.0835 |
| #3 | .0037835 | .0162360 | 669.6156 | .2274761 | .0848658 | .2788789 | 115.6644 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.322934 | 346.4269 | .1606434 | -.005381 | 1.453789 | .1351311 | 2.845066 |
| Stddev | .049990 | 3.0719 | .0013088 | .001015 | .011899 | .0162315 | .019392 |
| %RSD | .9391493 | .8867303 | .8147382 | 18.86236 | .8184560 | 12.01167 | .6815931 |
| | | | | | | | |
| #1 | 5.346972 | 347.4979 | .1605547 | -.005395 | 1.441902 | .1483651 | 2.854878 |
| #2 | 5.356364 | 348.8199 | .1619944 | -.004359 | 1.465700 | .1170203 | 2.822729 |
| #3 | 5.265465 | 342.9629 | .1593812 | -.006389 | 1.453766 | .1400079 | 2.857591 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.905257 | 9.294927 | -.207650 | .0102698 | 9.264105 | 3.670527 | .0578213 |
| Stddev | .267081 | .016535 | .003032 | .0003102 | .018748 | .018855 | .0024801 |
| %RSD | 6.839011 | .1778914 | 1.460222 | 3.020468 | .2023747 | .5136798 | 4.289299 |
| | | | | | | | |
| #1 | 3.830206 | 9.313600 | -.210842 | .0106227 | 9.269038 | 3.689458 | .0597019 |
| #2 | 4.201835 | 9.282143 | -.204807 | .0101468 | 9.279893 | 3.670375 | .0550106 |
| #3 | 3.683731 | 9.289038 | -.207302 | .0100400 | 9.243383 | 3.651749 | .0587514 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-10 Acquired: 01/03/2025 19:38:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA5 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .5612697 | .2319926 | .0468865 |
| Stddev | .0122513 | .0021238 | .0034383 |
| %RSD | 2.182791 | .9154385 | 7.333264 |
| | | | |
| #1 | .5625328 | .2314816 | .0432832 |
| #2 | .5728406 | .2343253 | .0501319 |
| #3 | .5484357 | .2301710 | .0472444 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1813.510 | 18778.62 | 1887.192 | 1362.160 | 1693.705 |
| Stddev | 2.026 | 52.00 | 17.187 | 4.321 | 3.731 |
| %RSD | .1117220 | .2769171 | .9107029 | .3172189 | .2202723 |
| | | | | | |
| #1 | 1815.327 | 18727.76 | 1876.824 | 1357.603 | 1694.602 |
| #2 | 1811.325 | 18776.41 | 1877.721 | 1366.198 | 1689.607 |
| #3 | 1813.879 | 18831.69 | 1907.031 | 1362.680 | 1696.905 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-11 Acquired: 01/03/2025 19:42:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA6 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0988285 | -.006948 | 2.488129 | .0497294 | .0452866 | 50.36180 |
| Stddev | .0068187 | .004807 | .006801 | .0101836 | .0031997 | .11807 |
| %RSD | 6.899557 | 69.18829 | .2733522 | 20.47794 | 7.065506 | .2344533 |
| #1 | .0992198 | -.001405 | 2.495119 | .0436748 | .0434197 | 50.49024 |
| #2 | .1054432 | -.009981 | 2.487733 | .0440269 | .0489813 | 50.33719 |
| #3 | .0918226 | -.009457 | 2.481534 | .0614866 | .0434589 | 50.25798 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .9636194 | .0054526 | .0195412 | 553.6206 | .3864508 | .1043953 |
| Stddev | .0043568 | .0001457 | .0000861 | 3.3374 | .0005665 | .0008711 |
| %RSD | .4521262 | 2.672129 | .4407709 | .6028260 | .1465914 | .8344607 |
| #1 | .9658170 | .0054726 | .0194612 | 555.7021 | .3862369 | .1035607 |
| #2 | .9664397 | .0052979 | .0196324 | 555.3885 | .3860225 | .1043264 |
| #3 | .9586015 | .0055872 | .0195300 | 549.7712 | .3870932 | .1052988 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3697956 | 159.3140 | 6.862706 | 286.7733 | .2326522 | -.009343 |
| Stddev | .0101560 | .5459 | .039399 | 1.2653 | .0014978 | .002307 |
| %RSD | 2.746371 | .3426642 | .5741027 | .4412119 | .6438018 | 24.69403 |
| #1 | .3792727 | 159.5687 | 6.884360 | 287.2070 | .2321098 | -.009981 |
| #2 | .3590752 | 159.6861 | 6.886528 | 287.7647 | .2343456 | -.006784 |
| #3 | .3710389 | 158.6873 | 6.817229 | 285.3482 | .2315011 | -.011264 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.120864 | .1555352 | 3.671621 | 5.024721 | F 12.06635 | -.308807 |
| Stddev | .011100 | .0149262 | .022976 | .239843 | .02147 | .009555 |
| %RSD | .9902994 | 9.596655 | .6257854 | 4.773259 | .1779136 | 3.094108 |
| #1 | 1.130000 | .1634488 | 3.683415 | 4.748499 | 12.08965 | -.316779 |
| #2 | 1.108511 | .1383186 | 3.686307 | 5.180176 | 12.06201 | -.311426 |
| #3 | 1.124081 | .1648382 | 3.645143 | 5.145487 | 12.04738 | -.298215 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-11 Acquired: 01/03/2025 19:42:33 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA6 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0149970 | 10.28478 | 4.809450 | .0911160 | .7798744 | .1861376 |
| Stddev | .0008155 | .03847 | .052663 | .0024661 | .0088579 | .0013019 |
| %RSD | 5.437553 | .3740640 | 1.094982 | 2.706587 | 1.135804 | .6994012 |
| #1 | .0147366 | 10.30888 | 4.847404 | .0889195 | .7871839 | .1871844 |
| #2 | .0159108 | 10.30504 | 4.831619 | .0937837 | .7824156 | .1865486 |
| #3 | .0143435 | 10.24041 | 4.749327 | .0906449 | .7700237 | .1846799 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0692538 |
| Stddev | .0038819 |
| %RSD | 5.605268 |
| #1 | .0649718 |
| #2 | .0702470 |
| #3 | .0725426 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1848.564 | 19264.95 | 1918.847 | 1401.869 | 1697.541 |
| Stddev | .940 | 13.27 | 24.587 | 7.223 | 2.207 |
| %RSD | .0508583 | .0688818 | 1.281363 | .5152597 | .1300109 |
| #1 | 1849.257 | 19251.05 | 1904.018 | 1398.288 | 1695.223 |
| #2 | 1847.494 | 19277.48 | 1905.294 | 1397.137 | 1699.617 |
| #3 | 1848.941 | 19266.31 | 1947.228 | 1410.183 | 1697.782 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-12 Acquired: 01/03/2025 19:46:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA7 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1145384 | -.012466 | 2.994337 | .0598399 | .0435281 | 47.72729 |
| Stddev | .0049045 | .001891 | .004091 | .0087330 | .0051041 | .25786 |
| %RSD | 4.281923 | 15.16499 | .1366333 | 14.59394 | 11.72598 | .5402738 |
| #1 | .1095009 | -.010489 | 2.998901 | .0647798 | .0488397 | 47.61671 |
| #2 | .1192980 | -.014256 | 2.993111 | .0497566 | .0386606 | 47.54316 |
| #3 | .1148164 | -.012654 | 2.990998 | .0649834 | .0430840 | 48.02199 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8842836 | .0063763 | .0180925 | 478.5755 | .1985855 | .0998964 |
| Stddev | .0032161 | .0000767 | .0000320 | 1.5116 | .0004793 | .0003726 |
| %RSD | .3636984 | 1.202653 | .1770290 | .3158617 | .2413699 | .3729782 |
| #1 | .8877686 | .0063846 | .0181253 | 477.6546 | .1982075 | .0995878 |
| #2 | .8814300 | .0062958 | .0180911 | 477.7519 | .1991246 | .1003103 |
| #3 | .8836522 | .0064485 | .0180613 | 480.3201 | .1984244 | .0997910 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4346327 | 174.2389 | 6.579385 | 229.6043 | .2490490 | -.009720 |
| Stddev | .0056670 | .6327 | .041888 | 1.3999 | .0005533 | .000632 |
| %RSD | 1.303867 | .3631078 | .6366563 | .6097072 | .2221867 | 6.506424 |
| #1 | .4290255 | 173.8319 | 6.555145 | 228.6171 | .2496874 | -.009013 |
| #2 | .4403577 | 173.9170 | 6.555257 | 228.9894 | .2487531 | -.010231 |
| #3 | .4345148 | 174.9678 | 6.627753 | 231.2064 | .2487065 | -.009916 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.119385 | .1606493 | 4.227176 | 5.442648 | F 10.38159 | -.330694 |
| Stddev | .021332 | .0073861 | .023962 | .139710 | .00760 | .004119 |
| %RSD | 1.905651 | 4.597629 | .5668589 | 2.566941 | .0732375 | 1.245431 |
| #1 | 1.101232 | .1690569 | 4.223898 | 5.371237 | 10.38788 | -.326366 |
| #2 | 1.114043 | .1552052 | 4.205022 | 5.603630 | 10.38376 | -.331152 |
| #3 | 1.142880 | .1576859 | 4.252608 | 5.353078 | 10.37314 | -.334565 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-12 Acquired: 01/03/2025 19:46:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA7 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0147780 | 8.750338 | 4.454114 | .0996955 | .7449775 | .2117785 |
| Stddev | .0009887 | .026596 | .032729 | .0021954 | .0048585 | .0006100 |
| %RSD | 6.690348 | .3039449 | .7347988 | 2.202074 | .6521652 | .2880524 |
| #1 | .0158805 | 8.777459 | 4.420402 | .1019244 | .7403185 | .2117933 |
| #2 | .0139699 | 8.749257 | 4.456176 | .0975353 | .7446005 | .2111611 |
| #3 | .0144838 | 8.724299 | 4.485762 | .0996267 | .7500135 | .2123809 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0681535 |
| Stddev | .0013379 |
| %RSD | 1.962999 |
| #1 | .0696496 |
| #2 | .0677391 |
| #3 | .0670719 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1894.009 | 19575.24 | 1955.409 | 1426.112 | 1758.272 |
| Stddev | 3.909 | 9.92 | 12.820 | 5.377 | 3.737 |
| %RSD | .2063624 | .0506846 | .6555990 | .3770109 | .2125263 |
| #1 | 1898.485 | 19568.42 | 1967.411 | 1425.120 | 1762.576 |
| #2 | 1891.270 | 19586.62 | 1956.911 | 1431.916 | 1755.857 |
| #3 | 1892.271 | 19570.69 | 1941.904 | 1421.301 | 1756.382 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-13 Acquired: 01/03/2025 19:50:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMF2 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2045530 | -.014430 | 2.184633 | .1111083 | .0436852 | 71.75269 |
| Stddev | .0075017 | .003386 | .009160 | .0003506 | .0003168 | .15360 |
| %RSD | 3.667362 | 23.46642 | .4192856 | .3155511 | .7252464 | .2140756 |
| #1 | .2102399 | -.014492 | 2.174066 | .1114684 | .0440489 | 71.85860 |
| #2 | .1960509 | -.011014 | 2.189527 | .1110885 | .0434691 | 71.82294 |
| #3 | .2073682 | -.017785 | 2.190307 | .1107680 | .0435376 | 71.57652 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.642913 | .0072991 | .0076661 | 220.4744 | .1533445 | .1478147 |
| Stddev | .000585 | .0001436 | .0002305 | .5430 | .0015115 | .0007083 |
| %RSD | .0356172 | 1.966956 | 3.006541 | .2463030 | .9857026 | .4791504 |
| #1 | 1.642898 | .0073295 | .0077080 | 220.4705 | .1525561 | .1485518 |
| #2 | 1.643506 | .0074250 | .0074176 | 221.0194 | .1523902 | .1471393 |
| #3 | 1.642336 | .0071428 | .0078728 | 219.9333 | .1550872 | .1477529 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5048733 | 217.3634 | 23.51210 | 31.01841 | .1909560 | -.009195 |
| Stddev | .0016797 | .4272 | .07765 | .17569 | .0007103 | .001551 |
| %RSD | .3326897 | .1965472 | .3302406 | .5663928 | .3719766 | 16.86605 |
| #1 | .5039535 | 217.0424 | 23.50253 | 31.12281 | .1904948 | -.009345 |
| #2 | .5068119 | 217.8483 | 23.59409 | 31.11685 | .1905991 | -.007575 |
| #3 | .5038544 | 217.1995 | 23.43968 | 30.81558 | .1917739 | -.010666 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6758330 | .1959952 | 1.483779 | 9.248624 | F 12.24292 | -.464855 |
| Stddev | .0106549 | .0124036 | .009822 | .012418 | .03443 | .000453 |
| %RSD | 1.576562 | 6.328513 | .6619698 | .1342685 | .2812614 | .0973649 |
| #1 | .6812417 | .1908014 | 1.481305 | 9.260341 | 12.20435 | -.464340 |
| #2 | .6635585 | .2101514 | 1.475431 | 9.235607 | 12.27055 | -.465035 |
| #3 | .6826987 | .1870328 | 1.494602 | 9.249924 | 12.25387 | -.465190 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-13 Acquired: 01/03/2025 19:50:06 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMF2 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0131673 | 3.238813 | 4.344290 | .1930161 | .8096846 | .1453083 |
| Stddev | .0004682 | .012715 | .010640 | .0020646 | .0055951 | .0004381 |
| %RSD | 3.555706 | .3925740 | .2449215 | 1.069649 | .6910245 | .3014796 |
| #1 | .0135178 | 3.246493 | 4.350963 | .1909773 | .8034507 | .1456668 |
| #2 | .0126356 | 3.224137 | 4.349888 | .1951056 | .8142710 | .1448200 |
| #3 | .0133485 | 3.245809 | 4.332020 | .1929653 | .8113321 | .1454381 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0779771 |
| Stddev | .0018761 |
| %RSD | 2.405924 |
| #1 | .0763750 |
| #2 | .0775153 |
| #3 | .0800409 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2235.913 | 23115.31 | 2247.331 | 1697.559 | 1898.503 |
| Stddev | 9.340 | 121.67 | 12.765 | 7.041 | 6.424 |
| %RSD | .4177280 | .5263419 | .5680040 | .4147788 | .3383754 |
| #1 | 2234.396 | 23223.19 | 2251.598 | 1705.418 | 1900.198 |
| #2 | 2245.918 | 22983.43 | 2232.978 | 1695.435 | 1903.910 |
| #3 | 2227.424 | 23139.31 | 2257.415 | 1691.825 | 1891.402 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-14 Acquired: 01/03/2025 19:53:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMF3 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2232329 | -.019156 | 2.766645 | .1123153 | .0501820 | 75.65609 |
| Stddev | .0070098 | .002013 | .006701 | .0054527 | .0004357 | .51240 |
| %RSD | 3.140138 | 10.50819 | .2422001 | 4.854816 | .8681954 | .6772727 |
| #1 | .2278575 | -.016968 | 2.760077 | .1111580 | .0501990 | 75.07514 |
| #2 | .2266737 | -.019571 | 2.766385 | .1182537 | .0506089 | 75.84950 |
| #3 | .2151676 | -.020929 | 2.773471 | .1075341 | .0497381 | 76.04363 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.119817 | .0078801 | .0093637 | 357.6657 | .1934110 | .1582029 |
| Stddev | .012088 | .0002820 | .0000751 | 1.7671 | .0010737 | .0009834 |
| %RSD | .5702184 | 3.578418 | .8023618 | .4940697 | .5551459 | .6215744 |
| #1 | 2.110012 | .0077949 | .0092771 | 355.8733 | .1933464 | .1575802 |
| #2 | 2.116118 | .0076506 | .0094025 | 357.7172 | .1945155 | .1593365 |
| #3 | 2.133322 | .0081949 | .0094115 | 359.4064 | .1923710 | .1576919 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6414039 | 235.2366 | 23.00920 | 42.09372 | .2316838 | -.013449 |
| Stddev | .0085159 | 1.6681 | .15687 | .39143 | .0012205 | .000853 |
| %RSD | 1.327698 | .7091176 | .6817578 | .9298966 | .5268035 | 6.344815 |
| #1 | .6322996 | 233.5744 | 22.85185 | 41.85609 | .2303001 | -.014407 |
| #2 | .6427382 | 235.2249 | 23.01018 | 41.87958 | .2326075 | -.013169 |
| #3 | .6491738 | 236.9106 | 23.16558 | 42.54550 | .2321438 | -.012771 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8431898 | .1923102 | 2.020334 | 10.14348 | F 12.98600 | -.466177 |
| Stddev | .0131320 | .0036763 | .000416 | .04251 | .02733 | .005438 |
| %RSD | 1.557416 | 1.911664 | .0205923 | .4191297 | .2104261 | 1.166600 |
| #1 | .8418970 | .1950338 | 2.020463 | 10.11871 | 12.96127 | -.459916 |
| #2 | .8307521 | .1937684 | 2.020671 | 10.11915 | 12.98138 | -.468886 |
| #3 | .8569204 | .1881285 | 2.019869 | 10.19257 | 13.01534 | -.469729 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-14 Acquired: 01/03/2025 19:53:54 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMF3 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0136745 | 4.172048 | 5.296646 | .1794179 | .8571466 | .3206353 |
| Stddev | .0003500 | .012213 | .058676 | .0009757 | .0028464 | .0022877 |
| %RSD | 2.559156 | .2927374 | 1.107790 | .5438057 | .3320737 | .7134808 |
| #1 | .0138884 | 4.157951 | 5.229165 | .1783858 | .8541406 | .3180413 |
| #2 | .0132707 | 4.179430 | 5.325128 | .1795429 | .8598005 | .3215000 |
| #3 | .0138645 | 4.178764 | 5.335643 | .1803252 | .8574988 | .3223646 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0928467 |
| Stddev | .0017024 |
| %RSD | 1.833579 |
| #1 | .0925280 |
| #2 | .0946859 |
| #3 | .0913261 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2209.945 | 22818.58 | 2234.893 | 1669.169 | 1821.020 |
| Stddev | 1.296 | 29.35 | 17.601 | 4.889 | 2.839 |
| %RSD | .0586428 | .1286446 | .7875466 | .2928731 | .1558961 |
| #1 | 2210.610 | 22800.52 | 2255.216 | 1663.536 | 1824.299 |
| #2 | 2208.452 | 22802.77 | 2224.836 | 1671.672 | 1819.373 |
| #3 | 2210.774 | 22852.45 | 2224.626 | 1672.300 | 1819.389 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-15 Acquired: 01/03/2025 19:57:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMM8 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1491596 | -.018991 | 3.712530 | .0669501 | .0454061 | 48.06619 |
| Stddev | .0033504 | .002870 | .012658 | .0048197 | .0009911 | .17203 |
| %RSD | 2.246166 | 15.11068 | .3409431 | 7.198919 | 2.182747 | .3579097 |
| #1 | .1527740 | -.017226 | 3.705233 | .0625670 | .0443902 | 47.87729 |
| #2 | .1485470 | -.017446 | 3.705212 | .0721116 | .0454576 | 48.21386 |
| #3 | .1461578 | -.022303 | 3.727146 | .0661716 | .0463704 | 48.10742 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.559148 | .0070181 | .0061983 | 194.7696 | .1377218 | .1058434 |
| Stddev | .002936 | .0001413 | .0000900 | .2582 | .0014216 | .0004050 |
| %RSD | .1883228 | 2.013027 | 1.451494 | .1325468 | 1.032250 | .3826651 |
| #1 | 1.557057 | .0071309 | .0062207 | 194.5586 | .1374381 | .1054710 |
| #2 | 1.562505 | .0068596 | .0060993 | 195.0575 | .1392640 | .1057845 |
| #3 | 1.557883 | .0070636 | .0062750 | 194.6927 | .1364635 | .1062746 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5639375 | 170.0310 | 5.035024 | 48.05549 | .1808642 | -.011352 |
| Stddev | .0022057 | .7598 | .010159 | .23875 | .0012130 | .001516 |
| %RSD | .3911165 | .4468783 | .2017701 | .4968276 | .6706589 | 13.35206 |
| #1 | .5627500 | 169.2194 | 5.025850 | 47.88543 | .1794823 | -.013031 |
| #2 | .5625799 | 170.7254 | 5.045943 | 48.32844 | .1813574 | -.010939 |
| #3 | .5664824 | 170.1482 | 5.033278 | 47.95260 | .1817529 | -.010085 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.064107 | .1838784 | 2.533912 | 7.041226 | F 10.46448 | -.322876 |
| Stddev | .005573 | .0164000 | .005861 | .222303 | .03493 | .002274 |
| %RSD | .5236993 | 8.918908 | .2313045 | 3.157162 | .3338159 | .7042972 |
| #1 | 1.065814 | .1994926 | 2.527972 | 6.842580 | 10.46180 | -.325239 |
| #2 | 1.068626 | .1667920 | 2.534073 | 7.281344 | 10.43096 | -.322686 |
| #3 | 1.057880 | .1853506 | 2.539691 | 6.999753 | 10.50067 | -.320703 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5126-15 Acquired: 01/03/2025 19:57:42 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMM8 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0134899 | 3.746153 | 4.857478 | .2281885 | 1.103772 | .2611628 |
| Stddev | .0006319 | .012136 | .030567 | .0011121 | .005986 | .0014568 |
| %RSD | 4.684540 | .3239642 | .6292716 | .4873751 | .5422941 | .5578173 |
| #1 | .0130360 | 3.738838 | 4.891269 | .2273503 | 1.101559 | .2598450 |
| #2 | .0142116 | 3.739459 | 4.849410 | .2277652 | 1.099207 | .2627272 |
| #3 | .0132220 | 3.760162 | 4.831754 | .2294502 | 1.110549 | .2609162 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0813808 |
| Stddev | .0018427 |
| %RSD | 2.264297 |
| #1 | .0792566 |
| #2 | .0825507 |
| #3 | .0823350 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2004.617 | 20538.44 | 2018.049 | 1506.399 | 1900.498 |
| Stddev | 4.250 | 102.23 | 8.860 | 8.902 | 4.640 |
| %RSD | .2120062 | .4977457 | .4390253 | .5909496 | .2441717 |
| #1 | 2008.212 | 20637.51 | 2013.362 | 1516.579 | 1903.662 |
| #2 | 2005.712 | 20433.33 | 2012.517 | 1502.542 | 1902.661 |
| #3 | 1999.927 | 20544.49 | 2028.267 | 1500.075 | 1895.171 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-01 Acquired: 01/03/2025 20:01:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA8 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1453575 | -.021147 | 2.448606 | .0677787 | .0474326 | 50.49703 |
| Stddev | .0056890 | .005864 | .008386 | .0081622 | .0019330 | .13632 |
| %RSD | 3.913805 | 27.72856 | .3424743 | 12.04243 | 4.075324 | .2699579 |
| #1 | .1486846 | -.025525 | 2.442900 | .0681155 | .0459112 | 50.65033 |
| #2 | .1485993 | -.023430 | 2.458234 | .0594533 | .0496078 | 50.38944 |
| #3 | .1387886 | -.014485 | 2.444684 | .0757673 | .0467788 | 50.45131 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.111538 | .0081745 | .0193665 | 352.3535 | .1376277 | .1058349 |
| Stddev | .007335 | .0000555 | .0001531 | 1.0949 | .0005913 | .0006224 |
| %RSD | .6599382 | .6793347 | .7906315 | .3107298 | .4296064 | .5880603 |
| #1 | 1.117184 | .0081544 | .0193173 | 353.6013 | .1371164 | .1065489 |
| #2 | 1.114183 | .0082373 | .0195382 | 351.9053 | .1382752 | .1054075 |
| #3 | 1.103247 | .0081318 | .0192440 | 351.5537 | .1374915 | .1055482 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5236672 | 191.5158 | 4.950985 | 173.5044 | .2148850 | -.013227 |
| Stddev | .0054734 | .5109 | .029644 | .8577 | .0005296 | .000897 |
| %RSD | 1.045197 | .2667592 | .5987486 | .4943537 | .2464570 | 6.784193 |
| #1 | .5288693 | 191.9091 | 4.983342 | 174.4288 | .2146319 | -.014244 |
| #2 | .5179579 | 190.9384 | 4.925135 | 172.7343 | .2145294 | -.012893 |
| #3 | .5241743 | 191.7000 | 4.944479 | 173.3501 | .2154936 | -.012545 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.092816 | .1737302 | 4.674969 | 4.892376 | F 11.05218 | -.328655 |
| Stddev | .013250 | .0142594 | .007758 | .199833 | .00727 | .002542 |
| %RSD | .3237317 | 8.207777 | .1659469 | 4.084573 | .0657550 | .7735802 |
| #1 | 4.108050 | .1823829 | 4.682632 | 4.683437 | 11.04782 | -.330784 |
| #2 | 4.083979 | .1815356 | 4.667119 | 5.081648 | 11.06057 | -.325840 |
| #3 | 4.086418 | .1572722 | 4.675157 | 4.912043 | 11.04815 | -.329340 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-01 Acquired: 01/03/2025 20:01:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA8 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0174076 | 8.512161 | 4.124570 | .0773357 | .7841326 | .1514034 |
| Stddev | .0005284 | .015614 | .010859 | .0045704 | .0021449 | .0007472 |
| %RSD | 3.035247 | .1834297 | .2632641 | 5.909774 | .2735328 | .4935467 |
| #1 | .0175181 | 8.509456 | 4.133674 | .0734401 | .7856254 | .1521944 |
| #2 | .0168327 | 8.528951 | 4.127486 | .0762003 | .7816748 | .1507093 |
| #3 | .0178719 | 8.498077 | 4.112552 | .0823668 | .7850978 | .1513064 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0533632 |
| Stddev | .0038497 |
| %RSD | 7.214245 |
| #1 | .0501834 |
| #2 | .0522629 |
| #3 | .0576434 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1879.721 | 19225.16 | 1915.630 | 1398.487 | 1790.892 |
| Stddev | 3.019 | 47.01 | 2.929 | 4.652 | 1.549 |
| %RSD | .1606126 | .2445203 | .1528889 | .3326175 | .0864846 |
| #1 | 1879.880 | 19250.58 | 1912.750 | 1396.583 | 1789.560 |
| #2 | 1882.657 | 19253.99 | 1915.536 | 1403.789 | 1792.592 |
| #3 | 1876.625 | 19170.91 | 1918.605 | 1395.090 | 1790.525 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-02 Acquired: 01/03/2025 20:05:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA9 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0899428 | -.022200 | 1.395677 | .0780298 | .0439424 | 45.21155 | .6240197 |
| Stddev | .0017551 | .004669 | .001442 | .0050470 | .0030223 | .06798 | .0008934 |
| %RSD | 1.951338 | 21.03382 | .1033236 | 6.468055 | 6.877897 | .1503667 | .1431685 |
| #1 | .0883347 | -.019566 | 1.397118 | .0812579 | .0466410 | 45.28408 | .6250395 |
| #2 | .0896787 | -.027591 | 1.395679 | .0806179 | .0406767 | 45.14928 | .6233748 |
| #3 | .0918150 | -.019442 | 1.394233 | .0722138 | .0445093 | 45.20130 | .6236448 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0056178 | .0107502 | 277.0941 | .0973464 | .0986150 | .3287599 | 197.9113 |
| Stddev | .0000905 | .0002216 | .4383 | .0003444 | .0004271 | .0120079 | .2951 |
| %RSD | 1.610941 | 2.060996 | .1581798 | .3537825 | .4331233 | 3.652481 | .1490910 |
| #1 | .0056751 | .0107467 | 277.3652 | .0977149 | .0982382 | .3373613 | 197.9473 |
| #2 | .0055134 | .0109735 | 276.5884 | .0972915 | .0985280 | .3150410 | 197.5999 |
| #3 | .0056648 | .0105304 | 277.3286 | .0970327 | .0990790 | .3338773 | 198.1867 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 6.337436 | 63.09909 | .1622192 | -.012488 | .7818217 | .1716150 | 5.013087 |
| Stddev | .019163 | .22003 | .0019715 | .001637 | .0087505 | .0092118 | .059874 |
| %RSD | .3023777 | .3487009 | 1.215305 | 13.10723 | 1.119247 | 5.367705 | 1.194361 |
| #1 | 6.349072 | 63.25466 | .1612137 | -.014310 | .7735981 | .1694178 | 5.035080 |
| #2 | 6.315318 | 62.84735 | .1609533 | -.012012 | .7808490 | .1817267 | 5.058856 |
| #3 | 6.347917 | 63.19525 | .1644907 | -.011142 | .7910179 | .1637004 | 4.945327 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.109121 | 6.335932 | -.401950 | .0110163 | 2.550279 | 3.459925 | .0567541 |
| Stddev | .096992 | .011791 | .002989 | .0003119 | .010631 | .028553 | .0024295 |
| %RSD | 2.360413 | .1861001 | .7435665 | 2.830858 | .4168648 | .8252544 | 4.280777 |
| #1 | 4.195339 | 6.347670 | -.405147 | .0110267 | 2.557280 | 3.490754 | .0595001 |
| #2 | 4.127920 | 6.324089 | -.401478 | .0113229 | 2.555512 | 3.434388 | .0548838 |
| #3 | 4.004106 | 6.336038 | -.399226 | .0106994 | 2.538046 | 3.454634 | .0558785 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-02 Acquired: 01/03/2025 20:05:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMA9 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 2.084193 | .2136316 | .0717500 |
| Stddev | .004739 | .0001910 | .0037834 |
| %RSD | .2273930 | .0893824 | 5.272976 |
| | | | |
| #1 | 2.085338 | .2134154 | .0674405 |
| #2 | 2.078987 | .2137773 | .0745253 |
| #3 | 2.088256 | .2137019 | .0732841 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1985.064 | 20308.52 | 1984.136 | 1485.959 | 1869.232 |
| Stddev | 8.215 | 165.12 | 8.709 | 16.280 | 6.770 |
| %RSD | .4138554 | .8130604 | .4389280 | 1.095603 | .3621562 |
| | | | | | |
| #1 | 1979.066 | 20295.10 | 1977.065 | 1485.690 | 1865.012 |
| #2 | 1981.697 | 20150.52 | 1993.864 | 1469.816 | 1865.645 |
| #3 | 1994.427 | 20479.95 | 1981.478 | 1502.373 | 1877.041 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-03 Acquired: 01/03/2025 20:09:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB0 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0909709 | -.001110 | 1.078544 | .0498071 | .0306662 | 54.32070 |
| Stddev | .0028340 | .004988 | .004200 | .0066472 | .0020922 | .16112 |
| %RSD | 3.115231 | 449.3306 | .3894498 | 13.34578 | 6.822678 | .2966133 |
| #1 | .0889492 | -.002119 | 1.077896 | .0502742 | .0311493 | 54.43811 |
| #2 | .0942102 | .004305 | 1.074704 | .0429388 | .0324746 | 54.13701 |
| #3 | .0897533 | -.005516 | 1.083030 | .0562084 | .0283746 | 54.38697 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .9573859 | .0056944 | .0038990 | F 847.5452 | .0876081 | .1310858 |
| Stddev | .0032275 | .0001709 | .0000540 | 2.5073 | .0010642 | .0007137 |
| %RSD | .3371181 | 3.001580 | 1.384990 | .2958337 | 1.214686 | .5444605 |
| #1 | .9540410 | .0058177 | .0039556 | 845.4613 | .0888277 | .1305512 |
| #2 | .9576351 | .0057663 | .0038935 | 846.8465 | .0871282 | .1318963 |
| #3 | .9604816 | .0054993 | .0038480 | 850.3277 | .0868685 | .1308100 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1508537 | 172.7848 | 16.16147 | 129.8063 | .1664583 | -.011468 |
| Stddev | .0059131 | .2730 | .02850 | .6728 | .0010195 | .000275 |
| %RSD | 3.919789 | .1580060 | .1763482 | .5182833 | .6124603 | 2.396038 |
| #1 | .1499011 | 173.0050 | 16.17647 | 130.4458 | .1663283 | -.011784 |
| #2 | .1571853 | 172.4793 | 16.12860 | 129.1046 | .1655100 | -.011323 |
| #3 | .1454747 | 172.8700 | 16.17933 | 129.8685 | .1675366 | -.011296 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.136554 | .1160273 | .8092444 | 10.15544 | 5.565157 | -.297572 |
| Stddev | .013617 | .0176017 | .0021293 | .02900 | .025550 | .003248 |
| %RSD | 1.198070 | 15.17031 | .2631264 | .2855488 | .4591079 | 1.091399 |
| #1 | 1.146727 | .1078461 | .8104700 | 10.16296 | 5.540942 | -.300771 |
| #2 | 1.121085 | .1362306 | .8104776 | 10.12342 | 5.562669 | -.297668 |
| #3 | 1.141850 | .1040051 | .8067857 | 10.17993 | 5.591860 | -.294278 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-03 Acquired: 01/03/2025 20:09:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB0 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0081975 | 2.650534 | 4.976087 | .0457571 | .3673716 | .6124838 |
| Stddev | .0013645 | .016170 | .027588 | .0009701 | .0043124 | .0007070 |
| %RSD | 16.64548 | .6100777 | .5544091 | 2.120178 | 1.173851 | .1154276 |
| #1 | .0076103 | 2.635273 | 5.005721 | .0460383 | .3717182 | .6127410 |
| #2 | .0097573 | 2.648848 | 4.951149 | .0465556 | .3630943 | .6116843 |
| #3 | .0072249 | 2.667482 | 4.971391 | .0446775 | .3673022 | .6130262 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1200709 |
| Stddev | .0017394 |
| %RSD | 1.448667 |
| #1 | .1192419 |
| #2 | .1220697 |
| #3 | .1189010 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1960.886 | 20044.79 | 2017.429 | 1458.214 | 1712.231 |
| Stddev | 4.695 | 86.96 | 10.854 | 6.595 | 5.355 |
| %RSD | .2394332 | .4338036 | .5380155 | .4522481 | .3127400 |
| #1 | 1959.452 | 19986.38 | 2004.932 | 1457.001 | 1714.416 |
| #2 | 1966.131 | 20003.27 | 2022.852 | 1452.311 | 1716.148 |
| #3 | 1957.076 | 20144.72 | 2024.503 | 1465.332 | 1706.129 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-07 Acquired: 01/03/2025 20:12:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB9 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1004622 | -.012281 | 1.677497 | .0537959 | .0329050 | 60.10910 |
| Stddev | .0013419 | .001928 | .003592 | .0077002 | .0005270 | .25557 |
| %RSD | 1.335695 | 15.69767 | .2141462 | 14.31370 | 1.601662 | .4251777 |
| #1 | .1007172 | -.014448 | 1.678591 | .0499803 | .0334756 | 59.86701 |
| #2 | .1016582 | -.010756 | 1.673485 | .0487485 | .0328030 | 60.37630 |
| #3 | .0990111 | -.011639 | 1.680416 | .0626588 | .0324365 | 60.08400 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.014490 | .0050944 | .0089353 | 120.9768 | .1271283 | .0859712 |
| Stddev | .000508 | .0000417 | .0000901 | .2503 | .0003834 | .0006996 |
| %RSD | .0500444 | .8182374 | 1.008463 | .2068999 | .3015936 | .8137794 |
| #1 | 1.014633 | .0051282 | .0089558 | 120.7662 | .1269221 | .0866575 |
| #2 | 1.014911 | .0050479 | .0088368 | 121.2535 | .1275707 | .0852590 |
| #3 | 1.013926 | .0051072 | .0090134 | 120.9106 | .1268921 | .0859970 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2695950 | 132.4205 | 5.516784 | 39.86683 | .1592231 | -.008049 |
| Stddev | .0035979 | .5200 | .016673 | .25100 | .0009392 | .001033 |
| %RSD | 1.334539 | .3927238 | .3022274 | .6295947 | .5898517 | 12.83824 |
| #1 | .2677047 | 131.9774 | 5.507184 | 39.77935 | .1601148 | -.009042 |
| #2 | .2737439 | 132.9930 | 5.536036 | 40.14987 | .1582427 | -.008126 |
| #3 | .2673362 | 132.2910 | 5.507131 | 39.67128 | .1593117 | -.006979 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5562518 | .1568508 | 2.310884 | 7.967561 | F 14.93960 | -.257184 |
| Stddev | .0250188 | .0046525 | .004782 | .266563 | .03029 | .001664 |
| %RSD | 4.497740 | 2.966193 | .2069345 | 3.345605 | .2027784 | .6471841 |
| #1 | .5281801 | .1550885 | 2.306454 | 8.171094 | 14.92032 | -.258372 |
| #2 | .5643781 | .1533368 | 2.315954 | 8.065760 | 14.92397 | -.257899 |
| #3 | .5761972 | .1621270 | 2.310245 | 7.665828 | 14.97452 | -.255282 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-07 Acquired: 01/03/2025 20:12:53 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMB9 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0130620 | 5.344675 | 6.651943 | .0677840 | 1.036681 | .0936606 |
| Stddev | .0009860 | .017438 | .028044 | .0012050 | .007983 | .0008519 |
| %RSD | 7.548864 | .3262754 | .4215862 | 1.777707 | .7700053 | .9095755 |
| #1 | .0139791 | 5.325601 | 6.668778 | .0680721 | 1.034942 | .0941469 |
| #2 | .0131879 | 5.348624 | 6.667481 | .0664610 | 1.045390 | .0941579 |
| #3 | .0120191 | 5.359801 | 6.619570 | .0688187 | 1.029712 | .0926769 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0639375 |
| Stddev | .0007808 |
| %RSD | 1.221230 |
| #1 | .0640643 |
| #2 | .0646472 |
| #3 | .0631010 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1982.406 | 20296.77 | 1982.767 | 1490.864 | 1928.026 |
| Stddev | 7.716 | 13.04 | 12.673 | 2.576 | 6.550 |
| %RSD | .3892007 | .0642376 | .6391414 | .1728192 | .3397445 |
| #1 | 1984.797 | 20311.45 | 1975.156 | 1493.131 | 1931.621 |
| #2 | 1988.644 | 20286.54 | 1975.749 | 1488.062 | 1931.991 |
| #3 | 1973.779 | 20292.32 | 1997.396 | 1491.401 | 1920.465 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-08 Acquired: 01/03/2025 20:16:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC0 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1227935 | -.016134 | 1.801565 | .0689179 | .0355012 | 70.47747 |
| Stddev | .0020919 | .003976 | .007554 | .0013080 | .0041393 | .24303 |
| %RSD | 1.703607 | 24.64637 | .4193190 | 1.897922 | 11.65970 | .3448393 |
| #1 | .1233648 | -.012406 | 1.801125 | .0674589 | .0307351 | 70.38042 |
| #2 | .1204753 | -.015675 | 1.809330 | .0693093 | .0375719 | 70.29796 |
| #3 | .1245404 | -.020319 | 1.794241 | .0699855 | .0381966 | 70.75404 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.011326 | .0059480 | .0075283 | 145.8892 | .1336227 | .0987541 |
| Stddev | .000968 | .0000382 | .0000600 | .3280 | .0005108 | .0007337 |
| %RSD | .0957029 | .6424244 | .7970082 | .2248603 | .3822899 | .7429959 |
| #1 | 1.011235 | .0059552 | .0074799 | 145.5944 | .1337994 | .0988828 |
| #2 | 1.012336 | .0059821 | .0075096 | 145.8307 | .1330470 | .0994149 |
| #3 | 1.010406 | .0059067 | .0075955 | 146.2426 | .1340217 | .0979645 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2962463 | 160.2550 | 6.503558 | 57.88528 | .1850484 | -.010169 |
| Stddev | .0134276 | .2599 | .016372 | .17357 | .0008099 | .001901 |
| %RSD | 4.532568 | .1621652 | .2517423 | .2998474 | .4376811 | 18.69499 |
| #1 | .2898926 | 160.0714 | 6.501625 | 58.04023 | .1851454 | -.009691 |
| #2 | .3116715 | 160.1413 | 6.488238 | 57.69772 | .1858055 | -.012263 |
| #3 | .2871748 | 160.5524 | 6.520811 | 57.91790 | .1841944 | -.008552 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6404925 | .1809491 | 2.517992 | 7.510693 | F 12.67654 | -.311536 |
| Stddev | .0200726 | .0136984 | .019232 | .153080 | .01246 | .001135 |
| %RSD | 3.133924 | 7.570309 | .7637674 | 2.038159 | .0982643 | .3643473 |
| #1 | .6612474 | .1724162 | 2.519945 | 7.637100 | 12.67957 | -.310427 |
| #2 | .6390499 | .1736814 | 2.497858 | 7.554492 | 12.68721 | -.312695 |
| #3 | .6211802 | .1967498 | 2.536173 | 7.340487 | 12.66285 | -.311486 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-08 Acquired: 01/03/2025 20:16:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC0 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0138978 | 5.388671 | 6.192243 | .0803265 | 1.056785 | .0837370 |
| Stddev | .0005854 | .009379 | .030629 | .0036065 | .001230 | .0002430 |
| %RSD | 4.212029 | .1740487 | .4946346 | 4.489793 | .1163785 | .2902144 |
| #1 | .0134468 | 5.378696 | 6.213833 | .0763089 | 1.055499 | .0839018 |
| #2 | .0145594 | 5.397311 | 6.205708 | .0813862 | 1.057950 | .0834579 |
| #3 | .0136873 | 5.390005 | 6.157189 | .0832844 | 1.056907 | .0838513 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0789929 |
| Stddev | .0038050 |
| %RSD | 4.816925 |
| #1 | .0833858 |
| #2 | .0767266 |
| #3 | .0768662 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1983.613 | 20197.84 | 1992.811 | 1488.186 | 1885.693 |
| Stddev | 2.903 | 114.13 | 10.375 | 15.489 | 3.007 |
| %RSD | .1463594 | .5650559 | .5206107 | 1.040828 | .1594579 |
| #1 | 1980.551 | 20131.65 | 1980.849 | 1483.238 | 1882.399 |
| #2 | 1986.326 | 20329.62 | 1998.230 | 1505.545 | 1886.389 |
| #3 | 1983.963 | 20132.24 | 1999.354 | 1475.774 | 1888.291 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-09 Acquired: 01/03/2025 20:20:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC1 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1277139 | -.019313 | 2.394250 | .0663229 | .0406770 | 58.52067 |
| Stddev | .0025106 | .002630 | .005646 | .0042929 | .0043934 | .31235 |
| %RSD | 1.965812 | 13.61667 | .2358052 | 6.472668 | 10.80064 | .5337428 |
| #1 | .1297750 | -.021854 | 2.399743 | .0670174 | .0388036 | 58.27940 |
| #2 | .1284490 | -.019484 | 2.388463 | .0617252 | .0375309 | 58.40913 |
| #3 | .1249178 | -.016602 | 2.394543 | .0702262 | .0456965 | 58.87348 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.084792 | .0060787 | .0082528 | 145.9059 | .1361171 | .0978472 |
| Stddev | .005012 | .0001427 | .0001623 | .6366 | .0003773 | .0007225 |
| %RSD | .4620643 | 2.347882 | 1.966400 | .4362927 | .2771606 | .7384110 |
| #1 | 1.085510 | .0059276 | .0080833 | 145.5615 | .1365525 | .0986809 |
| #2 | 1.079460 | .0060973 | .0084068 | 145.5157 | .1358871 | .0974571 |
| #3 | 1.089408 | .0062112 | .0082683 | 146.6405 | .1359117 | .0974036 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3316953 | 157.9384 | 5.616984 | 52.33281 | .2138159 | -.010981 |
| Stddev | .0126618 | 1.0169 | .031431 | .52768 | .0015828 | .001553 |
| %RSD | 3.817309 | .6438430 | .5595764 | 1.008316 | .7402696 | 14.14636 |
| #1 | .3224664 | 157.1142 | 5.589107 | 52.06676 | .2156427 | -.012450 |
| #2 | .3264892 | 157.6262 | 5.610798 | 51.99111 | .2129514 | -.011138 |
| #3 | .3461302 | 159.0747 | 5.651049 | 52.94055 | .2128536 | -.009355 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6735194 | .1660622 | 2.881208 | 6.862647 | F 10.03637 | -.307863 |
| Stddev | .0151401 | .0095397 | .008305 | .054865 | .02219 | .001598 |
| %RSD | 2.247915 | 5.744686 | .2882566 | .7994695 | .2210880 | .5189725 |
| #1 | .6804966 | .1619112 | 2.881803 | 6.813936 | 10.04271 | -.306370 |
| #2 | .6561487 | .1593012 | 2.872621 | 6.851923 | 10.01170 | -.307671 |
| #3 | .6839129 | .1769742 | 2.889199 | 6.922082 | 10.05469 | -.309548 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-09 Acquired: 01/03/2025 20:20:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC1 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0141179 | 3.446015 | 5.678784 | .1182280 | .9383534 | .0981104 |
| Stddev | .0002644 | .012207 | .023748 | .0013847 | .0157163 | .0007281 |
| %RSD | 1.872887 | .3542317 | .4181941 | 1.171244 | 1.674878 | .7421479 |
| #1 | .0140148 | 3.431951 | 5.677462 | .1198259 | .9280430 | .0972696 |
| #2 | .0139206 | 3.452236 | 5.703165 | .1173772 | .9305753 | .0985246 |
| #3 | .0144183 | 3.453858 | 5.655724 | .1174811 | .9564420 | .0985369 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0743386 |
| Stddev | .0030522 |
| %RSD | 4.105859 |
| #1 | .0709420 |
| #2 | .0752222 |
| #3 | .0768516 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2034.356 | 20685.46 | 2031.377 | 1519.336 | 1940.064 |
| Stddev | 4.776 | 140.54 | 9.245 | 7.305 | 1.013 |
| %RSD | .2347461 | .6794355 | .4551282 | .4807706 | .0522060 |
| #1 | 2039.839 | 20537.89 | 2023.963 | 1514.360 | 1940.262 |
| #2 | 2031.104 | 20817.73 | 2028.433 | 1527.722 | 1940.963 |
| #3 | 2032.125 | 20700.75 | 2041.736 | 1515.927 | 1938.967 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-10 Acquired: 01/03/2025 20:24:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC2 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2743848 | -.089747 | 8.751085 | .2065834 | .0693165 | 52.56561 |
| Stddev | .0025549 | .001525 | .007968 | .0113298 | .0042125 | .32624 |
| %RSD | .9311277 | 1.699639 | .0910566 | 5.484390 | 6.077217 | .6206427 |
| #1 | .2742966 | -.088857 | 8.744046 | .1938048 | .0736692 | 52.21608 |
| #2 | .2718752 | -.091509 | 8.759736 | .2105446 | .0690206 | 52.61869 |
| #3 | .2769827 | -.088876 | 8.749472 | .2154009 | .0652598 | 52.86206 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.566792 | .0104011 | .0108103 | 187.0888 | .1892472 | .1221265 |
| Stddev | .004062 | .0001053 | .0002930 | .6139 | .0010259 | .0004411 |
| %RSD | .2592847 | 1.012736 | 2.710644 | .3281269 | .5421151 | .3611539 |
| #1 | 1.562190 | .0104122 | .0106967 | 186.3840 | .1890793 | .1218778 |
| #2 | 1.569880 | .0105004 | .0105911 | 187.3760 | .1883155 | .1226358 |
| #3 | 1.568307 | .0102906 | .0111431 | 187.5064 | .1903467 | .1218659 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6643186 | 419.9767 | 6.742079 | 54.57176 | .8271822 | -.028516 |
| Stddev | .0120064 | 2.3528 | .030812 | .28184 | .0009870 | .001179 |
| %RSD | 1.807321 | .5602103 | .4570072 | .5164605 | .1193189 | 4.132928 |
| #1 | .6580659 | 417.3204 | 6.711296 | 54.30463 | .8271460 | -.028718 |
| #2 | .6781609 | 420.8113 | 6.742022 | 54.54436 | .8281868 | -.027250 |
| #3 | .6567291 | 421.7984 | 6.772919 | 54.86631 | .8262138 | -.029581 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.193278 | .2356829 | 3.105485 | 7.380408 | F 10.75834 | -.902878 |
| Stddev | .016460 | .0034720 | .014153 | .054602 | .00918 | .011413 |
| %RSD | 1.379365 | 1.473178 | .4557426 | .7398199 | .0853305 | 1.264103 |
| #1 | 1.186935 | .2323597 | 3.098804 | 7.317709 | 10.75184 | -.897193 |
| #2 | 1.211966 | .2392867 | 3.095909 | 7.417496 | 10.76884 | -.916018 |
| #3 | 1.180934 | .2354025 | 3.121742 | 7.406020 | 10.75433 | -.895424 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-10 Acquired: 01/03/2025 20:24:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC2 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0202126 | 4.576988 | 5.383664 | 7.512731 | 1.037169 | -.039316 |
| Stddev | .0007136 | .011864 | .058500 | .009899 | .008694 | .000566 |
| %RSD | 3.530464 | .2592005 | 1.086628 | .1317693 | .8382855 | 1.440860 |
| | | | | | | |
| #1 | .0194715 | 4.565554 | 5.357312 | 7.502412 | 1.027868 | -.038953 |
| #2 | .0208950 | 4.576172 | 5.450706 | 7.513633 | 1.038547 | -.039027 |
| #3 | .0202712 | 4.589239 | 5.342975 | 7.522149 | 1.045092 | -.039969 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0812182 |
| Stddev | .0012422 |
| %RSD | 1.529441 |
| | |
| #1 | .0799016 |
| #2 | .0823694 |
| #3 | .0813836 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2029.452 | 20741.34 | 2043.882 | 1515.803 | 1941.557 |
| Stddev | 5.461 | 115.34 | 11.056 | 10.024 | 1.880 |
| %RSD | .2691019 | .5560926 | .5409142 | .6613300 | .0968278 |
| | | | | | |
| #1 | 2032.798 | 20685.21 | 2044.045 | 1511.832 | 1940.976 |
| #2 | 2032.407 | 20874.00 | 2032.745 | 1527.204 | 1943.659 |
| #3 | 2023.149 | 20664.81 | 2054.854 | 1508.372 | 1940.037 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-11 Acquired: 01/03/2025 20:28:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC3 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1431709 | -.015001 | 3.559267 | .0614248 | .0425757 | 47.09639 | 1.428710 |
| Stddev | .0042156 | .002759 | .004791 | .0063184 | .0023208 | .07938 | .004438 |
| %RSD | 2.944450 | 18.39329 | .1346058 | 10.28631 | 5.450977 | .1685530 | .3106051 |
| #1 | .1477494 | -.017481 | 3.557050 | .0683079 | .0435178 | 47.18802 | 1.427609 |
| #2 | .1394501 | -.012029 | 3.555986 | .0558883 | .0442772 | 47.04848 | 1.433594 |
| #3 | .1423132 | -.015494 | 3.564765 | .0600783 | .0399320 | 47.05266 | 1.424926 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0066672 | .0061945 | 197.0637 | .1353287 | .1002543 | .4594715 | 161.3848 |
| Stddev | .0003380 | .0002035 | .3209 | .0006014 | .0006750 | .0177756 | .5572 |
| %RSD | 5.070020 | 3.285454 | .1628506 | .4444068 | .6732886 | 3.868710 | .3452376 |
| #1 | .0069170 | .0063660 | 197.4319 | .1358665 | .1003438 | .4583441 | 162.0099 |
| #2 | .0068021 | .0059696 | 196.9152 | .1346793 | .1008801 | .4777839 | 161.2041 |
| #3 | .0062826 | .0062478 | 196.8439 | .1354403 | .0995390 | .4422864 | 160.9405 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.099150 | 48.01799 | .1738832 | -.009363 | .9921423 | .1869210 | 2.516482 |
| Stddev | .005107 | .29681 | .0008494 | .001450 | .0129016 | .0026305 | .014084 |
| %RSD | .1001614 | .6181238 | .4885175 | 15.48460 | 1.300382 | 1.407300 | .5596758 |
| #1 | 5.104605 | 48.33286 | .1748427 | -.008685 | .9774066 | .1865016 | 2.511755 |
| #2 | 5.094482 | 47.97775 | .1732272 | -.011028 | 1.001407 | .1845253 | 2.532322 |
| #3 | 5.098363 | 47.74335 | .1735797 | -.008376 | .997614 | .1897360 | 2.505370 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 6.539754 | 9.775888 | -.318428 | .0119894 | 4.728121 | 4.921257 | .2021471 |
| Stddev | .145496 | .013806 | .004098 | .0005140 | .021086 | .021375 | .0016545 |
| %RSD | 2.224793 | .1412224 | 1.286834 | 4.287273 | .4459667 | .4343467 | .8184379 |
| #1 | 6.458080 | 9.777125 | -.323100 | .0115798 | 4.707953 | 4.939040 | .2029733 |
| #2 | 6.707737 | 9.761505 | -.316739 | .0118222 | 4.726392 | 4.927187 | .2002423 |
| #3 | 6.453444 | 9.789033 | -.315445 | .0125662 | 4.750018 | 4.897542 | .2032258 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-11 Acquired: 01/03/2025 20:28:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC3 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 1.032801 | .2617592 | .0791502 |
| Stddev | .005279 | .0004559 | .0012103 |
| %RSD | .5110963 | .1741836 | 1.529120 |
| | | | |
| #1 | 1.037852 | .2622831 | .0778918 |
| #2 | 1.027321 | .2615425 | .0792528 |
| #3 | 1.033230 | .2614519 | .0803059 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2010.573 | 20673.62 | 2034.027 | 1515.756 | 1909.368 |
| Stddev | 3.072 | 105.84 | 10.081 | 4.544 | 2.092 |
| %RSD | .1528027 | .5119573 | .4955980 | .2998066 | .1095566 |
| | | | | | |
| #1 | 2013.102 | 20629.44 | 2022.722 | 1520.518 | 1908.702 |
| #2 | 2011.463 | 20794.39 | 2042.081 | 1511.466 | 1911.712 |
| #3 | 2007.154 | 20597.03 | 2037.278 | 1515.285 | 1907.691 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-12 Acquired: 01/03/2025 20:31:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC4 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1186874 | -.021434 | 4.553332 | .0722037 | .0469750 | 52.86803 |
| Stddev | .0015404 | .004558 | .008179 | .0064482 | .0022101 | .08760 |
| %RSD | 1.297869 | 21.26657 | .1796202 | 8.930623 | 4.704791 | .1656920 |
| #1 | .1197844 | -.023173 | 4.558646 | .0680883 | .0455266 | 52.76727 |
| #2 | .1169263 | -.024868 | 4.557436 | .0796351 | .0495188 | 52.92611 |
| #3 | .1193514 | -.016262 | 4.543914 | .0688875 | .0458795 | 52.91071 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.735416 | .0059666 | .0057160 | 170.4292 | .1374792 | .1091767 |
| Stddev | .010346 | .0002532 | .0000499 | .3672 | .0018940 | .0004410 |
| %RSD | .5961593 | 4.242832 | .8733278 | .2154647 | 1.377687 | .4039619 |
| #1 | 1.735736 | .0057169 | .0057723 | 170.5109 | .1371066 | .1096177 |
| #2 | 1.724914 | .0062231 | .0056986 | 170.0281 | .1395318 | .1087356 |
| #3 | 1.745598 | .0059599 | .0056771 | 170.7488 | .1357991 | .1091767 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7223804 | 170.5148 | 7.561617 | 48.41653 | .1534410 | -.009312 |
| Stddev | .0077056 | .1294 | .008568 | .11293 | .0009781 | .000771 |
| %RSD | 1.066689 | .0758797 | .1133079 | .2332502 | .6374740 | 8.281987 |
| #1 | .7159669 | 170.5294 | 7.556355 | 48.54057 | .1524298 | -.008483 |
| #2 | .7202461 | 170.6363 | 7.571503 | 48.31967 | .1543823 | -.010009 |
| #3 | .7309281 | 170.3788 | 7.556992 | 48.38936 | .1535109 | -.009444 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .9379305 | .1483354 | 3.325602 | 7.024951 | F 11.38833 | -.342842 |
| Stddev | .0097669 | .0005627 | .003664 | .139939 | .00946 | .005950 |
| %RSD | 1.041324 | .3793436 | .1101615 | 1.992023 | .0830460 | 1.735415 |
| #1 | .9395752 | .1483613 | 3.321481 | 7.122964 | 11.39616 | -.337832 |
| #2 | .9467707 | .1488847 | 3.328488 | 6.864688 | 11.39101 | -.349418 |
| #3 | .9274457 | .1477602 | 3.326838 | 7.087199 | 11.37783 | -.341276 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-12 Acquired: 01/03/2025 20:31:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC4 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0116232 | 2.395699 | 4.942519 | .3185383 | .9171754 | .1912618 |
| Stddev | .0005995 | .005737 | .024558 | .0009204 | .0036897 | .0006557 |
| %RSD | 5.157706 | .2394898 | .4968749 | .2889290 | .4022909 | .3428060 |
| #1 | .0109925 | 2.395642 | 4.957150 | .3184432 | .9204699 | .1905389 |
| #2 | .0121857 | 2.389991 | 4.956241 | .3195026 | .9178678 | .1914284 |
| #3 | .0116913 | 2.401465 | 4.914167 | .3176693 | .9131886 | .1918180 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0874610 |
| Stddev | .0037333 |
| %RSD | 4.268516 |
| #1 | .0916952 |
| #2 | .0860449 |
| #3 | .0846429 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2083.569 | 21261.37 | 2102.122 | 1559.814 | 1920.735 |
| Stddev | 4.132 | 36.64 | 10.353 | 2.862 | 1.836 |
| %RSD | .1983110 | .1723448 | .4925220 | .1834620 | .0955987 |
| #1 | 2082.671 | 21268.45 | 2092.023 | 1558.337 | 1918.709 |
| #2 | 2088.077 | 21293.96 | 2101.631 | 1563.112 | 1922.291 |
| #3 | 2079.961 | 21221.70 | 2112.712 | 1557.992 | 1921.204 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-13 Acquired: 01/03/2025 20:35:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC5 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0978125 | -.013353 | 2.172817 | .0603169 | .0340813 | 59.45723 |
| Stddev | .0034163 | .003761 | .004493 | .0009449 | .0037486 | .37830 |
| %RSD | 3.492728 | 28.16797 | .2067866 | 1.566542 | 10.99893 | .6362584 |
| #1 | .0999019 | -.010991 | 2.168782 | .0596286 | .0308531 | 59.48517 |
| #2 | .0996656 | -.011377 | 2.177659 | .0613942 | .0331982 | 59.06573 |
| #3 | .0938701 | -.017690 | 2.172011 | .0599278 | .0381925 | 59.82079 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.237337 | .0051191 | .0041541 | 135.7998 | .1197795 | .1116727 |
| Stddev | .009997 | .0000695 | .0000544 | .8770 | .0009986 | .0005213 |
| %RSD | .8079775 | 1.358516 | 1.308866 | .6457809 | .8336623 | .4667657 |
| #1 | 1.231218 | .0050388 | .0041459 | 135.1262 | .1189403 | .1114154 |
| #2 | 1.231919 | .0051583 | .0041043 | 135.4818 | .1208839 | .1122725 |
| #3 | 1.248874 | .0051602 | .0042121 | 136.7914 | .1195143 | .1113301 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3183483 | 144.1719 | 5.934495 | 40.17078 | .1413683 | -.008722 |
| Stddev | .0057733 | 1.0633 | .039820 | .26035 | .0012233 | .000964 |
| %RSD | 1.813503 | .7374959 | .6709863 | .6481200 | .8653459 | 11.05281 |
| #1 | .3180407 | 144.1082 | 5.921142 | 40.30145 | .1420413 | -.007657 |
| #2 | .3242693 | 143.1419 | 5.903068 | 39.87097 | .1399563 | -.008975 |
| #3 | .3127351 | 145.2656 | 5.979275 | 40.33992 | .1421074 | -.009534 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7890314 | .1355200 | 1.498833 | 6.527953 | F 15.14807 | -.292813 |
| Stddev | .0199347 | .0095884 | .010521 | .086402 | .01830 | .003665 |
| %RSD | 2.526482 | 7.075264 | .7019411 | 1.323564 | .1208033 | 1.251737 |
| #1 | .7681492 | .1245557 | 1.488277 | 6.460601 | 15.13046 | -.288964 |
| #2 | .7910854 | .1396698 | 1.498905 | 6.497886 | 15.14677 | -.293214 |
| #3 | .8078596 | .1423346 | 1.509319 | 6.625370 | 15.16698 | -.296261 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-13 Acquired: 01/03/2025 20:35:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMC5 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0104593 | 1.944065 | 4.378610 | .0951475 | .8557742 | .1766098 |
| Stddev | .0012169 | .000852 | .023913 | .0005577 | .0145271 | .0006564 |
| %RSD | 11.63484 | .0438154 | .5461298 | .5860886 | 1.697542 | .3716528 |
| | | | | | | |
| #1 | .0096354 | 1.943299 | 4.368226 | .0948568 | .8704372 | .1759711 |
| #2 | .0098855 | 1.943913 | 4.361644 | .0947952 | .8413869 | .1765757 |
| #3 | .0118571 | 1.944982 | 4.405959 | .0957904 | .8554983 | .1772825 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1064699 |
| Stddev | .0034718 |
| %RSD | 3.260860 |
| | |
| #1 | .1029699 |
| #2 | .1065269 |
| #3 | .1099128 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2261.570 | 23224.34 | 2305.841 | 1708.439 | 1893.131 |
| Stddev | 3.929 | 170.51 | 11.122 | 8.747 | 4.794 |
| %RSD | .1737231 | .7341713 | .4823403 | .5119855 | .2532127 |
| | | | | | |
| #1 | 2265.873 | 23421.12 | 2302.107 | 1718.214 | 1897.379 |
| #2 | 2260.663 | 23120.38 | 2318.349 | 1705.753 | 1894.080 |
| #3 | 2258.174 | 23131.53 | 2297.066 | 1701.350 | 1887.934 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-14 Acquired: 01/03/2025 20:39:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMD7 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3010916 | -.008830 | 5.563541 | .0742059 | .0368156 | 57.32904 |
| Stddev | .0065882 | .003509 | .018941 | .0017740 | .0032706 | .38875 |
| %RSD | 2.188113 | 39.73986 | .3404553 | 2.390657 | 8.883776 | .6780964 |
| #1 | .3006999 | -.010912 | 5.572646 | .0733267 | .0359447 | 57.62089 |
| #2 | .2947080 | -.004778 | 5.541767 | .0730433 | .0340686 | 56.88775 |
| #3 | .3078670 | -.010798 | 5.576211 | .0762478 | .0404335 | 57.47848 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.146706 | .0061738 | .0095635 | 589.9518 | .1370227 | .1474859 |
| Stddev | .006905 | .0001943 | .0001727 | 2.0319 | .0014850 | .0004911 |
| %RSD | .2194233 | 3.147331 | 1.805472 | .3444137 | 1.083772 | .3330081 |
| #1 | 3.150376 | .0063822 | .0095549 | 590.2118 | .1356563 | .1480289 |
| #2 | 3.138741 | .0061416 | .0097403 | 587.8024 | .1386031 | .1470727 |
| #3 | 3.151001 | .0059976 | .0093953 | 591.8411 | .1368089 | .1473561 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .9317655 | 182.9458 | 15.35274 | 55.66597 | .2039479 | -.009005 |
| Stddev | .0060603 | 1.1605 | .06212 | .16736 | .0015058 | .000510 |
| %RSD | .6504057 | .6343435 | .4046167 | .3006430 | .7383216 | 5.664882 |
| #1 | .9345531 | 183.8358 | 15.38076 | 55.76568 | .2050275 | -.009391 |
| #2 | .9248130 | 181.6332 | 15.28154 | 55.47276 | .2022277 | -.008427 |
| #3 | .9359303 | 183.3683 | 15.39590 | 55.75948 | .2045884 | -.009198 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8804419 | .1706260 | 3.248455 | 8.784218 | F 12.27259 | -.363177 |
| Stddev | .0108147 | .0081733 | .012230 | .163644 | .04145 | .004768 |
| %RSD | 1.228323 | 4.790165 | .3764952 | 1.862931 | .3377625 | 1.312842 |
| #1 | .8688410 | .1778182 | 3.262240 | 8.781537 | 12.27193 | -.368683 |
| #2 | .8902450 | .1617378 | 3.238904 | 8.621932 | 12.23147 | -.360423 |
| #3 | .8822398 | .1723221 | 3.244221 | 8.949187 | 12.31436 | -.360426 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-14 Acquired: 01/03/2025 20:39:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMD7 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0101538 | 2.947788 | 5.380880 | .1194359 | .7686428 | .3831718 |
| Stddev | .0008646 | .005382 | .046952 | .0029339 | .0083471 | .0018183 |
| %RSD | 8.515286 | .1825716 | .8725699 | 2.456445 | 1.085959 | .4745384 |
| #1 | .0104941 | 2.943600 | 5.431890 | .1186936 | .7701391 | .3845201 |
| #2 | .0091709 | 2.953858 | 5.339470 | .1169445 | .7596488 | .3811038 |
| #3 | .0107966 | 2.945906 | 5.371279 | .1226696 | .7761407 | .3838916 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0753495 |
| Stddev | .0038265 |
| %RSD | 5.078347 |
| #1 | .0718378 |
| #2 | .0747831 |
| #3 | .0794277 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2086.370 | 21398.17 | 2132.734 | 1565.022 | 1800.518 |
| Stddev | 7.005 | 89.09 | 16.339 | 4.303 | 2.622 |
| %RSD | .3357343 | .4163309 | .7661069 | .2749621 | .1456104 |
| #1 | 2081.618 | 21486.86 | 2115.749 | 1560.776 | 1799.725 |
| #2 | 2083.077 | 21398.95 | 2148.340 | 1569.381 | 1798.384 |
| #3 | 2094.414 | 21308.69 | 2134.112 | 1564.910 | 1803.444 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-15 Acquired: 01/03/2025 20:43:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMD8 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1925552 | -.004863 | 4.402847 | .0698842 | .0355476 | 62.18741 |
| Stddev | .0041696 | .002770 | .002934 | .0035529 | .0024915 | .07809 |
| %RSD | 2.165396 | 56.95980 | .0666481 | 5.083957 | 7.009056 | .1255724 |
| #1 | .1972892 | -.008018 | 4.400329 | .0718953 | .0362162 | 62.11331 |
| #2 | .1894283 | -.002834 | 4.406069 | .0657819 | .0376366 | 62.17996 |
| #3 | .1909481 | -.003736 | 4.402142 | .0719752 | .0327900 | 62.26896 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.946569 | .0061720 | .0069524 | 397.0765 | .1207663 | .1355624 |
| Stddev | .006892 | .0000833 | .0001050 | .4560 | .0007343 | .0014367 |
| %RSD | .3540484 | 1.349862 | 1.510542 | .1148327 | .6080662 | 1.059829 |
| #1 | 1.953532 | .0062438 | .0069184 | 397.1789 | .1202363 | .1371703 |
| #2 | 1.946424 | .0061915 | .0068687 | 396.5781 | .1216045 | .1351123 |
| #3 | 1.939751 | .0060806 | .0070703 | 397.4726 | .1204581 | .1344046 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5826325 | 177.0549 | 15.71305 | 55.84403 | .1765829 | -.008941 |
| Stddev | .0074096 | .2155 | .01622 | .01366 | .0011023 | .001839 |
| %RSD | 1.271752 | .1216857 | .1032316 | .0244603 | .6242614 | 20.56629 |
| #1 | .5749913 | 176.9616 | 15.73166 | 55.82856 | .1778193 | -.007874 |
| #2 | .5831198 | 177.3013 | 15.70188 | 55.85440 | .1757026 | -.011064 |
| #3 | .5897865 | 176.9019 | 15.70562 | 55.84914 | .1762270 | -.007884 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6931650 | .1659617 | 2.160077 | 7.516835 | F 11.10467 | -.360835 |
| Stddev | .0159472 | .0042903 | .007903 | .217398 | .00693 | .004531 |
| %RSD | 2.300642 | 2.585118 | .3658761 | 2.892154 | .0624195 | 1.255691 |
| #1 | .6984473 | .1610431 | 2.167849 | 7.428632 | 11.10630 | -.365250 |
| #2 | .7058008 | .1689335 | 2.160333 | 7.357399 | 11.09707 | -.356197 |
| #3 | .6752468 | .1679083 | 2.152049 | 7.764473 | 11.11065 | -.361058 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5127-15 Acquired: 01/03/2025 20:43:16 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHMD8 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0094439 | 2.187866 | 5.155952 | .1248266 | .7176488 | .2734987 |
| Stddev | .0004778 | .004311 | .019891 | .0005624 | .0017948 | .0007095 |
| %RSD | 5.058993 | .1970220 | .3857892 | .4505721 | .2500939 | .2594307 |
| #1 | .0088973 | 2.192594 | 5.170481 | .1242416 | .7157385 | .2740004 |
| #2 | .0097817 | 2.186848 | 5.164095 | .1248747 | .7192998 | .2726869 |
| #3 | .0096527 | 2.184155 | 5.133282 | .1253634 | .7179081 | .2738088 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0844664 |
| Stddev | .0008860 |
| %RSD | 1.048998 |
| #1 | .0836023 |
| #2 | .0853729 |
| #3 | .0844240 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2107.945 | 21766.43 | 2152.870 | 1593.147 | 1844.270 |
| Stddev | 8.195 | 122.49 | .949 | 3.810 | 5.868 |
| %RSD | .3887877 | .5627296 | .0440780 | .2391210 | .3181549 |
| #1 | 2116.871 | 21816.36 | 2153.668 | 1597.178 | 1850.870 |
| #2 | 2100.760 | 21856.07 | 2153.122 | 1592.657 | 1842.294 |
| #3 | 2106.206 | 21626.87 | 2151.821 | 1589.606 | 1839.645 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV105 Acquired: 01/03/2025 20:47:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV105 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.018794 | 4.885438 | 24.90570 | 4.914834 | 4.917710 | 402.2096 |
| Stddev | .015961 | .019617 | .04083 | .006486 | .013162 | .0913 |
| %RSD | .3180228 | .4015345 | .1639512 | .1319596 | .2676473 | .0227037 |
| | | | | | | |
| #1 | 5.000385 | 4.906296 | 24.94763 | 4.922064 | 4.925348 | 402.3081 |
| #2 | 5.028755 | 4.882658 | 24.90340 | 4.909530 | 4.902512 | 402.1929 |
| #3 | 5.027242 | 4.867359 | 24.86606 | 4.912906 | 4.925271 | 402.1278 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 10.27461 | .5188284 | 2.506519 | 409.8528 | 15.53286 | 2.520104 |
| Stddev | .03152 | .0016182 | .004035 | 1.0336 | .01198 | .005577 |
| %RSD | .3067836 | .3119036 | .1609969 | .2521841 | .0771553 | .2212866 |
| | | | | | | |
| #1 | 10.29227 | .5200231 | 2.511152 | 411.0351 | 15.53570 | 2.526539 |
| #2 | 10.23821 | .5194753 | 2.504641 | 409.1206 | 15.54316 | 2.516688 |
| #3 | 10.29334 | .5169867 | 2.503766 | 409.4026 | 15.51970 | 2.517085 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 15.41470 | 408.7359 | 15.30672 | 405.8021 | 2.528403 | 1.258168 |
| Stddev | .05975 | .2773 | .01498 | .6645 | .002646 | .003105 |
| %RSD | .3876488 | .0678482 | .0978857 | .1637617 | .1046446 | .2467843 |
| | | | | | | |
| #1 | 15.47853 | 409.0557 | 15.32005 | 406.5443 | 2.530722 | 1.255806 |
| #2 | 15.36010 | 408.5888 | 15.30960 | 405.2621 | 2.528966 | 1.261685 |
| #3 | 15.40547 | 408.5630 | 15.29050 | 405.5999 | 2.525521 | 1.257014 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 409.3776 | 2.544431 | 14.77207 | 153.7985 | 4.967433 | F 4.492403 |
| Stddev | 1.7475 | .031524 | .07664 | .7879 | .005835 | .010539 |
| %RSD | .4268720 | 1.238934 | .5187887 | .5122919 | .1174671 | .2346027 |
| | | | | | | |
| #1 | 411.0254 | 2.580584 | 14.69035 | 154.6820 | 4.971986 | 4.480432 |
| #2 | 409.5625 | 2.522684 | 14.78354 | 153.1687 | 4.960855 | 4.500283 |
| #3 | 407.5450 | 2.530025 | 14.84233 | 153.5448 | 4.969458 | 4.496495 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV105 Acquired: 01/03/2025 20:47:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV105 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.910838 | 5.004274 | 5.086252 | 5.042880 | 5.112843 | 4.857784 |
| Stddev | .011170 | .012073 | .012407 | .012016 | .006361 | .010031 |
| %RSD | .2274552 | .2412501 | .2439289 | .2382773 | .1244077 | .2064883 |
| | | | | | | |
| #1 | 4.906856 | 5.006255 | 5.086763 | 5.056650 | 5.120150 | 4.869309 |
| #2 | 4.902204 | 5.015234 | 5.098395 | 5.037465 | 5.108546 | 4.851025 |
| #3 | 4.923453 | 4.991334 | 5.073598 | 5.034524 | 5.109832 | 4.853018 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | 4.900919 |
| Stddev | .015787 |
| %RSD | .3221239 |
| | |
| #1 | 4.909938 |
| #2 | 4.882690 |
| #3 | 4.910130 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1527.477 | 16728.52 | 1694.354 | 1142.373 | 1639.502 |
| Stddev | 4.080 | 41.94 | 5.872 | 3.225 | 2.594 |
| %RSD | .2671021 | .2506888 | .3465699 | .2823133 | .1582361 |
| | | | | | |
| #1 | 1528.075 | 16680.62 | 1689.086 | 1144.922 | 1636.556 |
| #2 | 1531.225 | 16746.28 | 1693.292 | 1143.449 | 1641.445 |
| #3 | 1523.132 | 16758.65 | 1700.685 | 1138.747 | 1640.506 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB105 Acquired: 01/03/2025 20:50:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB105 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0001183 | .0015317 | .0008377 | .0067524 | -.000771 | .0053553 | -.002127 |
| Stddev | .0003515 | .0039148 | .0033798 | .0036842 | .002294 | .0081034 | .001354 |
| %RSD | 297.1693 | 255.5811 | 403.4748 | 54.56070 | 297.5631 | 151.3162 | 63.67278 |
| #1 | .0000420 | .0013004 | .0026333 | .0109700 | -.003136 | .0144580 | -.001442 |
| #2 | .0005016 | -.002262 | -.003061 | .0051248 | .001444 | -.001072 | -.001253 |
| #3 | -.000189 | .005557 | .002941 | .0041623 | -.000620 | .002680 | -.003687 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0000077 | -.000012 | -.017258 | .0004277 | -.000033 | .0001149 | .0451028 |
| Stddev | .0002158 | .000049 | .028339 | .0001246 | .000837 | .0133402 | .0406315 |
| %RSD | 2801.624 | 400.6734 | 164.2065 | 29.14199 | 2561.709 | 11613.24 | 90.08641 |
| #1 | -.000162 | -.000069 | .009377 | .0004906 | .000770 | -.009280 | .0831092 |
| #2 | .000251 | .000018 | -.014113 | .0005083 | .000032 | .015384 | .0499229 |
| #3 | -.000065 | .000014 | -.047038 | .0002841 | -.000900 | -.005760 | .0022762 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0046527 | -.100055 | -.000940 | .0016232 | .1113632 | -.007749 | -.000037 |
| Stddev | .0010360 | .105589 | .000321 | .0020920 | .0127087 | .007913 | .000335 |
| %RSD | 22.26587 | 105.5314 | 34.08203 | 128.8817 | 11.41197 | 102.1096 | 897.4407 |
| #1 | .0041238 | -.144012 | -.001104 | .0040205 | .1110799 | -.011602 | .000014 |
| #2 | .0039880 | -.176564 | -.001146 | .0006815 | .1242112 | -.012998 | .000269 |
| #3 | .0058464 | .020412 | -.000571 | .0001676 | .0987984 | .001352 | -.000396 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2919990 | -.002382 | .0075868 | -.000161 | -.010551 | -.001838 | .0013262 |
| Stddev | .2856004 | .003812 | .0032785 | .000793 | .001689 | .000113 | .0008300 |
| %RSD | 97.80868 | 160.0229 | 43.21290 | 493.5046 | 16.00447 | 6.167930 | 62.58521 |
| #1 | .3814525 | .000734 | .0087008 | .000737 | -.011347 | -.001960 | .0022801 |
| #2 | -.027621 | -.001248 | .0038965 | -.000764 | -.008611 | -.001819 | .0007694 |
| #3 | .522165 | -.006632 | .0101632 | -.000455 | -.011695 | -.001735 | .0009290 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB105 Acquired: 01/03/2025 20:50:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB105 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.008766 | -.000325 | .0063660 |
| Stddev | .003780 | .000184 | .0017057 |
| %RSD | 43.12136 | 56.55360 | 26.79346 |
| | | | |
| #1 | -.011605 | -.000536 | .0048301 |
| #2 | -.010216 | -.000196 | .0060662 |
| #3 | -.004475 | -.000244 | .0082017 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1819.565 | 18600.15 | 1807.413 | 1374.624 | 2015.568 |
| Stddev | 7.007 | 5.17 | 14.903 | 3.140 | 9.898 |
| %RSD | .3851113 | .0278040 | .8245437 | .2284482 | .4910649 |
| | | | | | |
| #1 | 1827.416 | 18597.19 | 1791.172 | 1374.102 | 2025.995 |
| #2 | 1813.945 | 18606.12 | 1810.608 | 1377.992 | 2006.302 |
| #3 | 1817.334 | 18597.14 | 1820.459 | 1371.777 | 2014.407 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165506BL Acquired: 01/03/2025 20:54:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS506 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.001257 | .0000253 | -.001353 | .0056704 | .0022075 | .0075638 |
| Stddev | .004222 | .0007790 | .001115 | .0015674 | .0046275 | .0192968 |
| %RSD | 335.7914 | 3080.110 | 82.42485 | 27.64220 | 209.6247 | 255.1212 |
| #1 | .001525 | .0003797 | -.001141 | .0042144 | -.000845 | -.012269 |
| #2 | .000818 | -.000868 | -.000359 | .0054674 | -.000065 | .026276 |
| #3 | -.006115 | .000564 | -.002559 | .0073295 | .007532 | .008683 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.006320 | .0000498 | -.000057 | -.120854 | .0005429 | -.000457 |
| Stddev | .001030 | .0001099 | .000052 | .033888 | .0011027 | .000206 |
| %RSD | 16.29961 | 220.8020 | 90.62083 | 28.04060 | 203.1176 | 45.00767 |
| #1 | -.006900 | .0001455 | -.000104 | -.090956 | .0013446 | -.000624 |
| #2 | -.005131 | -.000070 | -.000001 | -.157666 | -.000715 | -.000521 |
| #3 | -.006930 | .000074 | -.000067 | -.113938 | .000999 | -.000227 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.006127 | .0075753 | .0044627 | -.088845 | -.001035 | .0004484 |
| Stddev | .016157 | .0527633 | .0010615 | .136726 | .000955 | .0004758 |
| %RSD | 263.7282 | 696.5158 | 23.78529 | 153.8929 | 92.21539 | 106.1033 |
| #1 | -.024672 | -.052486 | .0051717 | .034863 | -.000673 | -.000065 |
| #2 | .004911 | .046462 | .0049741 | -.065751 | -.000315 | .000536 |
| #3 | .001381 | .028751 | .0032423 | -.235647 | -.002118 | .000874 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0438766 | -.004754 | -.000215 | .0636459 | -.001530 | -.000023 |
| Stddev | .0353988 | .008668 | .000536 | .1714117 | .002243 | .000491 |
| %RSD | 80.67812 | 182.3540 | 248.8869 | 269.3207 | 146.6027 | 2168.848 |
| #1 | .0810158 | .005066 | -.000438 | -.047845 | -.000752 | .000241 |
| #2 | .0400917 | -.007982 | .000396 | .261022 | -.004058 | -.000590 |
| #3 | .0105223 | -.011345 | -.000603 | -.022240 | .000221 | .000280 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165506BL Acquired: 01/03/2025 20:54:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS506 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000515 | -.009672 | -.003770 | F -.017318 | -.005330 | -.000267 |
| Stddev | .000426 | .004237 | .000592 | .000784 | .003429 | .000093 |
| %RSD | 82.72236 | 43.80378 | 15.69905 | 4.527527 | 64.33679 | 34.75905 |
| | | | | | | |
| #1 | -.000740 | -.004846 | -.003091 | -.017255 | -.003027 | -.000342 |
| #2 | -.000024 | -.012780 | -.004045 | -.018132 | -.003692 | -.000296 |
| #3 | -.000783 | -.011390 | -.004174 | -.016568 | -.009271 | -.000163 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | -.001649 |
| Stddev | .001840 |
| %RSD | 111.5955 |
| | |
| #1 | .000023 |
| #2 | -.001349 |
| #3 | -.003621 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1835.259 | 18808.27 | 1833.136 | 1390.319 | 2032.410 |
| Stddev | 3.116 | 46.98 | 20.175 | 6.640 | 6.211 |
| %RSD | .1697623 | .2497986 | 1.100584 | .4776243 | .3056109 |
| | | | | | |
| #1 | 1832.482 | 18754.36 | 1821.991 | 1382.655 | 2025.461 |
| #2 | 1834.665 | 18829.97 | 1856.425 | 1393.926 | 2034.345 |
| #3 | 1838.628 | 18840.49 | 1820.992 | 1394.375 | 2037.423 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165506BS Acquired: 01/03/2025 20:58:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS506 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0223933 | .0518760 | .0179377 | .0618199 | .1109769 | .3971356 |
| Stddev | .0037312 | .0055233 | .0040901 | .0062118 | .0022252 | .0267045 |
| %RSD | 16.66212 | 10.64709 | 22.80157 | 10.04823 | 2.005108 | 6.724285 |
| #1 | .0236425 | .0554755 | .0211534 | .0563536 | .1127876 | .4205322 |
| #2 | .0253397 | .0546357 | .0133343 | .0685750 | .1084928 | .4028323 |
| #3 | .0181978 | .0455167 | .0193253 | .0605311 | .1116503 | .3680424 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4110614 | .0105437 | .0098696 | 10.32410 | .0211043 | .1010327 |
| Stddev | .0028767 | .0000564 | .0000442 | .07240 | .0009366 | .0009224 |
| %RSD | .6998233 | .5352849 | .4483604 | .7012976 | 4.437896 | .9130072 |
| #1 | .4141943 | .0104796 | .0098299 | 10.33488 | .0213383 | .1015846 |
| #2 | .4085388 | .0105653 | .0098616 | 10.39051 | .0219017 | .0999678 |
| #3 | .4104512 | .0105861 | .0099174 | 10.24691 | .0200729 | .1015458 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0439101 | .1958712 | .0373480 | 10.44782 | .0795464 | .0203352 |
| Stddev | .0079275 | .0204797 | .0028115 | .06105 | .0020722 | .0008908 |
| %RSD | 18.05385 | 10.45568 | 7.527897 | .5842955 | 2.604989 | 4.380373 |
| #1 | .0479927 | .2054459 | .0352369 | 10.43187 | .0816357 | .0194043 |
| #2 | .0347735 | .2098098 | .0405394 | 10.51526 | .0774917 | .0211795 |
| #3 | .0489642 | .1723579 | .0362676 | 10.39634 | .0795117 | .0204217 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 7.576662 | .0979204 | .1179765 | 9.510684 | .0184639 | F -.001208 |
| Stddev | .059396 | .0072920 | .0011912 | .164296 | .0010986 | .001704 |
| %RSD | .7839298 | 7.446810 | 1.009660 | 1.727489 | 5.950055 | 141.0494 |
| #1 | 7.598478 | .1002708 | .1182840 | 9.690923 | .0182480 | -.002929 |
| #2 | 7.622065 | .1037473 | .1166617 | 9.369295 | .0174893 | .000479 |
| #3 | 7.509444 | .0897431 | .1189837 | 9.471834 | .0196544 | -.001175 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165506BS Acquired: 01/03/2025 20:58:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS506 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0209317 | .1648274 | F .4929516 | F -.003427 | .1860156 | .2123127 |
| Stddev | .0006027 | .0078038 | .0033762 | .001918 | .0060144 | .0013391 |
| %RSD | 2.879243 | 4.734522 | .6848864 | 55.97961 | 3.233256 | .6306955 |
| | | | | | | |
| #1 | .0206535 | .1558534 | .4941202 | -.004136 | .1836760 | .2128335 |
| #2 | .0216232 | .1700215 | .4955882 | -.004889 | .1815225 | .2133132 |
| #3 | .0205183 | .1686071 | .4891464 | -.001255 | .1928482 | .2107915 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0268758 |
| Stddev | .0046069 |
| %RSD | 17.14133 |
| | |
| #1 | .0317673 |
| #2 | .0262408 |
| #3 | .0226194 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1808.088 | 18558.65 | 1801.006 | 1362.804 | 2000.466 |
| Stddev | 4.082 | 112.62 | 7.987 | 8.302 | 2.378 |
| %RSD | .2257841 | .6068432 | .4434471 | .6092022 | .1188622 |
| | | | | | |
| #1 | 1810.642 | 18454.98 | 1795.562 | 1353.239 | 1998.246 |
| #2 | 1810.242 | 18542.49 | 1797.282 | 1367.026 | 2002.975 |
| #3 | 1803.380 | 18678.48 | 1810.174 | 1368.147 | 2000.178 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165632BL Acquired: 01/03/2025 21:02:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS632 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.003553 | .0016824 | -.002483 | .0000076 | .0046906 | .0046793 |
| Stddev | .003488 | .0033177 | .001564 | .0032956 | .0019562 | .0071889 |
| %RSD | 98.16842 | 197.1979 | 62.99782 | 43172.02 | 41.70505 | 153.6325 |
| #1 | -.005883 | .0001376 | -.002150 | -.003664 | .0046931 | -.003553 |
| #2 | .000457 | .0054909 | -.004188 | .002709 | .0066456 | .009720 |
| #3 | -.005234 | -.000581 | -.001112 | .000978 | .0027332 | .007870 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.004487 | -.000115 | .0000050 | -.047972 | -.000641 | -.000006 |
| Stddev | .004254 | .000275 | .0000944 | .010043 | .000671 | .000466 |
| %RSD | 94.80787 | 238.8177 | 1887.228 | 20.93608 | 104.6552 | 7618.927 |
| #1 | -.009101 | .000196 | -.000034 | -.037846 | .000026 | .000245 |
| #2 | -.003636 | -.000215 | -.000063 | -.057931 | -.001317 | .000281 |
| #3 | -.000722 | -.000326 | .000113 | -.048139 | -.000634 | -.000544 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.017020 | -.004967 | .0050480 | -.132243 | -.000623 | .0010331 |
| Stddev | .013731 | .007490 | .0013422 | .031920 | .001078 | .0005766 |
| %RSD | 80.67381 | 150.8093 | 26.58905 | 24.13720 | 173.1350 | 55.81831 |
| #1 | -.002754 | -.007001 | .0044875 | -.096662 | -.001513 | .0003674 |
| #2 | -.018162 | .003331 | .0040768 | -.158361 | .000577 | .0013523 |
| #3 | -.030144 | -.011229 | .0065796 | -.141706 | -.000933 | .0013795 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0000154 | -.003663 | -.000563 | .1199239 | .0006298 | -.003307 |
| Stddev | .0148456 | .008077 | .000356 | .0900399 | .0017857 | .001437 |
| %RSD | 96178.67 | 220.5224 | 63.21790 | 75.08088 | 283.5381 | 43.43538 |
| #1 | .0078960 | .001912 | -.000971 | .0423865 | .0022055 | -.003711 |
| #2 | -.017109 | -.012926 | -.000399 | .2186772 | -.001310 | -.001712 |
| #3 | .009259 | .000026 | -.000318 | .0987080 | .000994 | -.004499 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165632BL Acquired: 01/03/2025 21:02:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS632 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000755 | -.009615 | -.002711 | F -.017298 | -.005226 | -.000149 |
| Stddev | .000249 | .003076 | .001175 | .002613 | .000554 | .000299 |
| %RSD | 32.96535 | 31.99554 | 43.36436 | 15.10372 | 10.60187 | 200.4294 |
| | | | | | | |
| #1 | -.001024 | -.009293 | -.003248 | -.017442 | -.005155 | -.000145 |
| #2 | -.000707 | -.012840 | -.003521 | -.014616 | -.005813 | -.000450 |
| #3 | -.000533 | -.006712 | -.001363 | -.019835 | -.004711 | .000148 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | -.006881 |
| Stddev | .004694 |
| %RSD | 68.22441 |
| | |
| #1 | -.001740 |
| #2 | -.007963 |
| #3 | -.010940 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1827.175 | 18563.14 | 1805.761 | 1373.960 | 2021.910 |
| Stddev | .609 | 38.13 | 4.496 | 1.213 | 3.362 |
| %RSD | .0333042 | .2054203 | .2489866 | .0882728 | .1662801 |
| | | | | | |
| #1 | 1826.956 | 18607.11 | 1810.368 | 1375.325 | 2019.046 |
| #2 | 1827.863 | 18543.27 | 1801.384 | 1373.551 | 2021.072 |
| #3 | 1826.706 | 18539.05 | 1805.530 | 1373.005 | 2025.612 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165632BS Acquired: 01/03/2025 21:06:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS632 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0214069 | .0511189 | .0157986 | .0633734 | .1084030 | .4058031 |
| Stddev | .0018893 | .0032620 | .0031385 | .0050725 | .0016740 | .0323583 |
| %RSD | 8.825751 | 6.381292 | 19.86542 | 8.004210 | 1.544275 | 7.973890 |
| | | | | | | |
| #1 | .0235688 | .0485166 | .0173065 | .0692172 | .1077685 | .4310168 |
| #2 | .0200725 | .0547784 | .0178985 | .0607952 | .1071389 | .3693161 |
| #3 | .0205794 | .0500616 | .0121908 | .0601077 | .1103015 | .4170762 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4025858 | .0105134 | .0097262 | 10.08805 | .0208094 | .0993491 |
| Stddev | .0032061 | .0001448 | .0000456 | .07423 | .0003482 | .0006206 |
| %RSD | .7963712 | 1.377370 | .4693850 | .7358675 | 1.673104 | .6246297 |
| | | | | | | |
| #1 | .4005723 | .0106789 | .0096766 | 10.00541 | .0207305 | .0999244 |
| #2 | .4062829 | .0104517 | .0097666 | 10.14908 | .0211902 | .0986915 |
| #3 | .4009021 | .0104097 | .0097354 | 10.10967 | .0205074 | .0994314 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0523066 | .2339239 | .0365997 | 10.24635 | .0777299 | .0201950 |
| Stddev | .0113897 | .0594419 | .0008126 | .16577 | .0009319 | .0006401 |
| %RSD | 21.77483 | 25.41080 | 2.220145 | 1.617799 | 1.198913 | 3.169688 |
| | | | | | | |
| #1 | .0471430 | .1912443 | .0370988 | 10.19671 | .0772267 | .0194582 |
| #2 | .0653635 | .2087108 | .0370383 | 10.11108 | .0771578 | .0206148 |
| #3 | .0444133 | .3018167 | .0356621 | 10.43126 | .0788053 | .0205119 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 7.410801 | .0968587 | .1155406 | 9.408834 | .0193141 | F -.004330 |
| Stddev | .029920 | .0162871 | .0009013 | .251603 | .0023245 | .001324 |
| %RSD | .4037388 | 16.81530 | .7800451 | 2.674114 | 12.03534 | 30.58038 |
| | | | | | | |
| #1 | 7.444855 | .0825964 | .1159724 | 9.138370 | .0219211 | -.004515 |
| #2 | 7.388727 | .1146063 | .1161448 | 9.635941 | .0185639 | -.005552 |
| #3 | 7.398822 | .0933734 | .1145047 | 9.452191 | .0174573 | -.002923 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165632BS Acquired: 01/03/2025 21:06:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS632 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0205381 | .1655846 | F .4851462 | F -.004621 | .1888134 | .2091140 |
| Stddev | .0002079 | .0076412 | .0020850 | .000288 | .0066629 | .0006565 |
| %RSD | 1.012082 | 4.614660 | .4297668 | 6.242162 | 3.528839 | .3139429 |
| | | | | | | |
| #1 | .0205944 | .1722319 | .4874883 | -.004563 | .1811999 | .2085837 |
| #2 | .0203078 | .1672856 | .4834922 | -.004934 | .1935793 | .2098483 |
| #3 | .0207119 | .1572363 | .4844581 | -.004366 | .1916611 | .2089101 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0218840 |
| Stddev | .0027026 |
| %RSD | 12.34957 |
| | |
| #1 | .0188137 |
| #2 | .0229355 |
| #3 | .0239028 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1820.406 | 18604.18 | 1809.971 | 1369.627 | 2015.432 |
| Stddev | .963 | 109.68 | 4.285 | 3.264 | 1.341 |
| %RSD | .0529113 | .5895633 | .2367504 | .2383047 | .0665572 |
| | | | | | |
| #1 | 1820.977 | 18669.57 | 1805.048 | 1365.966 | 2015.840 |
| #2 | 1819.294 | 18477.55 | 1812.862 | 1370.680 | 2013.935 |
| #3 | 1820.947 | 18665.42 | 1812.004 | 1372.234 | 2016.523 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165726BL Acquired: 01/03/2025 21:10:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS726 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.003697 | -.000347 | -.001355 | .0018664 | .0004198 | -.025270 |
| Stddev | .002104 | .004840 | .001684 | .0043117 | .0014821 | .049967 |
| %RSD | 56.91687 | 1395.610 | 124.3345 | 231.0210 | 352.9984 | 197.7338 |
| #1 | -.005265 | -.004218 | -.002903 | .0050461 | .0016522 | .011059 |
| #2 | -.004522 | -.001902 | .000439 | .0035943 | -.001225 | -.004616 |
| #3 | -.001305 | .005079 | -.001601 | -.003041 | .000832 | -.082252 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.005767 | -.000015 | -.000040 | -.054383 | -.000712 | .0000371 |
| Stddev | .003123 | .000121 | .000090 | .041261 | .000648 | .0006048 |
| %RSD | 54.15870 | 811.4022 | 224.3355 | 75.87145 | 91.04060 | 1629.632 |
| #1 | -.003679 | .000121 | .000019 | -.046175 | -.001038 | -.000644 |
| #2 | -.009357 | -.000054 | .000004 | -.017843 | .000034 | .000510 |
| #3 | -.004265 | -.000111 | -.000144 | -.099131 | -.001133 | .000246 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.007335 | .0021320 | .0060729 | -.142581 | -.000954 | .0004807 |
| Stddev | .010689 | .0471675 | .0023470 | .026313 | .000609 | .0018279 |
| %RSD | 145.7344 | 2212.407 | 38.64769 | 18.45447 | 63.85884 | 380.2218 |
| #1 | -.002369 | .0420090 | .0034253 | -.160249 | -.000474 | -.000407 |
| #2 | -.000031 | -.049934 | .0068958 | -.155153 | -.000748 | .002583 |
| #3 | -.019604 | .014320 | .0078978 | -.112341 | -.001639 | -.000734 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.018596 | -.002512 | -.001384 | .0852797 | -.002878 | -.004916 |
| Stddev | .029339 | .005378 | .001026 | .1794741 | .000997 | .000723 |
| %RSD | 157.7659 | 214.0814 | 74.13143 | 210.4536 | 34.65508 | 14.69804 |
| #1 | -.022583 | -.004614 | -.002350 | .0026907 | -.001758 | -.004791 |
| #2 | -.045738 | -.006521 | -.001497 | .2911805 | -.003670 | -.004264 |
| #3 | .012532 | .003599 | -.000306 | -.038032 | -.003205 | -.005693 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165726BL Acquired: 01/03/2025 21:10:47 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS726 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000350 | -.013565 | -.003523 | F -.018205 | -.004076 | .0000109 |
| Stddev | .000740 | .001043 | .000354 | .002480 | .002679 | .0000723 |
| %RSD | 211.5852 | 7.686954 | 10.03570 | 13.62162 | 65.71467 | 664.5559 |
| | | | | | | |
| #1 | -.001144 | -.013743 | -.003275 | -.020831 | -.005243 | .0000700 |
| #2 | -.000225 | -.012445 | -.003928 | -.017879 | -.001012 | -.000070 |
| #3 | .000320 | -.014508 | -.003367 | -.015904 | -.005973 | .000032 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | -.011445 |
| Stddev | .004145 |
| %RSD | 36.21468 |
| | |
| #1 | -.014687 |
| #2 | -.012874 |
| #3 | -.006775 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1870.577 | 19171.22 | 1862.510 | 1413.518 | 2071.534 |
| Stddev | 2.925 | 109.86 | 4.423 | 7.413 | 3.562 |
| %RSD | .1563741 | .5730559 | .2374633 | .5244594 | .1719376 |
| | | | | | |
| #1 | 1867.224 | 19297.38 | 1866.752 | 1422.031 | 2067.421 |
| #2 | 1872.607 | 19096.62 | 1862.851 | 1408.488 | 2073.547 |
| #3 | 1871.900 | 19119.66 | 1857.927 | 1410.034 | 2073.633 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165726BS Acquired: 01/03/2025 21:14:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS726 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0201319 | .0511919 | .0166744 | .0591416 | .1070009 | .3969919 |
| Stddev | .0036683 | .0032512 | .0022113 | .0015472 | .0009282 | .0566595 |
| %RSD | 18.22127 | 6.351019 | 13.26186 | 2.616019 | .8674373 | 14.27221 |
| | | | | | | |
| #1 | .0232231 | .0521652 | .0141368 | .0573621 | .1064678 | .3348383 |
| #2 | .0210941 | .0475653 | .0176976 | .0598949 | .1064622 | .4103770 |
| #3 | .0160784 | .0538454 | .0181889 | .0601678 | .1080726 | .4457604 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4092805 | .0104986 | .0097026 | 10.05507 | .0208103 | .0992810 |
| Stddev | .0004044 | .0000479 | .0002135 | .07247 | .0007031 | .0009030 |
| %RSD | .0988145 | .4558325 | 2.200784 | .7207401 | 3.378452 | .9095181 |
| | | | | | | |
| #1 | .4094074 | .0105157 | .0097525 | 10.00277 | .0216220 | .1002007 |
| #2 | .4088278 | .0105355 | .0094685 | 10.13779 | .0204150 | .0983957 |
| #3 | .4096063 | .0104445 | .0098868 | 10.02464 | .0203939 | .0992466 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0464451 | .2203678 | .0376027 | 10.19974 | .0779905 | .0196362 |
| Stddev | .0048056 | .0753433 | .0012366 | .04542 | .0006425 | .0013925 |
| %RSD | 10.34684 | 34.18979 | 3.288527 | .4453248 | .8237976 | 7.091331 |
| | | | | | | |
| #1 | .0411742 | .1337410 | .0361852 | 10.24318 | .0786704 | .0194047 |
| #2 | .0505830 | .2706425 | .0384605 | 10.15256 | .0773934 | .0211299 |
| #3 | .0475779 | .2567199 | .0381623 | 10.20347 | .0779076 | .0183740 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 7.388636 | .0967706 | .1141049 | 9.363015 | .0194080 | F -.004261 |
| Stddev | .021457 | .0104000 | .0016504 | .107990 | .0007191 | .000857 |
| %RSD | .2904061 | 10.74701 | 1.446420 | 1.153368 | 3.705066 | 20.12095 |
| | | | | | | |
| #1 | 7.410687 | .1020420 | .1155004 | 9.287337 | .0185804 | -.003523 |
| #2 | 7.387394 | .0847905 | .1145310 | 9.486682 | .0198809 | -.005202 |
| #3 | 7.367827 | .1034793 | .1122831 | 9.315025 | .0197625 | -.004059 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165726BS Acquired: 01/03/2025 21:14:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS726 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0195964 | .1635591 | F .4851040 | F -.004972 | .1971110 | .2082546 |
| Stddev | .0007956 | .0057810 | .0036169 | .001007 | .0065066 | .0005582 |
| %RSD | 4.059909 | 3.534486 | .7455945 | 20.25306 | 3.300962 | .2680555 |
| | | | | | | |
| #1 | .0193989 | .1598898 | .4886558 | -.004473 | .1931485 | .2088988 |
| #2 | .0204721 | .1702230 | .4814253 | -.006131 | .2046203 | .2079123 |
| #3 | .0189181 | .1605645 | .4852310 | -.004312 | .1935642 | .2079528 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | F .0201192 |
| Stddev | .0033442 |
| %RSD | 16.62212 |
| | |
| #1 | .0162576 |
| #2 | .0220394 |
| #3 | .0220607 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1829.210 | 18935.45 | 1825.782 | 1393.709 | 2024.040 |
| Stddev | 14.361 | 235.99 | 8.082 | 12.818 | 12.103 |
| %RSD | .7851115 | 1.246296 | .4426473 | .9197100 | .5979476 |
| | | | | | |
| #1 | 1812.725 | 18814.76 | 1817.798 | 1384.308 | 2010.101 |
| #2 | 1835.899 | 18784.21 | 1833.958 | 1388.509 | 2031.879 |
| #3 | 1839.008 | 19207.38 | 1825.589 | 1408.310 | 2030.141 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165741BL Acquired: 01/03/2025 21:18:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS741 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0028066 | -.001534 | -.000279 | .0078581 | -.001148 | -.011688 |
| Stddev | .0027792 | .003935 | .000735 | .0013628 | .002137 | .038452 |
| %RSD | 99.02246 | 256.5339 | 263.6892 | 17.34275 | 186.1053 | 329.0020 |
| #1 | .0044045 | .001592 | .000316 | .0068360 | .001305 | .012257 |
| #2 | .0044179 | -.000241 | -.001101 | .0094053 | -.002149 | -.056042 |
| #3 | -.000403 | -.005952 | -.000051 | .0073328 | -.002601 | .008722 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.006544 | -.000036 | .0000167 | -.043454 | -.000676 | -.000254 |
| Stddev | .001348 | .000105 | .0000478 | .033954 | .000465 | .000129 |
| %RSD | 20.59609 | 291.8183 | 285.9200 | 78.13789 | 68.77573 | 50.87765 |
| #1 | -.006351 | -.000039 | .0000448 | -.081760 | -.000802 | -.000402 |
| #2 | -.007978 | -.000140 | -.000039 | -.017063 | -.001065 | -.000163 |
| #3 | -.005304 | .000071 | .000044 | -.031539 | -.000161 | -.000197 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.002873 | .0195204 | .0050555 | -.043438 | -.001068 | .0009810 |
| Stddev | .010357 | .0354275 | .0015175 | .077127 | .001058 | .0009717 |
| %RSD | 360.4446 | 181.4895 | 30.01700 | 177.5552 | 99.09129 | 99.04729 |
| #1 | .008919 | .0491276 | .0036090 | -.132268 | -.002261 | .0013595 |
| #2 | -.010491 | .0291642 | .0049223 | -.004535 | -.000701 | -.000123 |
| #3 | -.007048 | -.019730 | .0066352 | .006489 | -.000242 | .001706 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.016803 | -.010219 | -.000731 | -.142460 | -.000363 | -.004251 |
| Stddev | .012126 | .007504 | .000378 | .088907 | .001519 | .001011 |
| %RSD | 72.16890 | 73.43067 | 51.71401 | 62.40848 | 418.4705 | 23.77731 |
| #1 | -.029094 | -.018030 | -.001123 | -.135118 | -.001180 | -.003469 |
| #2 | -.016464 | -.009562 | -.000369 | -.234810 | .001390 | -.005392 |
| #3 | -.004849 | -.003065 | -.000699 | -.057451 | -.001299 | -.003891 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165741BL Acquired: 01/03/2025 21:18:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: PBS741 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000466 | -.013487 | -.002103 | F -.018243 | -.006107 | -.000238 |
| Stddev | .000181 | .000862 | .000437 | .001868 | .004181 | .000390 |
| %RSD | 38.95781 | 6.394876 | 20.78784 | 10.23976 | 68.47200 | 164.0958 |
| | | | | | | |
| #1 | -.000274 | -.014063 | -.001642 | -.016171 | -.010614 | -.000598 |
| #2 | -.000489 | -.012495 | -.002157 | -.018761 | -.005352 | -.000292 |
| #3 | -.000635 | -.013902 | -.002511 | -.019798 | -.002354 | .000177 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | -.008137 |
| Stddev | .005471 |
| %RSD | 67.23521 |
| | |
| #1 | -.005449 |
| #2 | -.014432 |
| #3 | -.004530 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1845.947 | 18819.27 | 1820.826 | 1386.754 | 2038.714 |
| Stddev | 4.542 | 74.42 | 5.392 | 4.016 | 4.268 |
| %RSD | .2460514 | .3954398 | .2961311 | .2895967 | .2093690 |
| | | | | | |
| #1 | 1851.103 | 18806.82 | 1824.458 | 1385.319 | 2042.684 |
| #2 | 1844.201 | 18751.87 | 1814.631 | 1383.652 | 2039.259 |
| #3 | 1842.538 | 18899.14 | 1823.390 | 1391.290 | 2034.199 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165741BS Acquired: 01/03/2025 21:22:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS741 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0231362 | .0465857 | .0156790 | .0597945 | .1068443 | .3678857 |
| Stddev | .0031001 | .0052898 | .0023458 | .0048781 | .0006639 | .0412261 |
| %RSD | 13.39953 | 11.35501 | 14.96148 | 8.158020 | .6213239 | 11.20622 |
| #1 | .0251430 | .0456244 | .0139500 | .0642386 | .1068533 | .4048620 |
| #2 | .0195656 | .0418424 | .0183492 | .0545754 | .1075036 | .3753620 |
| #3 | .0247000 | .0522902 | .0147377 | .0605695 | .1061760 | .3234330 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4010575 | .0104981 | .0097263 | 10.09915 | .0210063 | .0998132 |
| Stddev | .0037121 | .0000604 | .0000153 | .05437 | .0003633 | .0000941 |
| %RSD | .9255742 | .5750202 | .1573812 | .5383648 | 1.729569 | .0942599 |
| #1 | .4052068 | .0105674 | .0097089 | 10.04641 | .0213783 | .0999144 |
| #2 | .3999144 | .0104696 | .0097327 | 10.09603 | .0209883 | .0997283 |
| #3 | .3980515 | .0104572 | .0097374 | 10.15502 | .0206523 | .0997970 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0494668 | .1862434 | .0359720 | 10.28477 | .0769999 | .0202399 |
| Stddev | .0058574 | .0218105 | .0035782 | .07925 | .0000622 | .0009968 |
| %RSD | 11.84100 | 11.71075 | 9.947154 | .7705484 | .0807212 | 4.924932 |
| #1 | .0428902 | .1911317 | .0370158 | 10.34773 | .0769811 | .0191691 |
| #2 | .0513877 | .2051949 | .0319880 | 10.19578 | .0769493 | .0204097 |
| #3 | .0541225 | .1624035 | .0389123 | 10.31079 | .0770693 | .0211408 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 7.422465 | .0938242 | .1157250 | 9.334832 | .0188295 | F -.007557 |
| Stddev | .023932 | .0064712 | .0013875 | .125041 | .0017954 | .002007 |
| %RSD | .3224230 | 6.897152 | 1.198926 | 1.339509 | 9.534840 | 26.55466 |
| #1 | 7.406393 | .0991584 | .1157707 | 9.283753 | .0173018 | -.005242 |
| #2 | 7.449969 | .0956889 | .1143153 | 9.243416 | .0208070 | -.008806 |
| #3 | 7.411033 | .0866254 | .1170891 | 9.477326 | .0183798 | -.008623 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: PB165741BS Acquired: 01/03/2025 21:22:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: LCS741 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0192335 | .1693809 | F .4864442 | F -.003757 | .1910595 | .2085618 |
| Stddev | .0002389 | .0021803 | .0020168 | .000621 | .0031300 | .0008881 |
| %RSD | 1.241961 | 1.287207 | .4146097 | 16.52918 | 1.638213 | .4258380 |
| #1 | .0190363 | .1697837 | .4878773 | -.003926 | .1899100 | .2082207 |
| #2 | .0194991 | .1713317 | .4873174 | -.003069 | .1946017 | .2095700 |
| #3 | .0191650 | .1670273 | .4841379 | -.004276 | .1886668 | .2078948 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | F .0171404 |
| Stddev | .0030450 |
| %RSD | 17.76506 |
| #1 | .0205522 |
| #2 | .0161707 |
| #3 | .0146983 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1830.350 | 18729.67 | 1820.916 | 1376.112 | 2027.432 |
| Stddev | 6.089 | 35.02 | 4.188 | 3.926 | 5.565 |
| %RSD | .3326800 | .1869886 | .2299889 | .2853048 | .2744819 |
| #1 | 1830.896 | 18739.44 | 1819.934 | 1379.234 | 2023.823 |
| #2 | 1824.007 | 18758.76 | 1817.306 | 1377.397 | 2024.633 |
| #3 | 1836.149 | 18690.80 | 1825.508 | 1371.704 | 2033.841 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5058-03DLX2 Acquired: 01/03/2025 21:26:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0235040 | .0190437 | .1159366 | .0019592 | .0088242 | 27.13311 | .1766855 |
| Stddev | .0019599 | .0046577 | .0002769 | .0065209 | .0046760 | .22586 | .0013049 |
| %RSD | 8.338693 | 24.45801 | .2388241 | 332.8305 | 52.99041 | .8324014 | .7385551 |
| #1 | .0255828 | .0168985 | .1159996 | .0085165 | .0142227 | 27.30629 | .1781316 |
| #2 | .0232394 | .0243875 | .1156337 | -.004525 | .0062076 | 27.21538 | .1763292 |
| #3 | .0216899 | .0158452 | .1161766 | .001886 | .0060423 | 26.87765 | .1755957 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0024074 | .0014614 | 536.4161 | .0411421 | .0743134 | .1483414 | 74.97188 |
| Stddev | .0001073 | .0000857 | 2.0489 | .0015405 | .0002724 | .0125589 | .16077 |
| %RSD | 4.456465 | 5.862271 | .3819627 | 3.744312 | .3665461 | 8.466226 | .2144452 |
| #1 | .0024852 | .0013862 | 537.5660 | .0393641 | .0739995 | .1623939 | 75.10943 |
| #2 | .0024520 | .0014434 | 537.6318 | .0419836 | .0744887 | .1382133 | 75.01110 |
| #3 | .0022850 | .0015546 | 534.0506 | .0420785 | .0744518 | .1444171 | 74.79513 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.969102 | 135.9789 | .0672690 | -.004736 | .9942176 | .0791702 | .3183849 |
| Stddev | .025500 | .7652 | .0001919 | .001025 | .0182890 | .0085324 | .0020538 |
| %RSD | .5131635 | .5627224 | .2852840 | 21.63357 | 1.839535 | 10.77732 | .6450811 |
| #1 | 4.986039 | 136.4580 | .0670764 | -.004803 | 1.011355 | .0863417 | .3201460 |
| #2 | 4.981492 | 136.3822 | .0674602 | -.005725 | .974962 | .0697339 | .3161288 |
| #3 | 4.939775 | 135.0964 | .0672702 | -.003680 | .996336 | .0814350 | .3188800 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.138769 | 5.255769 | -.147256 | .0040878 | .6632090 | 7.010219 | .0139784 |
| Stddev | .160043 | .025434 | .004610 | .0012057 | .0041015 | .038785 | .0017967 |
| %RSD | 3.866925 | .4839268 | 3.130703 | 29.49455 | .6184333 | .5532583 | 12.85340 |
| #1 | 4.322899 | 5.251868 | -.141934 | .0050706 | .6589458 | 6.982549 | .0122212 |
| #2 | 4.060336 | 5.232510 | -.150002 | .0044503 | .6635543 | 7.054551 | .0139019 |
| #3 | 4.033071 | 5.282927 | -.149833 | .0027424 | .6671270 | 6.993559 | .0158122 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5058-03DLX2 Acquired: 01/03/2025 21:26:41 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .5448318 | .4213848 | .0570086 |
| Stddev | .0065876 | .0025823 | .0016931 |
| %RSD | 1.209117 | .6128191 | 2.969918 |
| | | | |
| #1 | .5523162 | .4238235 | .0589621 |
| #2 | .5422662 | .4216513 | .0560998 |
| #3 | .5399129 | .4186795 | .0559640 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1903.424 | 19689.92 | 1953.347 | 1434.002 | 1751.183 |
| Stddev | 6.530 | 103.64 | 17.273 | 6.216 | 6.592 |
| %RSD | .3430653 | .5263503 | .8842661 | .4334732 | .3764336 |
| | | | | | |
| #1 | 1910.592 | 19686.90 | 1956.934 | 1426.880 | 1756.388 |
| #2 | 1901.866 | 19587.83 | 1934.562 | 1436.788 | 1753.391 |
| #3 | 1897.814 | 19795.04 | 1968.544 | 1438.336 | 1743.771 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5058-04DLX2 Acquired: 01/03/2025 21:30:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82D Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0208657 | .0199406 | .1135552 | .0003559 | .0119603 | 26.33030 | .1720297 |
| Stddev | .0006790 | .0040906 | .0029808 | .0048149 | .0058102 | .14198 | .0015972 |
| %RSD | 3.254207 | 20.51382 | 2.625002 | 1352.890 | 48.57898 | .5392399 | .9284349 |
| #1 | .0206519 | .0206986 | .1126982 | -.002827 | .0165561 | 26.49425 | .1733088 |
| #2 | .0216258 | .0235991 | .1110967 | .005895 | .0054295 | 26.24818 | .1702395 |
| #3 | .0203193 | .0155240 | .1168706 | -.002000 | .0138954 | 26.24846 | .1725406 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0024092 | .0015780 | 524.0458 | .0397867 | .0732159 | .1477705 | 73.28918 |
| Stddev | .0001185 | .0000641 | 1.9385 | .0006189 | .0006544 | .0016875 | .23495 |
| %RSD | 4.918355 | 4.063884 | .3699072 | 1.555485 | .8937679 | 1.141987 | .3205839 |
| #1 | .0025415 | .0015329 | 522.1083 | .0395317 | .0724619 | .1490377 | 73.28961 |
| #2 | .0023128 | .0015496 | 525.9853 | .0404923 | .0736352 | .1484188 | 73.52392 |
| #3 | .0023735 | .0016514 | 524.0437 | .0393360 | .0735506 | .1458549 | 73.05401 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.849601 | 132.6677 | .0642991 | -.004468 | .9572028 | .0533082 | .3144629 |
| Stddev | .007423 | .1385 | .0007087 | .000719 | .0196629 | .0146410 | .0028605 |
| %RSD | .1530595 | .1043588 | 1.102137 | 16.09391 | 2.054201 | 27.46476 | .9096474 |
| #1 | 4.845527 | 132.5755 | .0637992 | -.005233 | .9704863 | .0619588 | .3152912 |
| #2 | 4.858169 | 132.6006 | .0639881 | -.004366 | .9346145 | .0364038 | .3112796 |
| #3 | 4.845108 | 132.8269 | .0651101 | -.003806 | .9665074 | .0615620 | .3168178 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.272571 | 5.123865 | -.140897 | .0048860 | .6466849 | 6.727525 | .0114116 |
| Stddev | .114596 | .012202 | .001350 | .0004360 | .0037959 | .061865 | .0018712 |
| %RSD | 2.682132 | .2381326 | .9579290 | 8.923552 | .5869738 | .9195788 | 16.39735 |
| #1 | 4.262005 | 5.111820 | -.139930 | .0043882 | .6462534 | 6.794177 | .0127122 |
| #2 | 4.392084 | 5.136217 | -.140323 | .0052002 | .6431233 | 6.671941 | .0122555 |
| #3 | 4.163624 | 5.123558 | -.142439 | .0050696 | .6506781 | 6.716456 | .0092671 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5058-04DLX2 Acquired: 01/03/2025 21:30:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82D Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .5208268 | .4120516 | .0525132 |
| Stddev | .0038289 | .0010323 | .0026436 |
| %RSD | .7351684 | .2505174 | 5.034078 |
| | | | |
| #1 | .5252119 | .4109610 | .0501737 |
| #2 | .5181452 | .4121804 | .0519850 |
| #3 | .5191233 | .4130134 | .0553810 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1886.447 | 19561.10 | 1960.350 | 1423.242 | 1745.832 |
| Stddev | 6.169 | 58.03 | 13.714 | 5.111 | 6.088 |
| %RSD | .3270182 | .2966690 | .6995461 | .3591404 | .3487016 |
| | | | | | |
| #1 | 1887.042 | 19588.73 | 1945.528 | 1420.464 | 1748.496 |
| #2 | 1892.298 | 19494.42 | 1972.587 | 1429.141 | 1750.133 |
| #3 | 1880.003 | 19600.16 | 1962.936 | 1420.122 | 1738.866 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5058-03DLX10 Acquired: 01/03/2025 21:34:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82L Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0062556 | .0204715 | .0279496 | -.020525 | .0015833 | 5.892354 | .0348348 |
| Stddev | .0052034 | .0044459 | .0031681 | .004391 | .0037514 | .014705 | .0015597 |
| %RSD | 83.18100 | 21.71751 | 11.33493 | 21.39489 | 236.9284 | .2495591 | 4.477570 |
| #1 | .0030290 | .0166050 | .0301097 | -.021265 | -.002472 | 5.897221 | .0364160 |
| #2 | .0034793 | .0253294 | .0243127 | -.024499 | .004929 | 5.904008 | .0347909 |
| #3 | .0122583 | .0194800 | .0294263 | -.015811 | .002293 | 5.875833 | .0332974 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0005154 | .0002652 | 118.7278 | .0094141 | .0350656 | .0267587 | 16.82775 |
| Stddev | .0000471 | .0001369 | .6657 | .0003570 | .0003341 | .0108798 | .11322 |
| %RSD | 9.139396 | 51.64232 | .5607344 | 3.791961 | .9528966 | 40.65884 | .6728365 |
| #1 | .0005200 | .0002221 | 119.4461 | .0094681 | .0353729 | .0212980 | 16.94354 |
| #2 | .0005601 | .0004185 | 118.6060 | .0097410 | .0347099 | .0196908 | 16.82243 |
| #3 | .0004662 | .0001550 | 118.1314 | .0090332 | .0351141 | .0392872 | 16.71728 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.121189 | 30.92831 | .0102596 | .0001137 | .1890117 | .0202640 | .0764523 |
| Stddev | .007759 | .18287 | .0003489 | .0014950 | .0104496 | .0076353 | .0007745 |
| %RSD | .6920097 | .5912839 | 3.400923 | 1314.638 | 5.528529 | 37.67894 | 1.013014 |
| #1 | 1.127010 | 31.13269 | .0106428 | -.001587 | .1802319 | .0210605 | .0759512 |
| #2 | 1.124175 | 30.87208 | .0101759 | .000708 | .2005696 | .0122617 | .0773443 |
| #3 | 1.112380 | 30.78015 | .0099602 | .001220 | .1862337 | .0274698 | .0760614 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8958162 | 1.005721 | -.040085 | .0042879 | .1278485 | 1.540849 | .0067238 |
| Stddev | .2225427 | .004388 | .004030 | .0008452 | .0074553 | .007515 | .0017133 |
| %RSD | 24.84245 | .4363257 | 10.05283 | 19.71113 | 5.831378 | .4877369 | 25.48071 |
| #1 | .6737846 | 1.004321 | -.040986 | .0044420 | .1239311 | 1.549526 | .0048072 |
| #2 | .8947977 | 1.010639 | -.035681 | .0050454 | .1364459 | 1.536637 | .0081067 |
| #3 | 1.118866 | 1.002204 | -.043588 | .0033762 | .1231685 | 1.536384 | .0072574 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5058-03DLX10 Acquired: 01/03/2025 21:34:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82L Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .1103158 | .0917972 | .0024886 |
| Stddev | .0031508 | .0008581 | .0061230 |
| %RSD | 2.856174 | .9347541 | 246.0441 |
| | | | |
| #1 | .1138980 | .0927875 | -.002756 |
| #2 | .1079739 | .0912743 | .001004 |
| #3 | .1090755 | .0913298 | .009217 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1826.652 | 18791.71 | 1824.619 | 1379.250 | 1908.179 |
| Stddev | 6.496 | 80.45 | 12.481 | 11.632 | 7.810 |
| %RSD | .3556212 | .4281108 | .6840110 | .8433770 | .4092795 |
| | | | | | |
| #1 | 1819.341 | 18756.51 | 1812.002 | 1373.129 | 1900.459 |
| #2 | 1831.759 | 18734.86 | 1824.894 | 1371.956 | 1916.076 |
| #3 | 1828.856 | 18883.76 | 1836.959 | 1392.665 | 1908.003 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5058-05DLX2 Acquired: 01/03/2025 21:38:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82S Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1127930 | .1024849 | .1530888 | .1615863 | .1759474 | 30.23801 | 3.854674 |
| Stddev | .0042677 | .0022104 | .0021310 | .0026501 | .0036029 | .28609 | .022518 |
| %RSD | 3.783641 | 2.156767 | 1.392024 | 1.640067 | 2.047698 | .9461285 | .5841752 |
| #1 | .1141051 | .1026576 | .1510678 | .1588011 | .1731594 | 29.90785 | 3.832735 |
| #2 | .1162506 | .1001932 | .1528836 | .1640766 | .1800155 | 30.39351 | 3.877729 |
| #3 | .1080233 | .1046038 | .1553150 | .1618813 | .1746673 | 30.41268 | 3.853557 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0965363 | .1015768 | 532.2494 | .4191243 | 1.059068 | .5774872 | 76.17358 |
| Stddev | .0003789 | .0002372 | 2.9087 | .0011064 | .001435 | .0060793 | .61108 |
| %RSD | .3924691 | .2335369 | .5464864 | .2639890 | .1355142 | 1.052711 | .8022200 |
| #1 | .0961317 | .1014196 | 529.2799 | .4187487 | 1.059177 | .5705026 | 75.48870 |
| #2 | .0965945 | .1014611 | 535.0932 | .4203696 | 1.057581 | .5815874 | 76.66307 |
| #3 | .0968827 | .1018497 | 532.3750 | .4182546 | 1.060445 | .5803715 | 76.36896 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.842711 | 134.8271 | 1.076161 | .0625600 | .9507669 | .9952649 | 1.141485 |
| Stddev | .036908 | 1.0358 | .002474 | .0007531 | .0268086 | .0025323 | .003309 |
| %RSD | .6316924 | .7682063 | .2298851 | 1.203754 | 2.819685 | .2544369 | .2898553 |
| #1 | 5.800302 | 133.6326 | 1.075095 | .0626272 | .9480069 | .9938713 | 1.137671 |
| #2 | 5.867562 | 135.4750 | 1.074400 | .0632772 | .9788487 | .9937356 | 1.143199 |
| #3 | 5.860269 | 135.3738 | 1.078990 | .0617756 | .9254450 | .9981880 | 1.143585 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.224687 | 5.192340 | -.147968 | .0045431 | .6573855 | 6.875674 | .0136315 |
| Stddev | .058955 | .012928 | .000819 | .0003371 | .0044598 | .044386 | .0027685 |
| %RSD | 1.395492 | .2489783 | .5536082 | 7.419914 | .6784194 | .6455453 | 20.30937 |
| #1 | 4.165220 | 5.189341 | -.147022 | .0048338 | .6548417 | 6.824552 | .0112853 |
| #2 | 4.225724 | 5.181175 | -.148432 | .0041736 | .6625351 | 6.904388 | .0129243 |
| #3 | 4.283117 | 5.206504 | -.148449 | .0046220 | .6547796 | 6.898082 | .0166850 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5058-05DLX2 Acquired: 01/03/2025 21:38:21 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82S Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .5310611 | .4161045 | .0554383 |
| Stddev | .0134218 | .0032771 | .0002756 |
| %RSD | 2.527352 | .7875673 | .4972070 |
| | | | |
| #1 | .5156741 | .4127209 | .0555433 |
| #2 | .5403594 | .4192636 | .0556460 |
| #3 | .5371497 | .4163290 | .0551256 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1889.099 | 19596.19 | 1940.200 | 1421.862 | 1749.086 |
| Stddev | 2.243 | 27.78 | 12.236 | .568 | 1.070 |
| %RSD | .1187582 | .1417499 | .6306707 | .0399521 | .0611977 |
| | | | | | |
| #1 | 1890.839 | 19586.14 | 1953.873 | 1422.200 | 1749.546 |
| #2 | 1886.567 | 19574.84 | 1930.280 | 1421.206 | 1747.863 |
| #3 | 1889.891 | 19627.60 | 1936.446 | 1422.181 | 1749.850 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5058-06DLX2 Acquired: 01/03/2025 21:42:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL83 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0263181 | .0242787 | .1247431 | -.007376 | .0055282 | 20.42231 | .1647631 |
| Stddev | .0023624 | .0027721 | .0023215 | .002954 | .0022047 | .09949 | .0050958 |
| %RSD | 8.976480 | 11.41780 | 1.861068 | 40.05041 | 39.88152 | .4871617 | 3.092821 |
| #1 | .0287856 | .0253061 | .1268995 | -.004794 | .0033212 | 20.41601 | .1674220 |
| #2 | .0260917 | .0263904 | .1250441 | -.006737 | .0077307 | 20.32612 | .1588877 |
| #3 | .0240771 | .0211396 | .1222857 | -.010597 | .0055328 | 20.52480 | .1679795 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0021031 | .0013336 | 474.4691 | .0370122 | .0621199 | .1041338 | 61.89251 |
| Stddev | .0000807 | .0001541 | 2.5068 | .0005265 | .0000900 | .0029634 | .23730 |
| %RSD | 3.835836 | 11.55639 | .5283326 | 1.422480 | .1448369 | 2.845766 | .3834130 |
| #1 | .0020396 | .0012899 | 475.8035 | .0369593 | .0620654 | .1007946 | 61.99305 |
| #2 | .0020760 | .0012060 | 471.5774 | .0365142 | .0622238 | .1051560 | 61.62148 |
| #3 | .0021939 | .0015048 | 476.0263 | .0375632 | .0620706 | .1064508 | 62.06298 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.945597 | 54.55961 | .0465242 | -.001620 | .6739761 | .0551515 | .2774679 |
| Stddev | .012664 | .12258 | .0007560 | .000873 | .0201792 | .0024650 | .0003699 |
| %RSD | .4299441 | .2246710 | 1.625077 | 53.88602 | 2.994047 | 4.469522 | .1333171 |
| #1 | 2.945994 | 54.49409 | .0464750 | -.000632 | .6558671 | .0547166 | .2771142 |
| #2 | 2.932739 | 54.48372 | .0473037 | -.001939 | .6703322 | .0529329 | .2778522 |
| #3 | 2.958058 | 54.70103 | .0457940 | -.002288 | .6957289 | .0578050 | .2774373 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.325828 | 2.757312 | -.115066 | .0047287 | .5300995 | 5.596322 | .0086803 |
| Stddev | .167921 | .005910 | .002285 | .0007704 | .0036158 | .042967 | .0014332 |
| %RSD | 5.048987 | .2143366 | 1.985876 | 16.29091 | .6820931 | .7677662 | 16.51083 |
| #1 | 3.519700 | 2.763261 | -.114183 | .0056137 | .5259411 | 5.631357 | .0098771 |
| #2 | 3.231626 | 2.757232 | -.113354 | .0042087 | .5318557 | 5.548382 | .0090716 |
| #3 | 3.226158 | 2.751442 | -.117661 | .0043637 | .5325017 | 5.609228 | .0070920 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5058-06DLX2 Acquired: 01/03/2025 21:42:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL83 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2043839 | .4084279 | .0305972 |
| Stddev | .0036058 | .0032217 | .0022127 |
| %RSD | 1.764212 | .7888114 | 7.231576 |
| | | | |
| #1 | .2002312 | .4079460 | .0285961 |
| #2 | .2067201 | .4054743 | .0302220 |
| #3 | .2062005 | .4118635 | .0329735 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1869.527 | 19248.03 | 1904.871 | 1407.322 | 1797.117 |
| Stddev | 5.892 | 85.71 | 8.868 | 4.136 | 6.906 |
| %RSD | .3151361 | .4453067 | .4655611 | .2938609 | .3842796 |
| | | | | | |
| #1 | 1867.774 | 19274.95 | 1895.299 | 1409.372 | 1794.296 |
| #2 | 1864.711 | 19152.09 | 1912.808 | 1402.561 | 1792.068 |
| #3 | 1876.096 | 19317.05 | 1906.506 | 1410.031 | 1804.987 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5058-20DLX2 Acquired: 01/03/2025 21:45:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLA4 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0320606 | .0208687 | .1313557 | -.005232 | .0086001 | 20.44181 | .2785463 |
| Stddev | .0012644 | .0057131 | .0018236 | .001719 | .0043618 | .06541 | .0033662 |
| %RSD | 3.943798 | 27.37648 | 1.388281 | 32.85043 | 50.71768 | .3199876 | 1.208502 |
| #1 | .0306076 | .0206416 | .1324568 | -.007187 | .0044692 | 20.42200 | .2792417 |
| #2 | .0326632 | .0152726 | .1323595 | -.004552 | .0081701 | 20.38859 | .2815105 |
| #3 | .0329110 | .0266921 | .1292507 | -.003958 | .0131609 | 20.51483 | .2748867 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0020256 | .0013858 | 499.9387 | .0372593 | .0682070 | .1883616 | 68.26305 |
| Stddev | .0000994 | .0000373 | 1.7230 | .0001429 | .0003138 | .0062322 | .32881 |
| %RSD | 4.904965 | 2.694800 | .3446401 | .3834482 | .4600598 | 3.308640 | .4816800 |
| #1 | .0020355 | .0014189 | 498.9665 | .0373936 | .0680249 | .1874906 | 67.92301 |
| #2 | .0021196 | .0013453 | 498.9216 | .0371092 | .0685693 | .1949835 | 68.28680 |
| #3 | .0019217 | .0013932 | 501.9281 | .0372751 | .0680266 | .1826107 | 68.57934 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.682215 | 58.38148 | .0617102 | -.003929 | .6840010 | .0510418 | .2152796 |
| Stddev | .036288 | .23455 | .0016594 | .000658 | .0143547 | .0119667 | .0007666 |
| %RSD | .6386196 | .4017481 | 2.689038 | 16.75784 | 2.098634 | 23.44492 | .3561077 |
| #1 | 5.656453 | 58.17369 | .0604309 | -.003354 | .6713960 | .0374735 | .2158193 |
| #2 | 5.666477 | 58.33494 | .0611144 | -.004647 | .6809819 | .0600903 | .2144021 |
| #3 | 5.723715 | 58.63580 | .0635852 | -.003785 | .6996251 | .0555617 | .2156175 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.856739 | 5.576652 | -.130402 | .0060854 | .5203782 | 5.883996 | .0132965 |
| Stddev | .138401 | .016857 | .000343 | .0010877 | .0095310 | .025136 | .0024883 |
| %RSD | 3.588557 | .3022831 | .2630748 | 17.87446 | 1.831549 | .4271877 | 18.71418 |
| #1 | 3.697582 | 5.587442 | -.130674 | .0053827 | .5273316 | 5.854972 | .0149219 |
| #2 | 3.923801 | 5.557227 | -.130016 | .0055352 | .5242892 | 5.898425 | .0104318 |
| #3 | 3.948835 | 5.585288 | -.130516 | .0073383 | .5095139 | 5.898591 | .0145356 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5058-20DLX2 Acquired: 01/03/2025 21:45:59 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLA4 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2952335 | .4451901 | .0416426 |
| Stddev | .0054079 | .0014188 | .0036207 |
| %RSD | 1.831746 | .3187032 | 8.694729 |
| | | | |
| #1 | .3014224 | .4449472 | .0406315 |
| #2 | .2928598 | .4439085 | .0456614 |
| #3 | .2914184 | .4467148 | .0386349 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1900.608 | 19608.45 | 1936.913 | 1433.734 | 1799.240 |
| Stddev | 2.954 | 85.71 | 5.878 | 8.431 | 2.243 |
| %RSD | .1554364 | .4370951 | .3034925 | .5880446 | .1246392 |
| | | | | | |
| #1 | 1903.976 | 19511.47 | 1942.298 | 1424.005 | 1801.450 |
| #2 | 1899.390 | 19674.04 | 1930.642 | 1438.909 | 1799.305 |
| #3 | 1898.457 | 19639.82 | 1937.800 | 1438.287 | 1796.966 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5054-20DLX5 Acquired: 01/03/2025 21:49:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW2 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0131633 | .0268027 | .0804715 | -.021133 | .0014117 | 9.479435 | .1546106 |
| Stddev | .0047553 | .0020895 | .0058927 | .004819 | .0027891 | .113080 | .0021534 |
| %RSD | 36.12564 | 7.796068 | 7.322657 | 22.80219 | 197.5799 | 1.192898 | 1.392756 |
| #1 | .0076729 | .0256708 | .0833731 | -.019547 | .0022531 | 9.555738 | .1530866 |
| #2 | .0158386 | .0292140 | .0843507 | -.026545 | .0036832 | 9.349520 | .1570740 |
| #3 | .0159784 | .0255232 | .0736907 | -.017307 | -.001701 | 9.533047 | .1536711 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0010394 | .0006371 | 410.4339 | .0180865 | .0498499 | .0547706 | 32.37042 |
| Stddev | .0001344 | .0001332 | .7120 | .0009083 | .0008773 | .0063019 | .23024 |
| %RSD | 12.93615 | 20.91310 | .1734648 | 5.022019 | 1.759959 | 11.50593 | .7112717 |
| #1 | .0010478 | .0004859 | 410.1738 | .0187921 | .0499096 | .0607615 | 32.58359 |
| #2 | .0009009 | .0006879 | 409.8886 | .0170617 | .0506959 | .0481981 | 32.12625 |
| #3 | .0011695 | .0007375 | 411.2394 | .0184057 | .0489442 | .0553523 | 32.40141 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.515278 | 55.40974 | .0248824 | -.000920 | .3894628 | .0247198 | .1076014 |
| Stddev | .013227 | .29566 | .0011130 | .002320 | .0172229 | .0064053 | .0006480 |
| %RSD | .5258666 | .5335914 | 4.473021 | 252.3002 | 4.422230 | 25.91153 | .6022141 |
| #1 | 2.520966 | 55.38239 | .0237346 | .001707 | .3938223 | .0184740 | .1069968 |
| #2 | 2.500158 | 55.12871 | .0259570 | -.001774 | .3704790 | .0244118 | .1075218 |
| #3 | 2.524709 | 55.71813 | .0249556 | -.002691 | .4040871 | .0312735 | .1082854 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.051735 | 1.237860 | -.063597 | .0049939 | .4138883 | 2.473048 | .0113779 |
| Stddev | .119431 | .004421 | .002891 | .0009617 | .0027322 | .025371 | .0022419 |
| %RSD | 5.820996 | .3571812 | 4.546468 | 19.25704 | .6601383 | 1.025908 | 19.70381 |
| #1 | 2.181034 | 1.240990 | -.066454 | .0046871 | .4170084 | 2.500282 | .0130482 |
| #2 | 1.945550 | 1.232802 | -.060673 | .0042231 | .4119234 | 2.450080 | .0088299 |
| #3 | 2.028620 | 1.239788 | -.063666 | .0060716 | .4127331 | 2.468782 | .0122554 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5054-20DLX5 Acquired: 01/03/2025 21:49:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW2 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0911591 | .2643308 | .0123384 |
| Stddev | .0019638 | .0008425 | .0039249 |
| %RSD | 2.154246 | .3187233 | 31.81044 |
| | | | |
| #1 | .0889357 | .2649229 | .0092306 |
| #2 | .0918850 | .2633663 | .0167491 |
| #3 | .0926566 | .2647032 | .0110356 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1802.966 | 18636.70 | 1826.141 | 1361.372 | 1831.433 |
| Stddev | .923 | 47.78 | 11.162 | 5.607 | 1.821 |
| %RSD | .0511957 | .2564013 | .6112206 | .4118887 | .0994062 |
| | | | | | |
| #1 | 1803.563 | 18691.79 | 1815.612 | 1367.817 | 1831.737 |
| #2 | 1801.903 | 18606.54 | 1837.843 | 1357.613 | 1829.479 |
| #3 | 1803.433 | 18611.75 | 1824.968 | 1358.686 | 1833.082 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5054-21DLX2 Acquired: 01/03/2025 21:53:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW3 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0156668 | .0273678 | .0999445 | -.020996 | .0047557 | 16.01786 | .2079455 |
| Stddev | .0050378 | .0031618 | .0027517 | .007057 | .0034953 | .04731 | .0015225 |
| %RSD | 32.15600 | 11.55316 | 2.753216 | 33.61199 | 73.49678 | .2953564 | .7321860 |
| #1 | .0144656 | .0260214 | .1012327 | -.021384 | .0025213 | 15.99254 | .2087031 |
| #2 | .0113381 | .0251021 | .1018159 | -.013753 | .0087837 | 16.07244 | .2061927 |
| #3 | .0211966 | .0309800 | .0967851 | -.027852 | .0029622 | 15.98860 | .2089405 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0015513 | .0019822 | 627.5902 | .0361885 | .0620376 | .0595619 | 43.84118 |
| Stddev | .0002751 | .0001319 | .9849 | .0002754 | .0002975 | .0058572 | .33696 |
| %RSD | 17.73121 | 6.652750 | .1569361 | .7609419 | .4795985 | 9.833791 | .7686038 |
| #1 | .0014596 | .0021212 | 626.9674 | .0358712 | .0619132 | .0628982 | 43.90346 |
| #2 | .0018605 | .0019664 | 628.7257 | .0363294 | .0623771 | .0527988 | 44.14265 |
| #3 | .0013338 | .0018589 | 627.0775 | .0363649 | .0618224 | .0629887 | 43.47741 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 6.174717 | 33.35394 | .0497147 | -.002480 | .4543293 | .0296529 | .1539042 |
| Stddev | .035534 | .11737 | .0011812 | .001040 | .0230698 | .0125956 | .0004451 |
| %RSD | .5754714 | .3518796 | 2.375861 | 41.92848 | 5.077759 | 42.47684 | .2891780 |
| #1 | 6.154441 | 33.31975 | .0506600 | -.002704 | .4797846 | .0291214 | .1540640 |
| #2 | 6.215746 | 33.48460 | .0500934 | -.003390 | .4348020 | .0425058 | .1534013 |
| #3 | 6.153962 | 33.25746 | .0483906 | -.001347 | .4484014 | .0173314 | .1542473 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.338472 | 1.888312 | -.071365 | .0038843 | .5061995 | 5.281642 | .0108675 |
| Stddev | .252610 | .007535 | .001345 | .0011879 | .0086938 | .010801 | .0014621 |
| %RSD | 4.731873 | .3990347 | 1.885271 | 30.58200 | 1.717472 | .2044971 | 13.45366 |
| #1 | 5.088133 | 1.890370 | -.069893 | .0026994 | .4993904 | 5.286242 | .0122723 |
| #2 | 5.593293 | 1.879962 | -.072530 | .0038784 | .5159923 | 5.289381 | .0093542 |
| #3 | 5.333989 | 1.894604 | -.071673 | .0050752 | .5032158 | 5.269302 | .0109758 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5054-21DLX2 Acquired: 01/03/2025 21:53:44 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW3 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .1980901 | .3858753 | .0299527 |
| Stddev | .0068401 | .0001005 | .0031706 |
| %RSD | 3.453020 | .0260440 | 10.58532 |
| | | | |
| #1 | .2005520 | .3859834 | .0270900 |
| #2 | .2033585 | .3857847 | .0333605 |
| #3 | .1903599 | .3858577 | .0294075 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1876.067 | 19387.13 | 1910.893 | 1420.405 | 1804.037 |
| Stddev | 5.138 | 15.68 | 7.608 | 7.358 | 4.424 |
| %RSD | .2738654 | .0809013 | .3981643 | .5180537 | .2452336 |
| | | | | | |
| #1 | 1877.280 | 19370.19 | 1907.544 | 1412.884 | 1805.581 |
| #2 | 1880.489 | 19390.05 | 1905.533 | 1420.741 | 1807.483 |
| #3 | 1870.431 | 19401.15 | 1919.601 | 1427.590 | 1799.049 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-20 Acquired: 01/03/2025 21:57:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0575916 | .0052586 | .3077626 | .0339479 | .0273399 | 53.12031 |
| Stddev | .0028872 | .0005596 | .0036769 | .0084144 | .0026716 | .05949 |
| %RSD | 5.013176 | 10.64096 | 1.194721 | 24.78628 | 9.771647 | .1119950 |
| #1 | .0583036 | .0048013 | .3035229 | .0427745 | .0304174 | 53.16419 |
| #2 | .0600562 | .0058825 | .3100778 | .0260174 | .0259854 | 53.05260 |
| #3 | .0544151 | .0050919 | .3096872 | .0330516 | .0256168 | 53.14414 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6397460 | .0045528 | .0027828 | F 832.0689 | .0832460 | .1126106 |
| Stddev | .0038946 | .0001259 | .0000171 | 2.4550 | .0002571 | .0009909 |
| %RSD | .6087643 | 2.766147 | .6157801 | .2950439 | .3088962 | .8799269 |
| #1 | .6369041 | .0044811 | .0027870 | 829.3468 | .0829730 | .1129724 |
| #2 | .6381486 | .0046982 | .0027639 | 832.7448 | .0834836 | .1114897 |
| #3 | .6441853 | .0044791 | .0027974 | 834.1151 | .0832814 | .1133698 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1482740 | 146.7561 | 8.411857 | 189.6203 | .1613659 | -.007802 |
| Stddev | .0052309 | .3527 | .015094 | .7573 | .0014696 | .000040 |
| %RSD | 3.527871 | .2403604 | .1794396 | .3993998 | .9107349 | .5146169 |
| #1 | .1481382 | 147.1592 | 8.428602 | 190.4889 | .1602024 | -.007813 |
| #2 | .1431122 | 146.5039 | 8.407671 | 189.2743 | .1608778 | -.007835 |
| #3 | .1535714 | 146.6052 | 8.399297 | 189.0978 | .1630175 | -.007757 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.264183 | .1192907 | .4542616 | 6.913638 | 4.652343 | -.282962 |
| Stddev | .016731 | .0152409 | .0054474 | .147731 | .013098 | .002454 |
| %RSD | 1.323456 | 12.77630 | 1.199175 | 2.136800 | .2815294 | .8671540 |
| #1 | 1.278083 | .1016979 | .4571918 | 6.941277 | 4.639112 | -.285502 |
| #2 | 1.245614 | .1284803 | .4479763 | 7.045597 | 4.652615 | -.280605 |
| #3 | 1.268854 | .1276939 | .4576168 | 6.754039 | 4.665303 | -.282780 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-20 Acquired: 01/03/2025 21:57:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0042576 | 1.312975 | 12.84537 | .0190670 | .7412029 | .6552628 |
| Stddev | .0008200 | .006610 | .09624 | .0018684 | .0021266 | .0005630 |
| %RSD | 19.25904 | .5034301 | .7492341 | 9.799335 | .2869175 | .0859138 |
| #1 | .0039132 | 1.317047 | 12.94588 | .0175754 | .7426169 | .6559126 |
| #2 | .0051936 | 1.305348 | 12.75406 | .0211628 | .7387572 | .6549228 |
| #3 | .0036660 | 1.316529 | 12.83615 | .0184628 | .7422346 | .6549530 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1044546 |
| Stddev | .0034876 |
| %RSD | 3.338835 |
| #1 | .1030398 |
| #2 | .1018967 |
| #3 | .1084272 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1919.273 | 19978.58 | 1994.371 | 1449.025 | 1723.641 |
| Stddev | 3.681 | 71.15 | 4.982 | 1.224 | 6.028 |
| %RSD | .1917960 | .3561378 | .2497954 | .0845043 | .3497119 |
| #1 | 1921.584 | 20060.54 | 1992.651 | 1450.339 | 1729.046 |
| #2 | 1921.207 | 19942.49 | 1990.477 | 1448.818 | 1724.738 |
| #3 | 1915.028 | 19932.70 | 1999.985 | 1447.917 | 1717.141 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-21 Acquired: 01/03/2025 22:01:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47D Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0584608 | -.001502 | .3010065 | .0352360 | .0288842 | 52.89555 |
| Stddev | .0045561 | .001397 | .0018213 | .0049847 | .0022648 | .10482 |
| %RSD | 7.793478 | 93.06071 | .6050761 | 14.14646 | 7.841124 | .1981661 |
| #1 | .0536316 | -.000032 | .2998674 | .0310706 | .0309029 | 52.81836 |
| #2 | .0626830 | -.001660 | .3000451 | .0338787 | .0293146 | 52.85340 |
| #3 | .0590678 | -.002813 | .3031071 | .0407588 | .0264350 | 53.01488 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6369072 | .0045826 | .0027280 | F 831.0730 | .0826870 | .1115051 |
| Stddev | .0001790 | .0001411 | .0001142 | 1.2404 | .0008467 | .0005820 |
| %RSD | .0281083 | 3.078488 | 4.185325 | .1492547 | 1.023984 | .5219363 |
| #1 | .6367005 | .0045032 | .0026435 | 829.9565 | .0830776 | .1119209 |
| #2 | .6370052 | .0047455 | .0026827 | 830.8542 | .0832678 | .1108400 |
| #3 | .6370158 | .0044991 | .0028579 | 832.4082 | .0817155 | .1117544 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1541733 | 146.0309 | 8.383451 | 188.7165 | .1615640 | -.008880 |
| Stddev | .0045686 | .2741 | .005456 | .1633 | .0010792 | .000678 |
| %RSD | 2.963310 | .1876779 | .0650780 | .0865224 | .6679679 | 7.630483 |
| #1 | .1500760 | 145.7417 | 8.377799 | 188.7296 | .1627267 | -.008811 |
| #2 | .1533441 | 146.0642 | 8.388686 | 188.8728 | .1613709 | -.009589 |
| #3 | .1590997 | 146.2868 | 8.383867 | 188.5470 | .1605943 | -.008239 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.246181 | .1256923 | .4549186 | 7.188200 | 4.627271 | -.290169 |
| Stddev | .023623 | .0041706 | .0028143 | .096734 | .011074 | .002164 |
| %RSD | 1.895654 | 3.318147 | .6186422 | 1.345737 | .2393099 | .7457664 |
| #1 | 1.219265 | .1277145 | .4531153 | 7.108507 | 4.639167 | -.292480 |
| #2 | 1.255803 | .1284663 | .4581615 | 7.295828 | 4.625382 | -.288191 |
| #3 | 1.263475 | .1208960 | .4534789 | 7.160264 | 4.617263 | -.289836 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-21 Acquired: 01/03/2025 22:01:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47D Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0055090 | 1.304675 | 12.85043 | .0192801 | .7383918 | .6543318 |
| Stddev | .0007053 | .006786 | .00565 | .0037531 | .0063988 | .0016516 |
| %RSD | 12.80226 | .5201250 | .0440005 | 19.46641 | .8665827 | .2524069 |
| #1 | .0050073 | 1.300716 | 12.85172 | .0180474 | .7312385 | .6525279 |
| #2 | .0052043 | 1.300798 | 12.84424 | .0234945 | .7435705 | .6557696 |
| #3 | .0063154 | 1.312510 | 12.85533 | .0162983 | .7403664 | .6546979 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1022178 |
| Stddev | .0053615 |
| %RSD | 5.245216 |
| #1 | .1058601 |
| #2 | .0960612 |
| #3 | .1047322 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1921.783 | 19977.14 | 1989.877 | 1449.831 | 1728.631 |
| Stddev | 4.383 | 80.24 | 6.259 | 9.441 | 4.054 |
| %RSD | .2280759 | .4016785 | .3145622 | .6512092 | .2345094 |
| #1 | 1920.204 | 20014.15 | 1995.469 | 1458.682 | 1725.650 |
| #2 | 1918.408 | 19885.07 | 1983.115 | 1439.893 | 1726.995 |
| #3 | 1926.736 | 20032.21 | 1991.047 | 1450.919 | 1733.247 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-20LX5 Acquired: 01/03/2025 22:05:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47L Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0068551 | .0201341 | .0659454 | -.020348 | .0043401 | 11.68936 | .1391148 |
| Stddev | .0007875 | .0022608 | .0019612 | .002866 | .0028115 | .05847 | .0020020 |
| %RSD | 11.48793 | 11.22889 | 2.974044 | 14.08412 | 64.77954 | .5001823 | 1.439103 |
| #1 | .0071761 | .0199247 | .0640114 | -.017233 | .0057011 | 11.71039 | .1397248 |
| #2 | .0074314 | .0224924 | .0658918 | -.020940 | .0062122 | 11.73440 | .1407409 |
| #3 | .0059578 | .0179853 | .0679328 | -.022872 | .0011071 | 11.62329 | .1368788 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0010416 | .0004637 | 186.0135 | .0197168 | .0451037 | .0300737 | 32.92192 |
| Stddev | .0002113 | .0001189 | .5715 | .0010582 | .0004479 | .0149511 | .19851 |
| %RSD | 20.29048 | 25.64948 | .3072527 | 5.367153 | .9930266 | 49.71471 | .6029617 |
| #1 | .0008338 | .0005742 | 185.5377 | .0197819 | .0453300 | .0364529 | 32.92376 |
| #2 | .0010348 | .0004790 | 186.6475 | .0186275 | .0445878 | .0129912 | 33.11950 |
| #3 | .0012563 | .0003378 | 185.8553 | .0207410 | .0453934 | .0407771 | 32.72250 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.905533 | 42.88500 | .0280383 | -.001953 | .2506042 | .0165263 | .1009131 |
| Stddev | .008911 | .04836 | .0012368 | .000297 | .0220492 | .0149292 | .0006181 |
| %RSD | .4676597 | .1127665 | 4.411106 | 15.19455 | 8.798409 | 90.33588 | .6125498 |
| #1 | 1.897277 | 42.91810 | .0273984 | -.002061 | .2753363 | .0249443 | .1002268 |
| #2 | 1.914980 | 42.90740 | .0294639 | -.002180 | .2330028 | -.000711 | .1014261 |
| #3 | 1.904343 | 42.82950 | .0272525 | -.001617 | .2434735 | .025345 | .1010865 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.342579 | .8871050 | -.070492 | .0060749 | .2485558 | 2.925947 | .0094765 |
| Stddev | .273973 | .0038923 | .000683 | .0007168 | .0074822 | .016499 | .0022745 |
| %RSD | 20.40645 | .4387649 | .9693837 | 11.79905 | 3.010286 | .5639024 | 24.00110 |
| #1 | 1.445533 | .8906090 | -.069946 | .0060677 | .2460388 | 2.941710 | .0090672 |
| #2 | 1.032044 | .8829154 | -.071259 | .0067953 | .2426566 | 2.927332 | .0119279 |
| #3 | 1.550161 | .8877905 | -.070273 | .0053618 | .2569720 | 2.908798 | .0074345 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-20LX5 Acquired: 01/03/2025 22:05:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47L Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .1611930 | .1432868 | .0166477 |
| Stddev | .0027798 | .0001978 | .0021016 |
| %RSD | 1.724514 | .1380679 | 12.62371 |
| | | | |
| #1 | .1596385 | .1430966 | .0150217 |
| #2 | .1595381 | .1432723 | .0190207 |
| #3 | .1644023 | .1434915 | .0159006 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1835.935 | 18937.11 | 1855.626 | 1388.767 | 1899.286 |
| Stddev | 4.167 | 96.23 | 6.109 | 8.605 | 7.227 |
| %RSD | .2269512 | .5081663 | .3292178 | .6196332 | .3805313 |
| | | | | | |
| #1 | 1837.552 | 18935.48 | 1848.971 | 1394.517 | 1899.437 |
| #2 | 1839.051 | 19034.15 | 1856.930 | 1392.911 | 1906.437 |
| #3 | 1831.203 | 18841.71 | 1860.979 | 1378.874 | 1891.985 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-22 Acquired: 01/03/2025 22:09:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47S Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1396300 | .0869790 | .3490215 | .1872892 | .1810880 | 55.75060 |
| Stddev | .0031977 | .0037341 | .0042246 | .0042600 | .0020461 | .24666 |
| %RSD | 2.290128 | 4.293096 | 1.210410 | 2.274575 | 1.129914 | .4424371 |
| | | | | | | |
| #1 | .1359578 | .0869408 | .3486188 | .1920671 | .1831155 | 55.80692 |
| #2 | .1411327 | .0907321 | .3534331 | .1859135 | .1811250 | 55.48064 |
| #3 | .1417996 | .0832642 | .3450127 | .1838870 | .1790237 | 55.96422 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.169320 | .0945901 | .1004662 | F 821.8517 | .4478793 | 1.083202 |
| Stddev | .030893 | .0016547 | .0004147 | 5.0843 | .0015456 | .002408 |
| %RSD | .7409490 | 1.749322 | .4127793 | .6186349 | .3450920 | .2222904 |
| | | | | | | |
| #1 | 4.195552 | .0951851 | .1003904 | 825.8340 | .4493194 | 1.083220 |
| #2 | 4.135269 | .0927202 | .1000946 | 816.1248 | .4462463 | 1.080785 |
| #3 | 4.177137 | .0958651 | .1009136 | 823.5962 | .4480723 | 1.085601 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5597367 | 146.8066 | 9.196288 | 187.1251 | 1.152613 | .0566918 |
| Stddev | .0144554 | .5705 | .012446 | 1.2902 | .002863 | .0004942 |
| %RSD | 2.582537 | .3885728 | .1353411 | .6894647 | .2484055 | .8717281 |
| | | | | | | |
| #1 | .5719117 | 147.2452 | 9.199088 | 187.8469 | 1.153577 | .0571952 |
| #2 | .5635379 | 146.1617 | 9.182680 | 185.6356 | 1.149392 | .0562073 |
| #3 | .5437605 | 147.0128 | 9.207095 | 187.8929 | 1.154869 | .0566730 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.279403 | 1.023348 | 1.245697 | 7.153293 | 4.602037 | -.287458 |
| Stddev | .012056 | .010502 | .003479 | .159661 | .010907 | .010459 |
| %RSD | .9423435 | 1.026214 | .2792806 | 2.231993 | .2370039 | 3.638445 |
| | | | | | | |
| #1 | 1.288150 | 1.016582 | 1.248353 | 6.991725 | 4.604632 | -.293447 |
| #2 | 1.265650 | 1.018017 | 1.246977 | 7.310976 | 4.590066 | -.275382 |
| #3 | 1.284410 | 1.035446 | 1.241759 | 7.157176 | 4.611412 | -.293547 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-22 Acquired: 01/03/2025 22:09:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47S Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0045563 | 1.291402 | 12.70866 | .0212460 | .7329101 | .6459713 |
| Stddev | .0003820 | .002248 | .25237 | .0015694 | .0078775 | .0024566 |
| %RSD | 8.383231 | .1741041 | 1.985797 | 7.386632 | 1.074825 | .3803035 |
| | | | | | | |
| #1 | .0043059 | 1.289235 | 12.85310 | .0222270 | .7376033 | .6473158 |
| #2 | .0043670 | 1.291246 | 12.41725 | .0220752 | .7238155 | .6431359 |
| #3 | .0049959 | 1.293724 | 12.85563 | .0194360 | .7373115 | .6474622 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1036255 |
| Stddev | .0022032 |
| %RSD | 2.126078 |
| | |
| #1 | .1025226 |
| #2 | .1021916 |
| #3 | .1061623 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1912.315 | 19820.02 | 1985.453 | 1439.107 | 1721.873 |
| Stddev | 4.521 | 75.17 | 25.820 | 12.996 | 5.913 |
| %RSD | .2364261 | .3792661 | 1.300440 | .9030867 | .3434236 |
| | | | | | |
| #1 | 1912.108 | 19825.93 | 1969.240 | 1443.204 | 1721.150 |
| #2 | 1916.936 | 19742.08 | 2015.227 | 1424.555 | 1728.115 |
| #3 | 1907.901 | 19892.07 | 1971.890 | 1449.560 | 1716.355 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV106 Acquired: 01/03/2025 22:13:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV106 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.012026 | 4.862750 | 24.84115 | 4.934711 | 4.894710 | 398.4733 |
| Stddev | .008751 | .012603 | .02170 | .018703 | .007825 | .8818 |
| %RSD | .1746023 | .2591771 | .0873398 | .3790105 | .1598688 | .2213059 |
| | | | | | | |
| #1 | 5.009772 | 4.874094 | 24.82365 | 4.924397 | 4.885803 | 397.5569 |
| #2 | 5.021684 | 4.864971 | 24.83437 | 4.923436 | 4.900476 | 398.5471 |
| #3 | 5.004623 | 4.849183 | 24.86543 | 4.956300 | 4.897852 | 399.3159 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 10.23961 | .5102126 | 2.504382 | 408.4414 | 15.43508 | 2.507905 |
| Stddev | .03833 | .0041578 | .001909 | 1.2651 | .01695 | .002443 |
| %RSD | .3743543 | .8149139 | .0762173 | .3097379 | .1098348 | .0974257 |
| | | | | | | |
| #1 | 10.19721 | .5112136 | 2.503808 | 406.9863 | 15.44074 | 2.505115 |
| #2 | 10.27181 | .5056457 | 2.502826 | 409.0575 | 15.41602 | 2.509660 |
| #3 | 10.24980 | .5137786 | 2.506512 | 409.2805 | 15.44848 | 2.508941 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 15.26664 | 403.4360 | 15.09001 | 402.3397 | 2.520700 | 1.256254 |
| Stddev | .02346 | .7291 | .03892 | .6163 | .002385 | .004546 |
| %RSD | .1536542 | .1807227 | .2579034 | .1531862 | .0945981 | .3618571 |
| | | | | | | |
| #1 | 15.24177 | 402.7314 | 15.04663 | 401.7665 | 2.518041 | 1.254774 |
| #2 | 15.28837 | 403.3894 | 15.10155 | 402.2611 | 2.522648 | 1.252632 |
| #3 | 15.26979 | 404.1873 | 15.12186 | 402.9916 | 2.521410 | 1.261355 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 406.5324 | 2.519969 | 14.57110 | 151.4628 | 4.932372 | F 4.386407 |
| Stddev | 1.7791 | .011044 | .04629 | 1.0479 | .011356 | .031581 |
| %RSD | .4376208 | .4382585 | .3177077 | .6918486 | .2302260 | .7199832 |
| | | | | | | |
| #1 | 407.0690 | 2.528252 | 14.61672 | 150.3374 | 4.939519 | 4.388787 |
| #2 | 404.5468 | 2.507430 | 14.52416 | 152.4105 | 4.938319 | 4.353703 |
| #3 | 407.9814 | 2.524226 | 14.57242 | 151.6404 | 4.919278 | 4.416731 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV106 Acquired: 01/03/2025 22:13:02 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV106 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.890285 | 4.995076 | 4.998607 | 5.040853 | 5.066037 | 4.781798 |
| Stddev | .003654 | .006113 | .040460 | .005531 | .006854 | .014419 |
| %RSD | .0747227 | .1223775 | .8094256 | .1097150 | .1352975 | .3015451 |
| | | | | | | |
| #1 | 4.892305 | 4.988521 | 5.009376 | 5.036873 | 5.072652 | 4.765276 |
| #2 | 4.886067 | 5.000622 | 4.953852 | 5.038517 | 5.058966 | 4.791844 |
| #3 | 4.892484 | 4.996084 | 5.032593 | 5.047168 | 5.066494 | 4.788275 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | 4.838633 |
| Stddev | .015253 |
| %RSD | .3152329 |
| | |
| #1 | 4.823490 |
| #2 | 4.853993 |
| #3 | 4.838416 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1528.216 | 16627.56 | 1701.434 | 1141.575 | 1636.503 |
| Stddev | 4.738 | 36.13 | 7.964 | 2.408 | 5.367 |
| %RSD | .3100164 | .2172907 | .4680973 | .2109466 | .3279745 |
| | | | | | |
| #1 | 1528.150 | 16638.65 | 1699.570 | 1138.953 | 1636.712 |
| #2 | 1532.986 | 16587.18 | 1710.165 | 1142.087 | 1641.763 |
| #3 | 1523.511 | 16656.84 | 1694.567 | 1143.687 | 1631.034 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB106 Acquired: 01/03/2025 22:16:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB106 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0093386 | .0021804 | -.000179 | .0038079 | -.001911 | -.000669 | -.005516 |
| Stddev | .0019636 | .0023609 | .002326 | .0050411 | .001942 | .038867 | .002065 |
| %RSD | 21.02705 | 108.2760 | 1299.046 | 132.3846 | 101.6453 | 5811.832 | 37.43733 |
| #1 | .0100465 | .0002420 | .000696 | .0072033 | -.000753 | .044209 | -.003147 |
| #2 | .0071191 | .0014897 | .001582 | .0062049 | -.004154 | -.023456 | -.006937 |
| #3 | .0108500 | .0048096 | -.002816 | -.001984 | -.000827 | -.022760 | -.006465 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000014 | .0000177 | .0019438 | -.000004 | -.000041 | -.004141 | .0712651 |
| Stddev | .000098 | .0000443 | .0152862 | .000661 | .000536 | .011148 | .0124422 |
| %RSD | 706.6667 | 250.4023 | 786.4090 | 16365.31 | 1311.883 | 269.2418 | 17.45902 |
| #1 | .000013 | .0000546 | .0193886 | -.000056 | .000576 | .001691 | .0637639 |
| #2 | -.000123 | .0000298 | -.004449 | .000682 | -.000311 | -.016995 | .0856273 |
| #3 | .000068 | -.000031 | -.009108 | -.000638 | -.000387 | .002883 | .0644040 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0021515 | -.075408 | -.000362 | .0008063 | .1589433 | -.012264 | -.000150 |
| Stddev | .0015211 | .039501 | .000247 | .0013163 | .0375085 | .006851 | .000203 |
| %RSD | 70.70201 | 52.38296 | 68.33045 | 163.2534 | 23.59864 | 55.86426 | 135.1168 |
| #1 | .0011486 | -.041520 | -.000455 | .0011611 | .1987843 | -.005141 | -.000040 |
| #2 | .0039017 | -.118792 | -.000548 | .0019088 | .1537337 | -.012844 | -.000026 |
| #3 | .0014041 | -.065913 | -.000081 | -.000651 | .1243120 | -.018807 | -.000385 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3172367 | .0000836 | .0083459 | .0004412 | -.013643 | -.002027 | -.000713 |
| Stddev | .1128477 | .0025464 | .0016012 | .0006339 | .002495 | .000431 | .001396 |
| %RSD | 35.57207 | 3047.256 | 19.18539 | 143.6841 | 18.28837 | 21.23445 | 195.8497 |
| #1 | .1929634 | -.002543 | .0065619 | .0007253 | -.016519 | -.001556 | -.001135 |
| #2 | .3454366 | .000251 | .0096584 | .0008832 | -.012052 | -.002126 | .000845 |
| #3 | .4133102 | .002542 | .0088174 | -.000285 | -.012359 | -.002400 | -.001848 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB106 Acquired: 01/03/2025 22:16:48 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB106 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.009086 | -.000191 | .0034063 |
| Stddev | .002197 | .000160 | .0054148 |
| %RSD | 24.18365 | 83.88994 | 158.9648 |
| | | | |
| #1 | -.010050 | -.000357 | .0095421 |
| #2 | -.006571 | -.000037 | -.000703 |
| #3 | -.010636 | -.000179 | .001380 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1840.679 | 18887.11 | 1817.749 | 1394.804 | 2036.226 |
| Stddev | 8.498 | 57.32 | 16.576 | 7.321 | 4.261 |
| %RSD | .4616618 | .3034760 | .9119176 | .5248833 | .2092557 |
| | | | | | |
| #1 | 1849.230 | 18823.79 | 1799.058 | 1388.120 | 2037.690 |
| #2 | 1840.571 | 18902.06 | 1830.668 | 1393.664 | 2039.561 |
| #3 | 1832.236 | 18935.47 | 1823.522 | 1402.628 | 2031.426 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-07DLX2 Acquired: 01/03/2025 22:20:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKY5 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0554602 | .0121450 | .1331787 | .0070754 | .0139420 | 18.67306 | .1552439 |
| Stddev | .0066819 | .0068831 | .0026608 | .0022688 | .0011639 | .07503 | .0017456 |
| %RSD | 12.04808 | 56.67491 | 1.997921 | 32.06541 | 8.347984 | .4018014 | 1.124405 |
| #1 | .0631678 | .0062570 | .1361518 | .0096838 | .0140606 | 18.75810 | .1554527 |
| #2 | .0513024 | .0197124 | .1310211 | .0059826 | .0150419 | 18.61621 | .1534033 |
| #3 | .0519105 | .0104654 | .1323632 | .0055599 | .0127233 | 18.64487 | .1568757 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0023189 | .0015638 | 589.3152 | .0403809 | .0683613 | .0924912 | 89.19775 |
| Stddev | .0001975 | .0000814 | 1.4337 | .0008791 | .0005625 | .0145914 | .46418 |
| %RSD | 8.516156 | 5.204312 | .2432879 | 2.177079 | .8228473 | 15.77600 | .5203887 |
| #1 | .0021201 | .0015331 | 590.7387 | .0404934 | .0678778 | .0761494 | 89.64489 |
| #2 | .0023215 | .0015022 | 589.3355 | .0411984 | .0689787 | .1042143 | 88.71824 |
| #3 | .0025151 | .0016561 | 587.8714 | .0394510 | .0682275 | .0971100 | 89.23011 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.556308 | 131.9039 | .0490433 | -.005534 | .8268184 | .0747545 | .2398952 |
| Stddev | .019139 | .6171 | .0016228 | .001812 | .0207511 | .0046729 | .0014664 |
| %RSD | .5381740 | .4678089 | 3.308893 | 32.74128 | 2.509749 | 6.250997 | .6112756 |
| #1 | 3.569314 | 132.5381 | .0493225 | -.006896 | .8258753 | .0733756 | .2383819 |
| #2 | 3.534331 | 131.3055 | .0472990 | -.006228 | .8065550 | .0799617 | .2413098 |
| #3 | 3.565278 | 131.8683 | .0505084 | -.003478 | .8480250 | .0709262 | .2399939 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.929418 | 2.805261 | -.181872 | .0060732 | .6362009 | 5.471433 | .0152080 |
| Stddev | .047951 | .005778 | .005018 | .0026012 | .0048435 | .007251 | .0011924 |
| %RSD | 1.636893 | .2059791 | 2.759258 | 42.83093 | .7613177 | .1325336 | 7.840577 |
| #1 | 2.886814 | 2.808415 | -.176383 | .0043892 | .6309854 | 5.463680 | .0163149 |
| #2 | 2.981347 | 2.798592 | -.183006 | .0047612 | .6370598 | 5.478048 | .0153637 |
| #3 | 2.920094 | 2.808777 | -.186226 | .0090691 | .6405575 | 5.472572 | .0139454 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-07DLX2 Acquired: 01/03/2025 22:20:49 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKY5 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .3590528 | .3770636 | .0397000 |
| Stddev | .0008986 | .0012599 | .0015227 |
| %RSD | .2502807 | .3341222 | 3.835452 |
| | | | |
| #1 | .3586983 | .3783120 | .0403727 |
| #2 | .3583855 | .3757926 | .0379568 |
| #3 | .3600746 | .3770864 | .0407705 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1865.448 | 19292.89 | 1926.844 | 1405.645 | 1757.872 |
| Stddev | 5.021 | 107.67 | 9.830 | 7.792 | 2.586 |
| %RSD | .2691372 | .5580598 | .5101383 | .5543442 | .1470891 |
| | | | | | |
| #1 | 1869.807 | 19270.09 | 1926.697 | 1414.415 | 1759.197 |
| #2 | 1859.959 | 19410.13 | 1936.746 | 1403.005 | 1754.892 |
| #3 | 1866.578 | 19198.45 | 1917.089 | 1399.517 | 1759.526 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-12DLX2 Acquired: 01/03/2025 22:24:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL39 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0230294 | .0267229 | .1128843 | -.013506 | .0075978 | 26.06957 | .3104788 |
| Stddev | .0024740 | .0034268 | .0052101 | .007680 | .0024458 | .23179 | .0042457 |
| %RSD | 10.74264 | 12.82353 | 4.615447 | 56.86638 | 32.19123 | .8891244 | 1.367455 |
| #1 | .0247123 | .0242519 | .1075767 | -.010039 | .0053914 | 26.19452 | .3094320 |
| #2 | .0241871 | .0252819 | .1179911 | -.008171 | .0071742 | 25.80211 | .3068544 |
| #3 | .0201889 | .0306349 | .1130851 | -.022309 | .0102277 | 26.21208 | .3151499 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0028150 | .0017902 | 544.2023 | .0397514 | .0601372 | .0821080 | 56.76029 |
| Stddev | .0000834 | .0000738 | 1.6728 | .0013617 | .0001723 | .0010269 | .30071 |
| %RSD | 2.962493 | 4.124669 | .3073793 | 3.425535 | .2865711 | 1.250643 | .5297892 |
| #1 | .0029106 | .0017268 | 545.2547 | .0389262 | .0601090 | .0817749 | 57.01390 |
| #2 | .0027571 | .0018713 | 542.2734 | .0390049 | .0599807 | .0832601 | 56.42809 |
| #3 | .0027773 | .0017725 | 545.0788 | .0413231 | .0603219 | .0812890 | 56.83888 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.501279 | 36.23424 | .0466830 | -.001903 | .5291183 | .0432953 | .2524250 |
| Stddev | .011539 | .18613 | .0016939 | .000604 | .0232620 | .0096551 | .0027930 |
| %RSD | .3295517 | .5136907 | 3.628519 | 31.72459 | 4.396377 | 22.30068 | 1.106483 |
| #1 | 3.505512 | 36.36207 | .0472824 | -.001339 | .5508804 | .0544163 | .2511636 |
| #2 | 3.488222 | 36.02070 | .0479956 | -.001830 | .5318730 | .0370538 | .2556263 |
| #3 | 3.510104 | 36.31996 | .0447708 | -.002539 | .5046016 | .0384157 | .2504851 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.095361 | 1.561302 | -.098218 | .0027667 | .8035144 | 6.621971 | .0088374 |
| Stddev | .103713 | .003126 | .001659 | .0004831 | .0090779 | .056519 | .0030214 |
| %RSD | 3.350599 | .2002039 | 1.688897 | 17.46073 | 1.129772 | .8535085 | 34.18836 |
| #1 | 2.996821 | 1.559962 | -.096338 | .0027007 | .8031663 | 6.575361 | .0061306 |
| #2 | 3.203570 | 1.564875 | -.098842 | .0032794 | .7946155 | 6.605716 | .0082847 |
| #3 | 3.085693 | 1.559070 | -.099474 | .0023201 | .8127613 | 6.684837 | .0120970 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-12DLX2 Acquired: 01/03/2025 22:24:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL39 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0883601 | .4596974 | .0399501 |
| Stddev | .0058836 | .0029799 | .0016688 |
| %RSD | 6.658626 | .6482415 | 4.177172 |
| | | | |
| #1 | .0848163 | .4621654 | .0396348 |
| #2 | .0951517 | .4563869 | .0384615 |
| #3 | .0851123 | .4605399 | .0417541 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1909.318 | 19729.87 | 1943.865 | 1439.286 | 1828.318 |
| Stddev | 3.328 | 149.87 | 16.841 | 7.786 | 3.053 |
| %RSD | .1743042 | .7595865 | .8663422 | .5409904 | .1670007 |
| | | | | | |
| #1 | 1913.142 | 19556.93 | 1940.914 | 1431.155 | 1831.674 |
| #2 | 1907.736 | 19811.12 | 1961.986 | 1440.029 | 1825.703 |
| #3 | 1907.076 | 19821.58 | 1928.694 | 1446.675 | 1827.578 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-13DLX2 Acquired: 01/03/2025 22:28:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL40 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0275961 | .0261103 | .1125084 | -.013503 | .0092733 | 24.47205 | .3313002 |
| Stddev | .0040202 | .0019845 | .0031136 | .007644 | .0021198 | .24154 | .0018826 |
| %RSD | 14.56798 | 7.600610 | 2.767404 | 56.60428 | 22.85866 | .9869999 | .5682391 |
| #1 | .0245614 | .0283126 | .1094858 | -.004677 | .0078988 | 24.51714 | .3320623 |
| #2 | .0260713 | .0244607 | .1123339 | -.017914 | .0117146 | 24.21114 | .3291561 |
| #3 | .0321557 | .0255577 | .1157056 | -.017919 | .0082066 | 24.68786 | .3326823 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0022991 | .0016863 | 771.7056 | .0380938 | .0745497 | .1580652 | 64.88126 |
| Stddev | .0002521 | .0000227 | 3.1260 | .0001110 | .0008107 | .0150422 | .33949 |
| %RSD | 10.96722 | 1.345088 | .4050750 | .2912426 | 1.087393 | 9.516426 | .5232475 |
| #1 | .0023170 | .0017125 | 772.5284 | .0382039 | .0754188 | .1419195 | 65.10049 |
| #2 | .0020385 | .0016739 | 768.2505 | .0380957 | .0738142 | .1716836 | 64.49021 |
| #3 | .0025419 | .0016725 | 774.3378 | .0379820 | .0744159 | .1605926 | 65.05309 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.078742 | 75.74023 | .0616550 | -.004255 | .7094146 | .0386053 | .1905760 |
| Stddev | .038881 | .51022 | .0019389 | .001336 | .0197539 | .0148677 | .0010647 |
| %RSD | .7655625 | .6736434 | 3.144753 | 31.40161 | 2.784537 | 38.51200 | .5586848 |
| #1 | 5.108925 | 75.95533 | .0620006 | -.002773 | .7119413 | .0439246 | .1917438 |
| #2 | 5.034867 | 75.15769 | .0633979 | -.004623 | .6885190 | .0218097 | .1903251 |
| #3 | 5.092434 | 76.10769 | .0595666 | -.005368 | .7277837 | .0500817 | .1896591 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.004200 | 1.786711 | -.104962 | .0028961 | .9126141 | 6.154661 | .0142524 |
| Stddev | .154599 | .001884 | .002557 | .0001196 | .0081625 | .065892 | .0018403 |
| %RSD | 3.860925 | .1054576 | 2.436111 | 4.128181 | .8944146 | 1.070597 | 12.91224 |
| #1 | 4.077043 | 1.787353 | -.104479 | .0030306 | .9143855 | 6.227364 | .0144171 |
| #2 | 4.108922 | 1.788191 | -.102681 | .0028560 | .9037113 | 6.098884 | .0160048 |
| #3 | 3.826636 | 1.784590 | -.107726 | .0028018 | .9197455 | 6.137734 | .0123353 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-13DLX2 Acquired: 01/03/2025 22:28:31 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL40 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .1526383 | .4704562 | .0464103 |
| Stddev | .0019474 | .0028582 | .0073805 |
| %RSD | 1.275810 | .6075372 | 15.90283 |
| | | | |
| #1 | .1531977 | .4712566 | .0500576 |
| #2 | .1504724 | .4672831 | .0512571 |
| #3 | .1542447 | .4728288 | .0379161 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1848.016 | 19057.39 | 1906.381 | 1389.588 | 1745.015 |
| Stddev | 4.990 | 36.39 | 12.836 | 6.750 | 4.304 |
| %RSD | .2700424 | .1909394 | .6733298 | .4857701 | .2466208 |
| | | | | | |
| #1 | 1849.687 | 19099.09 | 1894.637 | 1393.730 | 1747.792 |
| #2 | 1851.956 | 19032.08 | 1920.084 | 1393.235 | 1747.197 |
| #3 | 1842.404 | 19040.99 | 1904.423 | 1381.799 | 1740.058 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-14DLX2 Acquired: 01/03/2025 22:32:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL41 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0853011 | .0242153 | .1566485 | -.003499 | .0080760 | 21.80280 | .3030915 |
| Stddev | .0032208 | .0014306 | .0046917 | .004263 | .0006682 | .18349 | .0023776 |
| %RSD | 3.775855 | 5.907993 | 2.995054 | 121.8370 | 8.273490 | .8415929 | .7844669 |
| #1 | .0876306 | .0226388 | .1531044 | -.000589 | .0081145 | 21.70019 | .3057435 |
| #2 | .0866472 | .0254311 | .1619690 | -.008393 | .0073894 | 22.01464 | .3011503 |
| #3 | .0816256 | .0245759 | .1548722 | -.001516 | .0087241 | 21.69358 | .3023807 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0021356 | .0017161 | 709.5808 | .0399178 | .0996884 | .1697457 | 72.11608 |
| Stddev | .0001465 | .0000325 | 1.8662 | .0008518 | .0005215 | .0155521 | .16502 |
| %RSD | 6.859193 | 1.892384 | .2629972 | 2.133869 | .5231387 | 9.162020 | .2288307 |
| #1 | .0019936 | .0017306 | 709.5436 | .0391149 | .0997604 | .1562839 | 72.00404 |
| #2 | .0022862 | .0016789 | 711.4653 | .0398273 | .1001702 | .1867700 | 72.30559 |
| #3 | .0021269 | .0017388 | 707.7335 | .0408113 | .0991347 | .1661832 | 72.03863 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 7.850687 | 86.32434 | .0735577 | -.002993 | .8739586 | .0428733 | .2305689 |
| Stddev | .031318 | .39154 | .0003528 | .001082 | .0190203 | .0108092 | .0019719 |
| %RSD | .3989214 | .4535665 | .4795939 | 36.16383 | 2.176340 | 25.21191 | .8552206 |
| #1 | 7.830087 | 86.29921 | .0738529 | -.001751 | .8570573 | .0352684 | .2296964 |
| #2 | 7.886727 | 86.72784 | .0731670 | -.003492 | .8945556 | .0552468 | .2291838 |
| #3 | 7.835248 | 85.94598 | .0736530 | -.003736 | .8702631 | .0381048 | .2328265 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.744784 | 5.582186 | -.135949 | .0064477 | 1.881946 | 6.161129 | .0146647 |
| Stddev | .297423 | .001736 | .002702 | .0009227 | .009156 | .070886 | .0001934 |
| %RSD | 10.83592 | .0311060 | 1.987167 | 14.31137 | .4864962 | 1.150540 | 1.318819 |
| #1 | 2.425910 | 5.583779 | -.136596 | .0060022 | 1.871745 | 6.152450 | .0148621 |
| #2 | 3.014674 | 5.580335 | -.138269 | .0075086 | 1.884644 | 6.235955 | .0146567 |
| #3 | 2.793769 | 5.582444 | -.132983 | .0058322 | 1.889450 | 6.094982 | .0144755 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5056-14DLX2 Acquired: 01/03/2025 22:32:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL41 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2381786 | .6438925 | .0414515 |
| Stddev | .0061336 | .0028925 | .0016929 |
| %RSD | 2.575217 | .4492201 | 4.084017 |
| | | | |
| #1 | .2422227 | .6421920 | .0408652 |
| #2 | .2411919 | .6472322 | .0401298 |
| #3 | .2311211 | .6422532 | .0433597 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1901.287 | 19568.91 | 1957.389 | 1430.374 | 1760.712 |
| Stddev | 4.199 | 52.01 | 21.389 | 7.082 | 3.942 |
| %RSD | .2208756 | .2657854 | 1.092737 | .4951086 | .2239056 |
| | | | | | |
| #1 | 1903.973 | 19512.52 | 1955.096 | 1431.103 | 1765.234 |
| #2 | 1896.447 | 19615.00 | 1937.238 | 1437.064 | 1758.911 |
| #3 | 1903.440 | 19579.21 | 1979.832 | 1422.956 | 1757.993 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5057-04DLX2 Acquired: 01/03/2025 22:36:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL06 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0424794 | .0121018 | .1560283 | .0142522 | .0150968 | 37.03164 | .3058600 |
| Stddev | .0037327 | .0032971 | .0051754 | .0020056 | .0028476 | .02108 | .0011887 |
| %RSD | 8.787101 | 27.24467 | 3.316978 | 14.07246 | 18.86208 | .0569309 | .3886327 |
| #1 | .0467887 | .0129141 | .1507019 | .0162498 | .0183831 | 37.00921 | .3055286 |
| #2 | .0403965 | .0149169 | .1610382 | .0122386 | .0133592 | 37.05104 | .3071792 |
| #3 | .0402529 | .0084745 | .1563449 | .0142683 | .0135482 | 37.03468 | .3048722 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0037482 | .0012514 | 464.7132 | .0600695 | .0742465 | .1521852 | 98.35886 |
| Stddev | .0000980 | .0000545 | 1.7623 | .0010602 | .0007223 | .0024479 | .43119 |
| %RSD | 2.614925 | 4.358013 | .3792151 | 1.764915 | .9728302 | 1.608499 | .4383856 |
| #1 | .0038381 | .0012040 | 463.3057 | .0605577 | .0740523 | .1501162 | 98.52227 |
| #2 | .0037630 | .0013110 | 466.6896 | .0607976 | .0750461 | .1548875 | 98.68446 |
| #3 | .0036437 | .0012392 | 464.1443 | .0588532 | .0736412 | .1515518 | 97.86985 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.271833 | 76.63126 | .0785103 | -.006276 | .8267968 | .0918200 | .3470393 |
| Stddev | .014944 | .09135 | .0014581 | .000453 | .0159283 | .0106698 | .0046137 |
| %RSD | .4567533 | .1192080 | 1.857183 | 7.222655 | 1.926512 | 11.62040 | 1.329444 |
| #1 | 3.286024 | 76.72151 | .0771769 | -.006045 | .8450271 | .0903005 | .3509469 |
| #2 | 3.273240 | 76.63343 | .0782867 | -.005985 | .8155711 | .0819913 | .3419496 |
| #3 | 3.256235 | 76.53885 | .0800672 | -.006798 | .8197923 | .1031681 | .3482215 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.764596 | 3.499830 | -.195781 | .0046146 | .6019210 | 7.001234 | .0168392 |
| Stddev | .149962 | .008186 | .003036 | .0006555 | .0009434 | .025009 | .0010071 |
| %RSD | 3.983474 | .2338890 | 1.550862 | 14.20588 | .1567268 | .3572020 | 5.980874 |
| #1 | 3.827112 | 3.509000 | -.199264 | .0049960 | .6027615 | 7.026530 | .0179884 |
| #2 | 3.593491 | 3.497228 | -.194387 | .0038577 | .6009006 | 6.976523 | .0164191 |
| #3 | 3.873186 | 3.493260 | -.193692 | .0049902 | .6021008 | 7.000648 | .0161101 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5057-04DLX2 Acquired: 01/03/2025 22:36:15 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL06 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .3075533 | .2939512 | .0560099 |
| Stddev | .0019966 | .0013737 | .0037958 |
| %RSD | .6491863 | .4673207 | 6.777093 |
| | | | |
| #1 | .3066727 | .2945548 | .0521852 |
| #2 | .3061484 | .2949197 | .0560683 |
| #3 | .3098388 | .2923791 | .0597763 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1954.209 | 20062.67 | 1997.153 | 1468.451 | 1791.595 |
| Stddev | 2.737 | 110.93 | 7.283 | 4.023 | 1.226 |
| %RSD | .1400745 | .5528970 | .3646862 | .2739321 | .0684064 |
| | | | | | |
| #1 | 1955.039 | 19997.63 | 1991.815 | 1464.778 | 1792.575 |
| #2 | 1951.153 | 19999.63 | 1994.193 | 1472.750 | 1791.990 |
| #3 | 1956.436 | 20190.75 | 2005.450 | 1467.826 | 1790.221 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-07DLX2 Acquired: 01/03/2025 22:40:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT0 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0336059 | .0071373 | .0996253 | .0128516 | .0170150 | 25.80372 | .2075051 |
| Stddev | .0004200 | .0026448 | .0045950 | .0070023 | .0031466 | .28131 | .0016110 |
| %RSD | 1.249805 | 37.05605 | 4.612266 | 54.48601 | 18.49305 | 1.090190 | .7763809 |
| #1 | .0331832 | .0073537 | .0943313 | .0201386 | .0140466 | 25.50584 | .2093505 |
| #2 | .0336113 | .0043910 | .1025792 | .0061737 | .0166846 | 25.84049 | .2067860 |
| #3 | .0340231 | .0096673 | .1019654 | .0122425 | .0203137 | 26.06484 | .2063789 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0030161 | .0016603 | 546.0443 | .0452047 | .0696061 | .1193297 | 98.90499 |
| Stddev | .0000857 | .0000901 | 2.6713 | .0003335 | .0003135 | .0025645 | .95557 |
| %RSD | 2.840408 | 5.424638 | .4892116 | .7377403 | .4503270 | 2.149064 | .9661518 |
| #1 | .0030012 | .0015836 | 543.3482 | .0448202 | .0699538 | .1166671 | 97.89539 |
| #2 | .0029389 | .0016378 | 546.0945 | .0454161 | .0693453 | .1217833 | 99.02425 |
| #3 | .0031083 | .0017594 | 548.6901 | .0453777 | .0695191 | .1195388 | 99.79534 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.949705 | 118.9405 | .0661183 | -.006102 | .8400147 | .0864835 | .3089759 |
| Stddev | .023800 | .9901 | .0007317 | .000510 | .0102078 | .0162885 | .0010051 |
| %RSD | .6025875 | .8324409 | 1.106646 | 8.358042 | 1.215196 | 18.83428 | .3253116 |
| #1 | 3.922471 | 118.2699 | .0654869 | -.006675 | .8289346 | .0727910 | .3098527 |
| #2 | 3.960134 | 118.4738 | .0659478 | -.005699 | .8420728 | .0821625 | .3091961 |
| #3 | 3.966511 | 120.0777 | .0669202 | -.005931 | .8490366 | .1044968 | .3078789 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.882385 | 4.504571 | -.208758 | .0087285 | .6284827 | 5.529051 | .0143636 |
| Stddev | .052620 | .011778 | .002465 | .0009125 | .0035894 | .013898 | .0006380 |
| %RSD | 1.825562 | .2614686 | 1.180831 | 10.45400 | .5711245 | .2513706 | 4.441679 |
| #1 | 2.898405 | 4.491575 | -.210331 | .0088785 | .6324911 | 5.529196 | .0136801 |
| #2 | 2.823617 | 4.507599 | -.205917 | .0077503 | .6255656 | 5.515081 | .0149434 |
| #3 | 2.925133 | 4.514540 | -.210026 | .0095567 | .6273914 | 5.542877 | .0144673 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-07DLX2 Acquired: 01/03/2025 22:40:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT0 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .5899920 | .3847981 | .0565380 |
| Stddev | .0101094 | .0028455 | .0036623 |
| %RSD | 1.713478 | .7394857 | 6.477547 |
| | | | |
| #1 | .5785234 | .3823535 | .0566277 |
| #2 | .5938415 | .3841191 | .0528317 |
| #3 | .5976111 | .3879217 | .0601546 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1887.318 | 19489.65 | 1932.432 | 1417.628 | 1750.055 |
| Stddev | 1.718 | 84.35 | 14.131 | 7.525 | 3.291 |
| %RSD | .0910531 | .4328023 | .7312310 | .5308258 | .1880402 |
| | | | | | |
| #1 | 1885.489 | 19503.02 | 1934.882 | 1420.664 | 1753.194 |
| #2 | 1888.898 | 19566.52 | 1945.177 | 1423.161 | 1750.339 |
| #3 | 1887.568 | 19399.42 | 1917.237 | 1409.059 | 1746.631 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-08DLX2 Acquired: 01/03/2025 22:43:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT1 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0317491 | .0274494 | .3384412 | -.018987 | .0058742 | 15.80628 | .2489074 |
| Stddev | .0017220 | .0091131 | .0027015 | .004936 | .0023583 | .06073 | .0018421 |
| %RSD | 5.423746 | 33.19961 | .7982039 | 25.99678 | 40.14716 | .3842111 | .7400631 |
| #1 | .0329776 | .0376838 | .3358742 | -.017720 | .0031656 | 15.87585 | .2498656 |
| #2 | .0297809 | .0202128 | .3381898 | -.014808 | .0074720 | 15.76390 | .2500728 |
| #3 | .0324889 | .0244516 | .3412596 | -.024433 | .0069851 | 15.77908 | .2467837 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0019464 | .0026041 | 709.0689 | .0391634 | .0645349 | .0549383 | 57.50412 |
| Stddev | .0001167 | .0000697 | 1.8121 | .0004157 | .0004522 | .0060775 | .15454 |
| %RSD | 5.994372 | 2.678214 | .2555629 | 1.061359 | .7007517 | 11.06237 | .2687405 |
| #1 | .0018947 | .0026846 | 710.6065 | .0389293 | .0640183 | .0608105 | 57.66817 |
| #2 | .0020800 | .0025637 | 709.5291 | .0396433 | .0648593 | .0553298 | 57.36130 |
| #3 | .0018646 | .0025639 | 707.0711 | .0389175 | .0647271 | .0486745 | 57.48289 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.757035 | 393.8507 | .0503886 | -.001501 | .9360579 | .0408067 | .5358787 |
| Stddev | .003386 | 1.0280 | .0021458 | .001725 | .0212817 | .0033303 | .0083335 |
| %RSD | .0901109 | .2610083 | 4.258400 | 114.9247 | 2.273541 | 8.161076 | 1.555103 |
| #1 | 3.760744 | 394.8213 | .0520236 | -.003326 | .9424448 | .0412884 | .5429148 |
| #2 | 3.756252 | 393.9571 | .0511833 | -.001281 | .9534148 | .0372618 | .5266758 |
| #3 | 3.754110 | 392.7736 | .0479588 | .000103 | .9123142 | .0438699 | .5380455 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.379905 | 3.750488 | -.087807 | .0050828 | 15.98058 | 5.484140 | .0186999 |
| Stddev | .326666 | .005584 | .001195 | .0011828 | .03220 | .076988 | .0017477 |
| %RSD | 7.458284 | .1488801 | 1.360856 | 23.27075 | .2015231 | 1.403826 | 9.345933 |
| #1 | 4.291622 | 3.744044 | -.086954 | .0038556 | 15.95065 | 5.541313 | .0169370 |
| #2 | 4.741639 | 3.753507 | -.087295 | .0062155 | 15.97644 | 5.514508 | .0187307 |
| #3 | 4.106454 | 3.753912 | -.089173 | .0051771 | 16.01466 | 5.396600 | .0204320 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-08DLX2 Acquired: 01/03/2025 22:43:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT1 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2181399 | .2938353 | .0313731 |
| Stddev | .0026969 | .0002706 | .0040957 |
| %RSD | 1.236299 | .0920795 | 13.05471 |
| | | | |
| #1 | .2208739 | .2936520 | .0326455 |
| #2 | .2154818 | .2941461 | .0267923 |
| #3 | .2180639 | .2937078 | .0346816 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1763.993 | 18297.36 | 1834.527 | 1317.811 | 1670.349 |
| Stddev | 4.340 | 57.38 | 20.275 | 13.944 | 5.727 |
| %RSD | .2460450 | .3136159 | 1.105173 | 1.058141 | .3428535 |
| | | | | | |
| #1 | 1768.198 | 18232.13 | 1818.145 | 1311.714 | 1674.476 |
| #2 | 1764.251 | 18340.07 | 1828.235 | 1333.766 | 1672.761 |
| #3 | 1759.529 | 18319.87 | 1857.202 | 1307.954 | 1663.811 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-09DLX2 Acquired: 01/03/2025 22:47:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT2 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0275303 | .0260233 | .2744741 | -.019899 | .0038409 | 13.29562 | .1711614 |
| Stddev | .0016292 | .0035650 | .0049778 | .003416 | .0029697 | .04479 | .0024357 |
| %RSD | 5.917680 | 13.69935 | 1.813565 | 17.16718 | 77.31909 | .3369061 | 1.423017 |
| #1 | .0264238 | .0256702 | .2697911 | -.018140 | .0062853 | 13.24791 | .1691221 |
| #2 | .0294011 | .0226479 | .2797019 | -.023837 | .0005359 | 13.33678 | .1738584 |
| #3 | .0267661 | .0297517 | .2739294 | -.017721 | .0047015 | 13.30216 | .1705038 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0015283 | .0017674 | 698.5549 | .0285461 | .0587276 | .0417902 | 54.60404 |
| Stddev | .0001960 | .0001190 | 3.1809 | .0010181 | .0005397 | .0035854 | .07989 |
| %RSD | 12.82673 | 6.731113 | .4553527 | 3.566519 | .9189581 | 8.579544 | .1463104 |
| #1 | .0013062 | .0019036 | 694.8842 | .0280099 | .0593426 | .0388167 | 54.64846 |
| #2 | .0016771 | .0017150 | 700.2777 | .0279083 | .0583330 | .0407822 | 54.51181 |
| #3 | .0016017 | .0016837 | 700.5027 | .0297203 | .0585072 | .0457717 | 54.65186 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.366866 | 378.8535 | .0408463 | -.003349 | .9145028 | .0255248 | .3955205 |
| Stddev | .010366 | 1.0562 | .0012124 | .000582 | .0214663 | .0096445 | .0023343 |
| %RSD | .3078882 | .2787883 | 2.968123 | 17.37614 | 2.347316 | 37.78472 | .5901889 |
| #1 | 3.354898 | 377.7889 | .0414740 | -.003373 | .9298741 | .0360987 | .3980058 |
| #2 | 3.372708 | 378.8706 | .0394488 | -.002756 | .9236573 | .0172113 | .3933742 |
| #3 | 3.372993 | 379.9011 | .0416161 | -.003919 | .8899769 | .0232644 | .3951814 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.458404 | 2.461244 | -.087396 | .0061733 | 13.85560 | 4.929776 | .0159297 |
| Stddev | .103559 | .006460 | .004435 | .0004699 | .02830 | .048292 | .0012659 |
| %RSD | 2.994402 | .2624596 | 5.075086 | 7.611227 | .2042322 | .9795975 | 7.946932 |
| #1 | 3.428369 | 2.454183 | -.082391 | .0056905 | 13.82295 | 4.875483 | .0145443 |
| #2 | 3.373183 | 2.466857 | -.090841 | .0062002 | 13.87085 | 4.967935 | .0170263 |
| #3 | 3.573660 | 2.462693 | -.088956 | .0066291 | 13.87300 | 4.945911 | .0162184 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-09DLX2 Acquired: 01/03/2025 22:47:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT2 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2042779 | .2932345 | .0273970 |
| Stddev | .0010574 | .0012536 | .0016943 |
| %RSD | .5176435 | .4274924 | 6.184099 |
| | | | |
| #1 | .2049035 | .2925257 | .0266385 |
| #2 | .2048732 | .2946819 | .0262146 |
| #3 | .2030570 | .2924958 | .0293381 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1728.398 | 18047.01 | 1799.274 | 1311.324 | 1664.906 |
| Stddev | 5.030 | 85.88 | 12.763 | 9.607 | 3.845 |
| %RSD | .2910357 | .4758825 | .7093657 | .7326199 | .2309616 |
| | | | | | |
| #1 | 1723.797 | 17960.98 | 1811.195 | 1301.281 | 1666.089 |
| #2 | 1733.769 | 18047.31 | 1785.809 | 1320.426 | 1668.021 |
| #3 | 1727.630 | 18132.75 | 1800.818 | 1312.263 | 1660.609 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-14DLX2 Acquired: 01/03/2025 22:51:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT5 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0259625 | .0147647 | .1363918 | .0051947 | .0167079 | 25.19754 | .2617861 |
| Stddev | .0021638 | .0078424 | .0057304 | .0054419 | .0041069 | .16252 | .0029089 |
| %RSD | 8.334272 | 53.11609 | 4.201401 | 104.7580 | 24.58028 | .6449881 | 1.111159 |
| #1 | .0283577 | .0152448 | .1326212 | .0104850 | .0132006 | 25.37781 | .2626145 |
| #2 | .0241490 | .0223560 | .1429860 | -.000387 | .0156975 | 25.15256 | .2641910 |
| #3 | .0253808 | .0066933 | .1335682 | .005486 | .0212257 | 25.06224 | .2585530 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0025255 | .0015583 | 554.5132 | .0439247 | .0758931 | .0828903 | 88.83447 |
| Stddev | .0001452 | .0000268 | .4626 | .0011238 | .0003653 | .0054998 | .44959 |
| %RSD | 5.748574 | 1.719195 | .0834217 | 2.558492 | .4813924 | 6.635043 | .5060992 |
| #1 | .0025470 | .0015833 | 554.8977 | .0452021 | .0757620 | .0769533 | 89.32269 |
| #2 | .0026587 | .0015300 | 553.9999 | .0434836 | .0763059 | .0839064 | 88.74319 |
| #3 | .0023707 | .0015616 | 554.6420 | .0430883 | .0756114 | .0878111 | 88.43752 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.379720 | 111.6541 | .0733850 | -.005104 | .8118735 | .0833789 | .3085068 |
| Stddev | .018260 | .3269 | .0012612 | .000998 | .0222136 | .0102138 | .0009291 |
| %RSD | .4169115 | .2927706 | 1.718656 | 19.56353 | 2.736090 | 12.24985 | .3011549 |
| #1 | 4.398614 | 111.8505 | .0748414 | -.004227 | .8373330 | .0951714 | .3075321 |
| #2 | 4.362170 | 111.2768 | .0726608 | -.006190 | .8018460 | .0776398 | .3093823 |
| #3 | 4.378375 | 111.8352 | .0726529 | -.004894 | .7964415 | .0773255 | .3086059 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.555929 | 3.439631 | -.167590 | .0043625 | .6567074 | 5.427521 | .0143681 |
| Stddev | .052892 | .003320 | .001585 | .0008707 | .0107036 | .044050 | .0020147 |
| %RSD | 1.160939 | .0965313 | .9457372 | 19.95999 | 1.629891 | .8116004 | 14.02206 |
| #1 | 4.495442 | 3.443013 | -.167295 | .0052436 | .6529424 | 5.478336 | .0137020 |
| #2 | 4.593487 | 3.439505 | -.169301 | .0043413 | .6483951 | 5.400192 | .0127707 |
| #3 | 4.578857 | 3.436376 | -.166172 | .0035025 | .6687848 | 5.404033 | .0166314 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-14DLX2 Acquired: 01/03/2025 22:51:34 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT5 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .7995178 | .4118949 | .0551893 |
| Stddev | .0135679 | .0023561 | .0009430 |
| %RSD | 1.697012 | .5720220 | 1.708702 |
| | | | |
| #1 | .8151732 | .4145637 | .0555973 |
| #2 | .7911719 | .4110183 | .0558597 |
| #3 | .7922082 | .4101028 | .0541110 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1851.134 | 19146.34 | 1917.590 | 1393.485 | 1764.042 |
| Stddev | 6.216 | 91.28 | 8.316 | 10.383 | 7.006 |
| %RSD | .3358097 | .4767505 | .4336480 | .7451045 | .3971407 |
| | | | | | |
| #1 | 1850.657 | 19198.79 | 1909.145 | 1404.601 | 1760.302 |
| #2 | 1845.171 | 19040.94 | 1917.855 | 1384.037 | 1759.699 |
| #3 | 1857.576 | 19199.30 | 1925.770 | 1391.818 | 1772.124 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-15DLX2 Acquired: 01/03/2025 22:55:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT6 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0434498 | .0222849 | .1850555 | -.008315 | .0105717 | 21.67244 |
| Stddev | .0041088 | .0060430 | .0032109 | .004874 | .0020195 | .06232 |
| %RSD | 9.456395 | 27.11689 | 1.735096 | 58.60913 | 19.10282 | .2875608 |
| | | | | | | |
| #1 | .0479777 | .0212734 | .1854650 | -.013940 | .0095353 | 21.73368 |
| #2 | .0424131 | .0287697 | .1880421 | -.005650 | .0128990 | 21.67454 |
| #3 | .0399587 | .0168114 | .1816596 | -.005355 | .0092809 | 21.60909 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4796052 | .0024344 | .0020078 | F 805.6182 | .0392084 | .0825866 |
| Stddev | .0037166 | .0000707 | .0000773 | 4.1972 | .0012700 | .0007999 |
| %RSD | .7749246 | 2.904816 | 3.847986 | .5209889 | 3.239053 | .9686100 |
| | | | | | | |
| #1 | .4815067 | .0023998 | .0019224 | 809.8392 | .0383590 | .0835094 |
| #2 | .4819863 | .0023875 | .0020727 | 805.5703 | .0385978 | .0821604 |
| #3 | .4753226 | .0025157 | .0020284 | 801.4452 | .0406683 | .0820900 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1170289 | 74.81529 | 6.228138 | 125.3670 | .0767447 | -.004779 |
| Stddev | .0015244 | .37336 | .030371 | .7610 | .0011148 | .001067 |
| %RSD | 1.302590 | .4990401 | .4876487 | .6069898 | 1.452596 | 22.31915 |
| | | | | | | |
| #1 | .1153601 | 75.03301 | 6.257044 | 125.7932 | .0780008 | -.005980 |
| #2 | .1183483 | 75.02868 | 6.230883 | 125.8193 | .0758730 | -.003943 |
| #3 | .1173783 | 74.38418 | 6.196487 | 124.4885 | .0763602 | -.004413 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8571574 | .0555020 | .2443086 | 5.274615 | 6.466496 | -.117753 |
| Stddev | .0168662 | .0096211 | .0019710 | .142756 | .024390 | .002664 |
| %RSD | 1.967684 | 17.33465 | .8067497 | 2.706476 | .3771802 | 2.262548 |
| | | | | | | |
| #1 | .8766014 | .0580916 | .2438647 | 5.438422 | 6.478221 | -.118702 |
| #2 | .8464787 | .0635633 | .2425974 | 5.208680 | 6.438457 | -.119813 |
| #3 | .8483921 | .0448512 | .2464637 | 5.176745 | 6.482810 | -.114745 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-15DLX2 Acquired: 01/03/2025 22:55:24 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT6 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0041888 | 1.158871 | 5.450057 | .0118388 | .3433371 | .5971074 |
| Stddev | .0006098 | .001596 | .049340 | .0009893 | .0040514 | .0026984 |
| %RSD | 14.55879 | .1377123 | .9053070 | 8.356555 | 1.179997 | .4519126 |
| #1 | .0035969 | 1.158625 | 5.487064 | .0118276 | .3478761 | .5990511 |
| #2 | .0048152 | 1.160576 | 5.469068 | .0108551 | .3420484 | .5982446 |
| #3 | .0041544 | 1.157413 | 5.394040 | .0128336 | .3400869 | .5940266 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0447141 |
| Stddev | .0032930 |
| %RSD | 7.364509 |
| #1 | .0419204 |
| #2 | .0438771 |
| #3 | .0483448 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1860.199 | 19233.48 | 1921.282 | 1401.863 | 1708.679 |
| Stddev | 9.068 | 51.39 | 16.805 | 4.832 | 5.757 |
| %RSD | .4874842 | .2671688 | .8746979 | .3446877 | .3369422 |
| #1 | 1865.238 | 19254.32 | 1909.977 | 1406.656 | 1713.009 |
| #2 | 1849.730 | 19174.95 | 1913.276 | 1396.993 | 1702.145 |
| #3 | 1865.628 | 19271.17 | 1940.594 | 1401.939 | 1710.882 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-16DLX5 Acquired: 01/03/2025 22:59:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT7 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0050797 | .0275122 | .0652854 | -.031028 | -.002470 | 8.513030 | .1420321 |
| Stddev | .0040052 | .0070624 | .0007513 | .010896 | .003860 | .088522 | .0035673 |
| %RSD | 78.84654 | 25.67001 | 1.150767 | 35.11724 | 156.2727 | 1.039836 | 2.511647 |
| #1 | .0042194 | .0286184 | .0648505 | -.026060 | -.000236 | 8.610788 | .1441141 |
| #2 | .0094451 | .0339562 | .0661529 | -.023500 | -.006927 | 8.490009 | .1440692 |
| #3 | .0015746 | .0199620 | .0648527 | -.043522 | -.000247 | 8.438293 | .1379129 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0010461 | .0008598 | 525.5715 | .0159688 | .0488975 | .0356607 | 25.39516 |
| Stddev | .0000317 | .0000673 | 2.2922 | .0008625 | .0005315 | .0049781 | .19127 |
| %RSD | 3.032517 | 7.824357 | .4361379 | 5.401189 | 1.087065 | 13.95958 | .7531929 |
| #1 | .0010095 | .0008055 | 528.1056 | .0161109 | .0494911 | .0363664 | 25.58067 |
| #2 | .0010649 | .0008388 | 524.9665 | .0150440 | .0487356 | .0303675 | 25.40621 |
| #3 | .0010639 | .0009350 | 523.6425 | .0167513 | .0484657 | .0402483 | 25.19860 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.782303 | 30.04114 | .0205291 | -.001236 | .3976755 | .0032567 | .0823510 |
| Stddev | .008039 | .29196 | .0006734 | .002229 | .0388585 | .0039220 | .0009929 |
| %RSD | .4510668 | .9718759 | 3.280436 | 180.3734 | 9.771414 | 120.4275 | 1.205665 |
| #1 | 1.791584 | 30.37700 | .0197557 | -.002881 | .3822504 | .0057341 | .0817046 |
| #2 | 1.777849 | 29.89845 | .0209866 | -.002128 | .3688979 | -.001265 | .0818541 |
| #3 | 1.777477 | 29.84796 | .0208448 | .001301 | .4418783 | .005301 | .0834942 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.629263 | 1.046216 | -.037778 | .0046486 | .5748140 | 2.272299 | .0087477 |
| Stddev | .208720 | .005848 | .003688 | .0008054 | .0120205 | .017380 | .0014528 |
| %RSD | 7.938353 | .5589715 | 9.763451 | 17.32544 | 2.091194 | .7648612 | 16.60802 |
| #1 | 2.438619 | 1.039475 | -.034482 | .0043189 | .5752886 | 2.290946 | .0100771 |
| #2 | 2.852277 | 1.049938 | -.041762 | .0040604 | .5865901 | 2.269401 | .0071969 |
| #3 | 2.596893 | 1.049234 | -.037089 | .0055666 | .5625632 | 2.256551 | .0089692 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-16DLX5 Acquired: 01/03/2025 22:59:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT7 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0806247 | .3632313 | .0144425 |
| Stddev | .0033025 | .0015050 | .0026478 |
| %RSD | 4.096184 | .4143272 | 18.33332 |
| | | | |
| #1 | .0844334 | .3647393 | .0113944 |
| #2 | .0785560 | .3632253 | .0161727 |
| #3 | .0788846 | .3617294 | .0157605 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1786.876 | 18532.80 | 1820.838 | 1351.133 | 1823.055 |
| Stddev | .429 | 51.18 | 15.199 | 5.496 | 1.752 |
| %RSD | .0240259 | .2761701 | .8347415 | .4068046 | .0961198 |
| | | | | | |
| #1 | 1787.322 | 18474.76 | 1803.356 | 1350.510 | 1821.052 |
| #2 | 1786.842 | 18552.16 | 1828.236 | 1356.915 | 1823.810 |
| #3 | 1786.465 | 18571.48 | 1830.923 | 1345.975 | 1824.304 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-20DLX2 Acquired: 01/03/2025 23:03:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW8 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0454920 | .0153384 | .3145189 | .0187908 | .0160778 | 28.49135 | .9085227 |
| Stddev | .0069577 | .0009229 | .0088298 | .0046882 | .0034326 | .11596 | .0023459 |
| %RSD | 15.29428 | 6.017151 | 2.807388 | 24.94916 | 21.34988 | .4070030 | .2582057 |
| #1 | .0519594 | .0147792 | .3153599 | .0234676 | .0136771 | 28.60899 | .9085702 |
| #2 | .0463863 | .0148323 | .3052987 | .0140914 | .0145469 | 28.48792 | .9108444 |
| #3 | .0381305 | .0164036 | .3228980 | .0188134 | .0200095 | 28.37714 | .9061534 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0031168 | .0026968 | 687.5908 | .0516925 | .0906792 | .1469011 | 99.30865 |
| Stddev | .0001747 | .0000380 | 1.8328 | .0009877 | .0009706 | .0059984 | .75209 |
| %RSD | 5.604255 | 1.408684 | .2665527 | 1.910811 | 1.070394 | 4.083326 | .7573266 |
| #1 | .0032192 | .0026587 | 689.6829 | .0517343 | .0908362 | .1526860 | 100.1550 |
| #2 | .0032161 | .0027346 | 686.2682 | .0526587 | .0896396 | .1473076 | 99.0541 |
| #3 | .0029151 | .0026971 | 686.8212 | .0506845 | .0915618 | .1407097 | 98.7169 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 9.823483 | 141.3847 | .0890894 | -.003452 | .8444707 | .0727439 | .4298391 |
| Stddev | .053477 | .8421 | .0008927 | .001286 | .0166555 | .0122647 | .0028243 |
| %RSD | .5443824 | .5956052 | 1.001981 | 37.27059 | 1.972296 | 16.86003 | .6570670 |
| #1 | 9.882907 | 142.3468 | .0881729 | -.004855 | .8253166 | .0801099 | .4272455 |
| #2 | 9.808312 | 141.0257 | .0891391 | -.002329 | .8525503 | .0585858 | .4294235 |
| #3 | 9.779230 | 140.7816 | .0899561 | -.003170 | .8555454 | .0795360 | .4328481 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 6.013893 | 4.743178 | -.179033 | .0062204 | 1.394674 | 6.086937 | .0221740 |
| Stddev | .164688 | .022138 | .003091 | .0003236 | .003539 | .057489 | .0034148 |
| %RSD | 2.738452 | .4667352 | 1.726412 | 5.202360 | .2537827 | .9444656 | 15.40011 |
| #1 | 5.988622 | 4.750263 | -.177789 | .0065928 | 1.397665 | 6.141771 | .0194165 |
| #2 | 6.189756 | 4.718365 | -.176758 | .0060083 | 1.390767 | 6.027118 | .0259937 |
| #3 | 5.863302 | 4.760907 | -.182552 | .0060600 | 1.395591 | 6.091921 | .0211120 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-20DLX2 Acquired: 01/03/2025 23:03:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW8 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2889978 | .4714827 | .0549170 |
| Stddev | .0027572 | .0029457 | .0058551 |
| %RSD | .9540425 | .6247799 | 10.66174 |
| | | | |
| #1 | .2914614 | .4746282 | .0551345 |
| #2 | .2895124 | .4710310 | .0489562 |
| #3 | .2860196 | .4687889 | .0606603 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1854.606 | 19198.27 | 1898.852 | 1398.622 | 1716.073 |
| Stddev | 8.580 | 91.80 | 13.231 | 9.614 | 3.560 |
| %RSD | .4626433 | .4781835 | .6967845 | .6873834 | .2074377 |
| | | | | | |
| #1 | 1864.278 | 19274.53 | 1883.852 | 1408.672 | 1719.727 |
| #2 | 1847.910 | 19096.37 | 1908.862 | 1389.513 | 1715.876 |
| #3 | 1851.630 | 19223.90 | 1903.842 | 1397.682 | 1712.616 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-21DLX5 Acquired: 01/03/2025 23:07:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW9 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0092878 | .0303497 | .0733040 | -.028287 | .0011189 | 11.35201 | .1507545 |
| Stddev | .0012879 | .0008268 | .0038485 | .006601 | .0017519 | .09074 | .0007681 |
| %RSD | 13.86602 | 2.724239 | 5.250022 | 23.33587 | 156.5764 | .7993248 | .5095137 |
| #1 | .0106351 | .0310867 | .0776908 | -.028618 | .0012202 | 11.39844 | .1504963 |
| #2 | .0080690 | .0294556 | .0717249 | -.034717 | -.000681 | 11.41014 | .1501487 |
| #3 | .0091594 | .0305067 | .0704961 | -.021527 | .002818 | 11.24745 | .1516184 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0012448 | .0007248 | 454.8985 | .0200338 | .0529224 | .0469659 | 30.34211 |
| Stddev | .0001263 | .0001051 | 1.7669 | .0011787 | .0006176 | .0054610 | .21846 |
| %RSD | 10.14951 | 14.50081 | .3884099 | 5.883607 | 1.167075 | 11.62764 | .7199831 |
| #1 | .0013158 | .0006409 | 455.9777 | .0202709 | .0522936 | .0453829 | 30.59015 |
| #2 | .0013196 | .0008427 | 452.8595 | .0187545 | .0529453 | .0424712 | 30.25785 |
| #3 | .0010989 | .0006907 | 455.8584 | .0210759 | .0535283 | .0530435 | 30.17832 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.796435 | 53.39781 | .0276514 | -.000336 | .4892238 | .0117653 | .1162039 |
| Stddev | .022862 | .32524 | .0005981 | .001296 | .0028297 | .0197708 | .0007285 |
| %RSD | .8175242 | .6090868 | 2.163178 | 385.5875 | .5783973 | 168.0428 | .6268821 |
| #1 | 2.822830 | 53.76143 | .0272121 | .000402 | .4868662 | -.005691 | .1163360 |
| #2 | 2.782903 | 53.13466 | .0274094 | .000422 | .4884433 | .007752 | .1154185 |
| #3 | 2.783571 | 53.29734 | .0283326 | -.001832 | .4923617 | .033235 | .1168573 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.808316 | 1.384788 | -.054374 | .0052923 | .4486492 | 2.402611 | .0072901 |
| Stddev | .198383 | .006146 | .001480 | .0008661 | .0057840 | .021848 | .0020808 |
| %RSD | 7.064128 | .4438093 | 2.721525 | 16.36454 | 1.289202 | .9093547 | 28.54317 |
| #1 | 2.611225 | 1.383383 | -.054347 | .0054511 | .4455479 | 2.427053 | .0096029 |
| #2 | 2.805755 | 1.379466 | -.052907 | .0043578 | .4450772 | 2.384978 | .0055697 |
| #3 | 3.007967 | 1.391515 | -.055866 | .0060679 | .4553224 | 2.395802 | .0066977 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-21DLX5 Acquired: 01/03/2025 23:07:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKW9 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .1242224 | .3260794 | .0173263 |
| Stddev | .0066669 | .0013464 | .0014151 |
| %RSD | 5.366874 | .4128925 | 8.167252 |
| | | | |
| #1 | .1210850 | .3269227 | .0164405 |
| #2 | .1197030 | .3245266 | .0189583 |
| #3 | .1318791 | .3267888 | .0165802 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1808.157 | 18706.77 | 1847.299 | 1370.079 | 1827.462 |
| Stddev | 3.609 | 33.60 | 9.250 | 5.306 | 5.769 |
| %RSD | .1995920 | .1796401 | .5007454 | .3873045 | .3156613 |
| | | | | | |
| #1 | 1805.956 | 18716.26 | 1838.741 | 1375.100 | 1821.165 |
| #2 | 1812.322 | 18734.61 | 1857.113 | 1370.610 | 1832.491 |
| #3 | 1806.193 | 18669.44 | 1846.042 | 1364.527 | 1828.729 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-22DLX2 Acquired: 01/03/2025 23:10:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX0 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0688189 | .0176134 | .1661963 | .0151661 | .0172302 | 28.30883 | .3317055 |
| Stddev | .0097411 | .0033305 | .0023791 | .0039411 | .0056559 | .21319 | .0011409 |
| %RSD | 14.15462 | 18.90918 | 1.431521 | 25.98600 | 32.82586 | .7530841 | .3439468 |
| #1 | .0766355 | .0199356 | .1686887 | .0107894 | .0185963 | 28.53239 | .3329071 |
| #2 | .0719153 | .0191070 | .1659508 | .0162750 | .0220779 | 28.10780 | .3315727 |
| #3 | .0579061 | .0137975 | .1639495 | .0184339 | .0110163 | 28.28630 | .3306369 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0036791 | .0019607 | 742.2949 | .0443084 | .0839941 | .2289045 | 103.1036 |
| Stddev | .0001061 | .0000417 | 3.8466 | .0014292 | .0003406 | .0091451 | .5522 |
| %RSD | 2.883680 | 2.124435 | .5181997 | 3.225584 | .4054596 | 3.995142 | .5355759 |
| #1 | .0037920 | .0020083 | 746.0154 | .0447535 | .0843204 | .2327821 | 103.6191 |
| #2 | .0036639 | .0019430 | 738.3336 | .0454620 | .0836409 | .2184595 | 102.5209 |
| #3 | .0035815 | .0019308 | 742.5357 | .0427096 | .0840210 | .2354720 | 103.1709 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.616838 | 88.96641 | .0868568 | -.005409 | .9540110 | .0575950 | .2621906 |
| Stddev | .026766 | .60713 | .0012536 | .001776 | .0188325 | .0132826 | .0008965 |
| %RSD | .5797460 | .6824254 | 1.443323 | 32.84005 | 1.974028 | 23.06208 | .3419205 |
| #1 | 4.642350 | 89.63520 | .0880107 | -.005992 | .9376490 | .0629577 | .2619675 |
| #2 | 4.588974 | 88.44997 | .0870370 | -.003414 | .9745966 | .0673579 | .2631776 |
| #3 | 4.619191 | 88.81405 | .0855229 | -.006821 | .9497873 | .0424695 | .2614267 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 7.592966 | 8.732186 | -.175702 | .0058639 | 1.143188 | 5.698615 | .0135854 |
| Stddev | .077295 | .016071 | .001368 | .0005499 | .011957 | .025860 | .0011644 |
| %RSD | 1.017975 | .1840468 | .7784070 | 9.378352 | 1.045930 | .4538000 | 8.570698 |
| #1 | 7.576313 | 8.713831 | -.174337 | .0062976 | 1.129587 | 5.694362 | .0147063 |
| #2 | 7.677229 | 8.738997 | -.177072 | .0060488 | 1.147935 | 5.675145 | .0123819 |
| #3 | 7.525355 | 8.743730 | -.175697 | .0052453 | 1.152043 | 5.726338 | .0136680 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5055-22DLX2 Acquired: 01/03/2025 23:10:55 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKX0 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .1877673 | .6429047 | .0569006 |
| Stddev | .0052410 | .0036201 | .0017983 |
| %RSD | 2.791200 | .5630876 | 3.160495 |
| | | | |
| #1 | .1904426 | .6465342 | .0560153 |
| #2 | .1911307 | .6392940 | .0589700 |
| #3 | .1817286 | .6428858 | .0557165 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1906.192 | 19774.67 | 1960.335 | 1435.958 | 1711.593 |
| Stddev | 3.365 | 98.73 | 8.953 | 9.235 | 3.737 |
| %RSD | .1765407 | .4992826 | .4567041 | .6431448 | .2183580 |
| | | | | | |
| #1 | 1906.269 | 19666.54 | 1954.315 | 1425.660 | 1710.851 |
| #2 | 1909.519 | 19797.46 | 1970.623 | 1438.711 | 1715.646 |
| #3 | 1902.790 | 19860.02 | 1956.067 | 1443.504 | 1708.283 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5064-04DLX2 Acquired: 01/03/2025 23:14:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL97 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0175436 | .0210527 | .0678977 | -.018112 | .0085971 | 24.89365 | .2268701 |
| Stddev | .0045927 | .0027557 | .0013296 | .011346 | .0028703 | .16090 | .0016022 |
| %RSD | 26.17849 | 13.08954 | 1.958175 | 62.64278 | 33.38628 | .6463607 | .7061956 |
| #1 | .0216487 | .0242186 | .0672564 | -.028472 | .0104857 | 24.91015 | .2265221 |
| #2 | .0183987 | .0197473 | .0694263 | -.005987 | .0100114 | 25.04567 | .2286177 |
| #3 | .0125836 | .0191923 | .0670103 | -.019878 | .0052941 | 24.72513 | .2254706 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0021350 | .0012797 | 562.0652 | .0429345 | .0647488 | .1043969 | 65.88916 |
| Stddev | .0000961 | .0000759 | 3.1893 | .0005387 | .0003793 | .0026840 | .37292 |
| %RSD | 4.502864 | 5.927605 | .5674336 | 1.254721 | .5858740 | 2.570986 | .5659872 |
| #1 | .0021414 | .0012041 | 562.4515 | .0423178 | .0648718 | .1052746 | 66.09049 |
| #2 | .0022277 | .0013558 | 565.0439 | .0433133 | .0643232 | .1065322 | 66.11816 |
| #3 | .0020358 | .0012793 | 558.7004 | .0431724 | .0650513 | .1013839 | 65.45884 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.504936 | 106.4477 | .0618641 | -.004599 | .7328205 | .0532894 | .1483790 |
| Stddev | .023937 | .6979 | .0005545 | .000254 | .0191526 | .0057125 | .0005751 |
| %RSD | .5313607 | .6556621 | .8962784 | 5.515938 | 2.613539 | 10.71978 | .3876026 |
| #1 | 4.496623 | 106.4526 | .0625039 | -.004826 | .7470843 | .0525927 | .1477941 |
| #2 | 4.531922 | 107.1431 | .0615667 | -.004325 | .7403251 | .0593183 | .1483990 |
| #3 | 4.486263 | 105.7472 | .0615218 | -.004645 | .7110521 | .0479572 | .1489438 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.322911 | 3.390593 | -.132789 | .0057487 | .3693372 | 6.739704 | .0086142 |
| Stddev | .200735 | .006005 | .001700 | .0010058 | .0082028 | .070675 | .0029863 |
| %RSD | 4.643521 | .1771121 | 1.280285 | 17.49584 | 2.220956 | 1.048640 | 34.66731 |
| #1 | 4.403797 | 3.386470 | -.131628 | .0046671 | .3648685 | 6.761030 | .0117804 |
| #2 | 4.094352 | 3.387827 | -.134741 | .0059229 | .3643389 | 6.797260 | .0058481 |
| #3 | 4.470584 | 3.397483 | -.131998 | .0066559 | .3788040 | 6.660821 | .0082141 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5064-04DLX2 Acquired: 01/03/2025 23:14:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL97 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .6287814 | .2546324 | .0437430 |
| Stddev | .0061025 | .0013273 | .0067455 |
| %RSD | .9705252 | .5212612 | 15.42081 |
| | | | |
| #1 | .6217505 | .2553817 | .0378865 |
| #2 | .6318904 | .2554156 | .0511185 |
| #3 | .6327033 | .2530999 | .0422239 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1861.080 | 19322.77 | 1904.755 | 1406.437 | 1762.378 |
| Stddev | 2.970 | 47.76 | 17.906 | 4.796 | .989 |
| %RSD | .1595889 | .2471896 | .9400886 | .3410378 | .0560957 |
| | | | | | |
| #1 | 1859.569 | 19268.23 | 1899.461 | 1411.039 | 1762.298 |
| #2 | 1864.501 | 19357.14 | 1890.093 | 1406.805 | 1763.404 |
| #3 | 1859.169 | 19342.95 | 1924.712 | 1401.467 | 1761.431 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5061-05DLX2 Acquired: 01/03/2025 23:18:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL52 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0408342 | .0166702 | .1486850 | .0043056 | .0104459 | 30.05576 | .4057430 |
| Stddev | .0019158 | .0020923 | .0046190 | .0094329 | .0024518 | .15237 | .0064869 |
| %RSD | 4.691586 | 12.55119 | 3.106554 | 219.0848 | 23.47185 | .5069469 | 1.598769 |
| #1 | .0427797 | .0179190 | .1462448 | .0025286 | .0079740 | 30.22563 | .4067277 |
| #2 | .0389496 | .0142547 | .1457980 | -.004112 | .0104864 | 30.01048 | .4116813 |
| #3 | .0407734 | .0178370 | .1540123 | .014501 | .0128772 | 29.93116 | .3988201 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0034144 | .0013238 | 480.6327 | .0491912 | .0757141 | .0903004 | 80.85995 |
| Stddev | .0002570 | .0000734 | .6785 | .0009568 | .0006700 | .0119562 | .32084 |
| %RSD | 7.526261 | 5.544067 | .1411783 | 1.945128 | .8848627 | 13.24046 | .3967862 |
| #1 | .0032025 | .0012808 | 481.0455 | .0482127 | .0761179 | .0838222 | 81.22070 |
| #2 | .0033404 | .0014086 | 481.0030 | .0492363 | .0749407 | .0829814 | 80.75262 |
| #3 | .0037003 | .0012821 | 479.8496 | .0501248 | .0760837 | .1040977 | 80.60654 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.141933 | 41.46135 | .0608859 | -.003449 | .5367993 | .0719742 | .1681289 |
| Stddev | .011001 | .24415 | .0020512 | .001153 | .0083879 | .0100891 | .0017569 |
| %RSD | .3501222 | .5888733 | 3.368904 | 33.42985 | 1.562572 | 14.01772 | 1.044953 |
| #1 | 3.154001 | 41.74315 | .0616879 | -.004012 | .5426330 | .0833772 | .1701512 |
| #2 | 3.139332 | 41.31318 | .0624149 | -.004213 | .5271867 | .0642066 | .1669787 |
| #3 | 3.132466 | 41.32771 | .0585549 | -.002123 | .5405781 | .0683386 | .1672567 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.988602 | 2.074146 | -.142605 | .0051406 | .8811289 | 7.960415 | .0129389 |
| Stddev | .162803 | .005361 | .001198 | .0014145 | .0028941 | .075555 | .0004777 |
| %RSD | 2.718547 | .2584743 | .8398199 | 27.51661 | .3284564 | .9491395 | 3.692098 |
| #1 | 6.154789 | 2.068307 | -.142303 | .0048345 | .8784096 | 8.012888 | .0124594 |
| #2 | 5.981610 | 2.075285 | -.143924 | .0039042 | .8841708 | 7.873816 | .0129424 |
| #3 | 5.829408 | 2.078847 | -.141587 | .0066831 | .8808062 | 7.994540 | .0134148 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5061-05DLX2 Acquired: 01/03/2025 23:18:38 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL52 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2426957 | .3811262 | .0472252 |
| Stddev | .0071956 | .0023968 | .0035187 |
| %RSD | 2.964863 | .6288765 | 7.450968 |
| | | | |
| #1 | .2347769 | .3837639 | .0498396 |
| #2 | .2488337 | .3805333 | .0432244 |
| #3 | .2444766 | .3790815 | .0486114 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1879.463 | 19493.93 | 1912.544 | 1423.616 | 1797.130 |
| Stddev | 1.797 | 100.24 | 8.690 | 12.537 | 1.234 |
| %RSD | .0956343 | .5142305 | .4543525 | .8806160 | .0686572 |
| | | | | | |
| #1 | 1881.536 | 19440.92 | 1902.774 | 1412.710 | 1798.551 |
| #2 | 1878.340 | 19431.33 | 1919.411 | 1420.824 | 1796.337 |
| #3 | 1878.513 | 19609.55 | 1915.446 | 1437.313 | 1796.501 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5061-06DLX2 Acquired: 01/03/2025 23:22:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL52D Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0373495 | .0175968 | .1544211 | .0046780 | .0111762 | 30.96268 | .4154149 |
| Stddev | .0070490 | .0004175 | .0011567 | .0061811 | .0025401 | .15633 | .0026057 |
| %RSD | 18.87309 | 2.372803 | .7490628 | 132.1314 | 22.72823 | .5048975 | .6272489 |
| #1 | .0385113 | .0176587 | .1557565 | .0115394 | .0133572 | 30.99313 | .4145481 |
| #2 | .0437454 | .0171518 | .1537748 | .0029498 | .0117840 | 31.10154 | .4183435 |
| #3 | .0297918 | .0179800 | .1537319 | -.000455 | .0083872 | 30.79336 | .4133531 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0035406 | .0014053 | 488.4902 | .0496767 | .0753478 | .0996217 | 82.14558 |
| Stddev | .0000962 | .0000891 | 1.9478 | .0006329 | .0002774 | .0097716 | .32174 |
| %RSD | 2.717019 | 6.338285 | .3987400 | 1.273930 | .3682257 | 9.808666 | .3916661 |
| #1 | .0034973 | .0013064 | 489.3794 | .0502769 | .0753586 | .0972960 | 82.11409 |
| #2 | .0036509 | .0014303 | 489.8347 | .0490156 | .0756197 | .1103463 | 82.48191 |
| #3 | .0034737 | .0014793 | 486.2565 | .0497377 | .0750652 | .0912229 | 81.84075 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.192529 | 41.95088 | .0627007 | -.003196 | .5327038 | .0632004 | .1710105 |
| Stddev | .020710 | .35373 | .0002421 | .000513 | .0127341 | .0076769 | .0016967 |
| %RSD | .6487166 | .8431958 | .3861498 | 16.03922 | 2.390459 | 12.14699 | .9921832 |
| #1 | 3.194544 | 42.35206 | .0625268 | -.002899 | .5438397 | .0600211 | .1729252 |
| #2 | 3.212159 | 41.81678 | .0629772 | -.002901 | .5354516 | .0719562 | .1696937 |
| #3 | 3.170885 | 41.68382 | .0625980 | -.003788 | .5188202 | .0576237 | .1704124 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 6.333631 | 2.091444 | -.137242 | .0051761 | .8826868 | 8.478396 | .0146733 |
| Stddev | .150005 | .010661 | .002289 | .0010127 | .0042016 | .102465 | .0019593 |
| %RSD | 2.368396 | .5097661 | 1.667687 | 19.56527 | .4759991 | 1.208539 | 13.35292 |
| #1 | 6.396222 | 2.079541 | -.139035 | .0042832 | .8872094 | 8.485543 | .0165785 |
| #2 | 6.442204 | 2.100117 | -.138026 | .0062765 | .8789046 | 8.577100 | .0147772 |
| #3 | 6.162466 | 2.094673 | -.134664 | .0049685 | .8819465 | 8.372545 | .0126641 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5061-06DLX2 Acquired: 01/03/2025 23:22:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL52D Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2827768 | .3860377 | .0476105 |
| Stddev | .0114868 | .0016821 | .0029476 |
| %RSD | 4.062153 | .4357257 | 6.190984 |
| | | | |
| #1 | .2746022 | .3870046 | .0442946 |
| #2 | .2778181 | .3870131 | .0486038 |
| #3 | .2959100 | .3840954 | .0499330 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1871.402 | 19366.58 | 1907.966 | 1414.084 | 1788.396 |
| Stddev | 2.504 | 100.54 | 23.859 | 13.003 | 1.538 |
| %RSD | .1338177 | .5191646 | 1.250475 | .9195315 | .0859720 |
| | | | | | |
| #1 | 1869.631 | 19253.15 | 1903.498 | 1399.140 | 1788.207 |
| #2 | 1870.307 | 19401.84 | 1886.656 | 1422.820 | 1786.962 |
| #3 | 1874.267 | 19444.74 | 1933.742 | 1420.291 | 1790.019 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5061-05DLX10 Acquired: 01/03/2025 23:26:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL52L Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0027188 | .0195101 | .0317172 | -.015251 | .0016753 | 6.209224 | .0716144 |
| Stddev | .0047876 | .0024291 | .0019280 | .004530 | .0041797 | .033811 | .0031234 |
| %RSD | 176.0954 | 12.45048 | 6.078551 | 29.70098 | 249.4865 | .5445245 | 4.361428 |
| #1 | -.002257 | .0218319 | .0336347 | -.017984 | .0016545 | 6.196202 | .0746838 |
| #2 | .007292 | .0169863 | .0317381 | -.017746 | .0058654 | 6.183861 | .0684396 |
| #3 | .003121 | .0197121 | .0297789 | -.010022 | -.002494 | 6.247610 | .0717198 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0006160 | .0001745 | 106.1560 | .0101863 | .0326306 | .0136937 | 17.05253 |
| Stddev | .0000301 | .0000471 | .4570 | .0003150 | .0002544 | .0098654 | .08047 |
| %RSD | 4.884549 | 27.00153 | .4304747 | 3.092050 | .7796279 | 72.04356 | .4718657 |
| #1 | .0005824 | .0002284 | 105.9474 | .0105452 | .0325078 | .0024521 | 17.12047 |
| #2 | .0006250 | .0001411 | 105.8406 | .0100579 | .0329231 | .0209105 | 16.96367 |
| #3 | .0006405 | .0001541 | 106.6801 | .0099559 | .0324609 | .0177184 | 17.07346 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5891034 | 9.934743 | .0076023 | .0000672 | .0704839 | .0019517 | .0332353 |
| Stddev | .0040225 | .071171 | .0006213 | .0025102 | .0185553 | .0051272 | .0007371 |
| %RSD | .6828131 | .7163882 | 8.172272 | 3732.573 | 26.32558 | 262.7052 | 2.217724 |
| #1 | .5904181 | 9.907270 | .0083115 | .0003051 | .0846739 | -.002109 | .0329340 |
| #2 | .5923040 | 9.881402 | .0071538 | -.002553 | .0772915 | .000251 | .0340752 |
| #3 | .5845881 | 10.01556 | .0073418 | .002450 | .0494863 | .007713 | .0326965 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.023374 | .4159687 | -.037970 | .0049237 | .1564565 | 1.280880 | .0040995 |
| Stddev | .154551 | .0030316 | .002980 | .0005979 | .0009546 | .008726 | .0004327 |
| %RSD | 15.10205 | .7288181 | 7.847591 | 12.14360 | .6101111 | .6812373 | 10.55430 |
| #1 | .963810 | .4129088 | -.040959 | .0054878 | .1572259 | 1.273119 | .0036009 |
| #2 | .907468 | .4160260 | -.035000 | .0049865 | .1553883 | 1.279196 | .0043220 |
| #3 | 1.198844 | .4189713 | -.037951 | .0042969 | .1567554 | 1.290325 | .0043757 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5061-05DLX10 Acquired: 01/03/2025 23:26:23 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL52L Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0311943 | .0665313 | .0002080 |
| Stddev | .0060973 | .0006498 | .0071464 |
| %RSD | 19.54623 | .9767065 | 3436.129 |
| | | | |
| #1 | .0242829 | .0658562 | -.006079 |
| #2 | .0334875 | .0665852 | .007981 |
| #3 | .0358125 | .0671525 | -.001278 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1845.877 | 18966.82 | 1836.482 | 1392.416 | 1965.327 |
| Stddev | 2.082 | 101.37 | 3.693 | 12.408 | 2.487 |
| %RSD | .1127779 | .5344534 | .2010920 | .8911170 | .1265648 |
| | | | | | |
| #1 | 1846.297 | 18854.62 | 1833.870 | 1385.652 | 1966.908 |
| #2 | 1847.717 | 18994.05 | 1840.707 | 1384.861 | 1962.460 |
| #3 | 1843.617 | 19051.80 | 1834.868 | 1406.737 | 1966.613 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5061-07DLX2 Acquired: 01/03/2025 23:30:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL52S Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0818516 | .0612944 | .1635944 | .0836680 | .0944400 | 29.92126 | 2.161259 |
| Stddev | .0037290 | .0044899 | .0020783 | .0057047 | .0087445 | .07247 | .007051 |
| %RSD | 4.555791 | 7.325108 | 1.270401 | 6.818256 | 9.259274 | .2422185 | .3262629 |
| #1 | .0793576 | .0566783 | .1636057 | .0855643 | .0843460 | 29.87705 | 2.156988 |
| #2 | .0861384 | .0656464 | .1615105 | .0772566 | .0992660 | 30.00490 | 2.169397 |
| #3 | .0800588 | .0615586 | .1656671 | .0881830 | .0997081 | 29.88182 | 2.157390 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0508353 | .0500114 | 478.1808 | .2375429 | .5533743 | .3100829 | 77.44135 |
| Stddev | .0005787 | .0001669 | 1.4990 | .0005609 | .0006837 | .0090316 | .26331 |
| %RSD | 1.138418 | .3337234 | .3134849 | .2361099 | .1235480 | 2.912654 | .3400072 |
| #1 | .0508274 | .0501881 | 477.0781 | .2379045 | .5541148 | .3199606 | 77.30243 |
| #2 | .0514180 | .0499898 | 479.8876 | .2368968 | .5527670 | .3022470 | 77.74502 |
| #3 | .0502606 | .0498564 | 477.5766 | .2378273 | .5532411 | .3080410 | 77.27659 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.069240 | 44.40128 | .5526408 | .0303729 | .5102623 | .5354104 | .5671334 |
| Stddev | .013295 | .16026 | .0017143 | .0008268 | .0074472 | .0071770 | .0024589 |
| %RSD | .4331758 | .3609356 | .3101958 | 2.722140 | 1.459477 | 1.340461 | .4335738 |
| #1 | 3.056691 | 44.31927 | .5512029 | .0302189 | .5085547 | .5391995 | .5645593 |
| #2 | 3.083173 | 44.58595 | .5521817 | .0296339 | .5184149 | .5398988 | .5673827 |
| #3 | 3.067855 | 44.29862 | .5545379 | .0312658 | .5038172 | .5271330 | .5694582 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.401557 | 2.134019 | -.130183 | .0044992 | .7972721 | 5.765571 | .0105338 |
| Stddev | .116081 | .005568 | .001183 | .0012685 | .0008404 | .043472 | .0004487 |
| %RSD | 2.149026 | .2609127 | .9089312 | 28.19462 | .1054068 | .7539930 | 4.259622 |
| #1 | 5.344249 | 2.130213 | -.130814 | .0040021 | .7964354 | 5.803126 | .0100479 |
| #2 | 5.535147 | 2.131434 | -.130916 | .0059410 | .7972649 | 5.775638 | .0106210 |
| #3 | 5.325275 | 2.140409 | -.128818 | .0035545 | .7981161 | 5.717948 | .0109325 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5061-07DLX2 Acquired: 01/03/2025 23:30:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL52S Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .1509045 | .3021571 | .0412196 |
| Stddev | .0020354 | .0010296 | .0029541 |
| %RSD | 1.348803 | .3407510 | 7.166708 |
| | | | |
| #1 | .1530534 | .3020296 | .0429494 |
| #2 | .1506543 | .3032445 | .0429008 |
| #3 | .1490057 | .3011972 | .0378086 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1902.333 | 19608.58 | 1934.269 | 1429.391 | 1826.598 |
| Stddev | 4.596 | 44.35 | 14.887 | 5.149 | 1.101 |
| %RSD | .2416089 | .2261539 | .7696333 | .3602216 | .0602576 |
| | | | | | |
| #1 | 1906.606 | 19640.95 | 1923.745 | 1435.316 | 1826.379 |
| #2 | 1897.470 | 19626.75 | 1927.761 | 1426.865 | 1827.792 |
| #3 | 1902.923 | 19558.03 | 1951.302 | 1425.993 | 1825.623 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5061-08DLX2 Acquired: 01/03/2025 23:34:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL53 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0446086 | .0169651 | .1546007 | .0082019 | .0151001 | 34.16500 | .3750206 |
| Stddev | .0096820 | .0068071 | .0026648 | .0067989 | .0014385 | .14617 | .0027347 |
| %RSD | 21.70445 | 40.12446 | 1.723667 | 82.89442 | 9.526515 | .4278467 | .7292019 |
| #1 | .0470304 | .0237766 | .1530847 | .0119186 | .0165341 | 34.03982 | .3722669 |
| #2 | .0528499 | .0101623 | .1530398 | .0003548 | .0136571 | 34.32565 | .3750592 |
| #3 | .0339456 | .0169563 | .1576777 | .0123323 | .0151092 | 34.12954 | .3777358 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0036315 | .0014233 | 452.0912 | .0567424 | .0731312 | .0797038 | 84.93412 |
| Stddev | .0001023 | .0001314 | 2.5915 | .0007806 | .0008073 | .0077925 | .55350 |
| %RSD | 2.817242 | 9.234735 | .5732253 | 1.375662 | 1.103953 | 9.776803 | .6516770 |
| #1 | .0035363 | .0014865 | 449.7937 | .0561620 | .0740577 | .0795997 | 84.41368 |
| #2 | .0037397 | .0015111 | 454.9004 | .0576298 | .0725786 | .0875478 | 85.51561 |
| #3 | .0036186 | .0012722 | 451.5795 | .0564354 | .0727574 | .0719639 | 84.87308 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.215501 | 41.54706 | .0677087 | -.004236 | .6471450 | .0610903 | .2176814 |
| Stddev | .026317 | .24818 | .0016871 | .001145 | .0136402 | .0091882 | .0012704 |
| %RSD | .8184432 | .5973494 | 2.491740 | 27.01982 | 2.107746 | 15.04032 | .5835932 |
| #1 | 3.194845 | 41.33654 | .0661898 | -.005199 | .6347524 | .0578134 | .2190319 |
| #2 | 3.245132 | 41.82071 | .0695246 | -.004539 | .6617599 | .0539898 | .2165102 |
| #3 | 3.206527 | 41.48392 | .0674115 | -.002971 | .6449227 | .0714677 | .2175021 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.955913 | 3.237855 | -.148794 | .0041021 | .8612977 | 6.283556 | .0162694 |
| Stddev | .103360 | .003192 | .002901 | .0007029 | .0089333 | .048352 | .0018315 |
| %RSD | 1.735426 | .0985970 | 1.949893 | 17.13555 | 1.037193 | .7695052 | 11.25738 |
| #1 | 6.074322 | 3.234686 | -.146305 | .0042423 | .8510959 | 6.228503 | .0148448 |
| #2 | 5.883753 | 3.237811 | -.148096 | .0033397 | .8650767 | 6.303030 | .0156281 |
| #3 | 5.909663 | 3.241070 | -.151980 | .0047244 | .8677204 | 6.319135 | .0183353 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: P5061-08DLX2 Acquired: 01/03/2025 23:34:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL53 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2095070 | .4629731 | .0536393 |
| Stddev | .0042845 | .0016554 | .0032737 |
| %RSD | 2.045033 | .3575609 | 6.103131 |
| | | | |
| #1 | .2069359 | .4612746 | .0559241 |
| #2 | .2144530 | .4645817 | .0551048 |
| #3 | .2071322 | .4630631 | .0498889 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1940.637 | 19839.15 | 1971.710 | 1450.895 | 1822.130 |
| Stddev | 4.673 | 77.71 | 6.435 | 17.190 | 4.207 |
| %RSD | .2407841 | .3916854 | .3263642 | 1.184778 | .2308717 |
| | | | | | |
| #1 | 1944.514 | 19789.31 | 1978.894 | 1432.614 | 1822.236 |
| #2 | 1935.449 | 19799.45 | 1966.476 | 1453.340 | 1817.871 |
| #3 | 1941.948 | 19928.69 | 1969.760 | 1466.732 | 1826.282 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV107 Acquired: 01/03/2025 23:38:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV107 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.979886 | 4.845596 | 24.74007 | 4.887879 | 4.888198 | 401.3165 |
| Stddev | .010559 | .009820 | .01299 | .006508 | .021410 | 1.9422 |
| %RSD | .2120416 | .2026547 | .0525007 | .1331550 | .4380008 | .4839545 |
| #1 | 4.981986 | 4.856438 | 24.72780 | 4.893468 | 4.882937 | 400.2303 |
| #2 | 4.968435 | 4.837299 | 24.73874 | 4.880734 | 4.869908 | 403.5588 |
| #3 | 4.989238 | 4.843052 | 24.75367 | 4.889436 | 4.911748 | 400.1605 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 10.24817 | .5174360 | 2.490970 | 409.7433 | 15.39352 | 2.502434 |
| Stddev | .04000 | .0019827 | .001212 | .8337 | .01172 | .001469 |
| %RSD | .3903411 | .3831725 | .0486377 | .2034614 | .0761163 | .0587107 |
| #1 | 10.20830 | .5155228 | 2.491136 | 408.9476 | 15.40298 | 2.501917 |
| #2 | 10.24790 | .5173039 | 2.489684 | 409.6721 | 15.38041 | 2.501293 |
| #3 | 10.28830 | .5194815 | 2.492090 | 410.6103 | 15.39716 | 2.504092 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 15.37344 | 406.6867 | 15.19393 | 405.3835 | 2.509388 | 1.249229 |
| Stddev | .04250 | 1.4205 | .04158 | 1.2193 | .001117 | .001313 |
| %RSD | .2764460 | .3492826 | .2736636 | .3007713 | .0445162 | .1051442 |
| #1 | 15.34313 | 406.7097 | 15.15957 | 404.6616 | 2.509747 | 1.247729 |
| #2 | 15.42202 | 408.0956 | 15.24015 | 406.7913 | 2.510281 | 1.249783 |
| #3 | 15.35517 | 405.2549 | 15.18206 | 404.6977 | 2.508135 | 1.250175 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 414.5123 | 2.532695 | 14.54592 | 151.9291 | 4.927226 | F 4.455943 |
| Stddev | 2.7836 | .023436 | .02338 | .6606 | .017934 | .016850 |
| %RSD | .6715431 | .9253278 | .1607018 | .4348052 | .3639859 | .3781468 |
| #1 | 414.8078 | 2.531484 | 14.57247 | 151.1742 | 4.938374 | 4.445972 |
| #2 | 411.5927 | 2.556713 | 14.52843 | 152.4014 | 4.906538 | 4.475398 |
| #3 | 417.1364 | 2.509889 | 14.53686 | 152.2116 | 4.936766 | 4.446459 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCV107 Acquired: 01/03/2025 23:38:01 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV107 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.890959 | 4.951091 | 5.053074 | 5.017284 | 5.069372 | 4.796131 |
| Stddev | .016948 | .022685 | .007484 | .005225 | .007315 | .015132 |
| %RSD | .3465081 | .4581914 | .1481034 | .1041473 | .1443053 | .3155099 |
| | | | | | | |
| #1 | 4.881245 | 4.929193 | 5.044928 | 5.014153 | 5.075502 | 4.785455 |
| #2 | 4.881105 | 4.949590 | 5.054649 | 5.014383 | 5.071339 | 4.813449 |
| #3 | 4.910529 | 4.974490 | 5.059645 | 5.023317 | 5.061274 | 4.789491 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | 4.847716 |
| Stddev | .025019 |
| %RSD | .5160933 |
| | |
| #1 | 4.824133 |
| #2 | 4.845057 |
| #3 | 4.873958 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1528.496 | 16700.75 | 1683.443 | 1144.477 | 1641.704 |
| Stddev | 3.269 | 42.41 | 4.750 | 3.285 | 1.719 |
| %RSD | .2138618 | .2539599 | .2821455 | .2870681 | .1046867 |
| | | | | | |
| #1 | 1531.152 | 16665.99 | 1684.751 | 1141.414 | 1643.506 |
| #2 | 1529.489 | 16748.01 | 1687.401 | 1147.947 | 1640.084 |
| #3 | 1524.845 | 16688.26 | 1678.176 | 1144.071 | 1641.521 |

Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB107 Acquired: 01/03/2025 23:41:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB107 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0089219 | .0025006 | -.002055 | .0028027 | .0007294 | .0202229 | -.002509 |
| Stddev | .0044949 | .0071664 | .001221 | .0033180 | .0041421 | .0572047 | .001136 |
| %RSD | 50.38057 | 286.5880 | 59.43131 | 118.3851 | 567.8747 | 282.8716 | 45.26066 |
| #1 | .0140567 | -.004734 | -.002965 | .0052771 | -.002054 | -.018966 | -.001397 |
| #2 | .0056989 | .009597 | -.002532 | .0040987 | .005490 | -.006233 | -.003666 |
| #3 | .0070102 | .002639 | -.000667 | -.000968 | -.001248 | .085867 | -.002464 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000010 | -.000052 | -.021806 | .0004651 | .0000390 | -.005833 | .0332606 |
| Stddev | .000099 | .000091 | .037811 | .0008404 | .0005043 | .006807 | .0194702 |
| %RSD | 1005.350 | 174.1495 | 173.4000 | 180.7082 | 1293.788 | 116.6983 | 58.53836 |
| #1 | .000034 | -.000156 | -.012450 | .0013691 | .0001163 | -.000730 | .0150879 |
| #2 | .000060 | .000016 | -.063416 | .0003185 | -.000500 | -.013561 | .0538101 |
| #3 | -.000123 | -.000017 | .010450 | -.000292 | .000500 | -.003208 | .0308838 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0055705 | -.223731 | -.000783 | .0006418 | .1566383 | -.001845 | .0001754 |
| Stddev | .0004637 | .083480 | .000754 | .0002911 | .0313305 | .000755 | .0004622 |
| %RSD | 8.323532 | 37.31249 | 96.34978 | 45.36501 | 20.00184 | 40.92935 | 263.5784 |
| #1 | .0050353 | -.273754 | -.001636 | .0009542 | .1866990 | -.002687 | -.000076 |
| #2 | .0058513 | -.127360 | -.000507 | .0005932 | .1590398 | -.001227 | -.000107 |
| #3 | .0058248 | -.270079 | -.000205 | .0003780 | .1241761 | -.001621 | .000709 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0771348 | .0002810 | .0090871 | -.000120 | -.013377 | -.001814 | .0010322 |
| Stddev | .1659115 | .0007017 | .0025144 | .000511 | .001620 | .000852 | .0014248 |
| %RSD | 215.0929 | 249.7090 | 27.66965 | 424.9570 | 12.10776 | 46.97662 | 138.0364 |
| #1 | -.090277 | -.000090 | .0092165 | -.000085 | -.012476 | -.001359 | .0021647 |
| #2 | .241504 | .001090 | .0065105 | .000373 | -.015247 | -.002797 | -.000568 |
| #3 | .080178 | -.000157 | .0115342 | -.000648 | -.012408 | -.001286 | .001500 |

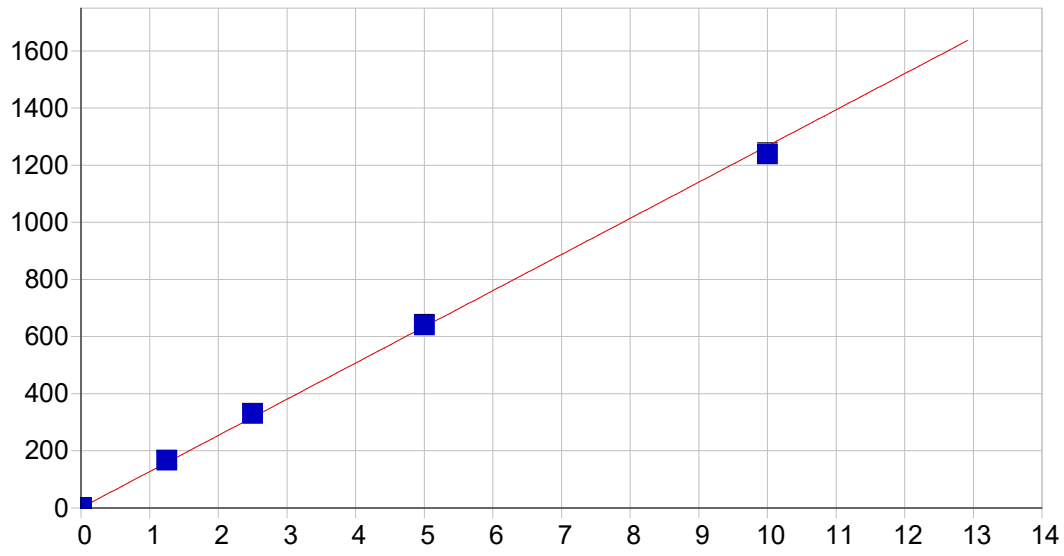
Reviewed By:Mohan
On:1/6/2025 4:38:30 AM
Inst Id :P5

Sample Name: CCB107 Acquired: 01/03/2025 23:41:46 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB107 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.008798 | -.000280 | .0001166 |
| Stddev | .002184 | .000202 | .0012768 |
| %RSD | 24.82977 | 72.28529 | 1094.882 |
| | | | |
| #1 | -.009194 | -.000083 | -.001339 |
| #2 | -.006442 | -.000271 | .001049 |
| #3 | -.010757 | -.000487 | .000640 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1847.123 | 18893.92 | 1811.732 | 1389.833 | 2051.910 |
| Stddev | 11.379 | 120.53 | 19.206 | 8.258 | 8.135 |
| %RSD | .6160461 | .6379185 | 1.060096 | .5941925 | .3964806 |
| | | | | | |
| #1 | 1837.322 | 18798.05 | 1794.763 | 1385.394 | 2043.646 |
| #2 | 1844.444 | 18854.49 | 1807.850 | 1384.744 | 2052.172 |
| #3 | 1859.602 | 19029.22 | 1832.583 | 1399.362 | 2059.911 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



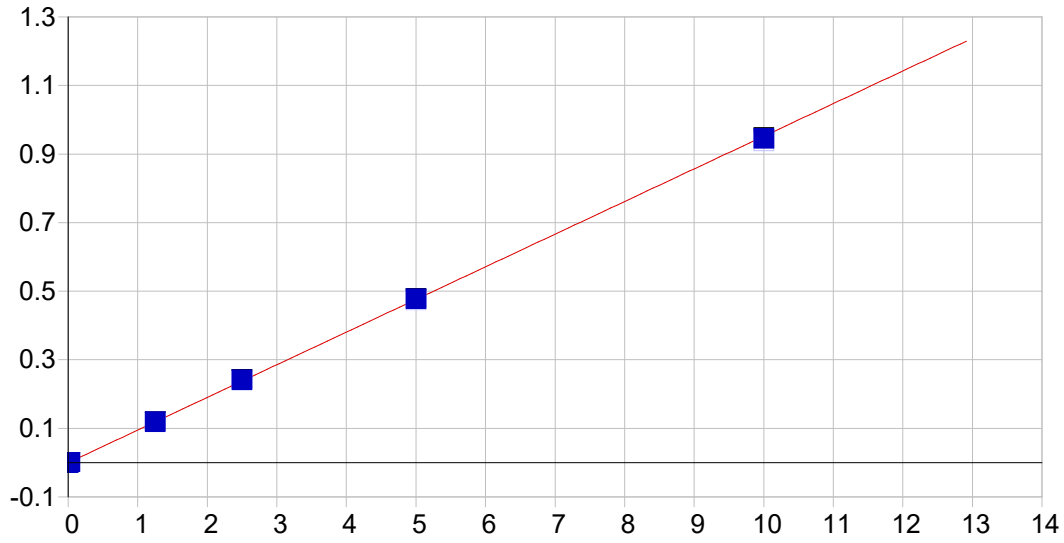

**As 189.042 {478}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/05/2025 18:00:22 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.718565 | Re-Slope: | 1.000000 |
| A1 (Gain): | 126.665284 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999638 | Status: | OK. |
| Std Error of Est: | 0.056946 | | |
| Predicted MDL: | 0.006590 | | |
| Predicted MQL: | 0.021967 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .71861 | .555 | 1 |
| S1 | .01000 | .00884 | -.001 | -11.6 | 1.8364 | .323 | 1 |
| S2 | 1.2500 | 1.3139 | .064 | 5.11 | 166.48 | .209 | 1 |
| S3 | 2.5000 | 2.6079 | .108 | 4.32 | 329.72 | .716 | 1 |
| S4 | 5.0000 | 5.0509 | .051 | 1.02 | 637.83 | 2.66 | 1 |
| S5 | 10.000 | 9.7784 | -.222 | -2.22 | 1234.0 | 4.33 | 1 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



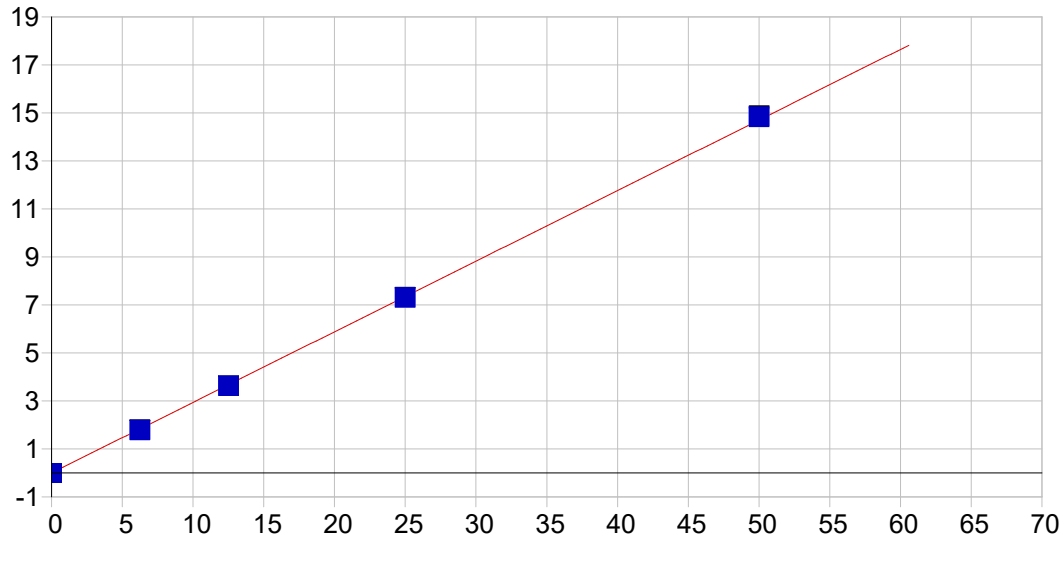

**Tl 190.856 {477}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/05/2025 18:00:22 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000240 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.095219 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999963 | Status: | OK. |
| Std Error of Est: | 0.000021 | | |
| Predicted MDL: | 0.003422 | | |
| Predicted MQL: | 0.011405 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00024 | .000 | 1 |
| S1 | .02500 | .02399 | -.001 | -4.05 | .00196 | .000 | 1 |
| S2 | 1.2500 | 1.2528 | .003 | .222 | .11803 | .000 | 1 |
| S3 | 2.5000 | 2.5446 | .045 | 1.79 | .24002 | .000 | 1 |
| S4 | 5.0000 | 5.0196 | .020 | .392 | .47364 | .001 | 1 |
| S5 | 10.000 | 9.9340 | -.066 | -.660 | .93750 | .002 | 1 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



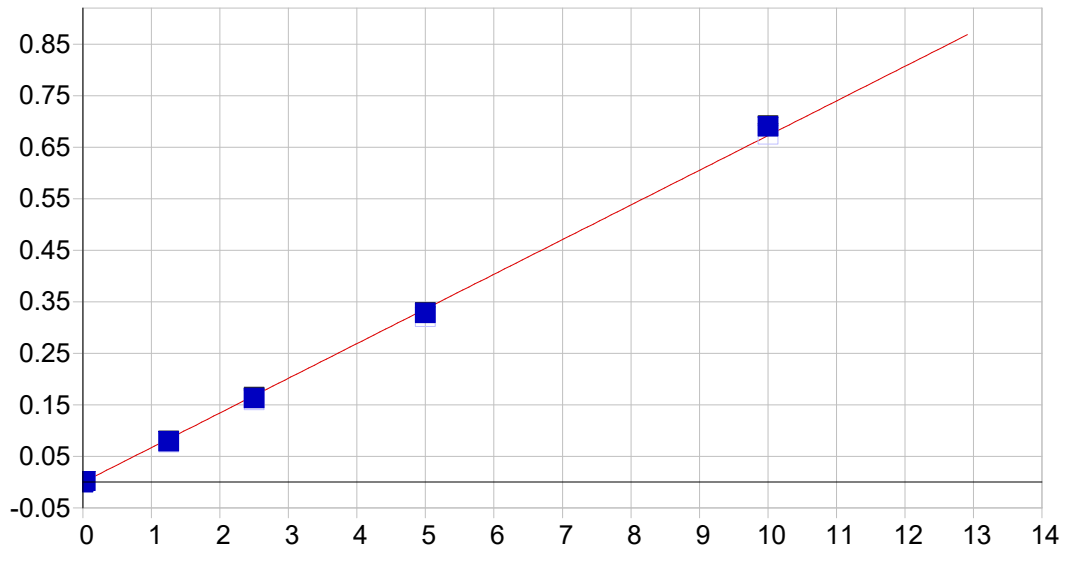

**Pb 220.353 {453}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/05/2025 18:00:22 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.001433 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.294089 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999926 | Status: | OK. |
| Std Error of Est: | 0.000134 | | |
| Predicted MDL: | 0.003009 | | |
| Predicted MQL: | 0.010028 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | -.00143 | .001 | 1 |
| S1 | .01000 | .01249 | .002 | 24.9 | .00222 | .001 | 1 |
| S2 | 6.2500 | 6.0576 | -.192 | -3.08 | 1.7765 | .004 | 1 |
| S3 | 12.500 | 12.349 | -.151 | -1.21 | 3.6232 | .002 | 1 |
| S4 | 25.000 | 24.858 | -.142 | -.568 | 7.2949 | .011 | 1 |
| S5 | 50.000 | 50.483 | .483 | .965 | 14.817 | .031 | 1 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



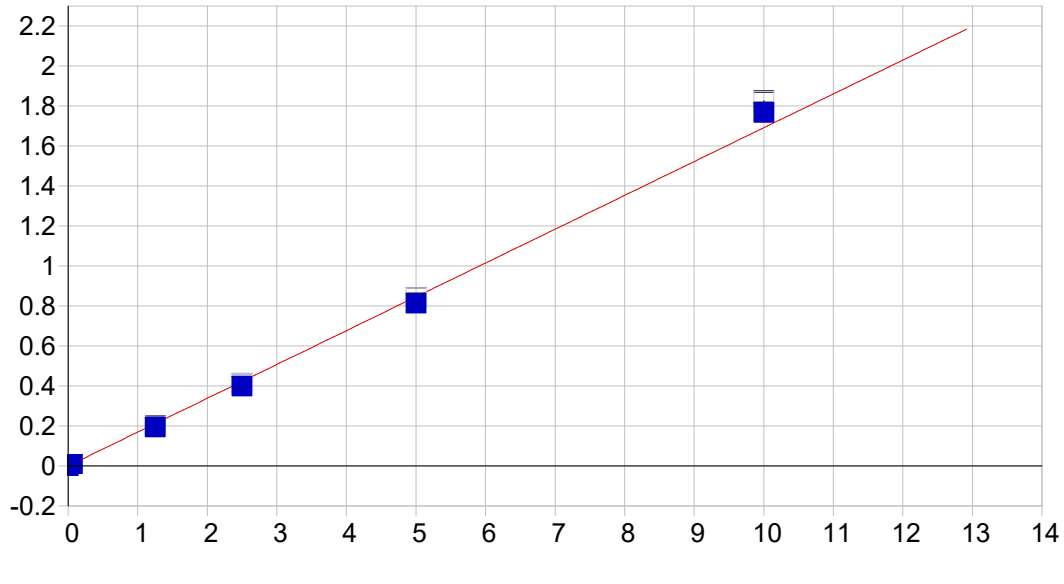

**Se 196.090 {472}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/05/2025 18:00:22 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000282 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.067274 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999564 | Status: | OK. |
| Std Error of Est: | 0.000061 | | |
| Predicted MDL: | 0.006420 | | |
| Predicted MQL: | 0.021401 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00028 | .000 | 1 |
| S1 | .03500 | .03405 | -.001 | -2.72 | .00200 | .000 | 1 |
| S2 | 1.2500 | 1.1798 | -.070 | -5.62 | .07720 | .001 | 1 |
| S3 | 2.5000 | 2.4281 | -.072 | -2.88 | .15928 | .001 | 1 |
| S4 | 5.0000 | 4.8818 | -.118 | -2.36 | .32057 | .000 | 1 |
| S5 | 10.000 | 10.261 | .261 | 2.61 | .67490 | .002 | 1 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



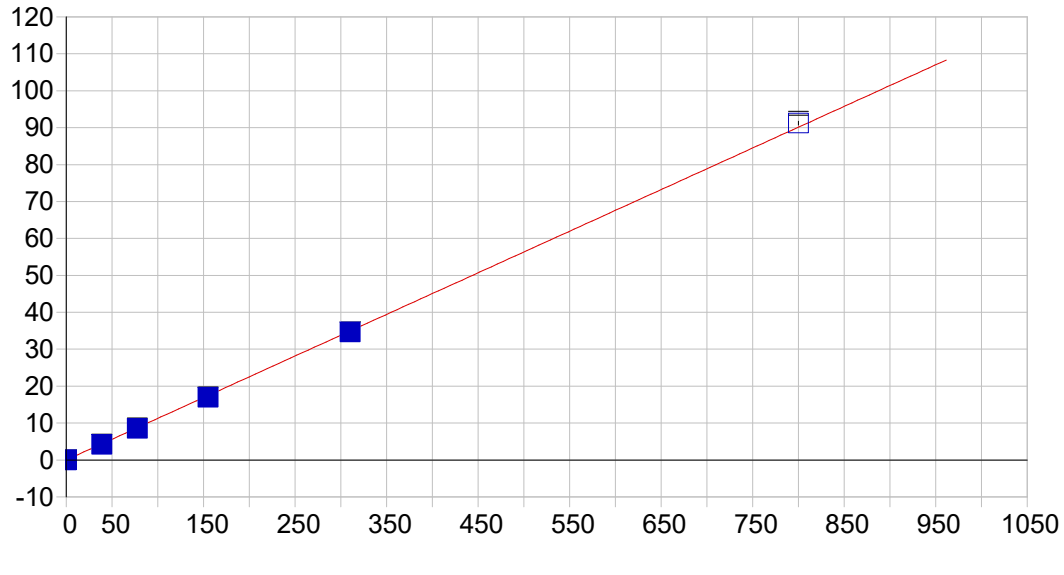

**Sb 206.833 {463}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/05/2025 18:00:22 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000032 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.169143 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.998884 | Status: | OK. |
| Std Error of Est: | 0.000340 | | |
| Predicted MDL: | 0.003569 | | |
| Predicted MQL: | 0.011897 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | -.00003 | .000 | 1 |
| S1 | .06000 | .05488 | -.005 | -8.54 | .00925 | .000 | 1 |
| S2 | 1.2500 | 1.1440 | -.106 | -8.48 | .20053 | .001 | 1 |
| S3 | 2.5000 | 2.3540 | -.146 | -5.84 | .41226 | .001 | 1 |
| S4 | 5.0000 | 4.8116 | -.188 | -3.77 | .84209 | .000 | 1 |
| S5 | 10.000 | 10.445 | .445 | 4.45 | 1.8233 | .003 | 1 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



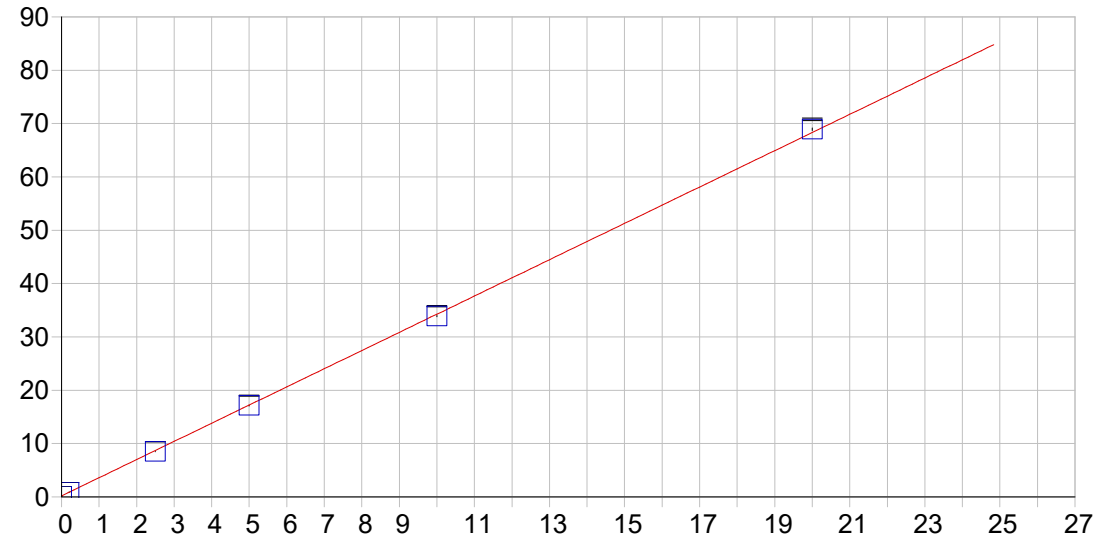

**Al 396.152 { 85}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/05/2025 18:00:22 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.002640 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.112671 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999878 | Status: | OK. |
| Std Error of Est: | 0.001095 | | |
| Predicted MDL: | 0.031330 | | |
| Predicted MQL: | 0.104434 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00003 | -.000 | .000 | -.00264 | .004 | 1 |
| S1 | .20000 | .24877 | .049 | 24.4 | .02543 | .003 | 1 |
| S2 | 38.750 | 37.472 | -1.28 | -3.30 | 4.2242 | .034 | 1 |
| S3 | 77.500 | 75.693 | -1.81 | -2.33 | 8.5352 | .079 | 1 |
| S4 | 155.00 | 150.86 | -4.14 | -2.67 | 17.014 | .071 | 1 |
| S5 | 310.00 | 307.66 | -2.34 | -.756 | 34.699 | .104 | 1 |
| S6 | 800.00 | 809.53 | 9.53 | 1.19 | 91.207 | .538 | 1 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



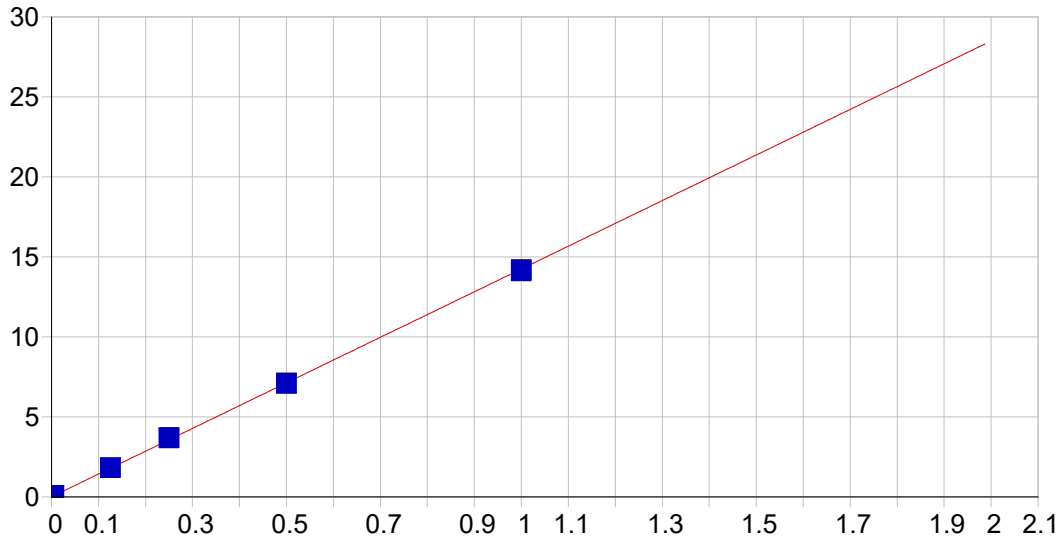

**Ba 493.409 { 68}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/05/2025 18:00:22 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.191444 | Re-Slope: | 1.000000 |
| A1 (Gain): | 3.406758 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999934 | Status: | OK. |
| Std Error of Est: | 0.004164 | | |
| Predicted MDL: | 0.002685 | | |
| Predicted MQL: | 0.008950 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00001 | -.000 | .000 | .19143 | .004 | 1 |
| S1 | .20000 | .21147 | .011 | 5.74 | .91188 | .004 | 1 |
| S2 | 2.5000 | 2.4389 | -.061 | -2.45 | 8.5001 | .022 | 1 |
| S3 | 5.0000 | 4.9787 | -.021 | -.426 | 17.153 | .085 | 1 |
| S4 | 10.000 | 9.8927 | -.107 | -1.07 | 33.893 | .137 | 1 |
| S5 | 20.000 | 20.178 | .178 | .892 | 68.934 | .229 | 1 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



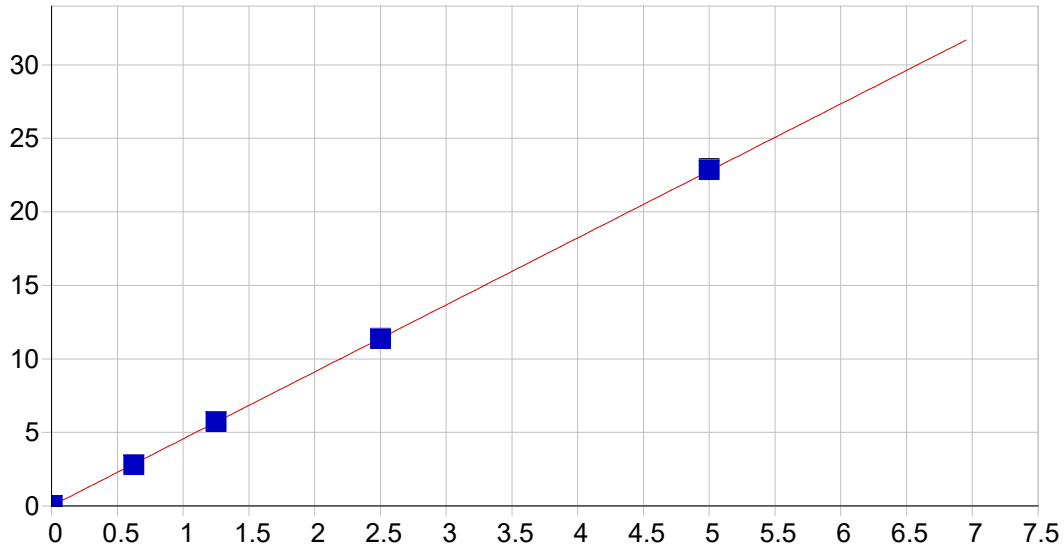

**Be 234.861 {144}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/05/2025 18:00:22 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.003613 | Re-Slope: | 1.000000 |
| A1 (Gain): | 14.245073 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999878 | Status: | OK. |
| Std Error of Est: | 0.000832 | | |
| Predicted MDL: | 0.000142 | | |
| Predicted MQL: | 0.000474 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00360 | .001 | 1 |
| S1 | .00500 | .00557 | .001 | 11.4 | .08289 | .005 | 1 |
| S2 | .12500 | .12798 | .003 | 2.39 | 1.8186 | .022 | 1 |
| S3 | .25000 | .25765 | .008 | 3.06 | 3.6575 | .030 | 1 |
| S4 | .50000 | .49708 | -.003 | -.584 | 7.0519 | .029 | 1 |
| S5 | 1.0000 | .99172 | -.008 | -.828 | 14.065 | .078 | 1 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



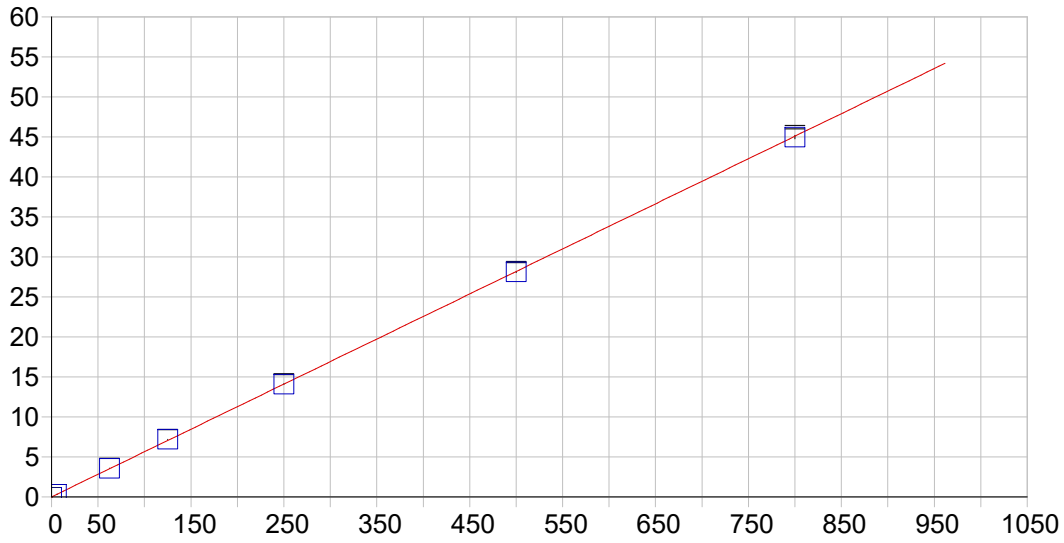

**Cd 214.438 {457}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/05/2025 18:00:22 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000530 | Re-Slope: | 1.000000 |
| A1 (Gain): | 4.557697 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999985 | Status: | OK. |
| Std Error of Est: | 0.000208 | | |
| Predicted MDL: | 0.000106 | | |
| Predicted MQL: | 0.000352 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00053 | .000 | 1 |
| S1 | .00500 | .00500 | -.000 | -.038 | .02339 | .000 | 1 |
| S2 | .62500 | .61338 | -.012 | -1.86 | 2.8005 | .006 | 1 |
| S3 | 1.2500 | 1.2538 | .004 | .308 | 5.7239 | .002 | 1 |
| S4 | 2.5000 | 2.4943 | -.006 | -.230 | 11.386 | .018 | 1 |
| S5 | 5.0000 | 5.0135 | .014 | .270 | 22.886 | .049 | 1 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

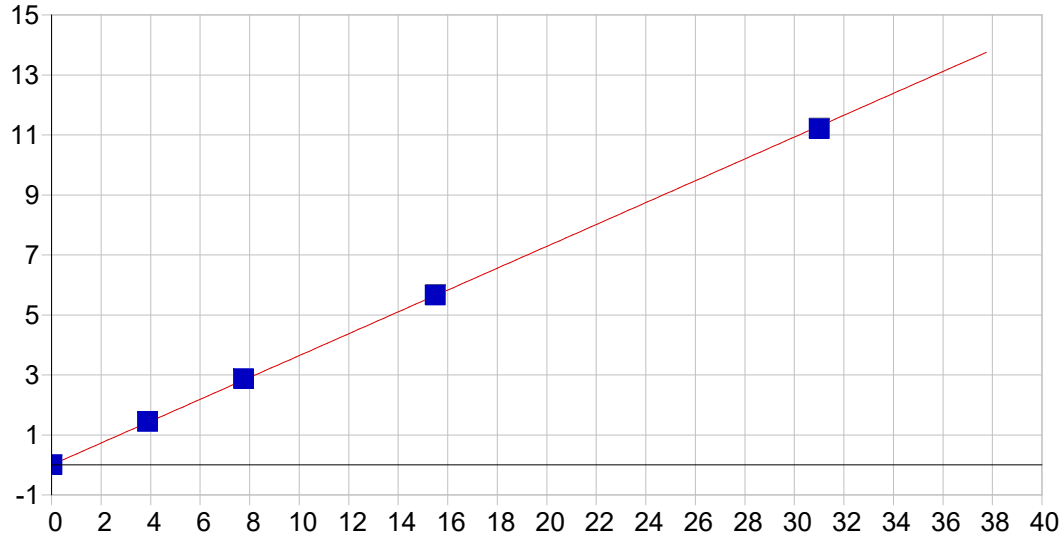



**Ca 373.690 { 90}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/05/2025 18:00:22 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.008315 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.056353 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999972 | Status: | OK. |
| Std Error of Est: | 0.001471 | | |
| Predicted MDL: | 0.043296 | | |
| Predicted MQL: | 0.144321 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00052 | -.001 | .000 | .00829 | .002 | 1 |
| S1 | 5.0000 | 5.3966 | .397 | 7.93 | .31243 | .002 | 1 |
| S2 | 62.500 | 63.192 | .692 | 1.11 | 3.5694 | .020 | 1 |
| S3 | 125.00 | 127.47 | 2.47 | 1.97 | 7.1915 | .021 | 1 |
| S4 | 250.00 | 249.97 | -.033 | -.013 | 14.095 | .057 | 1 |
| S5 | 500.00 | 498.76 | -1.24 | -.248 | 28.115 | .075 | 1 |
| S6 | 800.00 | 797.72 | -2.28 | -.286 | 44.962 | .221 | 1 |



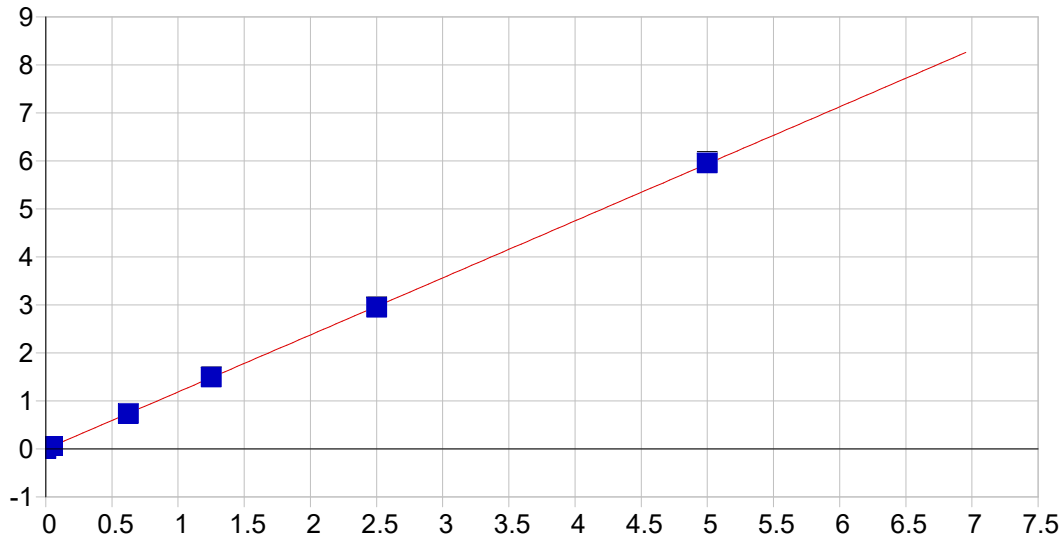

**Cr 267.716 {126}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/05/2025 18:00:22 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000055 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.364257 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999944 | Status: | OK. |
| Std Error of Est: | 0.000114 | | |
| Predicted MDL: | 0.000896 | | |
| Predicted MQL: | 0.002986 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | -.00006 | .000 | 1 |
| S1 | .01000 | .01085 | .001 | 8.51 | .00390 | .000 | 1 |
| S2 | 3.8750 | 3.9476 | .073 | 1.87 | 1.4390 | .002 | 1 |
| S3 | 7.7500 | 7.8981 | .148 | 1.91 | 2.8791 | .005 | 1 |
| S4 | 15.500 | 15.537 | .037 | .241 | 5.6639 | .017 | 1 |
| S5 | 31.000 | 30.741 | -.259 | -.835 | 11.206 | .015 | 1 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



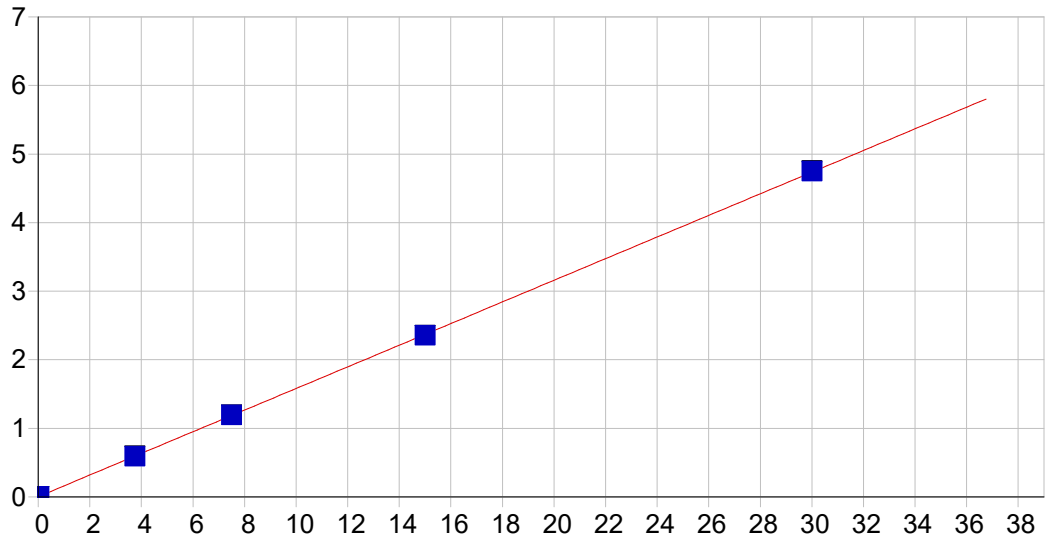

**Co 228.616 {448}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/05/2025 18:00:22 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.001435 | Re-Slope: | 1.000000 |
| A1 (Gain): | 1.188113 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999984 | Status: | OK. |
| Std Error of Est: | 0.000177 | | |
| Predicted MDL: | 0.000436 | | |
| Predicted MQL: | 0.001453 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | -.00144 | .000 | 1 |
| S1 | .05000 | .05220 | .002 | 4.39 | .06077 | .000 | 1 |
| S2 | .62500 | .62101 | -.004 | -.639 | .73879 | .001 | 1 |
| S3 | 1.2500 | 1.2583 | .008 | .661 | 1.4983 | .001 | 1 |
| S4 | 2.5000 | 2.4840 | -.016 | -.641 | 2.9594 | .007 | 1 |
| S5 | 5.0000 | 5.0096 | .010 | .191 | 5.9696 | .014 | 1 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



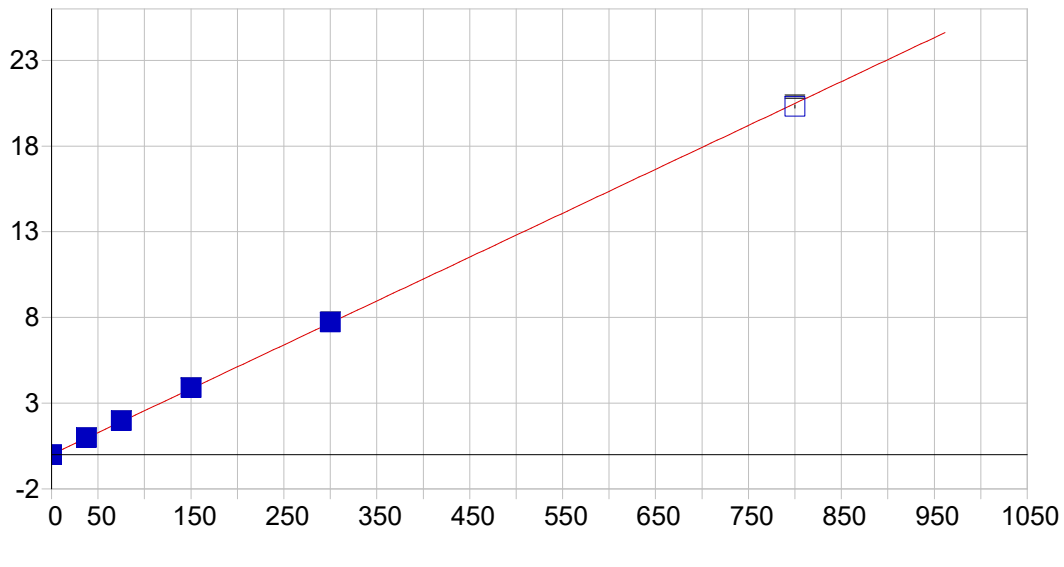

**Cu 324.754 {104}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/05/2025 18:00:22 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.003711 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.157760 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999981 | Status: | OK. |
| Std Error of Est: | 0.000044 | | |
| Predicted MDL: | 0.010012 | | |
| Predicted MQL: | 0.033374 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00371 | .001 | 1 |
| S1 | .02500 | .02986 | .005 | 19.5 | .00842 | .002 | 1 |
| S2 | 3.7500 | 3.7226 | -.027 | -.732 | .59092 | .004 | 1 |
| S3 | 7.5000 | 7.5379 | .038 | .505 | 1.1928 | .007 | 1 |
| S4 | 15.000 | 14.908 | -.092 | -.615 | 2.3553 | .002 | 1 |
| S5 | 30.000 | 30.077 | .077 | .256 | 4.7481 | .009 | 1 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



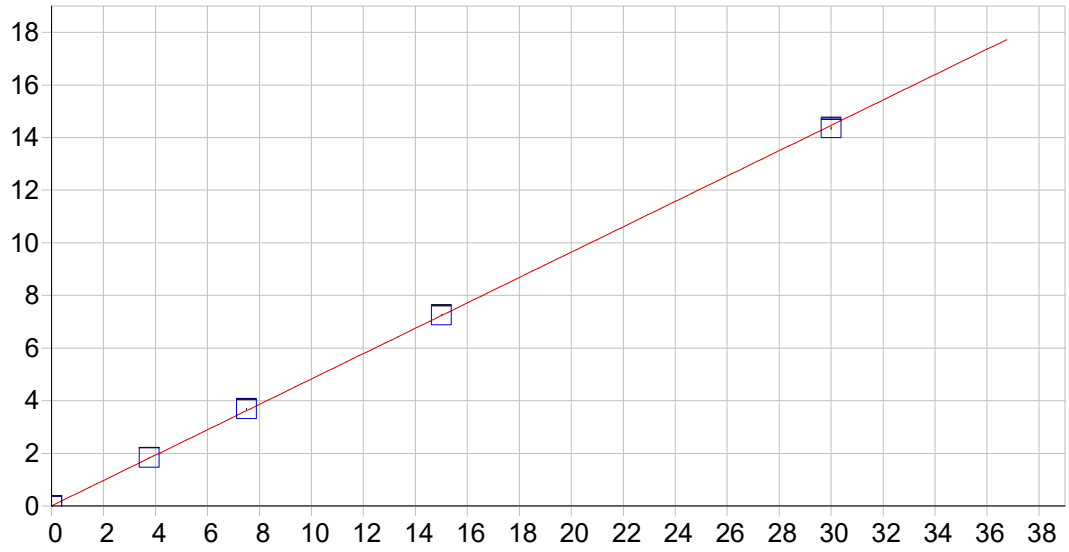

**Fe 259.837 {130}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/05/2025 18:00:22 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000019 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.025603 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999935 | Status: | OK. |
| Std Error of Est: | 0.000127 | | |
| Predicted MDL: | 0.035846 | | |
| Predicted MQL: | 0.119488 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00002 | .001 | 1 |
| S1 | .10000 | .08905 | -.011 | -11.0 | .00230 | .001 | 1 |
| S2 | 37.500 | 38.426 | .926 | 2.47 | .98404 | .006 | 1 |
| S3 | 75.000 | 76.992 | 1.99 | 2.66 | 1.9716 | .015 | 1 |
| S4 | 150.00 | 151.94 | 1.94 | 1.29 | 3.8909 | .010 | 1 |
| S5 | 300.00 | 302.10 | 2.10 | .698 | 7.7361 | .013 | 1 |
| S6 | 800.00 | 793.05 | -6.95 | -.868 | 20.304 | .097 | 1 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



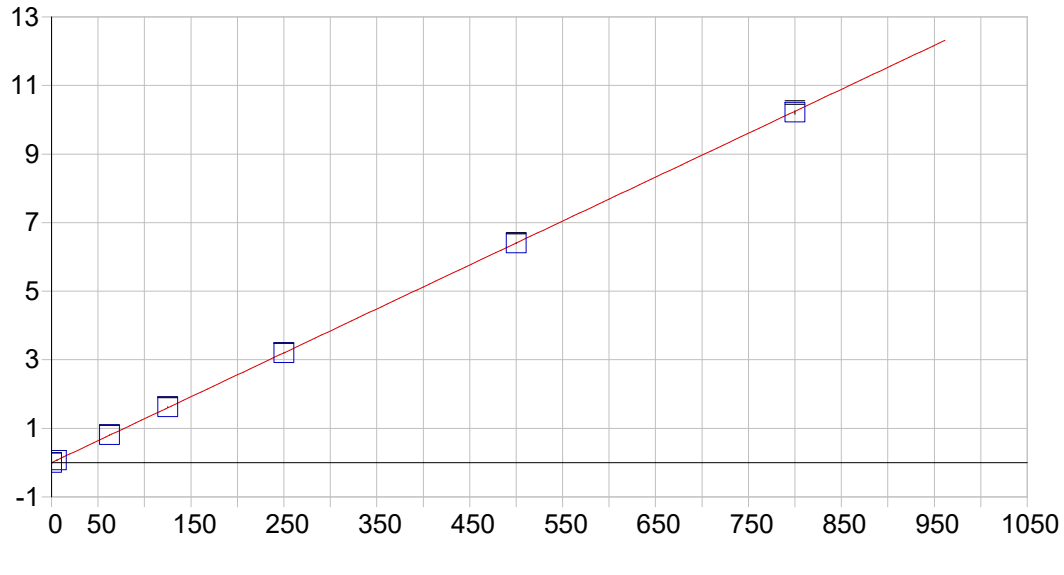

**Mn 257.610 {131}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/05/2025 18:00:22 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.003397 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.482121 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999955 | Status: | OK. |
| Std Error of Est: | 0.000163 | | |
| Predicted MDL: | 0.001952 | | |
| Predicted MQL: | 0.006506 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00340 | .002 | 1 |
| S1 | .01500 | .01502 | .000 | .136 | .01064 | .001 | 1 |
| S2 | 3.7500 | 3.8050 | .055 | 1.47 | 1.8379 | .005 | 1 |
| S3 | 7.5000 | 7.6398 | .140 | 1.86 | 3.6867 | .027 | 1 |
| S4 | 15.000 | 15.027 | .027 | .183 | 7.2485 | .025 | 1 |
| S5 | 30.000 | 29.778 | -.222 | -.741 | 14.360 | .041 | 1 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



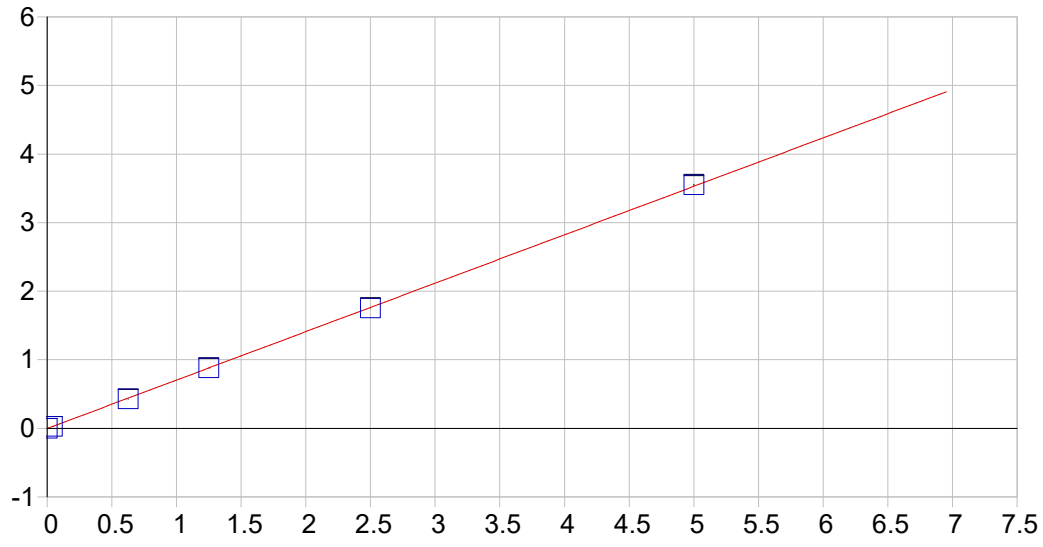

**Mg 279.079 {121}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/05/2025 18:00:22 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000913 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.012811 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999969 | Status: | OK. |
| Std Error of Est: | 0.000351 | | |
| Predicted MDL: | 0.091055 | | |
| Predicted MQL: | 0.303517 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00070 | -.001 | .000 | -.00092 | .001 | 1 |
| S1 | 5.0000 | 5.6084 | .608 | 12.2 | .07093 | .001 | 1 |
| S2 | 62.500 | 63.009 | .509 | .814 | .80627 | .006 | 1 |
| S3 | 125.00 | 126.61 | 1.61 | 1.29 | 1.6211 | .013 | 1 |
| S4 | 250.00 | 250.01 | .014 | .006 | 3.2019 | .011 | 1 |
| S5 | 500.00 | 499.86 | -.143 | -.029 | 6.4026 | .020 | 1 |
| S6 | 800.00 | 797.40 | -2.60 | -.325 | 10.214 | .053 | 1 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



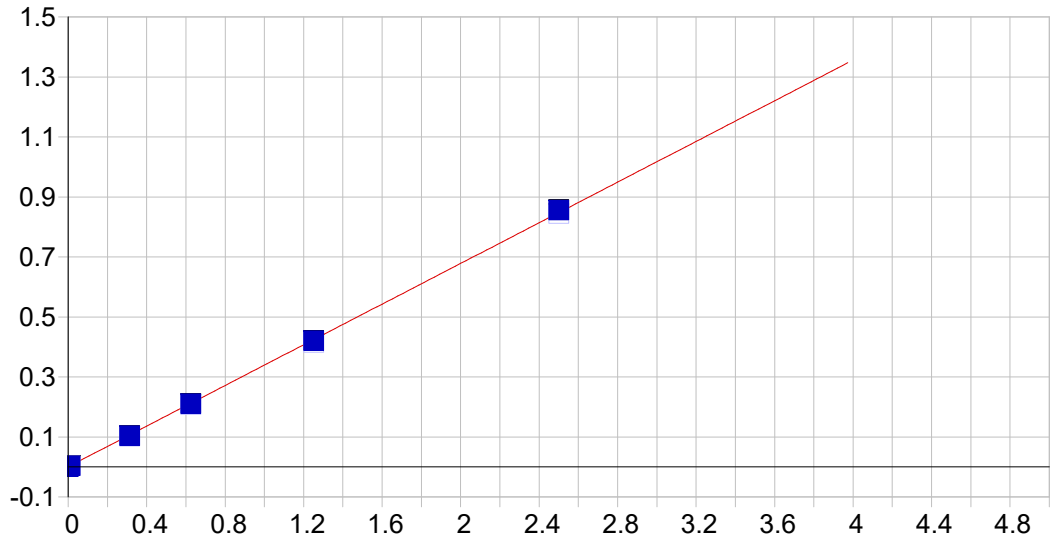

**Ni 231.604 {446}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/05/2025 18:00:22 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.001851 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.706192 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999960 | Status: | OK. |
| Std Error of Est: | 0.000149 | | |
| Predicted MDL: | 0.000929 | | |
| Predicted MQL: | 0.003097 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00185 | .000 | 1 |
| S1 | .04000 | .03971 | -.000 | -.726 | .02619 | .000 | 1 |
| S2 | .62500 | .60724 | -.018 | -2.84 | .42698 | .002 | 1 |
| S3 | 1.2500 | 1.2491 | -.001 | -.069 | .88028 | .001 | 1 |
| S4 | 2.5000 | 2.4886 | -.011 | -.457 | 1.7556 | .003 | 1 |
| S5 | 5.0000 | 5.0303 | .030 | .607 | 3.5505 | .008 | 1 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



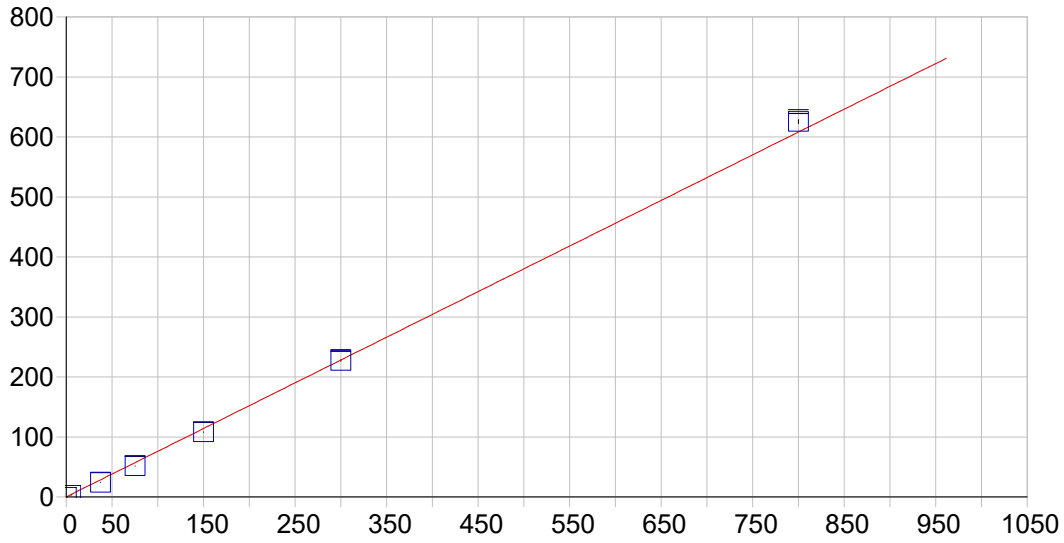

**Ag 328.068 {103}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/05/2025 18:00:22 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000452 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.338881 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999931 | Status: | OK. |
| Std Error of Est: | 0.000033 | | |
| Predicted MDL: | 0.001634 | | |
| Predicted MQL: | 0.005447 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00045 | .001 | 1 |
| S1 | .01000 | .01031 | .000 | 3.05 | .00394 | .000 | 1 |
| S2 | .31250 | .30376 | -.009 | -2.80 | .10187 | .000 | 1 |
| S3 | .62500 | .61939 | -.006 | -.898 | .20730 | .000 | 1 |
| S4 | 1.2500 | 1.2395 | -.011 | -.841 | .41439 | .001 | 1 |
| S5 | 2.5000 | 2.5246 | .025 | .982 | .84378 | .001 | 1 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



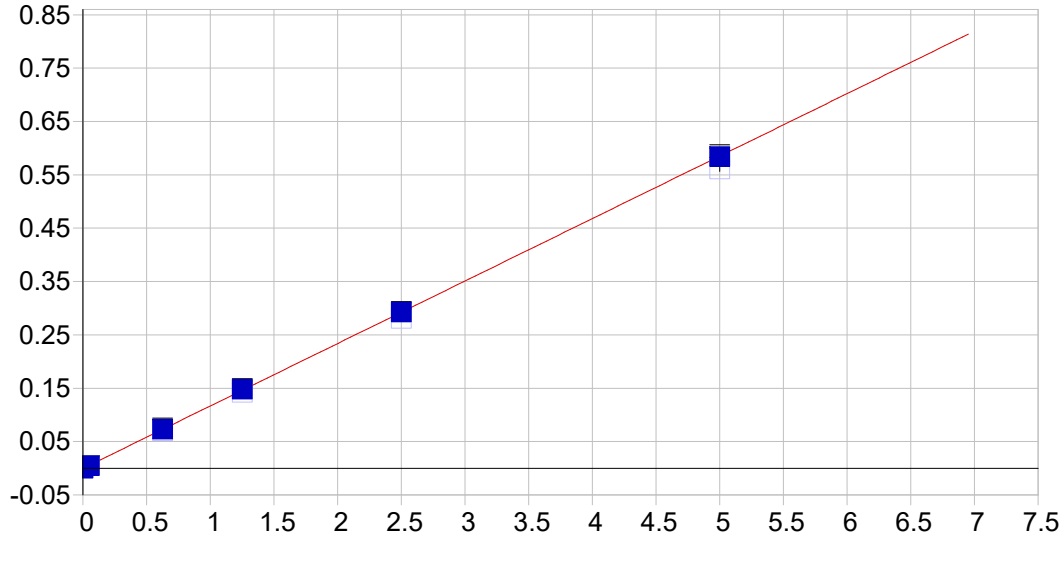

**Na 818.326 { 41}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/05/2025 18:00:22 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.067715 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.760094 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.998957 | Status: | OK. |
| Std Error of Est: | 0.107438 | | |
| Predicted MDL: | 0.019063 | | |
| Predicted MQL: | 0.063543 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00236 | .002 | .000 | .06951 | .023 | 1 |
| S1 | 5.0000 | 4.0331 | -.967 | -19.3 | 3.1333 | .014 | 1 |
| S2 | 37.500 | 31.589 | -5.91 | -15.8 | 24.078 | .261 | 1 |
| S3 | 75.000 | 67.943 | -7.06 | -9.41 | 51.711 | .287 | 1 |
| S4 | 150.00 | 142.03 | -7.97 | -5.32 | 108.02 | .479 | 1 |
| S5 | 300.00 | 299.15 | -.852 | -.284 | 227.45 | 1.53 | 1 |
| S6 | 800.00 | 822.76 | 22.8 | 2.85 | 625.44 | 3.20 | 1 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



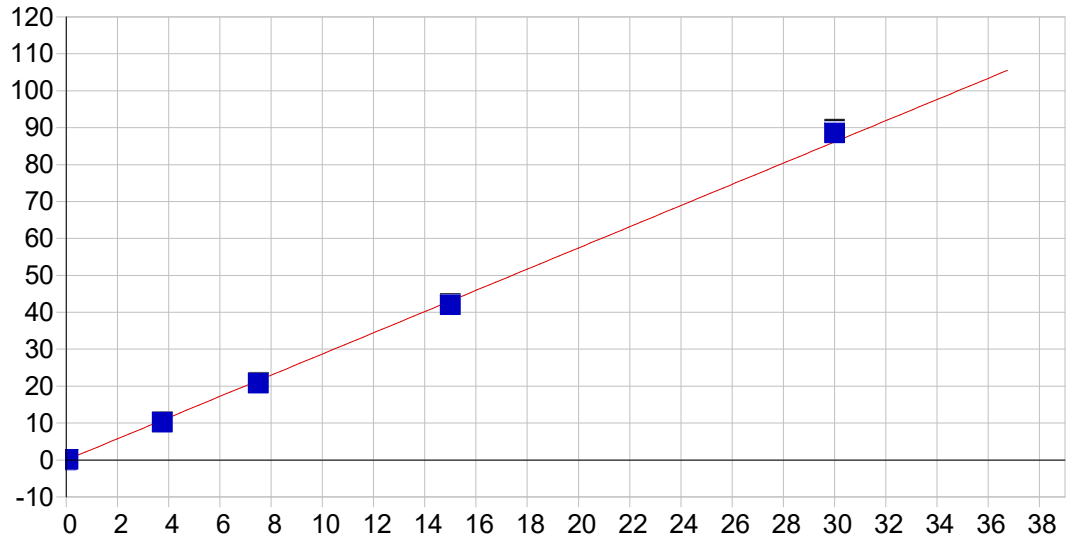

**V 292.402 {115}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/05/2025 18:00:22 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000405 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.117105 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999919 | Status: | OK. |
| Std Error of Est: | 0.000038 | | |
| Predicted MDL: | 0.011973 | | |
| Predicted MQL: | 0.039910 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | -.00040 | .001 | 1 |
| S1 | .05000 | .04237 | -.008 | -15.3 | .00454 | .001 | 1 |
| S2 | .62500 | .62509 | .000 | .014 | .06986 | .002 | 1 |
| S3 | 1.2500 | 1.2670 | .017 | 1.36 | .14210 | .001 | 1 |
| S4 | 2.5000 | 2.5001 | .000 | .003 | .28064 | .001 | 1 |
| S5 | 5.0000 | 4.9907 | -.009 | -.185 | .56057 | .004 | 1 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



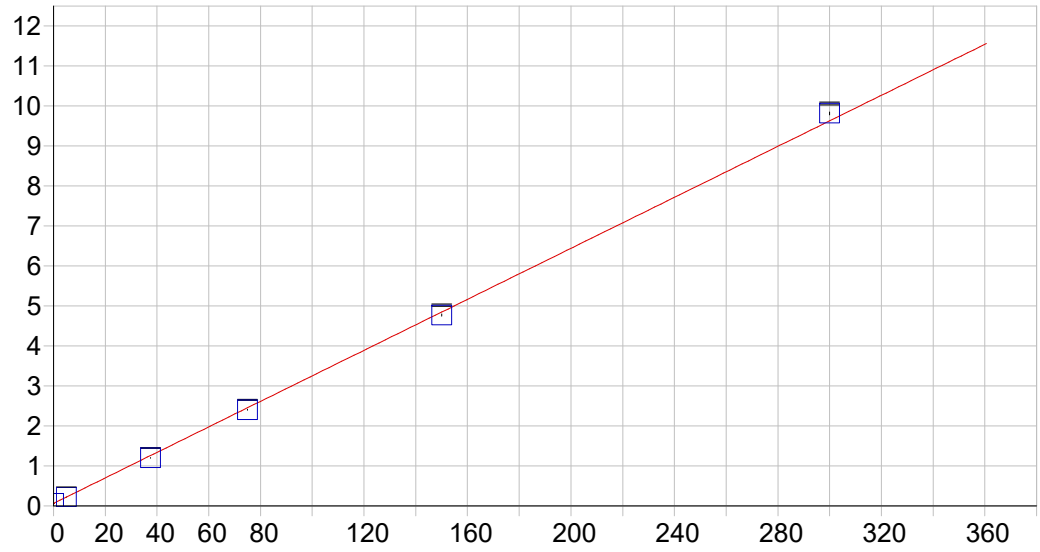

**Zn 213.856 {158}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/05/2025 18:00:22 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000830 | Re-Slope: | 1.000000 |
| A1 (Gain): | 2.871072 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999534 | Status: | OK. |
| Std Error of Est: | 0.006270 | | |
| Predicted MDL: | 0.000629 | | |
| Predicted MQL: | 0.002096 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00084 | .002 | 1 |
| S1 | .06000 | .06251 | .003 | 4.18 | .18083 | .001 | 1 |
| S2 | 3.7500 | 3.5589 | -.191 | -5.09 | 10.271 | .046 | 1 |
| S3 | 7.5000 | 7.2216 | -.278 | -3.71 | 20.840 | .189 | 1 |
| S4 | 15.000 | 14.626 | -.374 | -2.49 | 42.205 | .172 | 1 |
| S5 | 30.000 | 30.841 | .841 | 2.80 | 88.968 | .651 | 1 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



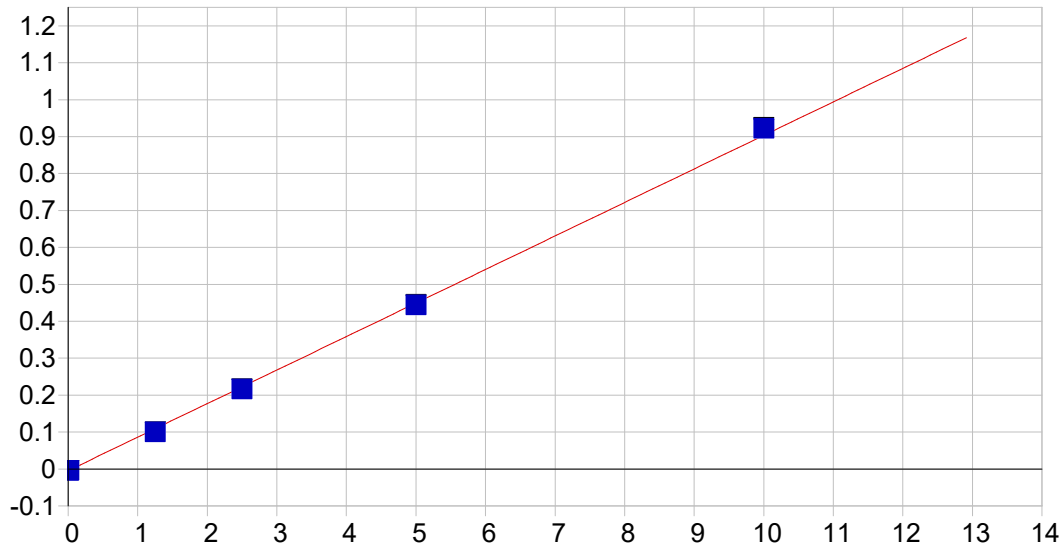

**K 769.896 { 44}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/05/2025 18:00:22 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.063339 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.031889 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999753 | Status: | OK. |
| Std Error of Est: | 0.001462 | | |
| Predicted MDL: | 0.197341 | | |
| Predicted MQL: | 0.657804 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00032 | .000 | .000 | .06335 | .003 | 1 |
| S1 | 5.0000 | 5.0183 | .018 | .366 | .22337 | .004 | 1 |
| S2 | 37.500 | 35.607 | -1.89 | -5.05 | 1.1988 | .007 | 1 |
| S3 | 75.000 | 73.406 | -1.59 | -2.13 | 2.4042 | .011 | 1 |
| S4 | 150.00 | 147.63 | -2.37 | -1.58 | 4.7712 | .027 | 1 |
| S5 | 300.00 | 305.84 | 5.84 | 1.95 | 9.8162 | .038 | 1 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



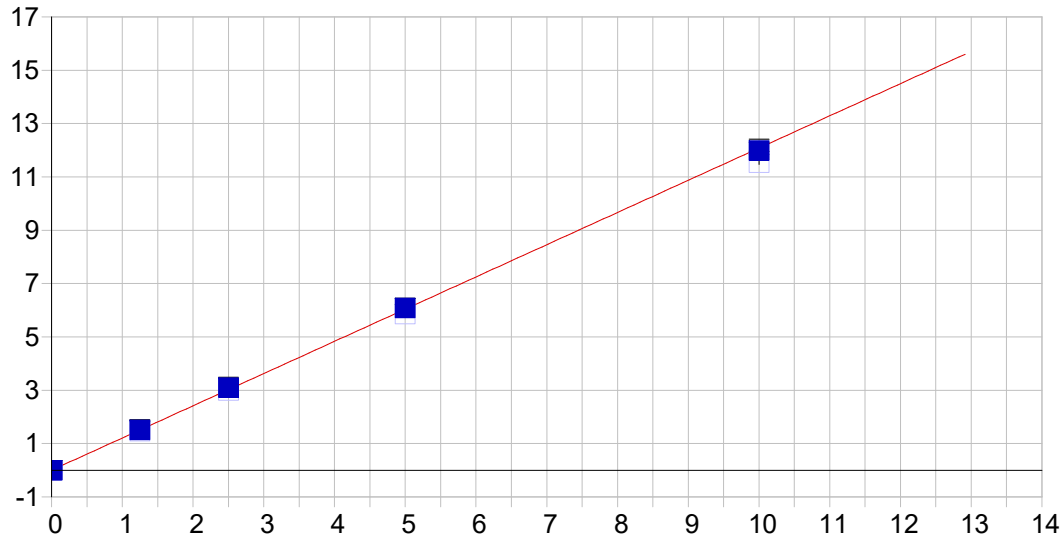

**P 177.495 {490}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/05/2025 18:00:22 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.004561 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.090781 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999618 | Status: | OK. |
| Std Error of Est: | 0.000042 | | |
| Predicted MDL: | 0.003111 | | |
| Predicted MQL: | 0.010370 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | -.00456 | .000 | 1 |
| S1 | .01000 | .01146 | .001 | 14.6 | -.00352 | .000 | 1 |
| S2 | 1.2500 | 1.1556 | -.094 | -7.55 | .10018 | .000 | 1 |
| S3 | 2.5000 | 2.4341 | -.066 | -2.64 | .21608 | .000 | 1 |
| S4 | 5.0000 | 4.9444 | -.056 | -1.11 | .44364 | .002 | 1 |
| S5 | 10.000 | 10.214 | .214 | 2.14 | .92139 | .003 | 1 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



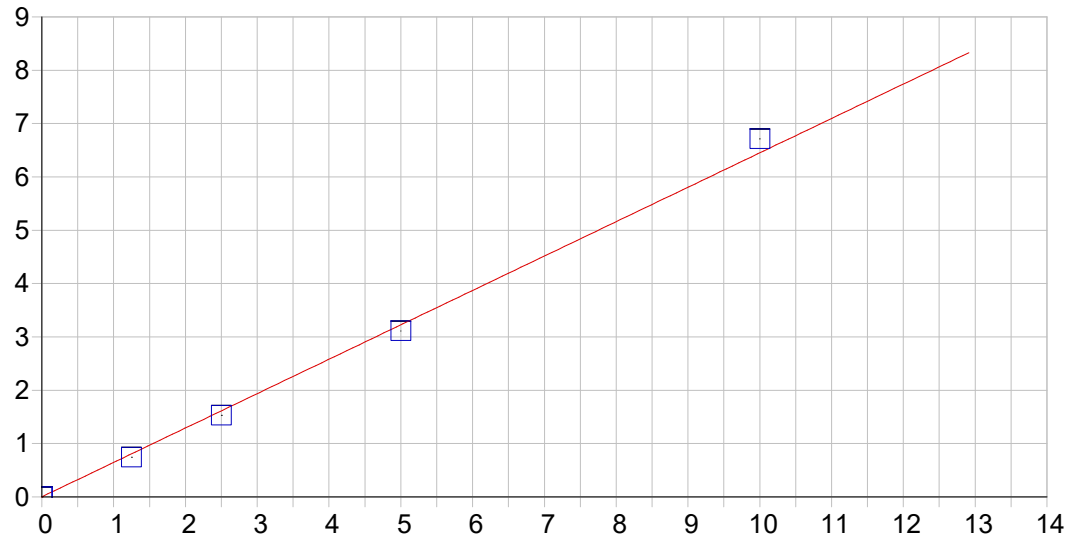

**B 249.678 {135}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/05/2025 18:00:22 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.001076 | Re-Slope: | 1.000000 |
| A1 (Gain): | 1.208104 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999544 | Status: | OK. |
| Std Error of Est: | 0.000589 | | |
| Predicted MDL: | 0.002066 | | |
| Predicted MQL: | 0.006888 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | .00109 | .003 | 1 |
| S1 | .01000 | -.00162 | -.012 | -116. | -.00095 | .000 | 1 |
| S2 | 1.2500 | 1.2507 | .001 | .056 | 1.4546 | .010 | 1 |
| S3 | 2.5000 | 2.5619 | .062 | 2.48 | 2.9813 | .024 | 1 |
| S4 | 5.0000 | 5.0295 | .029 | .589 | 5.8475 | .005 | 1 |
| S5 | 10.000 | 9.9200 | -.080 | -.800 | 11.526 | .059 | 1 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



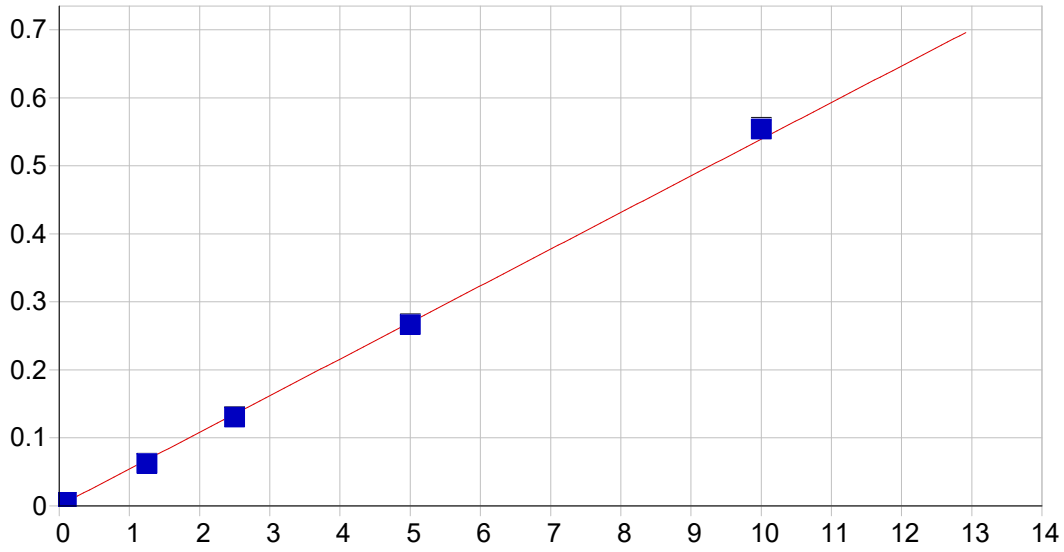

**Mo 202.030 {467}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/05/2025 18:00:22 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.001600 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.644935 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.998996 | Status: | OK. |
| Std Error of Est: | 0.000485 | | |
| Predicted MDL: | 0.000753 | | |
| Predicted MQL: | 0.002509 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00160 | .000 | 1 |
| S1 | .01000 | .00957 | -.000 | -4.34 | .00777 | .000 | 1 |
| S2 | 1.2500 | 1.1502 | -.100 | -7.98 | .74342 | .001 | 1 |
| S3 | 2.5000 | 2.3706 | -.129 | -5.18 | 1.5305 | .002 | 1 |
| S4 | 5.0000 | 4.8215 | -.178 | -3.57 | 3.1112 | .002 | 1 |
| S5 | 10.000 | 10.408 | .408 | 4.08 | 6.7142 | .004 | 1 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



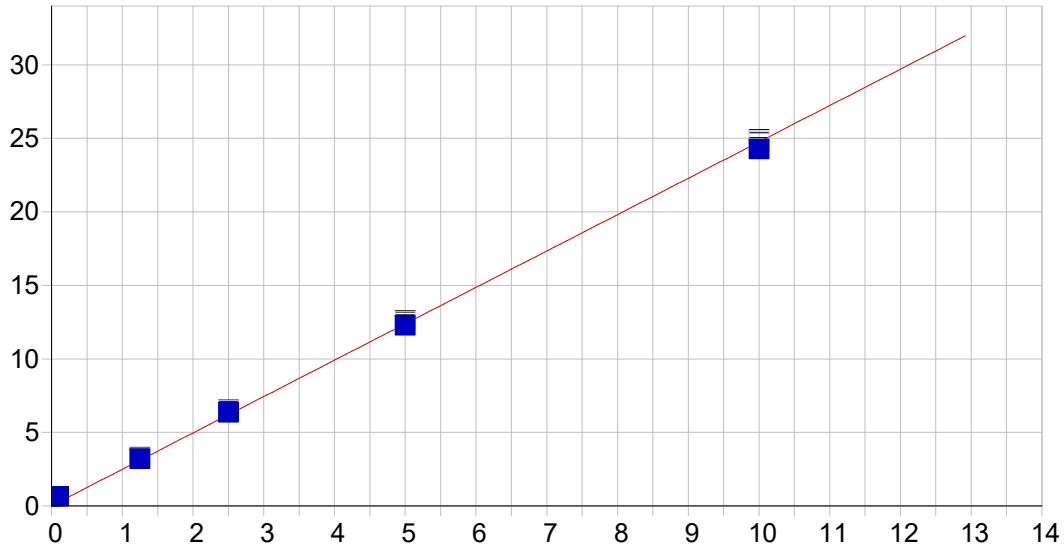

**S 182.034 {485}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/05/2025 18:00:22 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000395 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.053877 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999445 | Status: | OK. |
| Std Error of Est: | 0.000096 | | |
| Predicted MDL: | 0.004701 | | |
| Predicted MQL: | 0.015671 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00002 | .000 | .000 | .00040 | .000 | 1 |
| S1 | .10000 | .08935 | -.011 | -10.6 | .00521 | .000 | 1 |
| S2 | 1.2500 | 1.1468 | -.103 | -8.26 | .06240 | .000 | 1 |
| S3 | 2.5000 | 2.4099 | -.090 | -3.60 | .13067 | .000 | 1 |
| S4 | 5.0000 | 4.9337 | -.066 | -1.33 | .26708 | .001 | 1 |
| S5 | 10.000 | 10.270 | .270 | 2.70 | .55546 | .001 | 1 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



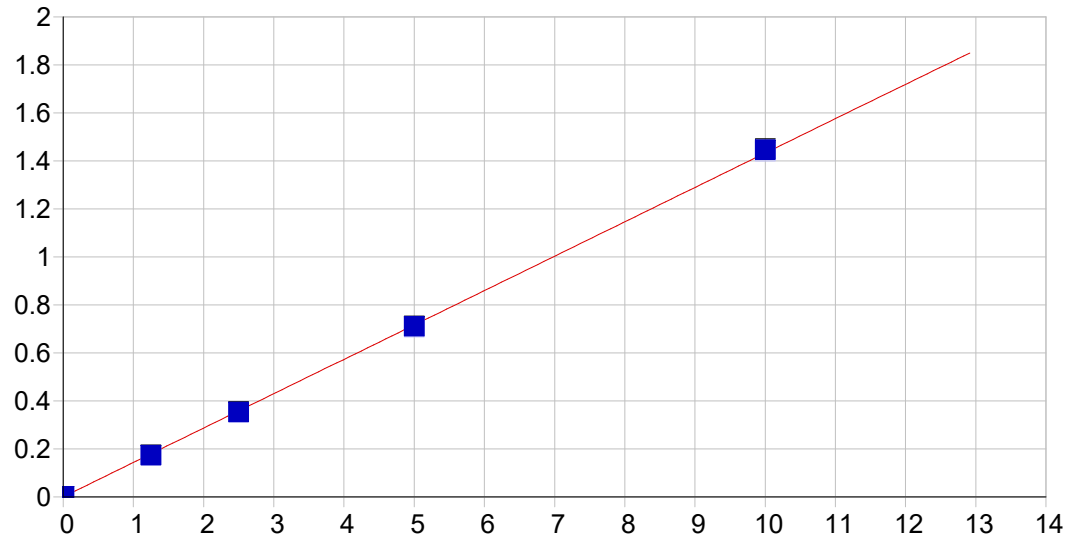

**Si 251.611 {134}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/05/2025 18:00:22 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.017318 | Re-Slope: | 1.000000 |
| A1 (Gain): | 2.474255 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.993623 | Status: | OK. |
| Std Error of Est: | 0.015259 | | |
| Predicted MDL: | 0.001032 | | |
| Predicted MQL: | 0.003441 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00016 | -.000 | .000 | .01692 | .002 | 1 |
| S1 | .10000 | .25708 | .157 | 157. | .65689 | .004 | 1 |
| S2 | 1.2500 | 1.2843 | .034 | 2.74 | 3.2651 | .040 | 1 |
| S3 | 2.5000 | 2.5591 | .059 | 2.37 | 6.4897 | .047 | 1 |
| S4 | 5.0000 | 4.9522 | -.048 | -.956 | 12.551 | .043 | 1 |
| S5 | 10.000 | 9.7986 | -.201 | -2.01 | 24.823 | .110 | 1 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



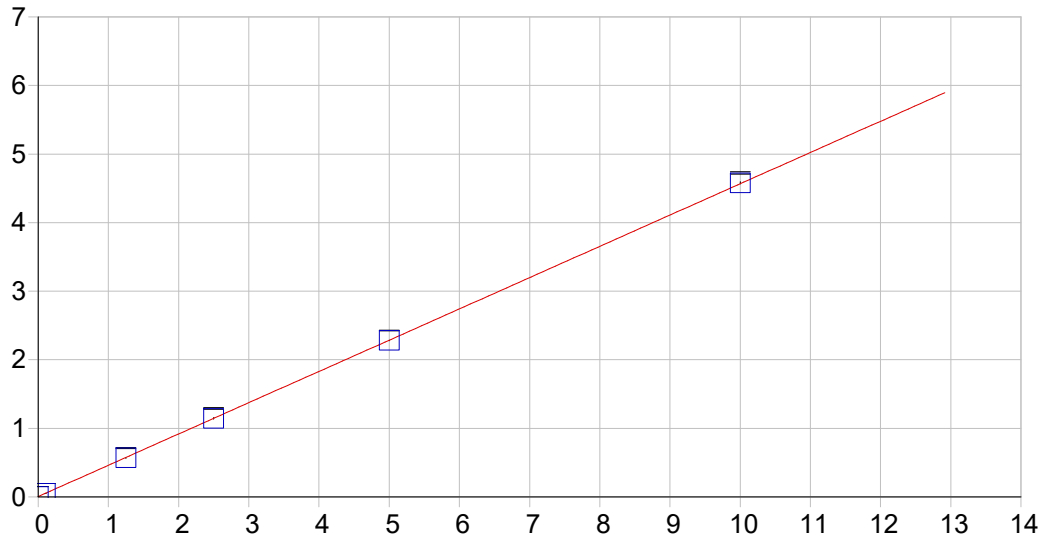

**Sn 189.989 {478}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/05/2025 18:00:22 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000332 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.143226 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.998813 | Status: | OK. |
| Std Error of Est: | 0.000097 | | |
| Predicted MDL: | 0.001584 | | |
| Predicted MQL: | 0.005280 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00002 | -.000 | .000 | .00033 | .000 | 1 |
| S1 | .00700 | .02397 | .017 | 242. | .00372 | .000 | 1 |
| S2 | 1.2500 | 1.2104 | -.040 | -3.17 | .17280 | .000 | 1 |
| S3 | 2.5000 | 2.4668 | -.033 | -1.33 | .35184 | .001 | 1 |
| S4 | 5.0000 | 4.9590 | -.041 | -.820 | .70700 | .002 | 1 |
| S5 | 10.000 | 10.097 | .097 | .975 | 1.4394 | .005 | 1 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



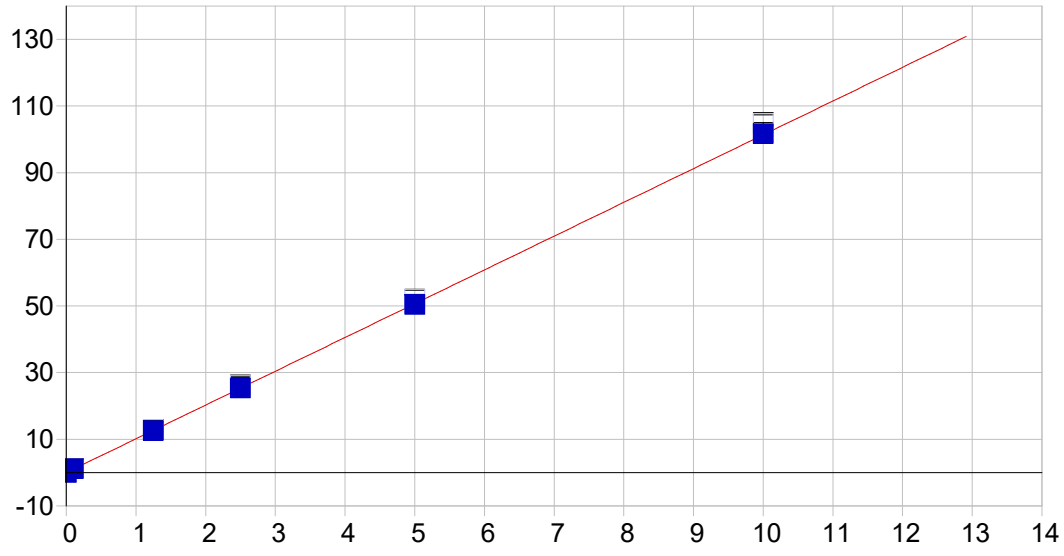

**Ti 336.121 {100}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/05/2025 18:00:22 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.005599 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.456054 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999989 | Status: | OK. |
| Std Error of Est: | 0.000112 | | |
| Predicted MDL: | 0.004657 | | |
| Predicted MQL: | 0.015524 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00560 | .003 | 1 |
| S1 | .10000 | .09775 | -.002 | -2.25 | .05018 | .001 | 1 |
| S2 | 1.2500 | 1.2318 | -.018 | -1.45 | .56739 | .006 | 1 |
| S3 | 2.5000 | 2.4994 | -.001 | -.024 | 1.1455 | .011 | 1 |
| S4 | 5.0000 | 4.9931 | -.007 | -.138 | 2.2827 | .006 | 1 |
| S5 | 10.000 | 10.028 | .028 | .279 | 4.5789 | .016 | 1 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5



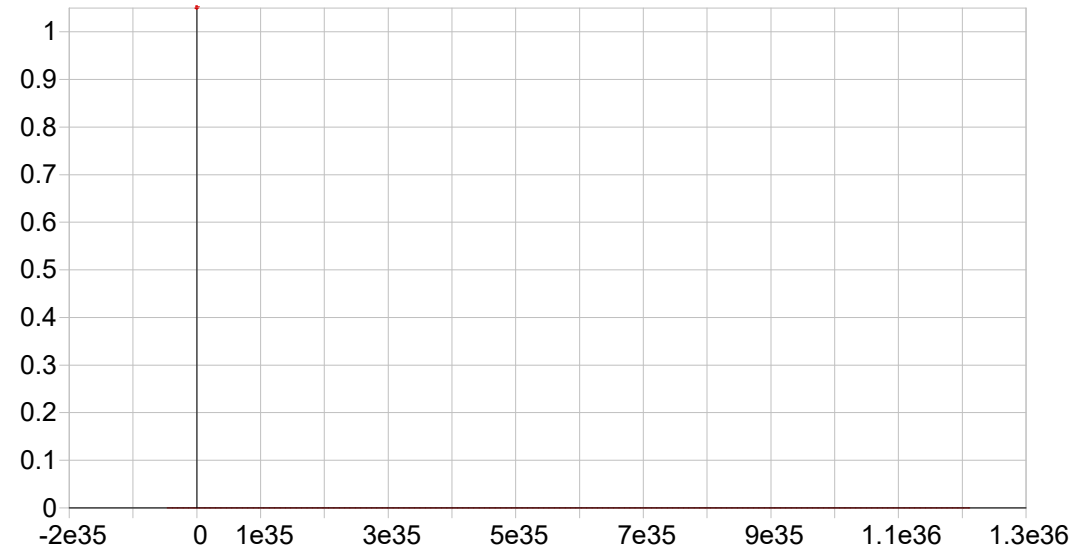

**Sr 407.771 { 83}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/05/2025 18:00:22 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.004070 | Re-Slope: | 1.000000 |
| A1 (Gain): | 10.135948 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999964 | Status: | OK. |
| Std Error of Est: | 0.004683 | | |
| Predicted MDL: | 0.000286 | | |
| Predicted MQL: | 0.000954 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00001 | -.000 | .000 | -.00416 | .003 | 1 |
| S1 | .10000 | .11007 | .010 | 10.1 | 1.1126 | .013 | 1 |
| S2 | 1.2500 | 1.2365 | -.014 | -1.08 | 12.909 | .056 | 1 |
| S3 | 2.5000 | 2.5013 | .001 | .054 | 26.110 | .159 | 1 |
| S4 | 5.0000 | 4.9712 | -.029 | -.576 | 51.904 | .158 | 1 |
| S5 | 10.000 | 10.031 | .031 | .312 | 104.71 | .363 | 1 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

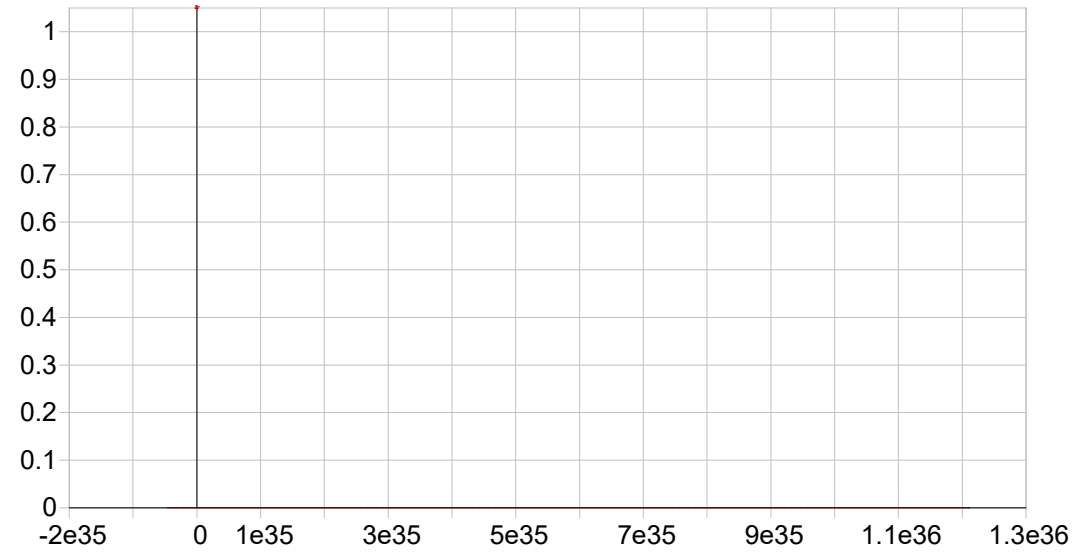



**Y 224.306 {450}***

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | <not fit> | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000000 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000000 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.000000 | Status: | Warning Zero Gain |
| Std Error of Est: | 0.000000 | | |
| Predicted MDL: | n/a | | |
| Predicted MQL: | n/a | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|




**Y 360.073 { 94}***

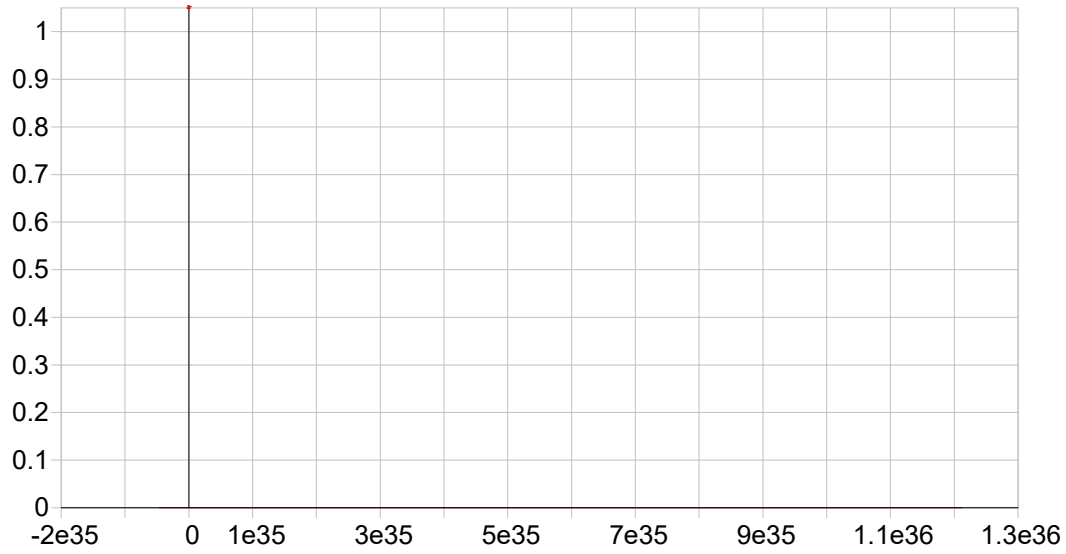
| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | <not fit> | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000000 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000000 | Y-int: | 0.000000 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

| | | | | | |
|---|---|---|---|---|---|
| A2 (Curvature): | 0.000000 | | | | |
| n (Exponent): | 1.000000 | | | | |
| Correlation: | 0.000000 | Status: | Warning | Zero Gain | |
| Std Error of Est: | 0.000000 | | | | |
| Predicted MDL: | n/a | | | | |
| Predicted MQL: | n/a | | | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|



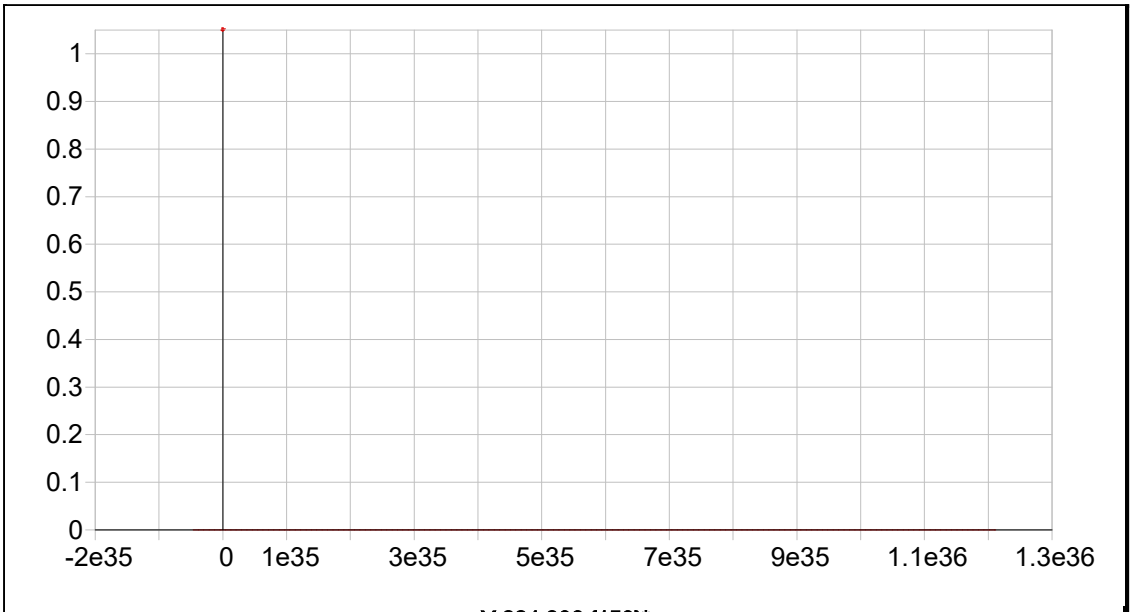

**Y 371.030 { 91}***

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | <not fit> | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000000 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.000000 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.000000 | Status: | Warning Zero Gain |
| Std Error of Est: | 0.000000 | | |
| Predicted MDL: | n/a | | |
| Predicted MQL: | n/a | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|

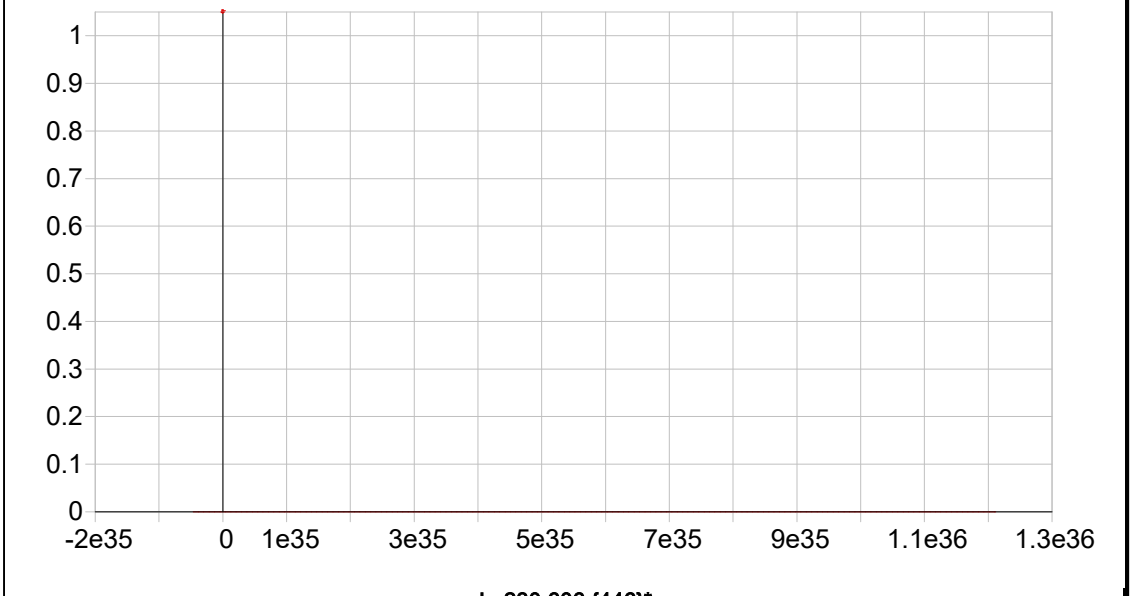
Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5




**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 |
|---|---|---|---|---|---|---|---|



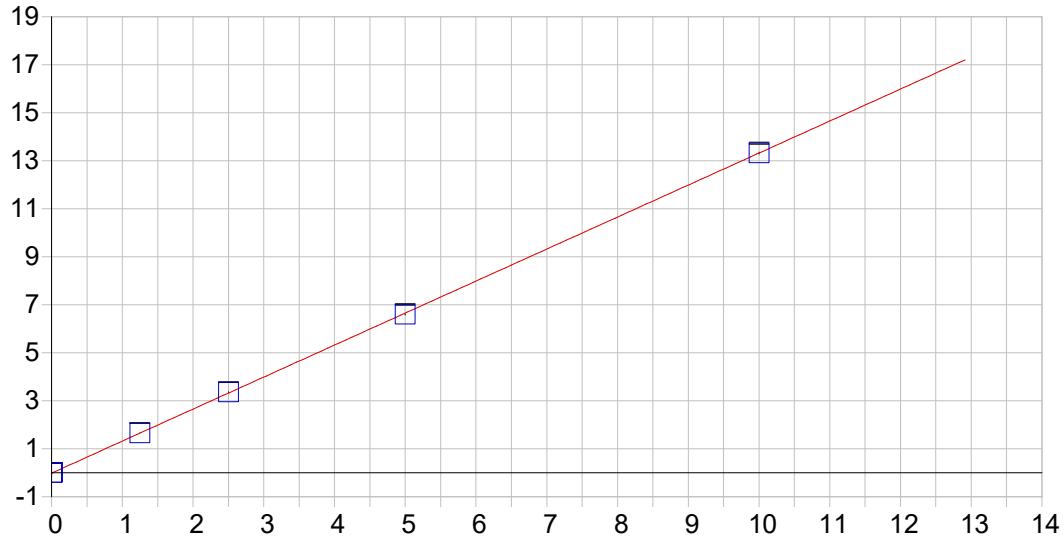

**In 230.606 {446}***

| | | | | | |
|---|---|---|---|---|---|
| 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:1/6/2025 10:45:56 AM
Inst Id :P5

| | | | | | |
|---|---|---|---|---|---|
| A2 (Curvature): | 0.000000 | | | | |
| n (Exponent): | 1.000000 | | | | |
| Correlation: | 0.000000 | Status: | Warning | Zero Gain | |
| Std Error of Est: | 0.000000 | | | | |
| Predicted MDL: | n/a | | | | |
| Predicted MQL: | n/a | | | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|




**Li 670.784 { 50}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 01/05/2025 18:00:22 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.015773 | Re-Slope: | 1.000000 |
| A1 (Gain): | 1.333630 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999932 | Status: | OK. |
| Std Error of Est: | 0.000319 | | |
| Predicted MDL: | 0.004467 | | |
| Predicted MQL: | 0.014891 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00001 | -.000 | .000 | -.01578 | .006 | 1 |
| S5 | 10.000 | 10.001 | .001 | .015 | 13.322 | .036 | 1 |
| S4 | 5.0000 | 4.9589 | -.041 | -.823 | 6.5975 | .025 | 1 |
| S3 | 2.5000 | 2.5300 | .030 | 1.20 | 3.3583 | .011 | 1 |
| S2 | 1.2500 | 1.2545 | .004 | .358 | 1.6572 | .003 | 1 |
| S1 | .01500 | .02025 | .005 | 35.0 | .01123 | .004 | 1 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: S0 Acquired: 01/05/2025 16:31:03 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S0 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | .71861 | -.00024 | -.00143 | -.00028 | -.00003 | -.00264 | .19143 | .00360 |
| Stddev | .55451 | .00005 | .00081 | .00022 | .00024 | .00444 | .00390 | .00099 |
| %RSD | 77.165 | 22.592 | 56.451 | 77.675 | 824.48 | 167.97 | 2.0351 | 27.578 |
| #1 | 1.3170 | -.00027 | -.00131 | -.00008 | .00001 | -.00385 | .19571 | .00392 |
| #2 | .61658 | -.00027 | -.00069 | -.00025 | .00019 | -.00636 | .19048 | .00440 |
| #3 | .22219 | -.00018 | -.00230 | -.00051 | -.00029 | .00228 | .18809 | .00249 |

| 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 | .00053 | .00829 | -.00006 | -.00144 | .00371 | .00002 | .00340 | -.00092 |
| Stddev | .00020 | .00232 | .00030 | .00003 | .00098 | .00108 | .00167 | .00073 |
| %RSD | 37.933 | 27.942 | 545.38 | 2.4250 | 26.331 | 5797.6 | 49.024 | 79.548 |
| #1 | .00051 | .00669 | .00011 | -.00148 | .00469 | .00114 | .00259 | -.00009 |
| #2 | .00034 | .00723 | -.00041 | -.00142 | .00273 | -.00102 | .00229 | -.00149 |
| #3 | .00074 | .01094 | .00013 | -.00141 | .00372 | -.00007 | .00531 | -.00119 |

| 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 | -.00185 | .00045 | .06951 | -.00040 | .00084 | .06335 | -.00456 | .00109 |
| Stddev | .00007 | .00055 | .02348 | .00119 | .00240 | .00264 | .00023 | .00312 |
| %RSD | 3.9467 | 120.56 | 33.773 | 294.74 | 285.95 | 4.1675 | 4.9870 | 286.41 |
| #1 | -.00187 | .00106 | .09443 | .00001 | .00227 | .06155 | -.00440 | -.00173 |
| #2 | -.00177 | .00028 | .04781 | -.00175 | .00217 | .06638 | -.00482 | .00444 |
| #3 | -.00191 | .00002 | .06629 | .00052 | -.00193 | .06211 | -.00447 | .00055 |

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | .00160 | .00040 | .01692 | .00033 | .00560 | -.00416 | -.01578 |
| Stddev | .00048 | .00005 | .00241 | .00007 | .00296 | .00264 | .00597 |
| %RSD | 30.228 | 13.599 | 14.239 | 21.037 | 52.841 | 63.487 | 37.821 |
| #1 | .00135 | .00044 | .01765 | .00038 | .00244 | -.00635 | -.02151 |
| #2 | .00216 | .00034 | .01423 | .00025 | .00831 | -.00123 | -.00960 |
| #3 | .00130 | .00041 | .01889 | .00036 | .00605 | -.00490 | -.01624 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: S0 Acquired: 01/05/2025 16:31:03 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S0 Custom ID2: Custom ID3:
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1782.7 | 17676. | 1658.1 | 1296.3 | 2000.4 |
| Stddev | 1.9 | 125. | 5.5 | 8.6 | 1.8 |
| %RSD | .10598 | .70965 | .33004 | .66069 | .09206 |
| | | | | | |
| #1 | 1782.6 | 17709. | 1664.4 | 1294.5 | 1999.4 |
| #2 | 1784.6 | 17781. | 1654.2 | 1305.7 | 2002.6 |
| #3 | 1780.8 | 17537. | 1655.7 | 1288.8 | 1999.3 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: S1 Acquired: 01/05/2025 16:35:12 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S01 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1.8364 | .00196 | .00222 | .00200 | .00925 | .02543 | .91188 | .08289 |
| Stddev | .3234 | .00009 | .00107 | .00036 | .00027 | .00334 | .00376 | .00504 |
| %RSD | 17.612 | 4.4838 | 48.379 | 17.895 | 2.9620 | 13.139 | .41233 | 6.0827 |
| #1 | 2.1714 | .00203 | .00146 | .00159 | .00948 | .02923 | .90778 | .07880 |
| #2 | 1.5259 | .00199 | .00175 | .00225 | .00895 | .02298 | .91517 | .08135 |
| #3 | 1.8120 | .00186 | .00345 | .00217 | .00934 | .02407 | .91269 | .08852 |

| 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 | .02339 | .31243 | .00390 | .06077 | .00842 | .00230 | .01064 | .07093 |
| Stddev | .00043 | .00166 | .00017 | .00022 | .00157 | .00105 | .00070 | .00050 |
| %RSD | 1.8269 | .53193 | 4.4843 | .35635 | 18.614 | 45.705 | 6.6200 | .70647 |
| #1 | .02388 | .31397 | .00406 | .06057 | .00845 | .00237 | .01143 | .07134 |
| #2 | .02325 | .31265 | .00372 | .06100 | .00997 | .00331 | .01007 | .07109 |
| #3 | .02306 | .31067 | .00392 | .06075 | .00683 | .00122 | .01042 | .07037 |

| 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 | .02619 | .00394 | 3.1333 | .00454 | .18083 | .22337 | -.00352 | -.00095 |
| Stddev | .00016 | .00045 | .0141 | .00124 | .00120 | .00446 | .00036 | .00025 |
| %RSD | .61029 | 11.434 | .45036 | 27.204 | .66531 | 1.9985 | 10.224 | 26.378 |
| #1 | .02612 | .00359 | 3.1495 | .00313 | .17944 | .21889 | -.00371 | -.00115 |
| #2 | .02608 | .00445 | 3.1236 | .00507 | .18152 | .22782 | -.00310 | -.00067 |
| #3 | .02637 | .00378 | 3.1268 | .00542 | .18152 | .22339 | -.00374 | -.00101 |

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | .00777 | .00521 | .65689 | .00372 | .05018 | 1.1126 | .01123 |
| Stddev | .00041 | .00022 | .00356 | .00025 | .00077 | .0129 | .00384 |
| %RSD | 5.2375 | 4.2648 | .54138 | 6.5877 | 1.5256 | 1.1622 | 34.236 |
| #1 | .00730 | .00527 | .65777 | .00394 | .05105 | 1.1159 | .01564 |
| #2 | .00806 | .00496 | .65298 | .00377 | .04985 | 1.1235 | .00860 |
| #3 | .00795 | .00540 | .65993 | .00345 | .04963 | 1.0983 | .00945 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: S1 Acquired: 01/05/2025 16:35:12 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S01 Custom ID2: Custom ID3:
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1764.7 | 17568. | 1631.3 | 1287.4 | 1985.7 |
| Stddev | .5 | 119. | 7.7 | 4.9 | .7 |
| %RSD | .02904 | .67985 | .46981 | .37833 | .03683 |
| | | | | | |
| #1 | 1764.8 | 17615. | 1623.6 | 1281.8 | 1985.5 |
| #2 | 1764.1 | 17432. | 1631.2 | 1290.6 | 1985.1 |
| #3 | 1765.1 | 17656. | 1638.9 | 1289.8 | 1986.5 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: S2 Acquired: 01/05/2025 16:39:19 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S02 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 166.48 | .11803 | 1.7765 | .07720 | .20053 | 4.2242 | 8.5001 | 1.8186 |
| Stddev | .21 | .00015 | .0044 | .00093 | .00066 | .0335 | .0218 | .0217 |
| %RSD | .12566 | .12427 | .24892 | 1.1991 | .33160 | .79401 | .25609 | 1.1955 |
| #1 | 166.31 | .11815 | 1.7770 | .07644 | .20106 | 4.2480 | 8.5154 | 1.8437 |
| #2 | 166.72 | .11786 | 1.7719 | .07823 | .19979 | 4.1858 | 8.4752 | 1.8055 |
| #3 | 166.42 | .11807 | 1.7807 | .07693 | .20075 | 4.2387 | 8.5096 | 1.8065 |

| 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 | 2.8005 | 3.5694 | 1.4390 | .73879 | .59092 | .98404 | 1.8379 | .80627 |
| Stddev | .0063 | .0201 | .0016 | .00096 | .00426 | .00635 | .0053 | .00646 |
| %RSD | .22398 | .56394 | .10945 | .13029 | .72008 | .64548 | .28698 | .80087 |
| #1 | 2.7990 | 3.5882 | 1.4401 | .73864 | .59289 | .99127 | 1.8424 | .80928 |
| #2 | 2.7951 | 3.5481 | 1.4372 | .73790 | .58604 | .97935 | 1.8321 | .79886 |
| #3 | 2.8074 | 3.5719 | 1.4397 | .73981 | .59383 | .98149 | 1.8391 | .81067 |

| 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 | .42698 | .10187 | 24.078 | .06986 | 10.271 | 1.1988 | .10018 | 1.4546 |
| Stddev | .00153 | .00037 | .261 | .00228 | .046 | .0071 | .00036 | .0105 |
| %RSD | .35784 | .35948 | 1.0829 | 3.2669 | .44757 | .59545 | .35956 | .72085 |
| #1 | .42732 | .10145 | 24.379 | .07163 | 10.219 | 1.1948 | .10046 | 1.4666 |
| #2 | .42530 | .10212 | 23.924 | .07067 | 10.295 | 1.1946 | .09978 | 1.4503 |
| #3 | .42830 | .10203 | 23.931 | .06729 | 10.301 | 1.2071 | .10031 | 1.4470 |

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | .74342 | .06240 | 3.2651 | .17280 | .56739 | 12.909 | 1.6572 |
| Stddev | .00094 | .00036 | .0403 | .00043 | .00632 | .056 | .0031 |
| %RSD | .12660 | .58466 | 1.2359 | .25027 | 1.1133 | .43080 | .18494 |
| #1 | .74239 | .06224 | 3.3117 | .17237 | .57440 | 12.945 | 1.6576 |
| #2 | .74364 | .06282 | 3.2428 | .17278 | .56215 | 12.845 | 1.6540 |
| #3 | .74423 | .06214 | 3.2409 | .17323 | .56561 | 12.937 | 1.6601 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: S2 Acquired: 01/05/2025 16:39:19 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S02 Custom ID2: Custom ID3:
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1698.3 | 17063. | 1615.8 | 1231.2 | 1817.1 |
| Stddev | 2.5 | 124. | 18.4 | 9.7 | 3.4 |
| %RSD | .14505 | .72701 | 1.1376 | .79029 | .18905 |
| | | | | | |
| #1 | 1700.8 | 17053. | 1595.9 | 1236.5 | 1814.1 |
| #2 | 1698.3 | 17192. | 1632.2 | 1237.2 | 1820.8 |
| #3 | 1695.9 | 16944. | 1619.3 | 1220.0 | 1816.4 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: S3 Acquired: 01/05/2025 16:43:09 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S03 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 329.72 | .24002 | 3.6232 | .15928 | .41226 | 8.5352 | 17.153 | 3.6575 |
| Stddev | .72 | .00030 | .0021 | .00150 | .00094 | .0794 | .085 | .0302 |
| %RSD | .21714 | .12430 | .05678 | .93917 | .22680 | .92968 | .49501 | .82438 |
| #1 | 329.15 | .23969 | 3.6256 | .15757 | .41209 | 8.5443 | 17.055 | 3.6354 |
| #2 | 329.48 | .24010 | 3.6218 | .15994 | .41143 | 8.4517 | 17.211 | 3.6452 |
| #3 | 330.52 | .24027 | 3.6223 | .16034 | .41327 | 8.6096 | 17.191 | 3.6918 |

| 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 | 5.7239 | 7.1915 | 2.8791 | 1.4983 | 1.1928 | 1.9716 | 3.6867 | 1.6211 |
| Stddev | .0021 | .0214 | .0046 | .0008 | .0068 | .0152 | .0273 | .0134 |
| %RSD | .03599 | .29683 | .15885 | .05604 | .57038 | .77068 | .74052 | .82783 |
| #1 | 5.7221 | 7.1800 | 2.8843 | 1.4991 | 1.1923 | 1.9667 | 3.6859 | 1.6194 |
| #2 | 5.7235 | 7.1784 | 2.8762 | 1.4984 | 1.1862 | 1.9596 | 3.6598 | 1.6086 |
| #3 | 5.7262 | 7.2161 | 2.8767 | 1.4974 | 1.1998 | 1.9887 | 3.7144 | 1.6353 |

| 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 | .88028 | .20730 | 51.711 | .14210 | 20.840 | 2.4042 | .21608 | 2.9813 |
| Stddev | .00096 | .00043 | .287 | .00120 | .189 | .0108 | .00038 | .0237 |
| %RSD | .10915 | .20976 | .55477 | .84374 | .90459 | .45087 | .17666 | .79401 |
| #1 | .87927 | .20779 | 51.433 | .14310 | 21.054 | 2.3917 | .21652 | 2.9562 |
| #2 | .88039 | .20716 | 51.695 | .14244 | 20.765 | 2.4107 | .21585 | 2.9842 |
| #3 | .88118 | .20696 | 52.006 | .14077 | 20.700 | 2.4102 | .21586 | 3.0033 |

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1.5305 | .13067 | 6.4897 | .35184 | 1.1455 | 26.110 | 3.3583 |
| Stddev | .0018 | .00048 | .0475 | .00061 | .0110 | .159 | .0106 |
| %RSD | .11434 | .36438 | .73184 | .17285 | .96275 | .61066 | .31493 |
| #1 | 1.5310 | .13020 | 6.4480 | .35218 | 1.1466 | 26.084 | 3.3465 |
| #2 | 1.5319 | .13115 | 6.4797 | .35114 | 1.1339 | 25.965 | 3.3616 |
| #3 | 1.5285 | .13066 | 6.5414 | .35221 | 1.1558 | 26.280 | 3.3668 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: S3 Acquired: 01/05/2025 16:43:09 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S03 Custom ID2: Custom ID3:
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1628.7 | 16732. | 1592.5 | 1188.5 | 1730.1 |
| Stddev | 2.1 | 75. | 7.6 | 13.8 | 4.0 |
| %RSD | .12792 | .44604 | .47987 | 1.1606 | .23217 |
| | | | | | |
| #1 | 1627.8 | 16654. | 1597.1 | 1172.9 | 1729.3 |
| #2 | 1631.0 | 16738. | 1596.7 | 1193.9 | 1734.4 |
| #3 | 1627.1 | 16803. | 1583.7 | 1198.9 | 1726.5 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: S4 Acquired: 01/05/2025 16:46:56 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S04 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 637.83 | .47364 | 7.2949 | .32057 | .84209 | 17.014 | 33.893 | 7.0519 |
| Stddev | 2.66 | .00097 | .0107 | .00041 | .00043 | .071 | .137 | .0294 |
| %RSD | .41646 | .20459 | .14698 | .12637 | .05156 | .41785 | .40298 | .41669 |
| #1 | 636.58 | .47318 | 7.2827 | .32098 | .84159 | 17.073 | 33.947 | 7.0815 |
| #2 | 636.04 | .47475 | 7.3028 | .32055 | .84226 | 16.935 | 33.995 | 7.0514 |
| #3 | 640.88 | .47298 | 7.2993 | .32017 | .84241 | 17.035 | 33.738 | 7.0227 |

| Elem | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 | Mn2576 | Mg2790 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 11.386 | 14.095 | 5.6639 | 2.9594 | 2.3553 | 3.8909 | 7.2485 | 3.2019 |
| Stddev | .018 | .057 | .0169 | .0070 | .0021 | .0098 | .0248 | .0108 |
| %RSD | .15861 | .40603 | .29874 | .23683 | .08728 | .25139 | .34253 | .33672 |
| #1 | 11.367 | 14.136 | 5.6822 | 2.9528 | 2.3551 | 3.9000 | 7.2769 | 3.2108 |
| #2 | 11.403 | 14.119 | 5.6489 | 2.9667 | 2.3575 | 3.8806 | 7.2376 | 3.1899 |
| #3 | 11.388 | 14.029 | 5.6606 | 2.9587 | 2.3534 | 3.8922 | 7.2309 | 3.2051 |

| 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 | 1.7556 | .41439 | 108.02 | .28064 | 42.205 | 4.7712 | .44364 | 5.8475 |
| Stddev | .0027 | .00112 | .48 | .00109 | .172 | .0269 | .00155 | .0046 |
| %RSD | .15251 | .26954 | .44378 | .38776 | .40746 | .56391 | .34869 | .07881 |
| #1 | 1.7542 | .41538 | 108.57 | .28145 | 42.029 | 4.8019 | .44227 | 5.8522 |
| #2 | 1.7587 | .41318 | 107.71 | .27940 | 42.373 | 4.7601 | .44531 | 5.8430 |
| #3 | 1.7539 | .41461 | 107.78 | .28106 | 42.212 | 4.7516 | .44332 | 5.8472 |

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3.1112 | .26708 | 12.551 | .70700 | 2.2827 | 51.904 | 6.5975 |
| Stddev | .0018 | .00068 | .043 | .00179 | .0062 | .158 | .0250 |
| %RSD | .05700 | .25643 | .34301 | .25354 | .27159 | .30492 | .37938 |
| #1 | 3.1096 | .26656 | 12.597 | .70537 | 2.2898 | 52.064 | 6.6008 |
| #2 | 3.1131 | .26682 | 12.545 | .70892 | 2.2781 | 51.747 | 6.6207 |
| #3 | 3.1109 | .26785 | 12.512 | .70672 | 2.2803 | 51.901 | 6.5710 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: S4 Acquired: 01/05/2025 16:46:56 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S04 Custom ID2: Custom ID3:
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1532.1 | 16122. | 1572.6 | 1109.7 | 1643.3 |
| Stddev | 5.2 | 125. | 13.8 | 4.6 | 6.2 |
| %RSD | .33660 | .77304 | .88008 | .41026 | .37816 |
| | | | | | |
| #1 | 1527.2 | 15978. | 1556.7 | 1105.2 | 1640.0 |
| #2 | 1531.8 | 16201. | 1580.0 | 1109.4 | 1639.5 |
| #3 | 1537.5 | 16186. | 1581.2 | 1114.3 | 1650.5 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: S5 Acquired: 01/05/2025 16:50:42 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S05 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1234.0 | .93750 | 14.817 | .67490 | 1.8233 | 34.699 | 68.934 | 14.065 |
| Stddev | 4.3 | .00239 | .031 | .00174 | .0031 | .104 | .229 | .078 |
| %RSD | .35089 | .25509 | .20989 | .25772 | .17114 | .29855 | .33242 | .55412 |
| | | | | | | | | |
| #1 | 1231.5 | .93528 | 14.788 | .67448 | 1.8265 | 34.689 | 68.831 | 13.996 |
| #2 | 1231.5 | .93718 | 14.812 | .67341 | 1.8203 | 34.807 | 69.197 | 14.149 |
| #3 | 1239.0 | .94003 | 14.850 | .67681 | 1.8230 | 34.601 | 68.775 | 14.051 |

| Elem | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 | Mn2576 | Mg2790 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 22.886 | 28.115 | 11.206 | 5.9696 | 4.7481 | 7.7361 | 14.360 | 6.4026 |
| Stddev | .049 | .075 | .015 | .0137 | .0089 | .0131 | .041 | .0199 |
| %RSD | .21379 | .26673 | .13508 | .23020 | .18804 | .16952 | .28485 | .31104 |
| | | | | | | | | |
| #1 | 22.835 | 28.072 | 11.210 | 5.9559 | 4.7441 | 7.7272 | 14.340 | 6.4033 |
| #2 | 22.889 | 28.202 | 11.190 | 5.9696 | 4.7584 | 7.7512 | 14.407 | 6.4222 |
| #3 | 22.933 | 28.072 | 11.220 | 5.9834 | 4.7419 | 7.7300 | 14.332 | 6.3824 |

| Elem | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3.5505 | .84378 | 227.45 | .56057 | 88.968 | 9.8162 | .92139 | 11.526 |
| Stddev | .0076 | .00145 | 1.53 | .00387 | .651 | .0379 | .00273 | .059 |
| %RSD | .21328 | .17229 | .67192 | .69083 | .73145 | .38600 | .29604 | .51568 |
| | | | | | | | | |
| #1 | 3.5452 | .84235 | 227.69 | .56140 | 89.707 | 9.7943 | .92005 | 11.503 |
| #2 | 3.5472 | .84373 | 225.81 | .56396 | 88.479 | 9.8600 | .91960 | 11.594 |
| #3 | 3.5592 | .84525 | 228.84 | .55635 | 88.719 | 9.7943 | .92453 | 11.482 |

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6.7142 | .55546 | 24.823 | 1.4394 | 4.5789 | 104.71 | 13.322 |
| Stddev | .0038 | .00120 | .110 | .0048 | .0162 | .36 | .036 |
| %RSD | .05636 | .21581 | .44288 | .33153 | .35319 | .34689 | .27027 |
| | | | | | | | |
| #1 | 6.7181 | .55410 | 24.761 | 1.4344 | 4.5735 | 104.68 | 13.301 |
| #2 | 6.7105 | .55588 | 24.950 | 1.4398 | 4.5970 | 105.09 | 13.364 |
| #3 | 6.7139 | .55639 | 24.759 | 1.4439 | 4.5660 | 104.36 | 13.302 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: S5 Acquired: 01/05/2025 16:50:42 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S05 Custom ID2: Custom ID3:
Comment:

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1365.2 | 15667. | 1541.8 | 987.29 | 1538.7 |
| Stddev | 6.3 | 78. | 4.0 | 10.97 | 4.5 |
| %RSD | .45905 | .49540 | .26093 | 1.1106 | .29437 |
| | | | | | |
| #1 | 1359.5 | 15596. | 1538.6 | 974.78 | 1535.4 |
| #2 | 1364.2 | 15750. | 1540.6 | 995.23 | 1536.8 |
| #3 | 1371.9 | 15655. | 1546.3 | 991.86 | 1543.9 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: S6 Acquired: 01/05/2025 16:54:37 Type: Cal
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: IR Corr. Factor: 1.000000
User: Kareem Custom ID1: S06 Custom ID2: Custom ID3:
Comment:

| Elem | Al3961 | Ca3736 | Fe2598 | Mg2790 | Na8183 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 91.207 | 44.962 | 20.304 | 10.214 | 625.44 |
| Stddev | .538 | .221 | .097 | .053 | 3.20 |
| %RSD | .59028 | .49168 | .47866 | .51742 | .51120 |
| | | | | | |
| #1 | 90.706 | 44.864 | 20.222 | 10.158 | 627.67 |
| #2 | 91.776 | 45.215 | 20.412 | 10.263 | 621.78 |
| #3 | 91.140 | 44.807 | 20.279 | 10.221 | 626.88 |

| Int. Std. | Y_3710 |
|---|---|
| Units | Cts/S |
| Avg | 1497.5 |
| Stddev | 8.3 |
| %RSD | .55098 |
| | |
| #1 | 1503.0 |
| #2 | 1488.0 |
| #3 | 1501.5 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: ICV052 Acquired: 01/05/2025 17:52:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV052 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.070946 | 1.007561 | .9865150 | .9705225 | .9141464 | 2.431814 |
| Stddev | .003311 | .008441 | .0001173 | .0123505 | .0064915 | .024274 |
| %RSD | .3092110 | .8377585 | .0118854 | 1.272561 | .7101177 | .9981871 |
| #1 | 1.067171 | 1.000772 | .9864043 | .9593759 | .9081765 | 2.416212 |
| #2 | 1.072308 | 1.017012 | .9866379 | .9683918 | .9210569 | 2.419449 |
| #3 | 1.073360 | 1.004898 | .9865029 | .9837997 | .9132058 | 2.459780 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5121930 | .5260172 | .5002851 | 10.23665 | .5498941 | .5060056 |
| Stddev | .0043946 | .0032856 | .0000662 | .05443 | .0008268 | .0010060 |
| %RSD | .8580042 | .6246222 | .0132420 | .5316752 | .1503618 | .1988130 |
| #1 | .5081969 | .5292277 | .5002440 | 10.23293 | .5508310 | .5049455 |
| #2 | .5114825 | .5226613 | .5002498 | 10.18419 | .5495849 | .5069470 |
| #3 | .5168996 | .5261626 | .5003615 | 10.29285 | .5492665 | .5061244 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4864227 | 10.40808 | .5278705 | 6.149313 | .5152563 | .2479003 |
| Stddev | .0117038 | .11248 | .0038174 | .074198 | .0009489 | .0029577 |
| %RSD | 2.406094 | 1.080678 | .7231661 | 1.206600 | .1841531 | 1.193094 |
| #1 | .4912547 | 10.49186 | .5260877 | 6.064489 | .5163418 | .2446700 |
| #2 | .4730765 | 10.28024 | .5252707 | 6.202159 | .5148424 | .2504756 |
| #3 | .4949367 | 10.45214 | .5322531 | 6.181292 | .5145846 | .2485552 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 10.39340 | .5084120 | .9455580 | 9.281784 | F .0000955 | F -.024832 |
| Stddev | .05644 | .0199257 | .0010821 | .210543 | .0015084 | .000911 |
| %RSD | .5430806 | 3.919209 | .1144446 | 2.268347 | 1579.043 | 3.668179 |
| #1 | 10.44400 | .5192918 | .9443611 | 9.170448 | .0016415 | -.025005 |
| #2 | 10.33252 | .4854149 | .9458458 | 9.150285 | -.001372 | -.025645 |
| #3 | 10.40368 | .5205294 | .9464672 | 9.524620 | .000017 | -.023848 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: ICV052 Acquired: 01/05/2025 17:52:32 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICV052 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F .0005396 | F .0061537 | F .0004550 | F -.000525 | F -.004611 | F -.009057 |
| Stddev | .0004533 | .0014465 | .0005209 | .000990 | .001848 | .000399 |
| %RSD | 84.00606 | 23.50654 | 114.4592 | 188.4194 | 40.08348 | 4.410720 |
| #1 | .0006965 | .0052429 | .0006683 | -.000336 | -.003037 | -.009509 |
| #2 | .0000287 | .0053965 | .0008354 | .000356 | -.006646 | -.008751 |
| #3 | .0008936 | .0078216 | -.000139 | -.001597 | -.004151 | -.008911 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | F .0085874 |
| Stddev | .0020996 |
| %RSD | 24.45000 |
| #1 | .0109958 |
| #2 | .0071418 |
| #3 | .0076246 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1772.213 | 17726.47 | 1661.076 | 1301.264 | 1960.586 |
| Stddev | 4.304 | 46.59 | 11.755 | 4.505 | 2.552 |
| %RSD | .2428823 | .2628466 | .7076589 | .3462133 | .1301575 |
| #1 | 1776.984 | 17723.15 | 1655.654 | 1303.425 | 1963.327 |
| #2 | 1771.035 | 17774.63 | 1674.563 | 1304.282 | 1958.279 |
| #3 | 1768.621 | 17681.62 | 1653.010 | 1296.085 | 1960.154 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: ICB052 Acquired: 01/05/2025 17:56:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB052 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.001753 | -.000465 | -.000421 | .0068852 | -.000007 | -.029009 | -.004062 |
| Stddev | .004185 | .003784 | .002502 | .0029601 | .002093 | .041335 | .002548 |
| %RSD | 238.6892 | 813.5228 | 593.7094 | 42.99134 | 30289.75 | 142.4876 | 62.72856 |
| #1 | -.006277 | .002561 | .000087 | .0089763 | -.002240 | -.027877 | -.001227 |
| #2 | -.000963 | .000752 | .001787 | .0081812 | .000311 | -.070899 | -.006162 |
| #3 | .001980 | -.004708 | -.003138 | .0034982 | .001909 | .011747 | -.004797 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0001710 | .0000497 | .0588119 | -.001178 | .0002298 | -.015339 | .0452712 |
| Stddev | .0001444 | .0001050 | .0125708 | .000435 | .0001488 | .008657 | .0746119 |
| %RSD | 84.43136 | 211.2264 | 21.37462 | 36.91284 | 64.75242 | 56.43840 | 164.8109 |
| #1 | .0001433 | .0000599 | .0550431 | -.001626 | .0000861 | -.007150 | .1314211 |
| #2 | .0003273 | -.000060 | .0485566 | -.001152 | .0003833 | -.024398 | .0014395 |
| #3 | .0000425 | .000149 | .0728360 | -.000757 | .0002201 | -.014469 | .0029529 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0015288 | .0772527 | -.000450 | .0017135 | .0151006 | -.011234 | .0005803 |
| Stddev | .0027921 | .0718007 | .001080 | .0014854 | .0102014 | .003643 | .0009389 |
| %RSD | 182.6326 | 92.94258 | 239.9697 | 86.68738 | 67.55627 | 32.42771 | 161.7846 |
| #1 | .0009536 | .1297734 | .000681 | .0028555 | .0062292 | -.008693 | .0014148 |
| #2 | -.000931 | .1065489 | -.001471 | .0022509 | .0128249 | -.009601 | -.000436 |
| #3 | .004564 | -.004564 | -.000561 | .0000342 | .0262476 | -.015407 | .000762 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0718891 | -.000004 | .0010680 | -.000516 | -.002261 | -.000195 | -.001684 |
| Stddev | .0295797 | .003665 | .0021120 | .000093 | .001923 | .001610 | .001887 |
| %RSD | 41.14632 | 102079.3 | 197.7649 | 18.08885 | 85.05980 | 826.2090 | 112.0501 |
| #1 | .1012226 | -.003002 | .0027355 | -.000408 | -.000146 | .001623 | .000377 |
| #2 | .0723757 | .004082 | .0017754 | -.000563 | -.003904 | -.001442 | -.003326 |
| #3 | .0420691 | -.001091 | -.001307 | -.000576 | -.002732 | -.000766 | -.002102 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: ICB052 Acquired: 01/05/2025 17:56:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICB052 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.004837 | -.000233 | .0053779 |
| Stddev | .002211 | .000145 | .0064749 |
| %RSD | 45.71481 | 62.10375 | 120.3977 |
| | | | |
| #1 | -.002297 | -.000241 | .0011249 |
| #2 | -.005888 | -.000085 | .0021793 |
| #3 | -.006328 | -.000375 | .0128297 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1782.192 | 17797.95 | 1649.520 | 1302.669 | 1996.559 |
| Stddev | 2.695 | 81.37 | 17.051 | 5.340 | 4.125 |
| %RSD | .1512226 | .4571823 | 1.033715 | .4099598 | .2066161 |
| | | | | | |
| #1 | 1784.392 | 17876.15 | 1637.267 | 1308.540 | 1997.801 |
| #2 | 1779.186 | 17713.74 | 1642.299 | 1298.100 | 1991.956 |
| #3 | 1782.999 | 17803.96 | 1668.993 | 1301.366 | 1999.921 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: ICSA052 Acquired: 01/05/2025 18:00:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA052 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.001838 | .0104546 | .0039280 | .0174211 | .0198505 | 241.9091 |
| Stddev | .002372 | .0043426 | .0070824 | .0044395 | .0055605 | 1.2244 |
| %RSD | 129.0945 | 41.53800 | 180.3068 | 25.48340 | 28.01195 | .5061590 |
| #1 | -.003912 | .0076742 | .0121005 | .0220017 | .0176107 | 243.3226 |
| #2 | -.002349 | .0082308 | .0001028 | .0131376 | .0261816 | 241.2297 |
| #3 | .000749 | .0154587 | -.000419 | .0171239 | .0157592 | 241.1750 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0015745 | .0015331 | .0007291 | 251.0699 | .0516551 | .0366801 |
| Stddev | .0020674 | .0001187 | .0000780 | 1.1157 | .0006495 | .0004333 |
| %RSD | 131.3020 | 7.744635 | 10.70396 | .4443918 | 1.257356 | 1.181380 |
| #1 | .0016303 | .0016554 | .0006429 | 252.2795 | .0517249 | .0364028 |
| #2 | -.000520 | .0014183 | .0007949 | 250.8493 | .0522669 | .0371794 |
| #3 | .003613 | .0015256 | .0007494 | 250.0810 | .0509735 | .0364580 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.009240 | 100.8206 | .0021529 | 260.8108 | .0004605 | -.006957 |
| Stddev | .012002 | .3009 | .0012320 | .9223 | .0008538 | .000241 |
| %RSD | 129.8927 | .2984538 | 57.22556 | .3536205 | 185.4247 | 3.470852 |
| #1 | .004438 | 101.1614 | .0007977 | 261.6744 | .0013283 | -.007216 |
| #2 | -.014147 | 100.7086 | .0032053 | 260.9186 | .0004315 | -.006738 |
| #3 | -.018011 | 100.5917 | .0024558 | 259.8393 | -.000379 | -.006919 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1831499 | .0038318 | -.033244 | -.109336 | .0019774 | F -.242978 |
| Stddev | .0150872 | .0010298 | .000244 | .246600 | .0036011 | .003330 |
| %RSD | 8.237600 | 26.87427 | .7340022 | 225.5434 | 182.1122 | 1.370628 |
| #1 | .1679848 | .0039563 | -.033220 | .153340 | .0017049 | -.246190 |
| #2 | .1833070 | .0047937 | -.033499 | -.145476 | -.001480 | -.243203 |
| #3 | .1981579 | .0027455 | -.033013 | -.335872 | .005707 | -.239540 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: ICSA052 Acquired: 01/05/2025 18:00:28 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSA052 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0073268 | .0108564 | -.002361 | F .0140969 | -.009137 | .0065239 |
| Stddev | .0006611 | .0055986 | .001324 | .0022779 | .002963 | .0005515 |
| %RSD | 9.023101 | 51.56961 | 56.06009 | 16.15871 | 32.43161 | 8.453665 |
| | | | | | | |
| #1 | .0075754 | .0169223 | -.002955 | .0116560 | -.010921 | .0064779 |
| #2 | .0078276 | .0097594 | -.003284 | .0161660 | -.010773 | .0059968 |
| #3 | .0065774 | .0058875 | -.000845 | .0144687 | -.005716 | .0070969 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0103355 |
| Stddev | .0015157 |
| %RSD | 14.66488 |
| | |
| #1 | .0091396 |
| #2 | .0120401 |
| #3 | .0098267 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1651.262 | 16459.76 | 1568.455 | 1212.534 | 1719.526 |
| Stddev | 2.907 | 91.55 | 12.436 | 5.006 | 4.741 |
| %RSD | .1760563 | .5561837 | .7928885 | .4128147 | .2756933 |
| | | | | | |
| #1 | 1651.180 | 16564.78 | 1554.260 | 1218.183 | 1721.031 |
| #2 | 1654.209 | 16417.62 | 1573.675 | 1210.771 | 1723.332 |
| #3 | 1648.397 | 16396.86 | 1577.430 | 1208.649 | 1714.216 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: ICSAB052 Acquired: 01/05/2025 18:04:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB052 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1019978 | .1077039 | .0478787 | .0635296 | .5686682 | 240.4877 |
| Stddev | .0082512 | .0042491 | .0020008 | .0044694 | .0027387 | 1.5659 |
| %RSD | 8.089591 | 3.945206 | 4.178917 | 7.035163 | .4815934 | .6511260 |
| | | | | | | |
| #1 | .1075747 | .1068162 | .0464758 | .0585331 | .5707484 | 242.1375 |
| #2 | .1058994 | .1123268 | .0501699 | .0671468 | .5696910 | 239.0221 |
| #3 | .0925194 | .1039688 | .0469904 | .0649090 | .5655654 | 240.3034 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5194744 | .5245903 | .9911821 | 248.7335 | .5804513 | .5136157 |
| Stddev | .0019996 | .0020424 | .0005754 | .4991 | .0017461 | .0011656 |
| %RSD | .3849224 | .3893324 | .0580524 | .2006479 | .3008264 | .2269475 |
| | | | | | | |
| #1 | .5171672 | .5268686 | .9917336 | 248.6557 | .5824144 | .5140624 |
| #2 | .5207035 | .5229236 | .9905854 | 248.2778 | .5790713 | .5122927 |
| #3 | .5205526 | .5239785 | .9912273 | 249.2669 | .5798682 | .5144919 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4569959 | 100.2442 | .5062977 | 259.2773 | .9757948 | .2007063 |
| Stddev | .0070270 | .4553 | .0064494 | 1.7263 | .0003750 | .0028040 |
| %RSD | 1.537652 | .4541833 | 1.273834 | .6658212 | .0384279 | 1.397063 |
| | | | | | | |
| #1 | .4647204 | 100.5397 | .5122883 | 260.8227 | .9762277 | .2002835 |
| #2 | .4509823 | 99.7199 | .4994711 | 257.4142 | .9755696 | .1981378 |
| #3 | .4552851 | 100.4730 | .5071336 | 259.5950 | .9755871 | .2036978 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1972840 | .4966401 | .9112735 | -.308307 | .0029374 | F -.233950 |
| Stddev | .0163315 | .0090101 | .0086609 | .103083 | .0013223 | .003096 |
| %RSD | 8.278148 | 1.814214 | .9504217 | 33.43513 | 45.01701 | 1.323242 |
| | | | | | | |
| #1 | .2161417 | .4989392 | .9051257 | -.418277 | .0014173 | -.231131 |
| #2 | .1877637 | .4867032 | .9075163 | -.213876 | .0035728 | -.237263 |
| #3 | .1879468 | .5042780 | .9211786 | -.292768 | .0038221 | -.233457 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: ICSAB052 Acquired: 01/05/2025 18:04:27 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: ICSAB052 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0070452 | .0208475 | -.001492 | F .0127163 | -.006551 | .0068739 |
| Stddev | .0002794 | .0094232 | .001354 | .0014481 | .003043 | .0002790 |
| %RSD | 3.965393 | 45.20081 | 90.77277 | 11.38763 | 46.45428 | 4.059141 |
| | | | | | | |
| #1 | .0073426 | .0231093 | -.002840 | .0135576 | -.009267 | .0070574 |
| #2 | .0067883 | .0289340 | -.000131 | .0110442 | -.003262 | .0065528 |
| #3 | .0070048 | .0104992 | -.001506 | .0135471 | -.007125 | .0070116 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .0077536 |
| Stddev | .0023718 |
| %RSD | 30.58951 |
| | |
| #1 | .0050364 |
| #2 | .0094087 |
| #3 | .0088158 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1660.614 | 16562.08 | 1586.585 | 1218.532 | 1728.749 |
| Stddev | 5.390 | 54.04 | 7.343 | 10.602 | 3.190 |
| %RSD | .3245726 | .3262686 | .4628085 | .8700335 | .1845283 |
| | | | | | |
| #1 | 1663.378 | 16515.57 | 1578.741 | 1220.376 | 1730.203 |
| #2 | 1654.403 | 16621.36 | 1593.295 | 1228.091 | 1725.092 |
| #3 | 1664.062 | 16549.32 | 1587.720 | 1207.129 | 1730.954 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCV112 Acquired: 01/05/2025 18:08:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV112 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.098118 | 4.963984 | 25.48627 | 5.063594 | 5.047541 | 415.5861 | 10.47188 |
| Stddev | .017452 | .020985 | .07053 | .008856 | .016981 | 2.2671 | .05459 |
| %RSD | .3423285 | .4227353 | .2767390 | .1749010 | .3364222 | .5455227 | .5212552 |
| | | | | | | | |
| #1 | 5.102355 | 4.962230 | 25.48104 | 5.069124 | 5.049833 | 416.5790 | 10.49622 |
| #2 | 5.078937 | 4.943931 | 25.41849 | 5.053379 | 5.029531 | 412.9920 | 10.40936 |
| #3 | 5.113061 | 4.985790 | 25.55926 | 5.068278 | 5.063260 | 417.1875 | 10.51007 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5230476 | 2.563179 | 420.7203 | 16.09447 | 2.575646 | 15.73459 | 420.6550 |
| Stddev | .0058521 | .008305 | 2.2261 | .00343 | .009045 | .09430 | 2.0680 |
| %RSD | 1.118840 | .3240101 | .5291123 | .0212818 | .3511619 | .5992981 | .4916138 |
| | | | | | | | |
| #1 | .5293156 | 2.560775 | 421.6941 | 16.09706 | 2.573166 | 15.72758 | 422.0674 |
| #2 | .5177271 | 2.556342 | 418.1732 | 16.09577 | 2.568100 | 15.64399 | 418.2814 |
| #3 | .5221003 | 2.572421 | 422.2935 | 16.09059 | 2.585672 | 15.83219 | 421.6164 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 15.58254 | 418.1756 | 2.582738 | 1.301137 | 427.4420 | 2.592358 | 15.34937 |
| Stddev | .08578 | 2.2749 | .008048 | .002046 | 5.5572 | .021779 | .12320 |
| %RSD | .5505171 | .5440069 | .3116163 | .1572274 | 1.300110 | .8401405 | .8026392 |
| | | | | | | | |
| #1 | 15.64241 | 418.5085 | 2.579067 | 1.301478 | 433.6871 | 2.611753 | 15.39191 |
| #2 | 15.48426 | 415.7526 | 2.577179 | 1.298942 | 423.0422 | 2.568796 | 15.44566 |
| #3 | 15.62095 | 420.2657 | 2.591967 | 1.302991 | 425.5967 | 2.596526 | 15.21054 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 160.5829 | 5.114659 | 4.552591 | 5.003975 | 5.137845 | 5.169159 | 5.169405 |
| Stddev | 1.3073 | .013263 | .043356 | .018824 | .018730 | .063878 | .020148 |
| %RSD | .8140688 | .2593122 | .9523339 | .3761791 | .3645562 | 1.235750 | .3897522 |
| | | | | | | | |
| #1 | 161.8548 | 5.103746 | 4.602444 | 5.003229 | 5.119558 | 5.234864 | 5.162705 |
| #2 | 159.2430 | 5.110811 | 4.523698 | 4.985536 | 5.136988 | 5.107280 | 5.153460 |
| #3 | 160.6508 | 5.129421 | 4.531630 | 5.023161 | 5.156990 | 5.165333 | 5.192049 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCV112 Acquired: 01/05/2025 18:08:18 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV112 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 5.214753 | 4.957212 | 5.265912 |
| Stddev | .023837 | .023647 | .038041 |
| %RSD | .4571049 | .4770316 | .7224100 |
| | | | |
| #1 | 5.230875 | 4.968536 | 5.276182 |
| #2 | 5.187373 | 4.930032 | 5.223790 |
| #3 | 5.226013 | 4.973067 | 5.297764 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1473.185 | 15544.19 | 1533.501 | 1062.057 | 1579.445 |
| Stddev | .958 | 39.26 | 18.837 | 9.680 | 1.623 |
| %RSD | .0650587 | .2525566 | 1.228344 | .9114689 | .1027427 |
| | | | | | |
| #1 | 1472.567 | 15516.70 | 1511.984 | 1059.092 | 1579.357 |
| #2 | 1472.698 | 15526.72 | 1547.012 | 1054.206 | 1577.868 |
| #3 | 1474.289 | 15589.15 | 1541.507 | 1072.873 | 1581.110 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCB112 Acquired: 01/05/2025 18:12:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB112 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.001044 | -.000878 | .0050735 | .0076588 | -.001205 | -.007936 | -.004634 |
| Stddev | .002219 | .002895 | .0012816 | .0028758 | .004579 | .015973 | .003133 |
| %RSD | 212.4898 | 329.6464 | 25.26048 | 37.54890 | 379.9292 | 201.2799 | 67.61434 |
| #1 | .001052 | .000679 | .0064040 | .0109761 | -.006491 | -.020935 | -.007507 |
| #2 | -.000816 | .000905 | .0049695 | .0058706 | .001529 | -.012767 | -.005102 |
| #3 | -.003369 | -.004219 | .0038471 | .0061297 | .001347 | .009895 | -.001293 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0000922 | .0000021 | .0459628 | .0005130 | .0000271 | -.002803 | .0137446 |
| Stddev | .0000380 | .0000356 | .0262018 | .0006644 | .0004923 | .003000 | .0290733 |
| %RSD | 41.23087 | 1682.816 | 57.00650 | 129.5265 | 1816.876 | 107.0224 | 211.5259 |
| #1 | .0001360 | .0000422 | .0261891 | .0012334 | -.000189 | -.001878 | .0136171 |
| #2 | .0000675 | -.000026 | .0360182 | -.000076 | .000591 | -.006156 | -.015265 |
| #3 | .0000731 | -.000010 | .0756810 | .000381 | -.000320 | -.000374 | .042881 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000536 | -.041320 | .0002083 | -.001218 | .1343192 | -.007344 | .0034507 |
| Stddev | .000700 | .086603 | .0002679 | .000224 | .0182117 | .021479 | .0007220 |
| %RSD | 130.7672 | 209.5938 | 128.6004 | 18.35296 | 13.55850 | 292.4662 | 20.92396 |
| #1 | -.000462 | .022638 | .0004238 | -.001064 | .1174536 | -.024794 | .0034039 |
| #2 | -.001270 | -.006724 | .0002926 | -.001116 | .1318743 | -.013884 | .0041950 |
| #3 | .000125 | -.139873 | -.000092 | -.001475 | .1536299 | .016645 | .0027532 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1945411 | -.000012 | .0135540 | .0001755 | .0010787 | .0004784 | .0007822 |
| Stddev | .3541825 | .001016 | .0025361 | .0005107 | .0029740 | .0006795 | .0002764 |
| %RSD | 182.0605 | 8227.796 | 18.71128 | 290.9364 | 275.6992 | 142.0296 | 35.33713 |
| #1 | -.158384 | .000023 | .0121249 | -.000324 | .0039822 | .0002785 | .0010355 |
| #2 | .192039 | -.001046 | .0164821 | .000697 | -.001961 | .0012354 | .0008238 |
| #3 | .549968 | .000986 | .0120549 | .000153 | .001215 | -.000079 | .0004874 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCB112 Acquired: 01/05/2025 18:12:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB112 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.009220 | .0001218 | .0103126 |
| Stddev | .001670 | .0000671 | .0052815 |
| %RSD | 18.11645 | 55.07710 | 51.21440 |
| | | | |
| #1 | -.011119 | .0000554 | .0160630 |
| #2 | -.008566 | .0001205 | .0091965 |
| #3 | -.007976 | .0001895 | .0056783 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1784.481 | 17747.90 | 1651.072 | 1296.956 | 1998.291 |
| Stddev | 5.209 | 56.60 | 7.504 | 3.513 | 3.748 |
| %RSD | .2918885 | .3189100 | .4544963 | .2708878 | .1875845 |
| | | | | | |
| #1 | 1788.172 | 17798.16 | 1658.942 | 1300.653 | 2001.550 |
| #2 | 1786.748 | 17758.95 | 1643.997 | 1296.554 | 1999.127 |
| #3 | 1778.523 | 17686.59 | 1650.278 | 1293.662 | 1994.194 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5058-03 Acquired: 01/05/2025 18:16:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0527344 | .0080485 | .1944734 | .0246822 | .0264418 | 40.28582 | .3368792 |
| Stddev | .0016722 | .0026947 | .0035458 | .0092571 | .0016641 | .15279 | .0040076 |
| %RSD | 3.170972 | 33.48041 | 1.823269 | 37.50512 | 6.293471 | .3792598 | 1.189629 |
| #1 | .0520477 | .0052980 | .1974900 | .0344756 | .0245423 | 40.12748 | .3352090 |
| #2 | .0546406 | .0081639 | .1905677 | .0234951 | .0276429 | 40.29761 | .3339769 |
| #3 | .0515149 | .0106837 | .1953627 | .0160759 | .0271401 | 40.43238 | .3414519 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0039657 | .0027479 | 739.5096 | .0587360 | .1097672 | .2527829 | 124.6038 |
| Stddev | .0001463 | .0000643 | 4.4929 | .0006486 | .0002568 | .0140828 | .3683 |
| %RSD | 3.688960 | 2.340278 | .6075466 | 1.104340 | .2339665 | 5.571116 | .2955598 |
| #1 | .0038962 | .0027000 | 734.4789 | .0594427 | .1099961 | .2448804 | 124.2303 |
| #2 | .0041338 | .0027226 | 740.9271 | .0581677 | .1094895 | .2444262 | 124.6144 |
| #3 | .0038672 | .0028210 | 743.1227 | .0585977 | .1098160 | .2690423 | 124.9666 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 9.195949 | 210.1574 | .1151036 | -.008684 | 1.269529 | .1170650 | .5188787 |
| Stddev | .059966 | .7277 | .0004887 | .000875 | .011258 | .0049613 | .0011818 |
| %RSD | .6520882 | .3462448 | .4245706 | 10.07485 | .8867985 | 4.238037 | .2277626 |
| #1 | 9.129702 | 209.8628 | .1155958 | -.008548 | 1.262218 | .1185218 | .5201269 |
| #2 | 9.211626 | 209.6232 | .1146185 | -.009619 | 1.263875 | .1115384 | .5187324 |
| #3 | 9.246519 | 210.9861 | .1150964 | -.007885 | 1.282493 | .1211347 | .5177769 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.173324 | 4.485904 | -.237245 | .0043568 | .9452192 | 11.20597 | .0269885 |
| Stddev | .150837 | .012686 | .006599 | .0006123 | .0030166 | .05563 | .0016795 |
| %RSD | 2.915671 | .2827932 | 2.781391 | 14.05414 | .3191391 | .4964083 | 6.223098 |
| #1 | 5.214033 | 4.497586 | -.229752 | .0045023 | .9419978 | 11.16344 | .0284554 |
| #2 | 5.006310 | 4.487716 | -.242192 | .0036848 | .9479773 | 11.26893 | .0251564 |
| #3 | 5.299629 | 4.472409 | -.239790 | .0048832 | .9456826 | 11.18556 | .0273536 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5058-03 Acquired: 01/05/2025 18:16:08 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .7987521 | .6705736 | .1023663 |
| Stddev | .0063783 | .0019259 | .0025117 |
| %RSD | .7985385 | .2872085 | 2.453679 |
| | | | |
| #1 | .8012777 | .6690537 | .1012924 |
| #2 | .7914977 | .6699275 | .1052364 |
| #3 | .8034809 | .6727395 | .1005700 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1902.959 | 19184.44 | 1838.671 | 1390.213 | 1652.225 |
| Stddev | 4.255 | 43.20 | 14.697 | 2.386 | 2.730 |
| %RSD | .2236164 | .2251791 | .7993423 | .1716277 | .1652187 |
| | | | | | |
| #1 | 1904.369 | 19229.06 | 1854.105 | 1391.761 | 1653.574 |
| #2 | 1906.329 | 19142.81 | 1824.842 | 1387.465 | 1654.017 |
| #3 | 1898.177 | 19181.46 | 1837.067 | 1391.412 | 1649.083 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5058-04 Acquired: 01/05/2025 18:20:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82D Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0548692 | .0074637 | .1951981 | .0209442 | .0235262 | 40.36964 | .3444917 |
| Stddev | .0027521 | .0092421 | .0047589 | .0036905 | .0045169 | .26321 | .0024379 |
| %RSD | 5.015805 | 123.8274 | 2.438010 | 17.62067 | 19.19966 | .6520080 | .7076682 |
| #1 | .0575783 | -.000991 | .1899194 | .0234904 | .0281138 | 40.15984 | .3428150 |
| #2 | .0549533 | .006051 | .1965152 | .0226305 | .0233814 | 40.66498 | .3472882 |
| #3 | .0520760 | .017331 | .1991599 | .0167118 | .0190834 | 40.28410 | .3433717 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0038309 | .0027880 | 744.1726 | .0597784 | .1105006 | .2624148 | 124.9313 |
| Stddev | .0002544 | .0000692 | 3.1887 | .0002936 | .0010575 | .0057797 | .3305 |
| %RSD | 6.641261 | 2.480740 | .4284845 | .4912158 | .9570372 | 2.202512 | .2645473 |
| #1 | .0040004 | .0027667 | 741.1990 | .0599089 | .1092828 | .2614627 | 124.7356 |
| #2 | .0039539 | .0027319 | 747.5397 | .0594422 | .1111877 | .2686115 | 125.3129 |
| #3 | .0035383 | .0028653 | 743.7791 | .0599842 | .1110312 | .2571703 | 124.7454 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 9.246988 | 210.9277 | .1166312 | -.008007 | 1.300398 | .1015647 | .5229773 |
| Stddev | .057708 | 1.0257 | .0013327 | .001641 | .017199 | .0058010 | .0020002 |
| %RSD | .6240722 | .4862976 | 1.142631 | 20.49805 | 1.322629 | 5.711638 | .3824690 |
| #1 | 9.203446 | 210.8581 | .1173742 | -.007599 | 1.319920 | .1081086 | .5228293 |
| #2 | 9.312443 | 211.9864 | .1150927 | -.006609 | 1.293795 | .0970539 | .5250474 |
| #3 | 9.225075 | 209.9385 | .1174267 | -.009814 | 1.287478 | .0995316 | .5210552 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.323300 | 4.513553 | -.243401 | .0037090 | .9485327 | 11.25073 | .0290451 |
| Stddev | .035799 | .007264 | .003243 | .0004789 | .0083329 | .09969 | .0031851 |
| %RSD | .6725012 | .1609407 | 1.332367 | 12.91201 | .8785053 | .8860840 | 10.96622 |
| #1 | 5.364564 | 4.516777 | -.244703 | .0039023 | .9553486 | 11.24190 | .0253937 |
| #2 | 5.300537 | 4.505235 | -.245790 | .0040611 | .9392430 | 11.35454 | .0312520 |
| #3 | 5.304798 | 4.518648 | -.239709 | .0031637 | .9510066 | 11.15575 | .0304898 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5058-04 Acquired: 01/05/2025 18:20:00 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82D Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .7974672 | .6725507 | .1008702 |
| Stddev | .0052977 | .0049714 | .0047336 |
| %RSD | .6643205 | .7391800 | 4.692770 |
| | | | |
| #1 | .7948037 | .6693791 | .1015929 |
| #2 | .8035682 | .6782802 | .0958168 |
| #3 | .7940298 | .6699927 | .1052008 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1900.241 | 19030.54 | 1825.458 | 1378.623 | 1647.261 |
| Stddev | 2.427 | 31.82 | 12.481 | 3.765 | .694 |
| %RSD | .1277312 | .1671830 | .6837060 | .2730655 | .0421521 |
| | | | | | |
| #1 | 1900.113 | 19002.32 | 1824.987 | 1377.142 | 1647.629 |
| #2 | 1897.880 | 19065.02 | 1813.219 | 1382.903 | 1646.460 |
| #3 | 1902.730 | 19024.28 | 1838.167 | 1375.824 | 1647.694 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5058-03LX5 Acquired: 01/05/2025 18:23:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82L Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0025007 | .0189790 | .0432860 | -.013872 | .0037637 | 8.524598 | .0688780 |
| Stddev | .0054813 | .0040759 | .0034791 | .006115 | .0044913 | .058196 | .0028364 |
| %RSD | 219.1883 | 21.47576 | 8.037577 | 44.08575 | 119.3344 | .6826860 | 4.118059 |
| #1 | .0004145 | .0195593 | .0469707 | -.020524 | .0078003 | 8.494629 | .0656313 |
| #2 | .0087188 | .0227336 | .0428298 | -.008495 | -.001074 | 8.487495 | .0708749 |
| #3 | -.001631 | .0146441 | .0400575 | -.012595 | .004565 | 8.591671 | .0701278 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0009460 | .0005183 | 161.2138 | .0132509 | .0438875 | .0550316 | 27.19456 |
| Stddev | .0001443 | .0001175 | .9963 | .0003745 | .0003833 | .0156910 | .20328 |
| %RSD | 15.25813 | 22.67543 | .6180023 | 2.826379 | .8732958 | 28.51270 | .7474856 |
| #1 | .0010517 | .0006373 | 161.1872 | .0130953 | .0434815 | .0593373 | 27.28706 |
| #2 | .0007816 | .0005151 | 160.2311 | .0129792 | .0439380 | .0376373 | 26.96148 |
| #3 | .0010047 | .0004024 | 162.2232 | .0136781 | .0442431 | .0681203 | 27.33513 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.031157 | 46.43053 | .0180797 | -.003419 | .3075230 | .0218967 | .1133983 |
| Stddev | .009198 | .34087 | .0005650 | .001983 | .0133356 | .0096369 | .0004733 |
| %RSD | .4528459 | .7341538 | 3.125287 | 57.99080 | 4.336461 | 44.01099 | .4174196 |
| #1 | 2.029668 | 46.36717 | .0180561 | -.004905 | .3147311 | .0272670 | .1128600 |
| #2 | 2.022795 | 46.12579 | .0175268 | -.001168 | .2921346 | .0107711 | .1137494 |
| #3 | 2.041009 | 46.79864 | .0186562 | -.004186 | .3157033 | .0276520 | .1135855 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.253929 | .8181468 | -.055059 | .0047425 | .1844565 | 2.443972 | .0069104 |
| Stddev | .320902 | .0022035 | .003388 | .0004730 | .0052426 | .032242 | .0016786 |
| %RSD | 25.59174 | .2693275 | 6.154240 | 9.973063 | 2.842172 | 1.319242 | 24.29018 |
| #1 | 1.223449 | .8201816 | -.051191 | .0048399 | .1784973 | 2.425138 | .0087958 |
| #2 | .949354 | .8184523 | -.056483 | .0042285 | .1883583 | 2.425577 | .0055786 |
| #3 | 1.588984 | .8158065 | -.057504 | .0051593 | .1865139 | 2.481201 | .0063568 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5058-03LX5 Acquired: 01/05/2025 18:23:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82L Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .1663384 | .1427160 | .0249811 |
| Stddev | .0031052 | .0006751 | .0048451 |
| %RSD | 1.866807 | .4730295 | 19.39502 |
| | | | |
| #1 | .1692153 | .1425708 | .0220027 |
| #2 | .1667534 | .1421253 | .0223688 |
| #3 | .1630466 | .1434518 | .0305717 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1781.001 | 17765.15 | 1674.455 | 1307.210 | 1836.196 |
| Stddev | 5.127 | 132.12 | 13.489 | 6.267 | 3.584 |
| %RSD | .2878848 | .7436867 | .8055467 | .4794207 | .1951936 |
| | | | | | |
| #1 | 1777.086 | 17635.27 | 1676.440 | 1300.580 | 1835.503 |
| #2 | 1779.113 | 17760.77 | 1686.841 | 1308.013 | 1833.009 |
| #3 | 1786.805 | 17899.40 | 1660.084 | 1313.036 | 1840.076 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5058-05 Acquired: 01/05/2025 18:27:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82S Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1316691 | .0886092 | .2265981 | .1676618 | .1709653 | 42.46906 | 3.696338 |
| Stddev | .0011788 | .0017473 | .0055271 | .0045862 | .0044692 | .06610 | .008233 |
| %RSD | .8952631 | 1.971880 | 2.439156 | 2.735411 | 2.614112 | .1556419 | .2227275 |
| | | | | | | | |
| #1 | .1306880 | .0904578 | .2221902 | .1706343 | .1754697 | 42.44872 | 3.690354 |
| #2 | .1313426 | .0883849 | .2248050 | .1699713 | .1708942 | 42.54294 | 3.692933 |
| #3 | .1329767 | .0869849 | .2327991 | .1623800 | .1665321 | 42.41552 | 3.705727 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0886643 | .0988211 | 730.5710 | .4127544 | 1.068128 | .6590056 | 123.5288 |
| Stddev | .0005397 | .0001259 | 1.2353 | .0009320 | .000659 | .0097837 | .2872 |
| %RSD | .6087051 | .1273566 | .1690835 | .2258105 | .0616667 | 1.484615 | .2324840 |
| | | | | | | | |
| #1 | .0881859 | .0986781 | 731.9697 | .4138228 | 1.067512 | .6598157 | 123.8138 |
| #2 | .0892494 | .0988699 | 729.6295 | .4121085 | 1.068049 | .6683590 | 123.2395 |
| #3 | .0885576 | .0989152 | 730.1138 | .4123318 | 1.068823 | .6488420 | 123.5332 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 9.839688 | 205.6351 | 1.087113 | .0547884 | 1.233257 | .9582913 | 1.283195 |
| Stddev | .016028 | .3302 | .002086 | .0008190 | .020382 | .0196891 | .006164 |
| %RSD | .1628960 | .1605834 | .1918725 | 1.494746 | 1.652693 | 2.054607 | .4803873 |
| | | | | | | | |
| #1 | 9.844709 | 205.9205 | 1.084870 | .0540701 | 1.225839 | .9742721 | 1.276442 |
| #2 | 9.821750 | 205.7115 | 1.087476 | .0556802 | 1.217623 | .9643053 | 1.284624 |
| #3 | 9.852605 | 205.2734 | 1.088994 | .0546149 | 1.256309 | .9362966 | 1.288519 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.448511 | 4.453070 | -.239721 | .0045667 | .9372858 | 10.98128 | .0288716 |
| Stddev | .206140 | .006111 | .004572 | .0005067 | .0035503 | .03395 | .0018007 |
| %RSD | 3.783427 | .1372243 | 1.907337 | 11.09506 | .3787878 | .3091751 | 6.236820 |
| | | | | | | | |
| #1 | 5.493718 | 4.449381 | -.234954 | .0040713 | .9405390 | 10.94207 | .0279749 |
| #2 | 5.628297 | 4.449706 | -.244070 | .0045446 | .9334988 | 11.00092 | .0276954 |
| #3 | 5.223519 | 4.460124 | -.240140 | .0050840 | .9378196 | 11.00084 | .0309446 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5058-05 Acquired: 01/05/2025 18:27:50 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL82S Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .7815711 | .6553290 | .0999107 |
| Stddev | .0026525 | .0013063 | .0015855 |
| %RSD | .3393853 | .1993328 | 1.586910 |
| | | | |
| #1 | .7833906 | .6547296 | .1015783 |
| #2 | .7785276 | .6544299 | .0997312 |
| #3 | .7827952 | .6568274 | .0984226 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1904.515 | 19144.12 | 1847.352 | 1385.294 | 1657.763 |
| Stddev | 6.214 | 55.46 | 5.321 | 1.779 | 5.167 |
| %RSD | .3262945 | .2896968 | .2880532 | .1283987 | .3116917 |
| | | | | | |
| #1 | 1903.290 | 19080.93 | 1849.324 | 1384.790 | 1657.401 |
| #2 | 1911.251 | 19166.71 | 1841.327 | 1383.822 | 1663.102 |
| #3 | 1899.005 | 19184.73 | 1851.407 | 1387.270 | 1652.786 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5121-10 Acquired: 01/05/2025 18:31:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2061411 | -.019969 | 5.166204 | .0788753 | .0451590 | 70.32736 |
| Stddev | .0044475 | .004673 | .009510 | .0035028 | .0040424 | .39693 |
| %RSD | 2.157482 | 23.39918 | .1840724 | 4.440938 | 8.951382 | .5643993 |
| #1 | .2013762 | -.023668 | 5.156840 | .0786381 | .0491551 | 69.92341 |
| #2 | .2068646 | -.014718 | 5.175853 | .0824906 | .0410720 | 70.71687 |
| #3 | .2101824 | -.021522 | 5.165920 | .0754971 | .0452498 | 70.34181 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.564138 | .0111494 | .0198126 | 355.9293 | .1898854 | .1411590 |
| Stddev | .003154 | .0000892 | .0001737 | .4246 | .0013583 | .0005790 |
| %RSD | .1230061 | .8002273 | .8768136 | .1193056 | .7153391 | .4101511 |
| #1 | 2.562165 | .0110628 | .0196324 | 355.4820 | .1903291 | .1417107 |
| #2 | 2.562474 | .0111444 | .0199790 | 356.3269 | .1909663 | .1405562 |
| #3 | 2.567776 | .0112411 | .0198264 | 355.9791 | .1883607 | .1412101 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8131962 | 193.7531 | 8.087653 | 107.2127 | .2160335 | -.010517 |
| Stddev | .0109467 | .6482 | .025478 | .4670 | .0014960 | .000842 |
| %RSD | 1.346138 | .3345660 | .3150290 | .4355463 | .6924664 | 8.009500 |
| #1 | .8163718 | 193.0095 | 8.058490 | 106.7185 | .2174702 | -.009555 |
| #2 | .8222040 | 194.0508 | 8.098879 | 107.6465 | .2144846 | -.011120 |
| #3 | .8010127 | 194.1990 | 8.105591 | 107.2733 | .2161457 | -.010878 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.972904 | .2039471 | 4.188811 | 9.689596 | F 19.52439 | -.328978 |
| Stddev | .012304 | .0118755 | .018033 | .123353 | .02309 | .001015 |
| %RSD | .6236477 | 5.822832 | .4305021 | 1.273046 | .1182729 | .3086293 |
| #1 | 1.958751 | .1994773 | 4.192666 | 9.576390 | 19.53085 | -.329437 |
| #2 | 1.978900 | .1949551 | 4.169163 | 9.671338 | 19.54356 | -.329684 |
| #3 | 1.981061 | .2174089 | 4.204606 | 9.821061 | 19.49875 | -.327815 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5121-10 Acquired: 01/05/2025 18:31:39 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0128323 | 5.831801 | 9.061545 | .3476276 | 1.129005 | .6581761 |
| Stddev | .0006689 | .006605 | .052823 | .0016030 | .006791 | .0034094 |
| %RSD | 5.212424 | .1132664 | .5829328 | .4611347 | .6015241 | .5180115 |
| #1 | .0123804 | 5.838987 | 9.020075 | .3489568 | 1.127701 | .6561446 |
| #2 | .0125159 | 5.825993 | 9.121015 | .3458474 | 1.136354 | .6621122 |
| #3 | .0136007 | 5.830424 | 9.043544 | .3480787 | 1.122961 | .6562713 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1045434 |
| Stddev | .0029265 |
| %RSD | 2.799351 |
| #1 | .1038009 |
| #2 | .1020596 |
| #3 | .1077697 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2038.980 | 20463.71 | 1958.021 | 1494.521 | 1772.366 |
| Stddev | 3.779 | 94.89 | 7.089 | 10.698 | 3.565 |
| %RSD | .1853306 | .4636945 | .3620635 | .7158327 | .2011485 |
| #1 | 2038.302 | 20355.55 | 1957.304 | 1486.750 | 1776.399 |
| #2 | 2043.052 | 20502.64 | 1951.317 | 1506.723 | 1771.064 |
| #3 | 2035.586 | 20532.95 | 1965.441 | 1490.091 | 1769.635 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5121-11 Acquired: 01/05/2025 18:35:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51D Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2070355 | -.021006 | 5.169932 | .0788791 | .0430430 | 70.77303 |
| Stddev | .0041543 | .004055 | .016645 | .0066441 | .0011062 | .13443 |
| %RSD | 2.006546 | 19.30575 | .3219576 | 8.423163 | 2.570060 | .1899439 |
| #1 | .2110733 | -.025047 | 5.150735 | .0821845 | .0420356 | 70.92822 |
| #2 | .2027738 | -.016937 | 5.178729 | .0832223 | .0442269 | 70.69283 |
| #3 | .2072594 | -.021034 | 5.180334 | .0712306 | .0428666 | 70.69802 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.563820 | .0110677 | .0196320 | 356.2623 | .1902522 | .1420599 |
| Stddev | .002362 | .0002143 | .0001332 | .5362 | .0012804 | .0005206 |
| %RSD | .0921282 | 1.936603 | .6782662 | .1505077 | .6730177 | .3664281 |
| #1 | 2.562673 | .0112378 | .0196813 | 356.8657 | .1887807 | .1426563 |
| #2 | 2.566536 | .0108269 | .0197335 | 355.8405 | .1908637 | .1416969 |
| #3 | 2.562249 | .0111383 | .0194813 | 356.0806 | .1911123 | .1418264 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .8084071 | 194.5798 | 8.105444 | 107.8976 | .2158962 | -.009434 |
| Stddev | .0150858 | .2460 | .014835 | .1379 | .0011596 | .000851 |
| %RSD | 1.866119 | .1264299 | .1830262 | .1278391 | .5371068 | 9.019579 |
| #1 | .7915547 | 194.6149 | 8.091269 | 107.7862 | .2170346 | -.010338 |
| #2 | .8130150 | 194.8063 | 8.120861 | 107.8546 | .2159374 | -.008648 |
| #3 | .8206517 | 194.3181 | 8.104203 | 108.0519 | .2147165 | -.009317 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.982569 | .1924440 | 4.227264 | 9.755619 | F 19.55407 | -.329837 |
| Stddev | .006707 | .0058444 | .015597 | .173483 | .01286 | .005169 |
| %RSD | .3383093 | 3.036946 | .3689605 | 1.778284 | .0657714 | 1.567283 |
| #1 | 1.974882 | .1883893 | 4.211834 | 9.622744 | 19.55030 | -.334612 |
| #2 | 1.985594 | .1897995 | 4.243023 | 9.951881 | 19.56839 | -.330552 |
| #3 | 1.987232 | .1991433 | 4.226935 | 9.692232 | 19.54351 | -.324348 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5121-11 Acquired: 01/05/2025 18:35:26 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51D Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0123097 | 5.842954 | 9.098379 | .3489958 | 1.127452 | .6624588 |
| Stddev | .0012870 | .010002 | .057669 | .0028452 | .001812 | .0020431 |
| %RSD | 10.45500 | .1711726 | .6338392 | .8152563 | .1607004 | .3084110 |
| #1 | .0132485 | 5.841908 | 9.163399 | .3457302 | 1.125389 | .6642775 |
| #2 | .0128380 | 5.853437 | 9.078323 | .3509403 | 1.128784 | .6628508 |
| #3 | .0108427 | 5.833516 | 9.053417 | .3503169 | 1.128182 | .6602482 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1071067 |
| Stddev | .0021599 |
| %RSD | 2.016538 |
| #1 | .1071097 |
| #2 | .1092651 |
| #3 | .1049454 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2038.536 | 20352.67 | 1948.894 | 1478.371 | 1767.352 |
| Stddev | 3.174 | 76.24 | 10.135 | 8.383 | 2.677 |
| %RSD | .1557140 | .3745742 | .5200279 | .5670214 | .1514628 |
| #1 | 2034.900 | 20404.69 | 1938.713 | 1485.153 | 1768.405 |
| #2 | 2040.751 | 20388.17 | 1958.982 | 1480.961 | 1764.308 |
| #3 | 2039.959 | 20265.16 | 1948.987 | 1468.999 | 1769.341 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5121-10LX5 Acquired: 01/05/2025 18:39:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51L Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0372570 | .0100170 | .9971511 | .0066706 | .0055286 | 15.81716 | .5691112 |
| Stddev | .0070784 | .0012216 | .0053706 | .0017692 | .0036087 | .06597 | .0014322 |
| %RSD | 18.99877 | 12.19549 | .5385978 | 26.52206 | 65.27246 | .4170759 | .2516614 |
| #1 | .0398051 | .0086072 | .9910298 | .0075308 | .0079434 | 15.86864 | .5706402 |
| #2 | .0427086 | .0106802 | .9993509 | .0078453 | .0013803 | 15.84005 | .5678008 |
| #3 | .0292574 | .0107636 | 1.001073 | .0046358 | .0072622 | 15.74280 | .5688926 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0025984 | .0036202 | 80.74068 | .0426810 | .0444948 | .1803130 | 44.12366 |
| Stddev | .0000521 | .0000534 | .04748 | .0009968 | .0006380 | .0043013 | .20067 |
| %RSD | 2.004258 | 1.475392 | .0588046 | 2.335552 | 1.433838 | 2.385484 | .4547873 |
| #1 | .0026270 | .0036561 | 80.74235 | .0422919 | .0439649 | .1850312 | 44.35016 |
| #2 | .0026298 | .0036456 | 80.78731 | .0438137 | .0452029 | .1766104 | 43.96807 |
| #3 | .0025382 | .0035588 | 80.69239 | .0419374 | .0443166 | .1792973 | 44.05276 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.859455 | 24.55334 | .0372164 | -.002674 | .4405767 | .0414588 | .9507775 |
| Stddev | .003991 | .16970 | .0011327 | .000641 | .0238622 | .0018494 | .0062828 |
| %RSD | .2146156 | .6911293 | 3.043493 | 23.97175 | 5.416119 | 4.460814 | .6608038 |
| #1 | 1.861141 | 24.61006 | .0365646 | -.002009 | .4304699 | .0396762 | .9579778 |
| #2 | 1.862326 | 24.68741 | .0385243 | -.002725 | .4678290 | .0413318 | .9479458 |
| #3 | 1.854898 | 24.36255 | .0365604 | -.003288 | .4234311 | .0433684 | .9464090 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.939186 | 3.631154 | -.075968 | .0064400 | 1.084654 | 2.071757 | .0662902 |
| Stddev | .205472 | .002326 | .002988 | .0002876 | .003808 | .020195 | .0023032 |
| %RSD | 10.59580 | .0640498 | 3.933064 | 4.465786 | .3511235 | .9747898 | 3.474463 |
| #1 | 1.867514 | 3.629133 | -.074257 | .0067457 | 1.080426 | 2.079322 | .0639158 |
| #2 | 2.170895 | 3.633696 | -.079418 | .0063996 | 1.087816 | 2.087078 | .0664399 |
| #3 | 1.779149 | 3.630633 | -.074229 | .0061748 | 1.085721 | 2.048872 | .0685150 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5121-10LX5 Acquired: 01/05/2025 18:39:14 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51L Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2414349 | .1473012 | .0216796 |
| Stddev | .0067876 | .0011330 | .0060932 |
| %RSD | 2.811373 | .7691750 | 28.10560 |
| | | | |
| #1 | .2444329 | .1484679 | .0168157 |
| #2 | .2462073 | .1462052 | .0285142 |
| #3 | .2336644 | .1472304 | .0197089 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1880.152 | 18657.15 | 1737.194 | 1372.058 | 1951.233 |
| Stddev | 6.501 | 98.73 | 11.851 | 6.579 | 4.362 |
| %RSD | .3457678 | .5292044 | .6821733 | .4795310 | .2235630 |
| | | | | | |
| #1 | 1872.717 | 18546.84 | 1728.483 | 1364.902 | 1947.307 |
| #2 | 1884.764 | 18737.24 | 1732.410 | 1377.845 | 1955.929 |
| #3 | 1882.976 | 18687.38 | 1750.689 | 1373.428 | 1950.464 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5121-12 Acquired: 01/05/2025 18:43:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51S Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2905761 | .0540002 | 5.140853 | .2232766 | .1928902 | 73.02306 |
| Stddev | .0036787 | .0022847 | .010096 | .0063254 | .0037617 | .66403 |
| %RSD | 1.266003 | 4.230952 | .1963806 | 2.832981 | 1.950200 | .9093372 |
| #1 | .2909439 | .0566066 | 5.151634 | .2177621 | .1931647 | 72.30889 |
| #2 | .2867273 | .0530502 | 5.139303 | .2218862 | .1965072 | 73.13848 |
| #3 | .2940571 | .0523437 | 5.131622 | .2301816 | .1889988 | 73.62180 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.843506 | .0945511 | .1141688 | 352.8978 | .5363401 | 1.098293 |
| Stddev | .014931 | .0002923 | .0001285 | 1.3341 | .0011891 | .000110 |
| %RSD | .2555169 | .3091818 | .1125715 | .3780319 | .2217109 | .0099807 |
| #1 | 5.826779 | .0942919 | .1140502 | 351.3790 | .5361526 | 1.098273 |
| #2 | 5.848248 | .0948680 | .1141508 | 353.4342 | .5376118 | 1.098411 |
| #3 | 5.855490 | .0944934 | .1143053 | 353.8802 | .5352559 | 1.098195 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.188341 | 194.3296 | 8.868224 | 106.2704 | 1.183876 | .0520783 |
| Stddev | .012123 | 1.5545 | .053909 | 1.1531 | .001927 | .0019839 |
| %RSD | 1.020182 | .7999431 | .6078905 | 1.085041 | .1627694 | 3.809393 |
| #1 | 1.183568 | 192.5358 | 8.810089 | 104.9503 | 1.185922 | .0499386 |
| #2 | 1.179330 | 195.1701 | 8.878017 | 106.7806 | 1.182096 | .0538566 |
| #3 | 1.202124 | 195.2830 | 8.916564 | 107.0804 | 1.183610 | .0524396 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.945738 | 1.033751 | 4.896158 | 9.282864 | F 19.26504 | -.329700 |
| Stddev | .015922 | .013564 | .019913 | .016660 | .02639 | .008982 |
| %RSD | .8183265 | 1.312086 | .4066981 | .1794693 | .1369791 | 2.724281 |
| #1 | 1.940672 | 1.019073 | 4.917211 | 9.287641 | 19.25942 | -.340017 |
| #2 | 1.932966 | 1.036359 | 4.877626 | 9.264338 | 19.29379 | -.325465 |
| #3 | 1.963578 | 1.045822 | 4.893636 | 9.296614 | 19.24191 | -.323619 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5121-12 Acquired: 01/05/2025 18:43:10 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHM51S Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0120065 | 5.754813 | 8.989309 | .3415726 | 1.107724 | .6520649 |
| Stddev | .0001301 | .003884 | .014471 | .0026624 | .017494 | .0059943 |
| %RSD | 1.083220 | .0674985 | .1609778 | .7794606 | 1.579241 | .9192795 |
| | | | | | | |
| #1 | .0121567 | 5.759247 | 8.978759 | .3385845 | 1.089460 | .6462926 |
| #2 | .0119288 | 5.753179 | 9.005806 | .3424405 | 1.109383 | .6516431 |
| #3 | .0119341 | 5.752012 | 8.983363 | .3436927 | 1.124329 | .6582589 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1083280 |
| Stddev | .0032010 |
| %RSD | 2.954926 |
| | |
| #1 | .1116146 |
| #2 | .1052201 |
| #3 | .1081492 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2040.213 | 20405.92 | 1956.694 | 1492.310 | 1780.273 |
| Stddev | 1.609 | 127.33 | 10.708 | 2.112 | 2.935 |
| %RSD | .0788697 | .6240004 | .5472388 | .1415148 | .1648584 |
| | | | | | |
| #1 | 2039.023 | 20435.83 | 1962.706 | 1490.475 | 1783.331 |
| #2 | 2042.044 | 20266.30 | 1944.331 | 1491.836 | 1777.479 |
| #3 | 2039.573 | 20515.65 | 1963.044 | 1494.618 | 1780.009 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5055-15DLX4 Acquired: 01/05/2025 18:46:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT6 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0170725 | .0294406 | .1015706 | -.023523 | .0025972 | 11.57284 | .2466555 |
| Stddev | .0077662 | .0030069 | .0032618 | .003531 | .0026554 | .03156 | .0030446 |
| %RSD | 45.48947 | 10.21332 | 3.211343 | 15.00993 | 102.2405 | .2726876 | 1.234364 |
| | | | | | | | |
| #1 | .0237943 | .0326573 | .1036542 | -.026436 | .0040529 | 11.55994 | .2480571 |
| #2 | .0188522 | .0267005 | .0978116 | -.024538 | .0042064 | 11.54977 | .2487469 |
| #3 | .0085709 | .0289640 | .1032461 | -.019596 | -.000468 | 11.60880 | .2431625 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0014165 | .0008853 | 422.9882 | .0206941 | .0578892 | .0581420 | 39.76093 |
| Stddev | .0002023 | .0001870 | .1598 | .0005336 | .0003885 | .0150249 | .09371 |
| %RSD | 14.28179 | 21.12268 | .0377707 | 2.578337 | .6710385 | 25.84169 | .2356848 |
| | | | | | | | |
| #1 | .0015948 | .0009550 | 423.1307 | .0212956 | .0579133 | .0749376 | 39.80778 |
| #2 | .0011967 | .0006734 | 422.8155 | .0205086 | .0582651 | .0459789 | 39.65304 |
| #3 | .0014582 | .0010274 | 423.0184 | .0202780 | .0574893 | .0535094 | 39.82198 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.278475 | 66.99427 | .0373291 | -.001929 | .4869329 | .0267829 | .1372992 |
| Stddev | .005742 | .13148 | .0020421 | .001256 | .0167282 | .0037643 | .0003434 |
| %RSD | .1751361 | .1962597 | 5.470605 | 65.13491 | 3.435417 | 14.05501 | .2501306 |
| | | | | | | | |
| #1 | 3.280011 | 66.86543 | .0350384 | -.000479 | .5060779 | .0230635 | .1373522 |
| #2 | 3.272121 | 66.98913 | .0379900 | -.002685 | .4795814 | .0305906 | .1376131 |
| #3 | 3.283293 | 67.12825 | .0389589 | -.002622 | .4751394 | .0266945 | .1369324 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.763921 | 3.180126 | -.062273 | .0054896 | .5835257 | 2.992065 | .0124370 |
| Stddev | .159572 | .002297 | .001637 | .0010175 | .0035938 | .017367 | .0017561 |
| %RSD | 5.773377 | .0722322 | 2.629206 | 18.53518 | .6158777 | .5804217 | 14.12007 |
| | | | | | | | |
| #1 | 2.603980 | 3.179211 | -.062431 | .0044526 | .5841178 | 2.998964 | .0113063 |
| #2 | 2.923120 | 3.182739 | -.060562 | .0055298 | .5867867 | 2.972309 | .0115445 |
| #3 | 2.764665 | 3.178427 | -.063825 | .0064864 | .5796726 | 3.004923 | .0144601 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5055-15DLX4 Acquired: 01/05/2025 18:46:56 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHKT6 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .1807044 | .3143093 | .0325288 |
| Stddev | .0016849 | .0004683 | .0041275 |
| %RSD | .9323966 | .1490082 | 12.68876 |
| | | | |
| #1 | .1825983 | .3137858 | .0372882 |
| #2 | .1793718 | .3144538 | .0299322 |
| #3 | .1801432 | .3146885 | .0303659 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1772.585 | 17731.79 | 1699.552 | 1300.400 | 1753.600 |
| Stddev | 4.042 | 121.18 | 11.271 | 7.196 | 5.016 |
| %RSD | .2280506 | .6833928 | .6631768 | .5533373 | .2860583 |
| | | | | | |
| #1 | 1768.024 | 17660.47 | 1686.539 | 1296.763 | 1750.102 |
| #2 | 1774.004 | 17663.19 | 1706.245 | 1295.749 | 1751.350 |
| #3 | 1775.727 | 17871.70 | 1705.872 | 1308.688 | 1759.347 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5056-20DLX2 Acquired: 01/05/2025 18:50:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0243152 | .0155708 | .1574184 | .0002878 | .0139267 | 28.58364 | .3249390 |
| Stddev | .0023496 | .0034558 | .0027960 | .0023720 | .0031639 | .07858 | .0029722 |
| %RSD | 9.663118 | 22.19380 | 1.776162 | 824.1574 | 22.71795 | .2749231 | .9146889 |
| #1 | .0226148 | .0148939 | .1547571 | -.000315 | .0106363 | 28.52766 | .3263938 |
| #2 | .0233345 | .0193150 | .1603320 | .002903 | .0141969 | 28.67348 | .3269035 |
| #3 | .0269963 | .0125037 | .1571661 | -.001725 | .0169467 | 28.54978 | .3215196 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0026583 | .0011509 | 436.6943 | .0453044 | .0732758 | .0769904 | 78.69123 |
| Stddev | .0002414 | .0000363 | .7051 | .0001796 | .0008813 | .0040260 | .20767 |
| %RSD | 9.082350 | 3.150382 | .1614581 | .3964927 | 1.202764 | 5.229182 | .2638988 |
| #1 | .0023820 | .0011797 | 436.1994 | .0450971 | .0737553 | .0764647 | 78.82490 |
| #2 | .0028289 | .0011102 | 437.5016 | .0454136 | .0738135 | .0812533 | 78.79680 |
| #3 | .0027640 | .0011629 | 436.3819 | .0454024 | .0722587 | .0732531 | 78.45199 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.448733 | 101.9893 | .0776604 | -.005314 | .7126013 | .0695983 | .2443428 |
| Stddev | .005244 | .5580 | .0013306 | .000658 | .0046534 | .0096977 | .0023015 |
| %RSD | .1178797 | .5470816 | 1.713363 | 12.38042 | .6530117 | 13.93385 | .9418981 |
| #1 | 4.454744 | 102.1368 | .0777999 | -.006011 | .7146017 | .0782740 | .2466407 |
| #2 | 4.445091 | 102.4586 | .0762656 | -.005228 | .7159199 | .0713919 | .2443499 |
| #3 | 4.446365 | 101.3724 | .0789158 | -.004703 | .7072822 | .0591289 | .2420378 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.702522 | 2.288378 | -.151793 | .0056243 | .6529270 | 7.156275 | .0196927 |
| Stddev | .081894 | .006291 | .002315 | .0007978 | .0042948 | .053561 | .0035927 |
| %RSD | 2.211851 | .2749196 | 1.524988 | 14.18434 | .6577695 | .7484540 | 18.24402 |
| #1 | 3.675984 | 2.295320 | -.154122 | .0065184 | .6483644 | 7.202751 | .0199528 |
| #2 | 3.794395 | 2.286762 | -.151766 | .0053692 | .6568912 | 7.168376 | .0159770 |
| #3 | 3.637188 | 2.283052 | -.149493 | .0049852 | .6535253 | 7.097699 | .0231483 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5056-20DLX2 Acquired: 01/05/2025 18:50:52 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .3881530 | .3465294 | .0667398 |
| Stddev | .0016230 | .0013024 | .0009784 |
| %RSD | .4181384 | .3758485 | 1.465988 |
| | | | |
| #1 | .3898754 | .3464146 | .0677492 |
| #2 | .3866522 | .3478854 | .0657957 |
| #3 | .3879314 | .3452881 | .0666744 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1800.306 | 18092.64 | 1720.391 | 1323.085 | 1749.665 |
| Stddev | 2.759 | 65.55 | 6.807 | 4.841 | 5.762 |
| %RSD | .1532657 | .3623208 | .3956651 | .3658837 | .3293477 |
| | | | | | |
| #1 | 1801.830 | 18159.79 | 1713.976 | 1317.538 | 1750.826 |
| #2 | 1797.120 | 18089.31 | 1719.666 | 1325.260 | 1743.411 |
| #3 | 1801.966 | 18028.81 | 1727.532 | 1326.457 | 1754.759 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5056-21DLX2 Acquired: 01/05/2025 18:54:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47D Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0243482 | .0155845 | .1601054 | .0007409 | .0152344 | 28.28191 | .3266263 |
| Stddev | .0047993 | .0010132 | .0020578 | .0030356 | .0041297 | .16214 | .0004589 |
| %RSD | 19.71107 | 6.501142 | 1.285283 | 409.7236 | 27.10767 | .5733019 | .1404852 |
| #1 | .0282722 | .0145879 | .1609046 | -.001282 | .0104707 | 28.30227 | .3271404 |
| #2 | .0189973 | .0166134 | .1577679 | -.000727 | .0174311 | 28.11055 | .3264804 |
| #3 | .0257752 | .0155522 | .1616437 | .004232 | .0178015 | 28.43291 | .3262581 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0026607 | .0012480 | 436.2500 | .0444496 | .0730481 | .0634451 | 78.09201 |
| Stddev | .0001695 | .0000545 | .3715 | .0007641 | .0003686 | .0057416 | .48308 |
| %RSD | 6.370971 | 4.363294 | .0851490 | 1.718990 | .5045835 | 9.049741 | .6186039 |
| #1 | .0025230 | .0012805 | 435.8224 | .0453112 | .0726663 | .0602903 | 78.16864 |
| #2 | .0028500 | .0012783 | 436.4923 | .0438544 | .0730759 | .0700724 | 77.57519 |
| #3 | .0026090 | .0011851 | 436.4355 | .0441831 | .0734019 | .0599726 | 78.53220 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.413707 | 101.1377 | .0788556 | -.006243 | .7307118 | .0476372 | .2402846 |
| Stddev | .013663 | .5154 | .0007505 | .000646 | .0053136 | .0070787 | .0015937 |
| %RSD | .3095643 | .5096361 | .9517509 | 10.35117 | .7271756 | 14.85962 | .6632607 |
| #1 | 4.416371 | 100.9515 | .0786856 | -.006987 | .7246360 | .0548358 | .2416765 |
| #2 | 4.398908 | 100.7413 | .0782047 | -.005824 | .7330099 | .0406848 | .2385461 |
| #3 | 4.425842 | 101.7204 | .0796765 | -.005918 | .7344895 | .0473912 | .2406312 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.798632 | 2.278856 | -.150819 | .0060917 | .6445430 | 7.092938 | .0202458 |
| Stddev | .081962 | .009129 | .001956 | .0005788 | .0079923 | .066058 | .0007191 |
| %RSD | 2.157674 | .4006128 | 1.296839 | 9.501408 | 1.239999 | .9313137 | 3.551785 |
| #1 | 3.767109 | 2.279047 | -.149473 | .0067338 | .6361294 | 7.039441 | .0210757 |
| #2 | 3.891676 | 2.269633 | -.149922 | .0059314 | .6520340 | 7.072600 | .0198566 |
| #3 | 3.737112 | 2.287889 | -.153063 | .0056099 | .6454657 | 7.166773 | .0198053 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5056-21DLX2 Acquired: 01/05/2025 18:54:45 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47D Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .3896218 | .3434083 | .0626492 |
| Stddev | .0030163 | .0021363 | .0035346 |
| %RSD | .7741678 | .6220773 | 5.641957 |
| | | | |
| #1 | .3865652 | .3423948 | .0642509 |
| #2 | .3897039 | .3419674 | .0650994 |
| #3 | .3925962 | .3458626 | .0585972 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1804.468 | 18077.61 | 1726.789 | 1325.224 | 1753.362 |
| Stddev | 3.791 | 48.12 | 9.967 | 5.678 | 1.823 |
| %RSD | .2100803 | .2662090 | .5771780 | .4284331 | .1039798 |
| | | | | | |
| #1 | 1800.297 | 18036.96 | 1734.733 | 1318.947 | 1751.293 |
| #2 | 1805.406 | 18065.11 | 1730.028 | 1330.002 | 1754.733 |
| #3 | 1807.702 | 18130.74 | 1715.606 | 1326.723 | 1754.061 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5056-20LDLX10 Acquired: 01/05/2025 18:58:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47L Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000282 | .0142251 | .0361075 | -.013807 | .0025001 | 5.891246 | .0664658 |
| Stddev | .001854 | .0032902 | .0039904 | .001496 | .0030813 | .064116 | .0006305 |
| %RSD | 657.6574 | 23.12944 | 11.05139 | 10.83725 | 123.2483 | 1.088329 | .9485802 |
| #1 | .000591 | .0156585 | .0404048 | -.015030 | .0017187 | 5.893594 | .0659929 |
| #2 | -.002412 | .0165555 | .0353987 | -.012139 | -.000115 | 5.825989 | .0662229 |
| #3 | .000975 | .0104614 | .0325190 | -.014251 | .005897 | 5.954156 | .0671816 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0007793 | .0001712 | 91.31079 | .0099922 | .0328350 | .0100392 | 16.44419 |
| Stddev | .0000950 | .0001081 | .39067 | .0000765 | .0007796 | .0085396 | .02371 |
| %RSD | 12.19565 | 63.14478 | .4278481 | .7657307 | 2.374289 | 85.06238 | .1441947 |
| #1 | .0008381 | .0000617 | 91.28247 | .0099096 | .0333452 | .0162729 | 16.42649 |
| #2 | .0008302 | .0002778 | 90.93506 | .0100607 | .0319376 | .0003057 | 16.43494 |
| #3 | .0006697 | .0001741 | 91.71486 | .0100062 | .0332222 | .0135391 | 16.47113 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .9404885 | 21.74819 | .0117032 | -.001408 | .1446390 | .0059560 | .0520332 |
| Stddev | .0022774 | .26565 | .0009003 | .001215 | .0438352 | .0154114 | .0006243 |
| %RSD | .2421456 | 1.221480 | 7.692766 | 86.30169 | 30.30662 | 258.7537 | 1.199721 |
| #1 | .9413171 | 21.76638 | .0109464 | -.002769 | .1199515 | .0111592 | .0519283 |
| #2 | .9379129 | 21.47392 | .0114644 | -.001024 | .1187150 | .0180924 | .0514680 |
| #3 | .9422356 | 22.00428 | .0126988 | -.000431 | .1952505 | -.011384 | .0527033 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7881051 | .4208719 | -.032248 | .0044046 | .1309474 | 1.477636 | .0035309 |
| Stddev | .1614057 | .0039049 | .003063 | .0008929 | .0060116 | .009649 | .0009191 |
| %RSD | 20.48023 | .9278165 | 9.498979 | 20.27062 | 4.590854 | .6530220 | 26.03092 |
| #1 | .8506335 | .4188783 | -.035327 | .0041017 | .1287138 | 1.484962 | .0042345 |
| #2 | .6047900 | .4183661 | -.029201 | .0037027 | .1263724 | 1.466703 | .0024910 |
| #3 | .9088917 | .4253712 | -.032215 | .0054095 | .1377561 | 1.481242 | .0038673 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5056-20LDLX10 Acquired: 01/05/2025 18:58:37 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47L Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0728288 | .0713482 | .0137761 |
| Stddev | .0008705 | .0014380 | .0025237 |
| %RSD | 1.195248 | 2.015475 | 18.31971 |
| | | | |
| #1 | .0736034 | .0713184 | .0109303 |
| #2 | .0729962 | .0699254 | .0146555 |
| #3 | .0718868 | .0728009 | .0157424 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1774.298 | 17680.49 | 1661.834 | 1301.510 | 1897.530 |
| Stddev | 4.094 | 46.31 | 6.721 | 4.146 | 5.198 |
| %RSD | .2307126 | .2619074 | .4044209 | .3185769 | .2739533 |
| | | | | | |
| #1 | 1778.910 | 17635.10 | 1655.982 | 1304.555 | 1902.245 |
| #2 | 1772.890 | 17678.71 | 1669.174 | 1303.187 | 1898.391 |
| #3 | 1771.094 | 17727.66 | 1660.347 | 1296.788 | 1891.955 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5056-22DLX2 Acquired: 01/05/2025 19:02:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47S Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0634011 | .0591974 | .1832728 | .0814331 | .0982662 | 30.11000 | 2.257992 |
| Stddev | .0020806 | .0030630 | .0043737 | .0050409 | .0025567 | .20916 | .008813 |
| %RSD | 3.281629 | 5.174219 | 2.386447 | 6.190198 | 2.601805 | .6946500 | .3903158 |
| #1 | .0616839 | .0557583 | .1797615 | .0843747 | .1002487 | 29.89280 | 2.254923 |
| #2 | .0657148 | .0616320 | .1818848 | .0756125 | .0991694 | 30.12713 | 2.251123 |
| #3 | .0628045 | .0602019 | .1881721 | .0843120 | .0953805 | 30.31006 | 2.267929 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0520990 | .0517864 | 437.6709 | .2491422 | .5695813 | .3079128 | 79.16121 |
| Stddev | .0003270 | .0001217 | 2.7282 | .0009532 | .0008062 | .0099468 | .51717 |
| %RSD | .6276162 | .2350710 | .6233400 | .3826107 | .1415429 | 3.230392 | .6533182 |
| #1 | .0517318 | .0516690 | 435.1058 | .2502403 | .5686934 | .2998345 | 78.56932 |
| #2 | .0522065 | .0519120 | 437.3698 | .2486579 | .5702675 | .3048813 | 79.38842 |
| #3 | .0523586 | .0517781 | 440.5372 | .2485283 | .5697829 | .3190226 | 79.52588 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.916075 | 101.4153 | .5882627 | .0306677 | .7272112 | .5527749 | .6878634 |
| Stddev | .031287 | .5133 | .0004428 | .0019938 | .0095940 | .0050893 | .0057045 |
| %RSD | .6364210 | .5061743 | .0752672 | 6.501430 | 1.319286 | .9206838 | .8293107 |
| #1 | 4.885127 | 100.8250 | .5884980 | .0303369 | .7170883 | .5511771 | .6897877 |
| #2 | 4.915407 | 101.6634 | .5877520 | .0328062 | .7361701 | .5584714 | .6923569 |
| #3 | 4.947690 | 101.7575 | .5885383 | .0288599 | .7283753 | .5486763 | .6814455 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.604838 | 2.266321 | -.156842 | .0052291 | .6473118 | 7.096906 | .0202783 |
| Stddev | .391456 | .008086 | .001288 | .0006529 | .0039692 | .066813 | .0021611 |
| %RSD | 10.85919 | .3567874 | .8211700 | 12.48642 | .6131786 | .9414323 | 10.65725 |
| #1 | 3.305000 | 2.257575 | -.155489 | .0051880 | .6461396 | 7.020270 | .0183991 |
| #2 | 4.047692 | 2.267864 | -.156983 | .0059015 | .6440607 | 7.127538 | .0226399 |
| #3 | 3.461823 | 2.273525 | -.158053 | .0045976 | .6517350 | 7.142911 | .0197960 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5056-22DLX2 Acquired: 01/05/2025 19:02:36 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHL47S Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .3864270 | .3434488 | .0657787 |
| Stddev | .0059372 | .0013643 | .0039583 |
| %RSD | 1.536430 | .3972346 | 6.017630 |
| | | | |
| #1 | .3891222 | .3418735 | .0677473 |
| #2 | .3905386 | .3442468 | .0683668 |
| #3 | .3796203 | .3442261 | .0612221 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1793.820 | 17977.51 | 1710.788 | 1308.222 | 1745.302 |
| Stddev | 2.608 | 69.40 | 12.476 | 8.673 | 1.211 |
| %RSD | .1453775 | .3860616 | .7292322 | .6629434 | .0693785 |
| | | | | | |
| #1 | 1794.994 | 17899.67 | 1725.032 | 1299.405 | 1744.854 |
| #2 | 1790.831 | 17999.95 | 1701.799 | 1308.518 | 1744.380 |
| #3 | 1795.634 | 18032.92 | 1705.535 | 1316.743 | 1746.673 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5062-01DLX4 Acquired: 01/05/2025 19:06:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK27 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0003315 | .0291052 | .0463776 | -.019746 | .0067459 | 15.55503 | .3109281 |
| Stddev | .0012940 | .0012754 | .0022110 | .004848 | .0043279 | .11796 | .0024239 |
| %RSD | 390.3925 | 4.381870 | 4.767398 | 24.55151 | 64.15601 | .7583345 | .7795852 |
| #1 | -.001078 | .0284685 | .0461969 | -.025120 | .0068430 | 15.67029 | .3098953 |
| #2 | .001466 | .0305735 | .0442626 | -.015701 | .0110243 | 15.56026 | .3136973 |
| #3 | .000606 | .0282735 | .0486735 | -.018417 | .0023702 | 15.43454 | .3091915 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0018711 | .0018835 | 444.8821 | .0339225 | .0581059 | .0242028 | 46.59526 |
| Stddev | .0001908 | .0000535 | 1.2408 | .0002798 | .0005654 | .0058646 | .01807 |
| %RSD | 10.19638 | 2.841321 | .2789031 | .8246756 | .9731058 | 24.23103 | .0387775 |
| #1 | .0019588 | .0018995 | 444.0737 | .0336324 | .0575865 | .0259500 | 46.57464 |
| #2 | .0016522 | .0019272 | 446.3107 | .0341906 | .0580231 | .0289953 | 46.60834 |
| #3 | .0020022 | .0018238 | 444.2619 | .0339447 | .0587082 | .0176632 | 46.60278 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.210783 | 13.20337 | .0461891 | -.003045 | .3389061 | .0335232 | .0888824 |
| Stddev | .007846 | .08437 | .0013651 | .000850 | .0128500 | .0063620 | .0011834 |
| %RSD | .1863335 | .6389840 | 2.955440 | 27.91056 | 3.791606 | 18.97777 | 1.331472 |
| #1 | 4.202946 | 13.25438 | .0450147 | -.002865 | .3256598 | .0371061 | .0902348 |
| #2 | 4.218639 | 13.24973 | .0458658 | -.003971 | .3397392 | .0261778 | .0880364 |
| #3 | 4.210765 | 13.10598 | .0476869 | -.002300 | .3513193 | .0372858 | .0883760 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.351431 | 1.285183 | -.080004 | .0048706 | .3317762 | 3.294230 | .0109719 |
| Stddev | .264107 | .003928 | .002443 | .0004562 | .0066370 | .020203 | .0006363 |
| %RSD | 7.880420 | .3056419 | 3.054115 | 9.367211 | 2.000451 | .6132699 | 5.799567 |
| #1 | 3.623028 | 1.288113 | -.082756 | .0053924 | .3378980 | 3.317557 | .0114595 |
| #2 | 3.095512 | 1.286717 | -.079170 | .0046725 | .3327080 | 3.282793 | .0102521 |
| #3 | 3.335752 | 1.280720 | -.078087 | .0045470 | .3247225 | 3.282341 | .0112041 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5062-01DLX4 Acquired: 01/05/2025 19:06:22 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK27 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2953142 | .1941929 | .0348947 |
| Stddev | .0056356 | .0008835 | .0035785 |
| %RSD | 1.908329 | .4549618 | 10.25516 |
| | | | |
| #1 | .2934641 | .1936156 | .0327698 |
| #2 | .3016423 | .1952100 | .0328880 |
| #3 | .2908363 | .1937530 | .0390262 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1797.665 | 18075.79 | 1715.109 | 1316.133 | 1806.600 |
| Stddev | 2.943 | 75.39 | 12.014 | 11.881 | 2.338 |
| %RSD | .1637313 | .4171049 | .7004728 | .9027490 | .1293881 |
| | | | | | |
| #1 | 1797.494 | 17989.75 | 1701.918 | 1305.503 | 1803.984 |
| #2 | 1800.690 | 18130.35 | 1725.423 | 1328.959 | 1808.483 |
| #3 | 1794.811 | 18107.25 | 1717.986 | 1313.937 | 1807.332 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5062-02DLX4 Acquired: 01/05/2025 19:10:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK28 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.004546 | .0223774 | .0432426 | -.015307 | .0047696 | 13.73040 | .2887735 |
| Stddev | .003999 | .0027116 | .0051443 | .010345 | .0015552 | .05061 | .0038552 |
| %RSD | 87.96984 | 12.11763 | 11.89639 | 67.58510 | 32.60627 | .3685989 | 1.335022 |
| #1 | -.003278 | .0194015 | .0449324 | -.005740 | .0045052 | 13.78049 | .2898100 |
| #2 | -.009026 | .0247085 | .0473294 | -.013895 | .0033635 | 13.73142 | .2920045 |
| #3 | -.001335 | .0230222 | .0374659 | -.026286 | .0064401 | 13.67928 | .2845060 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0015512 | .0014901 | 431.0490 | .0292987 | .0573946 | .0222896 | 40.95967 |
| Stddev | .0000789 | .0001611 | .5607 | .0006369 | .0008427 | .0056998 | .13487 |
| %RSD | 5.089271 | 10.81197 | .1300860 | 2.173825 | 1.468212 | 25.57146 | .3292722 |
| #1 | .0016068 | .0016715 | 430.5648 | .0286882 | .0583061 | .0157144 | 40.91561 |
| #2 | .0014608 | .0013637 | 431.6634 | .0292488 | .0566439 | .0253275 | 41.11106 |
| #3 | .0015859 | .0014352 | 430.9189 | .0299591 | .0572339 | .0258270 | 40.85235 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.105773 | 15.82855 | .0403438 | -.002950 | .3195227 | .0265008 | .0763970 |
| Stddev | .026458 | .06429 | .0006046 | .000839 | .0196625 | .0100089 | .0003299 |
| %RSD | .6444130 | .4061815 | 1.498569 | 28.44817 | 6.153715 | 37.76841 | .4317583 |
| #1 | 4.090676 | 15.82206 | .0407737 | -.002806 | .3407231 | .0376724 | .0763869 |
| #2 | 4.136323 | 15.89584 | .0406051 | -.003852 | .3159594 | .0183508 | .0767318 |
| #3 | 4.090320 | 15.76774 | .0396525 | -.002192 | .3018854 | .0234792 | .0760723 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.088087 | 1.197867 | -.066727 | .0046073 | .3492671 | 2.996857 | .0121127 |
| Stddev | .111158 | .006198 | .001926 | .0003423 | .0041096 | .024044 | .0009681 |
| %RSD | 3.599563 | .5173902 | 2.886207 | 7.429297 | 1.176632 | .8022977 | 7.992434 |
| #1 | 3.066099 | 1.192764 | -.064504 | .0045473 | .3445864 | 3.014953 | .0131694 |
| #2 | 2.989566 | 1.204764 | -.067785 | .0042990 | .3509314 | 3.006044 | .0119005 |
| #3 | 3.208595 | 1.196074 | -.067892 | .0049757 | .3522834 | 2.969574 | .0112684 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5062-02DLX4 Acquired: 01/05/2025 19:10:17 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHK28 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2940982 | .2158053 | .0390654 |
| Stddev | .0052313 | .0011974 | .0032967 |
| %RSD | 1.778764 | .5548378 | 8.438820 |
| | | | |
| #1 | .2889041 | .2161925 | .0360087 |
| #2 | .2940246 | .2167612 | .0425585 |
| #3 | .2993659 | .2144623 | .0386290 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1789.114 | 17876.49 | 1703.778 | 1305.200 | 1807.385 |
| Stddev | 7.132 | 57.89 | 10.190 | 11.386 | 7.246 |
| %RSD | .3986375 | .3238526 | .5980561 | .8723683 | .4009192 |
| | | | | | |
| #1 | 1780.893 | 17933.73 | 1702.966 | 1318.098 | 1799.449 |
| #2 | 1793.644 | 17817.96 | 1694.019 | 1296.541 | 1809.056 |
| #3 | 1792.804 | 17877.79 | 1714.349 | 1300.963 | 1813.650 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5079-06DLX4 Acquired: 01/05/2025 19:14:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLF4 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0024623 | .0288199 | .2500227 | -.030063 | .0031683 | 8.725927 | .0899963 |
| Stddev | .0042385 | .0073868 | .0010355 | .004242 | .0032564 | .079653 | .0009368 |
| %RSD | 172.1405 | 25.63085 | .4141496 | 14.10890 | 102.7819 | .9128366 | 1.040941 |
| #1 | .0011852 | .0213687 | .2507989 | -.026028 | .0065966 | 8.709855 | .0906358 |
| #2 | .0071925 | .0289505 | .2488470 | -.029676 | .0027916 | 8.655535 | .0904320 |
| #3 | -.000991 | .0361405 | .2504221 | -.034484 | .0001166 | 8.812391 | .0889209 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0011765 | .0020522 | 453.5804 | .0327712 | .0501650 | .0340144 | 30.44908 |
| Stddev | .0001570 | .0001377 | 1.4344 | .0008565 | .0000563 | .0124992 | .16014 |
| %RSD | 13.34652 | 6.709473 | .3162394 | 2.613582 | .1122396 | 36.74670 | .5259173 |
| #1 | .0011442 | .0020660 | 453.2203 | .0333471 | .0501919 | .0195816 | 30.59950 |
| #2 | .0013472 | .0019080 | 452.3603 | .0317869 | .0501002 | .0412159 | 30.28073 |
| #3 | .0010382 | .0021824 | 455.1605 | .0331795 | .0502027 | .0412457 | 30.46701 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.319341 | 181.2036 | .0304574 | .0003944 | .5622147 | .0113233 | .3448288 |
| Stddev | .014078 | 1.0591 | .0005683 | .0008479 | .0143931 | .0134290 | .0012077 |
| %RSD | .6069783 | .5844572 | 1.866000 | 214.9784 | 2.560075 | 118.5957 | .3502297 |
| #1 | 2.318456 | 182.0370 | .0298990 | .0003119 | .5628670 | .0020050 | .3448809 |
| #2 | 2.305727 | 180.0119 | .0304381 | -.000409 | .5475066 | .0052487 | .3460096 |
| #3 | 2.333841 | 181.5620 | .0310352 | .001281 | .5762707 | .0267163 | .3435959 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.574597 | 1.542485 | -.038922 | .0067168 | 4.728434 | 2.506208 | .0174584 |
| Stddev | .265632 | .003151 | .000935 | .0012067 | .013919 | .029335 | .0014703 |
| %RSD | 10.31740 | .2042747 | 2.402411 | 17.96496 | .2943733 | 1.170502 | 8.421959 |
| #1 | 2.286210 | 1.542419 | -.039750 | .0053898 | 4.741086 | 2.535573 | .0165548 |
| #2 | 2.809259 | 1.539368 | -.039110 | .0077482 | 4.713524 | 2.476903 | .0166653 |
| #3 | 2.628322 | 1.545668 | -.037908 | .0070124 | 4.730691 | 2.506148 | .0191550 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5079-06DLX4 Acquired: 01/05/2025 19:14:12 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLF4 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0943864 | .1849254 | .0274041 |
| Stddev | .0046885 | .0009738 | .0028837 |
| %RSD | 4.967312 | .5265787 | 10.52276 |
| | | | |
| #1 | .0892961 | .1849359 | .0280543 |
| #2 | .0953354 | .1839464 | .0242508 |
| #3 | .0985279 | .1858939 | .0299071 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1700.864 | 17111.59 | 1634.974 | 1241.762 | 1698.308 |
| Stddev | 3.238 | 55.91 | 10.417 | 1.939 | 1.914 |
| %RSD | .1903825 | .3267567 | .6371205 | .1561844 | .1127062 |
| | | | | | |
| #1 | 1697.224 | 17173.79 | 1623.683 | 1243.755 | 1698.351 |
| #2 | 1701.946 | 17065.49 | 1644.210 | 1239.881 | 1696.373 |
| #3 | 1703.423 | 17095.51 | 1637.030 | 1241.648 | 1700.201 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-09 Acquired: 01/05/2025 19:18:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLE7 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1685725 | -.017830 | 3.179756 | .0748254 | .0411728 | 73.11459 |
| Stddev | .0034272 | .000912 | .003003 | .0024766 | .0024173 | .01125 |
| %RSD | 2.033063 | 5.114198 | .0944471 | 3.309859 | 5.871008 | .0153922 |
| #1 | .1719862 | -.018024 | 3.176400 | .0774953 | .0427991 | 73.12000 |
| #2 | .1651320 | -.016837 | 3.182190 | .0743778 | .0383951 | 73.10165 |
| #3 | .1685995 | -.018629 | 3.180678 | .0726031 | .0423241 | 73.12211 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 2.033230 | .0070767 | .0121447 | 149.0253 | .4382281 | .1137628 |
| Stddev | .002939 | .0001804 | .0001864 | .1484 | .0013810 | .0003372 |
| %RSD | .1445497 | 2.548769 | 1.535180 | .0996095 | .3151300 | .2964257 |
| #1 | 2.029837 | .0072775 | .0119469 | 149.1861 | .4398162 | .1135444 |
| #2 | 2.034890 | .0069285 | .0123171 | 148.8935 | .4373094 | .1135928 |
| #3 | 2.034963 | .0070242 | .0121702 | 148.9965 | .4375586 | .1141512 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4396311 | 168.2639 | 9.159190 | 31.92820 | .2126438 | -.006695 |
| Stddev | .0104030 | .2091 | .024274 | .30873 | .0002944 | .000985 |
| %RSD | 2.366293 | .1242443 | .2650269 | .9669550 | .1384727 | 14.71573 |
| #1 | .4510339 | 168.2167 | 9.175349 | 32.28461 | .2129837 | -.006587 |
| #2 | .4372013 | 168.4925 | 9.170945 | 31.74339 | .2124654 | -.005768 |
| #3 | .4306581 | 168.0825 | 9.131276 | 31.75661 | .2124824 | -.007730 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7977827 | .1786651 | 2.436224 | 10.02317 | F 19.88435 | -.341293 |
| Stddev | .0053980 | .0215124 | .015190 | .10135 | .01625 | .003277 |
| %RSD | .6766198 | 12.04063 | .6235219 | 1.011162 | .0817317 | .9601980 |
| #1 | .8002717 | .1956160 | 2.421376 | 10.14011 | 19.89715 | -.343487 |
| #2 | .8014871 | .1859148 | 2.435560 | 9.96880 | 19.86606 | -.342867 |
| #3 | .7915893 | .1544644 | 2.451735 | 9.96061 | 19.88982 | -.337526 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-09 Acquired: 01/05/2025 19:18:03 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLE7 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0114794 | 4.536048 | 11.34233 | .1688308 | .8972178 | .1324775 |
| Stddev | .0006503 | .011114 | .07302 | .0010395 | .0037980 | .0009696 |
| %RSD | 5.665331 | .2450056 | .6437650 | .6156976 | .4233126 | .7318734 |
| #1 | .0111200 | 4.541984 | 11.39550 | .1677376 | .8936150 | .1324499 |
| #2 | .0122301 | 4.542934 | 11.37242 | .1689481 | .8968536 | .1334606 |
| #3 | .0110881 | 4.523227 | 11.25908 | .1698067 | .9011849 | .1315220 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1320848 |
| Stddev | .0045040 |
| %RSD | 3.409961 |
| #1 | .1271831 |
| #2 | .1360411 |
| #3 | .1330301 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2112.951 | 21154.47 | 2000.322 | 1552.069 | 1879.382 |
| Stddev | 3.844 | 113.70 | 8.942 | 8.507 | 3.899 |
| %RSD | .1819267 | .5374913 | .4470089 | .5481104 | .2074796 |
| #1 | 2114.516 | 21206.82 | 1994.327 | 1560.110 | 1882.113 |
| #2 | 2115.766 | 21232.57 | 1996.040 | 1552.937 | 1881.116 |
| #3 | 2108.571 | 21024.02 | 2010.600 | 1543.162 | 1874.916 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-13 Acquired: 01/05/2025 19:21:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLH6 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1180167 | -.015823 | 2.415547 | .0587247 | .0277868 | 60.64276 |
| Stddev | .0037961 | .002383 | .007510 | .0051134 | .0025068 | .44577 |
| %RSD | 3.216593 | 15.05853 | .3109148 | 8.707428 | 9.021432 | .7350674 |
| #1 | .1220884 | -.016804 | 2.408975 | .0562821 | .0249469 | 60.13467 |
| #2 | .1173866 | -.013106 | 2.423733 | .0646013 | .0296914 | 60.96818 |
| #3 | .1145750 | -.017558 | 2.413933 | .0552906 | .0287222 | 60.82542 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.222860 | .0054817 | .0059188 | 105.6305 | .1883239 | .0963206 |
| Stddev | .008197 | .0000828 | .0000521 | .8889 | .0005586 | .0010072 |
| %RSD | .6702877 | 1.511048 | .8804337 | .8414864 | .2966212 | 1.045696 |
| #1 | 1.218940 | .0054643 | .0058822 | 104.7925 | .1882811 | .0963903 |
| #2 | 1.217359 | .0054089 | .0059785 | 105.5364 | .1889027 | .0972911 |
| #3 | 1.232281 | .0055718 | .0058959 | 106.5627 | .1877880 | .0952803 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3321228 | 129.6802 | 6.612234 | 34.07593 | .1523894 | -.005745 |
| Stddev | .0019859 | .8037 | .052720 | .37945 | .0006147 | .001326 |
| %RSD | .5979530 | .6197348 | .7973132 | 1.113547 | .4034026 | 23.07440 |
| #1 | .3336802 | 128.7590 | 6.556038 | 33.66171 | .1526603 | -.006640 |
| #2 | .3328017 | 130.0439 | 6.620061 | 34.15932 | .1516858 | -.004222 |
| #3 | .3298864 | 130.2377 | 6.660603 | 34.40674 | .1528223 | -.006374 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5689633 | .1368751 | 1.453707 | 7.882866 | F 10.07331 | -.254499 |
| Stddev | .0143434 | .0119708 | .000983 | .182102 | .01520 | .002649 |
| %RSD | 2.520965 | 8.745748 | .0675982 | 2.310097 | .1508918 | 1.040911 |
| #1 | .5750125 | .1234057 | 1.454048 | 7.715450 | 10.08235 | -.255340 |
| #2 | .5792911 | .1462986 | 1.452599 | 7.856391 | 10.08182 | -.251532 |
| #3 | .5525862 | .1409211 | 1.454474 | 8.076756 | 10.05576 | -.256626 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-13 Acquired: 01/05/2025 19:21:51 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLH6 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0077181 | 2.589530 | 11.21604 | .0843057 | .7789526 | .0499678 |
| Stddev | .0017942 | .009207 | .04395 | .0015295 | .0018632 | .0002431 |
| %RSD | 23.24655 | .3555535 | .3918750 | 1.814273 | .2391980 | .4864484 |
| | | | | | | |
| #1 | .0062238 | 2.584482 | 11.24717 | .0844885 | .7770147 | .0498515 |
| #2 | .0097080 | 2.583950 | 11.16576 | .0857357 | .7807309 | .0502472 |
| #3 | .0072225 | 2.600157 | 11.23518 | .0826931 | .7791122 | .0498047 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1016595 |
| Stddev | .0053351 |
| %RSD | 5.248049 |
| | |
| #1 | .0975111 |
| #2 | .1076779 |
| #3 | .0997894 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2113.275 | 21150.02 | 1984.039 | 1554.786 | 1901.905 |
| Stddev | 9.517 | 79.31 | 2.896 | 4.492 | 7.408 |
| %RSD | .4503310 | .3749658 | .1459891 | .2889033 | .3894973 |
| | | | | | |
| #1 | 2105.438 | 21209.56 | 1980.953 | 1554.374 | 1897.194 |
| #2 | 2110.524 | 21059.99 | 1984.466 | 1550.514 | 1898.077 |
| #3 | 2123.865 | 21180.50 | 1986.698 | 1559.469 | 1910.443 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-14 Acquired: 01/05/2025 19:25:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLH7 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0877025 | -.008438 | 1.185715 | .0524675 | .0258619 | 62.03199 |
| Stddev | .0031718 | .002316 | .005353 | .0047769 | .0035879 | .17935 |
| %RSD | 3.616484 | 27.44090 | .4514778 | 9.104575 | 13.87336 | .2891237 |
| #1 | .0843968 | -.010527 | 1.188141 | .0562684 | .0225753 | 61.96559 |
| #2 | .0907207 | -.008839 | 1.179579 | .0471053 | .0253209 | 61.89531 |
| #3 | .0879900 | -.005949 | 1.189426 | .0540289 | .0296896 | 62.23507 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .9844941 | .0052980 | .0051887 | 134.0362 | .1399359 | .0966577 |
| Stddev | .0035910 | .0000706 | .0000324 | .1469 | .0005871 | .0007726 |
| %RSD | .3647546 | 1.333403 | .6249566 | .1095709 | .4195703 | .7993046 |
| #1 | .9882812 | .0052892 | .0051946 | 134.0863 | .1400299 | .0958911 |
| #2 | .9811382 | .0053726 | .0051537 | 133.8708 | .1393074 | .0966458 |
| #3 | .9840629 | .0052321 | .0052178 | 134.1515 | .1404703 | .0974362 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2952080 | 124.9918 | 5.530241 | 33.81063 | .1492004 | -.007751 |
| Stddev | .0040270 | .4165 | .011097 | .10590 | .0008653 | .001003 |
| %RSD | 1.364116 | .3332165 | .2006658 | .3132092 | .5799802 | 12.94570 |
| #1 | .2909162 | 125.2925 | 5.541889 | 33.69329 | .1498193 | -.006594 |
| #2 | .2989037 | 124.5164 | 5.529040 | 33.89910 | .1495702 | -.008376 |
| #3 | .2958040 | 125.1665 | 5.519792 | 33.83951 | .1482116 | -.008283 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6866638 | .1365708 | .8878069 | 6.565967 | F 14.93055 | -.245852 |
| Stddev | .0193932 | .0058336 | .0051376 | .056557 | .00667 | .001325 |
| %RSD | 2.824260 | 4.271478 | .5786827 | .8613680 | .0446513 | .5388386 |
| #1 | .6978510 | .1366849 | .8897110 | 6.630102 | 14.93741 | -.245602 |
| #2 | .6642704 | .1306810 | .8917207 | 6.523235 | 14.92409 | -.244670 |
| #3 | .6978698 | .1423465 | .8819891 | 6.544564 | 14.93015 | -.247284 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-14 Acquired: 01/05/2025 19:25:40 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLH7 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0071957 | 2.795418 | 10.88134 | .0524656 | .7434090 | .1051919 |
| Stddev | .0008388 | .004176 | .05271 | .0018085 | .0039526 | .0004555 |
| %RSD | 11.65672 | .1493763 | .4844225 | 3.446925 | .5316913 | .4330324 |
| #1 | .0066137 | 2.797114 | 10.90297 | .0545410 | .7388729 | .1052558 |
| #2 | .0068162 | 2.790661 | 10.82125 | .0516275 | .7461147 | .1056122 |
| #3 | .0081571 | 2.798479 | 10.91979 | .0512282 | .7452393 | .1047079 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1026692 |
| Stddev | .0027586 |
| %RSD | 2.686841 |
| #1 | .1014519 |
| #2 | .1058270 |
| #3 | .1007286 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2290.333 | 22945.45 | 2155.477 | 1672.328 | 1922.784 |
| Stddev | 5.990 | 103.34 | 14.342 | 8.389 | 5.055 |
| %RSD | .2615131 | .4503587 | .6653539 | .5016518 | .2629024 |
| #1 | 2295.672 | 22828.90 | 2148.272 | 1662.677 | 1925.459 |
| #2 | 2283.856 | 23025.88 | 2171.992 | 1676.431 | 1916.954 |
| #3 | 2291.472 | 22981.58 | 2146.165 | 1677.877 | 1925.939 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-15 Acquired: 01/05/2025 19:29:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLH7 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0508157 | -.009388 | .4156528 | .0501725 | .0288015 | 59.02992 |
| Stddev | .0014309 | .001080 | .0062130 | .0046669 | .0052824 | .35415 |
| %RSD | 2.815816 | 11.50699 | 1.494748 | 9.301759 | 18.34060 | .5999498 |
| #1 | .0522859 | -.010622 | .4087849 | .0553549 | .0300125 | 58.68602 |
| #2 | .0507336 | -.008614 | .4172909 | .0463017 | .0230189 | 59.01025 |
| #3 | .0494276 | -.008928 | .4208825 | .0488610 | .0333733 | 59.39350 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6504747 | .0050929 | .0028159 | 189.2021 | .0978274 | .1003494 |
| Stddev | .0024580 | .0000811 | .0000026 | .8305 | .0005300 | .0009787 |
| %RSD | .3778800 | 1.592204 | .0904981 | .4389667 | .5418166 | .9752627 |
| #1 | .6510055 | .0051496 | .0028167 | 188.2944 | .0982669 | .0996839 |
| #2 | .6477946 | .0051289 | .0028180 | 189.3879 | .0972387 | .1014732 |
| #3 | .6526239 | .0050000 | .0028130 | 189.9240 | .0979765 | .0998913 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2419606 | 133.1225 | 3.652735 | 54.99871 | .1560826 | -.010038 |
| Stddev | .0078112 | .9600 | .015607 | .41818 | .0013751 | .000474 |
| %RSD | 3.228293 | .7211596 | .4272759 | .7603400 | .8810009 | 4.719897 |
| #1 | .2509261 | 132.1461 | 3.638075 | 54.54544 | .1560060 | -.009971 |
| #2 | .2383319 | 133.1561 | 3.650988 | 55.08118 | .1574944 | -.009601 |
| #3 | .2366238 | 134.0653 | 3.669143 | 55.36951 | .1547474 | -.010542 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .9278525 | .1271796 | .6025327 | 7.286968 | F 10.53464 | -.269580 |
| Stddev | .0050256 | .0105215 | .0035742 | .117064 | .01805 | .002524 |
| %RSD | .5416374 | 8.272986 | .5931931 | 1.606483 | .1713169 | .9362242 |
| #1 | .9335094 | .1207822 | .5984105 | 7.157714 | 10.51403 | -.269496 |
| #2 | .9261452 | .1393230 | .6044192 | 7.317331 | 10.54762 | -.272145 |
| #3 | .9239031 | .1214335 | .6047683 | 7.385859 | 10.54228 | -.267100 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: P5080-15 Acquired: 01/05/2025 19:29:30 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: MBHLH7 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0060138 | 1.438516 | 10.39822 | .0272830 | .8225294 | .1164339 |
| Stddev | .0008215 | .010355 | .06670 | .0028684 | .0078562 | .0005696 |
| %RSD | 13.65977 | .7198297 | .6414421 | 10.51345 | .9551317 | .4892022 |
| #1 | .0060318 | 1.432885 | 10.32140 | .0302970 | .8307145 | .1160908 |
| #2 | .0051835 | 1.432196 | 10.43183 | .0245867 | .8150496 | .1161194 |
| #3 | .0068262 | 1.450466 | 10.44142 | .0269653 | .8218240 | .1170914 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | .1223972 |
| Stddev | .0044502 |
| %RSD | 3.635849 |
| #1 | .1178073 |
| #2 | .1226913 |
| #3 | .1266931 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 2151.386 | 21620.02 | 2041.261 | 1577.006 | 1846.225 |
| Stddev | 4.278 | 65.93 | 16.336 | 7.766 | 4.900 |
| %RSD | .1988296 | .3049662 | .8002880 | .4924256 | .2654213 |
| #1 | 2150.866 | 21692.99 | 2059.015 | 1585.958 | 1846.935 |
| #2 | 2147.392 | 21602.35 | 2037.904 | 1572.979 | 1841.009 |
| #3 | 2155.899 | 21564.72 | 2026.864 | 1572.081 | 1850.732 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCV113 Acquired: 01/05/2025 19:33:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV113 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 5.043983 | 4.904029 | 25.09041 | 5.016699 | 4.973851 | 406.9729 |
| Stddev | .020903 | .011139 | .02513 | .005732 | .009632 | 1.6929 |
| %RSD | .4144160 | .2271398 | .1001740 | .1142652 | .1936607 | .4159809 |
| | | | | | | |
| #1 | 5.052108 | 4.914816 | 25.11883 | 5.017343 | 4.967158 | 408.8997 |
| #2 | 5.020238 | 4.904704 | 25.08127 | 5.022082 | 4.969505 | 406.2953 |
| #3 | 5.059604 | 4.892568 | 25.07112 | 5.010672 | 4.984891 | 405.7238 |

| Elem | Ba4934 | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 10.35620 | .5167023 | 2.525922 | 414.6199 | 15.82254 | 2.538429 |
| Stddev | .02728 | .0034610 | .001266 | .9736 | .02274 | .004811 |
| %RSD | .2634443 | .6698318 | .0501132 | .2348282 | .1437283 | .1895079 |
| | | | | | | |
| #1 | 10.38768 | .5188428 | 2.527373 | 415.7345 | 15.84254 | 2.543894 |
| #2 | 10.34152 | .5127093 | 2.525042 | 414.1904 | 15.79780 | 2.534836 |
| #3 | 10.33940 | .5185548 | 2.525351 | 413.9349 | 15.82729 | 2.536556 |

| Elem | Cu3247 | Fe2598 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 15.46847 | 412.6360 | 15.25476 | 409.7293 | 2.546919 | 1.280254 |
| Stddev | .07371 | 2.6654 | .11564 | 1.9899 | .003246 | .002771 |
| %RSD | .4765494 | .6459415 | .7580754 | .4856597 | .1274598 | .2164322 |
| | | | | | | |
| #1 | 15.55226 | 415.6819 | 15.38322 | 412.0137 | 2.550660 | 1.277178 |
| #2 | 15.43953 | 410.7308 | 15.15897 | 408.3725 | 2.544835 | 1.281031 |
| #3 | 15.41362 | 411.4954 | 15.22208 | 408.8018 | 2.545264 | 1.282553 |

| Elem | Na8183 | V_2924 | Zn2138 | K_7698 | P_1774 | B_2496 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 421.6764 | 2.542543 | 14.90985 | 157.2438 | 5.050001 | F 4.475544 |
| Stddev | 4.4262 | .003209 | .03524 | .8923 | .005566 | .030023 |
| %RSD | 1.049662 | .1262148 | .2363331 | .5674432 | .1102242 | .6708177 |
| | | | | | | |
| #1 | 425.1566 | 2.539420 | 14.91354 | 158.1804 | 5.047867 | 4.493569 |
| #2 | 416.6948 | 2.545832 | 14.94309 | 156.4037 | 5.045818 | 4.440886 |
| #3 | 423.1778 | 2.542378 | 14.87291 | 157.1473 | 5.056319 | 4.492178 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCV113 Acquired: 01/05/2025 19:33:19 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCV113 Custom ID2: Custom ID3:
Comment:

| Elem | Mo2020 | S_1820 | Si2516 | Sn1899 | Ti3361 | Sr4077 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.923539 | 5.084866 | 5.077128 | 5.088413 | 5.120563 | 4.870689 |
| Stddev | .003477 | .011247 | .043047 | .005335 | .041658 | .024424 |
| %RSD | .0706167 | .2211915 | .8478670 | .1048524 | .8135469 | .5014393 |
| | | | | | | |
| #1 | 4.919660 | 5.097566 | 5.108988 | 5.093412 | 5.164305 | 4.898864 |
| #2 | 4.924582 | 5.080873 | 5.028156 | 5.082795 | 5.116025 | 4.855542 |
| #3 | 4.926375 | 5.076161 | 5.094241 | 5.089031 | 5.081360 | 4.857660 |

| Elem | Li6707 |
|---|---|
| Units | ppm |
| Avg | 5.166556 |
| Stddev | .017653 |
| %RSD | .3416806 |
| | |
| #1 | 5.186937 |
| #2 | 5.156652 |
| #3 | 5.156078 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1476.953 | 15642.05 | 1540.682 | 1078.422 | 1583.711 |
| Stddev | 3.837 | 41.02 | 10.422 | 3.653 | 2.464 |
| %RSD | .2597794 | .2622157 | .6764739 | .3387754 | .1556016 |
| | | | | | |
| #1 | 1480.870 | 15594.80 | 1532.427 | 1077.462 | 1584.918 |
| #2 | 1473.202 | 15668.46 | 1552.394 | 1075.344 | 1580.875 |
| #3 | 1476.786 | 15662.90 | 1537.226 | 1082.460 | 1585.339 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCB113 Acquired: 01/05/2025 19:37:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB113 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.006269 | -.003791 | .0010329 | .0087307 | .0005054 | -.003112 | -.003252 |
| Stddev | .002498 | .003853 | .0032536 | .0029299 | .0008309 | .026241 | .003819 |
| %RSD | 39.84205 | 101.6525 | 314.9821 | 33.55886 | 164.3786 | 843.1132 | 117.4374 |
| #1 | -.006723 | -.007378 | .0007918 | .0053752 | .0009605 | -.020213 | -.001408 |
| #2 | -.008507 | -.004277 | -.002093 | .0100344 | .0010094 | .027100 | -.000705 |
| #3 | -.003575 | .000283 | .004400 | .0107825 | -.000454 | -.016224 | -.007642 |

| Elem | Be2348 | Cd2144 | Ca3736 | Cr2677 | Co2286 | Cu3247 | Fe2598 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0000692 | -.000093 | .0549293 | .0000471 | .0000591 | -.012459 | .0056215 |
| Stddev | .0002018 | .000070 | .0178161 | .0003222 | .0003259 | .013952 | .0474716 |
| %RSD | 291.7261 | 75.20318 | 32.43455 | 683.6338 | 551.4134 | 111.9796 | 844.4599 |
| #1 | .0000682 | -.000014 | .0752345 | -.000315 | .0004131 | -.027310 | -.047427 |
| #2 | -.000132 | -.000116 | .0419159 | .000302 | -.000228 | .000373 | .020190 |
| #3 | .000271 | -.000148 | .0476373 | .000154 | -.000007 | -.010439 | .044102 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na8183 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0009914 | -.031582 | .0000493 | .0001282 | .1692421 | -.009088 | .0037938 |
| Stddev | .0009277 | .188609 | .0008099 | .0004348 | .0040028 | .007399 | .0009078 |
| %RSD | 93.57627 | 597.2038 | 1644.037 | 339.1981 | 2.365158 | 81.41708 | 23.92787 |
| #1 | .0020183 | .141683 | -.000629 | -.000058 | .1738620 | -.001703 | .0047393 |
| #2 | .0002138 | -.232485 | .000946 | -.000182 | .1668108 | -.016502 | .0037128 |
| #3 | .0007421 | -.003944 | -.000169 | .000625 | .1670533 | -.009060 | .0029292 |

| Elem | K_7698 | P_1774 | B_2496 | Mo2020 | S_1820 | Si2516 | Sn1899 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1961844 | -.002124 | .0116049 | -.000231 | -.000178 | -.000635 | -.001017 |
| Stddev | .1693356 | .001578 | .0011486 | .000315 | .007186 | .000598 | .001238 |
| %RSD | 86.31449 | 74.29298 | 9.897835 | 136.5288 | 4035.677 | 94.23756 | 121.7557 |
| #1 | .3499806 | -.001230 | .0122035 | -.000524 | .000627 | -.001314 | .000305 |
| #2 | .2238550 | -.001196 | .0123306 | .000103 | .006571 | -.000407 | -.002150 |
| #3 | .0147177 | -.003946 | .0102806 | -.000272 | -.007732 | -.000184 | -.001205 |

Reviewed By:Mohan
On:1/6/2025 10:45:56 AM
Inst Id :P5

Sample Name: CCB113 Acquired: 01/05/2025 19:37:05 Type: Unk
Method: SFAM01.1 INSTRUMENT P5 WITH 6 POINT ICAL-2(v72) Mode: CONC Corr. Factor: 1.000000
User: Kareem Custom ID1: CCB113 Custom ID2: Custom ID3:
Comment:

| Elem | Ti3361 | Sr4077 | Li6707 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.007286 | .0002811 | .0122884 |
| Stddev | .003630 | .0003826 | .0023101 |
| %RSD | 49.81296 | 136.1123 | 18.79896 |
| | | | |
| #1 | -.011009 | .0006588 | .0096763 |
| #2 | -.007092 | .0002908 | .0140626 |
| #3 | -.003758 | -.000106 | .0131263 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1782.001 | 17886.28 | 1665.067 | 1313.986 | 1998.739 |
| Stddev | 2.384 | 54.53 | 5.880 | 1.809 | 3.092 |
| %RSD | .1337635 | .3048463 | .3531634 | .1376458 | .1547030 |
| | | | | | |
| #1 | 1779.249 | 17948.78 | 1662.688 | 1315.935 | 1997.336 |
| #2 | 1783.425 | 17861.58 | 1671.764 | 1313.660 | 2002.284 |
| #3 | 1783.329 | 17848.47 | 1660.748 | 1312.363 | 1996.597 |

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# Prep Standard - Chemical Standard Summary

**Order ID :** P5055

**Test :** Metals CLP Full

**Prepbatch ID :** PB165466,

**Sequence ID/Qc Batch ID:** LB133990,LB134161,LB134162,

**Standard ID :**
MP83498,MP83500,MP83501,MP83502,MP83503,MP83504,MP83505,MP83506,MP83507,MP83508,MP83509,MP835
10,MP83511,MP83512,MP83513,MP83514,MP83619,MP83726,MP83745,

**Chemical ID :**
M5130,M5218,M5223,M5289,M5295,M5296,M5390,M5393,M5429,M5473,M5496,M5497,M5498,M5513,M5515,M5519
,M5658,M5697,M5698,M5768,M5769,M5798,M5799,M5800,M5801,M5802,M5806,M5815,M5816,M5817,M5818,M581
9,M5820,M5875,M5959,M5960,M5962,M5970,M5976,M5978,M5982,M5985,M5990,M5999,M6021,M6023,M6025,M60
28,M6030,M6121,M6125,M6126,W3112,

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 169 | 1:1HNO3 | MP83498 | 12/09/2024 | 01/03/2025 | Janvi Patel | None | None | Sarabjit Jaswal 12/09/2024 |

**FROM** 1250.00000ml of M6126 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 902 | ICP AES CAL BLK ( SO/ICB/CCB) | MP83500 | 12/06/2024 | 01/06/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/09/2024 |

**FROM** 125.00000ml of M6121 + 2350.00000ml of W3112 + 25.00000ml of M6126 = Final Quantity: 2500.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 2480 | ICP AES STD 6 ISM01.3 | MP83501 | 12/06/2024 | 01/06/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/09/2024 |

**FROM** 4.00000ml of M5289 + 4.00000ml of M5498 + 4.00000ml of M5515 + 4.00000ml of M5768 + 4.00000ml of M5806 + 30.00000ml of MP83500 = Final Quantity: 50.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1004 | ICPAES ISM01.2 (S5) | MP83502 | 12/06/2024 | 01/06/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/09/2024 |

**FROM** 0.25000ml of M5798 + 0.50000ml of M5429 + 0.50000ml of M5473 + 0.50000ml of M5815 + 0.50000ml of M5817 + 12.50000ml of M5519 + 12.50000ml of M5698 + 12.50000ml of M5806 + 12.50000ml of M5819 + 13.75000ml of M5697 + 14.50000ml of M5496 + 14.50000ml of M5515 + 14.50000ml of M5658 + 2.00000ml of M5513 + 22.50000ml of M5497 + 22.50000ml of M5768 + 5.00000ml of M5296 + 5.00000ml of M5393 + 5.00000ml of M5802 + 5.00000ml of M5818 + 5.00000ml of M5875 + 303.50000ml of MP83500 = Final Quantity: 500.000 ml

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Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1005 | ICPAES ISM01.2(S4) | MP83503 | 12/09/2024 | 01/06/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/09/2024 |

**FROM** 250.00000ml of MP83500 + 250.00000ml of MP83502 = Final Quantity: 500.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1007 | ICPAES ISM01.2(S3) | MP83504 | 12/09/2024 | 01/06/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/09/2024 |

**FROM** 25.00000ml of MP83502 + 75.00000ml of MP83500 = Final Quantity: 100.000 ml

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Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1008 | ICPAES ISM01.2(S2) | MP83505 | 12/09/2024 | 01/06/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/09/2024 |

**FROM** 12.50000ml of MP83502 + 87.50000ml of MP83500 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 994 | ICPAES ISM01.2 S1 (CONC.) | MP83506 | 12/09/2024 | 01/06/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/09/2024 |

**FROM** 0.02000ml of M5815 + 0.03000ml of M5429 + 0.10000ml of M5798 + 0.10000ml of M6028 + 0.14000ml of M5799 + 0.20000ml of M5473 + 0.20000ml of M5515 + 0.20000ml of M5658 + 0.20000ml of M5801 + 0.20000ml of M5817 + 0.20000ml of M5976 + 0.20000ml of M6025 + 0.20000ml of M6030 + 0.30000ml of M5698 + 0.40000ml of M5496 + 0.50000ml of M5697 + 0.50000ml of M6023 + 0.70000ml of M5962 + 0.80000ml of M5960 + 1.00000ml of M5800 + 1.00000ml of M6021 + 1.20000ml of M5802 + 1.20000ml of M5819 + 10.00000ml of M5498 + 10.00000ml of M5519 + 10.00000ml of M5769 + 10.00000ml of M5806 + 10.00000ml of M5818 + 2.00000ml of M5978 + 4.00000ml of M5390 + 34.24000ml of MP83500 = Final Quantity: 100.000 ml

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Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1003 | ICPAES ISM01.2 S1 | MP83507 | 12/09/2024 | 01/06/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/09/2024 |

**FROM** 0.50000ml of MP83506 + 99.50000ml of MP83500 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 2054 | ICV-ICPAES | MP83508 | 12/09/2024 | 01/06/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/09/2024 |

**FROM** 0.50000ml of M5218 + 0.50000ml of M5816 + 0.50000ml of M5820 + 0.50000ml of M5970 + 0.50000ml of M5982 + 10.00000ml of M5295 + 87.50000ml of MP83500 = Final Quantity: 100.000 ml

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Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 904 | ICP AES ICSA SOLN | MP83509 | 12/09/2024 | 01/06/2025 | Kareem Khairalla | None | METALS_PIPETTE_3 (A) | Sarabjit Jaswal 12/09/2024 |

**FROM** 10.00000ml of M5130 + 90.00000ml of MP83500 = Final Quantity: 250.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 905 | ICP AES ICSAB SOLN | MP83510 | 12/09/2024 | 01/06/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/09/2024 |

**FROM** 10.00000ml of M5130 + 10.00000ml of M5223 + 80.00000ml of MP83500 = Final Quantity: 250.000 ml

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Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1119 | ICPAES ISM01.2(CCV) | MP83511 | 12/09/2024 | 01/06/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/09/2024 |

**FROM** 0.75000ml of M5497 + 0.75000ml of M5769 + 1.22500ml of M5496 + 1.25000ml of M5515 + 1.25000ml of M5806 + 19.77500ml of MP83500 + 25.00000ml of MP83502 = Final Quantity: 50.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 921 | ICPAES SPIKE SOL#6 | MP83512 | 12/09/2024 | 01/06/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/09/2024 |

**FROM** 2.50000ml of M5962 + 50.00000ml of M5990 + 50.00000ml of M5999 + 147.50000ml of MP83500 = Final Quantity: 250.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 919 | ICP AES INTERNAL STD | MP83513 | 12/09/2024 | 01/06/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/09/2024 |

**FROM** 1.00000ml of M5959 + 10.00000ml of M5985 + 1969.00000ml of W3112 + 20.00000ml of M6126 = Final Quantity: 2000.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 513 | RINSE SOLN | MP83514 | 12/09/2024 | 01/06/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 12/09/2024 |

**FROM** 200.00000ml of M6126 + 9800.00000ml of W3112 = Final Quantity: 10000.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1122 | ICPMS CALIB BLANK(S0/ICB/CCB) | MP83619 | 12/13/2024 | 01/07/2025 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 12/17/2024 |

**FROM** 25.00000ml of M6121 + 4925.00000ml of W3112 + 50.00000ml of M6126 = Final Quantity: 5000.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3559 | SE 100PPM | MP83726 | 12/18/2024 | 01/06/2025 | Sarabjit Jaswal | None | None | Mohan Bera 12/20/2024 |

**FROM** 1.00000ml of M5962 + 9.00000ml of MP83500 = Final Quantity: 10.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1905 | TL 10PPM | MP83745 | 12/23/2024 | 01/07/2025 | Sarabjit Jaswal | None | None | Mohan Bera 12/23/2024 |

**FROM** 0.10000ml of M6023 + 9.90000ml of MP83619 = Final Quantity: 10.000 ml

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| EPA | PART A / ICSA ( ICP ) STOCK SOLN | ICSA-1211 | 01/31/2025 | 05/20/2024 / jaswal | 04/20/2021 / bin | M5130 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | CHEM-QC-4 / CHEM-QC-4, Second Source, 1000 ug/ml, B, Mo, Si, Sn, Ti | S2-MEB711674 | 11/02/2026 | 07/01/2022 / bin | 09/10/2021 / bin | M5218 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| EPA | PART B / ICSAB ( ICP ) STOCK SOLN | ICSB-0710 | 01/31/2025 | 05/20/2024 / jaswal | 04/20/2021 / bin | M5223 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58113 / Aluminum (Al) 10,000PPM | 070622 | 07/06/2025 | 09/02/2022 / jaswal | 07/12/2022 / jaswal | M5289 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| EPA | ICV-1 / ICV ( ICP/ICPMS ) STOCK SOLN | ICV-1014 | 02/05/2025 | 08/07/2024 / jaswal | 04/20/2021 / bin | M5295 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | Z9651Q / CHEM-CLP-4/.25L | S2-MEB711673 | 11/02/2026 | 09/19/2022 / jaswal | 08/20/2022 / jaswal | M5296 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57056 / Ba, 1000 PPM, 125 ml | 072122 | 07/21/2025 | 08/07/2024 / jaswal | 09/18/2022 / bin | M5390 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | CLPP-CAL-3 / CLP CAL SOLUTION #3, 125mL | T2-MEB714159 | 01/13/2027 | 10/12/2022 / bin | 09/19/2022 / bin | M5393 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57103 / Li, 10000 PPM, 125 ml | 070622 | 07/06/2025 | 01/30/2023 / bin | 01/26/2023 / bin | M5429 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57138 / Sr, 10000 PPM, 125 ml | 082922 | 08/29/2025 | 03/16/2023 / jaswal | 03/16/2023 / jaswal | M5473 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58113 / Al, 10000 PPM, 500 ml | 011623 | 01/16/2026 | 08/15/2023 / jaswal | 03/17/2023 / bin | M5496 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58120 / Ca, 10000 PPM, 500 ml | 031523 | 03/15/2026 | 03/18/2023 / bin | 03/17/2023 / bin | M5497 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58120 / Ca, 10000 PPM, 500 ml | 031523 | 03/15/2026 | 08/15/2023 / jaswal | 03/17/2023 / bin | M5498 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57182 / Pb, 10000 PPM, 125 ml | 061522 | 06/15/2025 | 03/19/2023 / bin | 03/17/2023 / bin | M5513 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58126 / Fe, 10000 PPM, 500 ml | 092122 | 09/21/2025 | 08/01/2024 / Jaswal | 03/17/2023 / bin | M5515 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57119 / Potassium (K) 10,000PPM | 120822 | 12/08/2025 | 01/08/2024 / bin | 03/17/2023 / bin | M5519 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58024 / Chromium, Cr, 500 ml, 1000 PPM | 060523 | 06/05/2026 | 08/28/2023 / jaswal | 08/25/2023 / jaswal | M5658 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58029 / Cu, 1000 PPM, 500 ml | 102523 | 10/25/2026 | 04/03/2024 / jaswal | 10/27/2023 / jaswal | M5697 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58025 / Mn, 1000 PPM, 500 ml | 102623 | 10/26/2026 | 04/18/2024 / jaswal | 10/27/2023 / jaswal | M5698 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58112 / Mg, 10000 PPM, 500 ml | 091823 | 09/18/2026 | 01/08/2024 / bin | 01/03/2024 / bin | M5768 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58112 / Mg, 10000 PPM, 500 ml | 091823 | 09/18/2026 | 05/24/2024 / Jaswal | 01/03/2024 / bin | M5769 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57004 / Be, 1000 PPM, 125 ml | 102523 | 10/25/2026 | 02/09/2024 / bin | 02/09/2024 / bin | M5798 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57050 / Sn, 1000 PPM, 125 ml | 071123 | 07/11/2026 | 02/09/2024 / bin | 02/09/2024 / bin | M5799 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57027 / CO, 1000 PPM, 125 ml | 091923 | 09/19/2026 | 05/31/2024 / bin | 02/09/2024 / bin | M5800 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57033 / As, 1000 PPM, 125 ml | 111323 | 11/13/2026 | 02/09/2024 / bin | 02/09/2024 / bin | M5801 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57051 / Sb, 1000 PPM, 125 ml | 120523 | 12/05/2026 | 08/07/2024 / jaswal | 01/03/2024 / jaswal | M5802 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58111 / Na, 10000 PPM, 500 ml | 122223 | 12/22/2026 | 08/01/2024 / Jaswal | 01/03/2024 / jaswal | M5806 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57115 / P, 10000 PPM, 125 ml | 041723 | 04/17/2026 | 05/21/2024 / Jaswal | 02/09/2024 / jaswal | M5815 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57016 / S, 1000 PPM, 125 ml | 122923 | 12/29/2026 | 05/20/2024 / Jaswal | 02/09/2024 / jaswal | M5816 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57116 / S, 10000 PPM, 125 ml | 071123 | 07/11/2026 | 03/01/2024 / jaswal | 02/09/2024 / jaswal | M5817 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57014 / Si, 1000 PPM, 125 ml | 122023 | 12/20/2026 | 03/06/2024 / jaswal | 02/09/2024 / jaswal | M5818 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58030 / Zinc, Zn, 500 ml, 1000 PPM | 111623 | 11/16/2026 | 03/20/2024 / jaswal | 02/09/2024 / jaswal | M5819 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57015 / P, 1000 PPM, 125 ml | 091123 | 09/11/2026 | 05/01/2024 / jaswal | 02/09/2024 / jaswal | M5820 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | CLPP-CAL-1 / CLP CAL SOLUTION #1, 125mL | T2-MEB714417 | 01/27/2027 | 04/19/2024 / jaswal | 02/22/2024 / jaswal | M5875 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | CGY10-1 / YTTRIUM 125mL 10,000ug/mL | V2-Y740548 | 02/20/2029 | 07/01/2024 / Jaswal | 06/14/2024 / Jaswal | M5959 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57028 / Ni, 1000 PPM, 125 ml | 041124 | 04/11/2027 | 07/03/2024 / kareem | 06/11/2024 / kareem | M5960 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57034 / Se, 1000 PPM, 125 ml | 060624 | 06/06/2027 | 07/02/2024 / Jaswal | 06/14/2024 / Jaswal | M5962 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57003 / Li, 1000 PPM, 125 ml | 061224 | 06/21/2027 | 07/01/2024 / Jaswal | 07/01/2024 / Jaswal | M5970 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | CGMO1-1 / MOLYBDENUM 125mL 1000ug/mL | T2-MO720876 | 07/17/2027 | 08/07/2024 / jaswal | 02/22/2024 / Jaswal | M5976 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | CGTI1-1 / TITANIUM 125mL 1000ug/mL | T2-TI719972 | 06/17/2027 | 08/07/2024 / jaswal | 02/22/2024 / Jaswal | M5978 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57038 / Sr, 1000 PPM, 125 ml | 031524 | 03/15/2027 | 07/01/2024 / Jaswal | 06/11/2024 / Jaswal | M5982 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | CGIN10-5 / INDIUM 1 x 500 ml | U2-IN729349 | 02/21/2028 | 10/08/2024 / Jaswal | 06/14/2024 / Jaswal | M5985 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | CLPP-SPK-5 / CLP Spike Standard 5 | V2-MEB742037 | 03/12/2029 | 10/04/2024 / Jaswal | 02/22/2024 / Jaswal | M5990 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | CLPP-SPK-1 / SOIL/WATER SPIKE SOLN 1, 125mL | T2-MEB721963 | 07/27/2027 | 09/04/2024 / Jaswal | 02/22/2024 / kareem | M5999 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57023 / V, 1000 PPM, 125 ml | 062424 | 06/24/2027 | 09/28/2024 / jaswal | 08/05/2024 / Jaswal | M6021 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57081 / Tl, 1000 PPM, 125 ml | 0624724 | 06/27/2027 | 08/05/2024 / kareem | 08/05/2024 / Jaswal | M6023 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57082 / Pb, 1000 PPM, 125 ml | 061224 | 11/09/2026 | 08/05/2024 / Jaswal | 08/05/2024 / Jaswal | M6025 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57048 / Cd, 1000 PPM, 125 ml | 070124 | 07/01/2027 | 08/05/2024 / kareem | 08/05/2024 / Jaswal | M6028 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57047 / Ag, 1000 PPM, 125 ml | 122823 | 12/28/2026 | 08/05/2024 / kareem | 08/05/2024 / Jaswal | M6030 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L) | 0000275677 | 05/13/2025 | 11/13/2024 / Eman | 10/13/2024 / Eman | M6121 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| PCI Scientific Supply, Inc. | 1403 / Hydrogen Peroxide, 30% 1 gal | 820803 | 05/25/2025 | 11/26/2024 / Eman | 11/22/2024 / Eman | M6125 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L) | 24D1062002 | 06/03/2025 | 12/03/2024 / Janvi | 11/12/2024 / Janvi | M6126 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | DIW / DI Water | Daily Lab-Certified | 07/03/2029 | 07/03/2024 / Iwona | 07/03/2024 / Iwona | W3112 |

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# Certificate of Analysis

R: 02/22/24 M5986 M5987, M5988, M5989-M5990

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Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
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info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Multi Analyte Custom Grade Solution |
| Catalog Number: | CLPP-SPK-5 |
| Lot Number: | V2-MEB742037 |
| Matrix: | 5% (v/v) $HNO_3$ |
| Value / Analyte(s): | 100 µg/mL ea: Antimony, |
| | 50 µg/mL ea: Selenium, Cadmium, Thallium, |
| | 40 µg/mL ea: Arsenic, |
| | 20 µg/mL ea: Lead |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|---|---|---|---|
| Antimony, Sb | 100.0 ± 0.7 µg/mL | Arsenic, As | 40.00 ± 0.26 µg/mL |
| Cadmium, Cd | 49.99 ± 0.22 µg/mL | Lead, Pb | 19.99 ± 0.09 µg/mL |
| Selenium, Se | 50.00 ± 0.23 µg/mL | Thallium, Tl | 50.00 ± 0.22 µg/mL |

**Density:** 1.025 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---|---|---|---|
| As | ICP Assay | 3103a | 100818 |
| Cd | ICP Assay | 3108 | 130116 |
| Cd | EDTA | 928 | 928 |
| Cd | Calculated | | See Sec. 4.2 |
| Pb | ICP Assay | 3128 | 101026 |
| Pb | EDTA | 928 | 928 |
| Pb | Calculated | | See Sec. 4.2 |
| Sb | ICP Assay | 3102a | 140911 |
| Se | ICP Assay | 3149 | 100901 |
| Se | Calculated | | See Sec. 4.2 |
| Tl | ICP Assay | 3158 | 151215 |
| Tl | Calculated | | See Sec. 4.2 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### Characterization of CRM/RM by Two or More Methods

**Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:**

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

$X_i$ = mean of Assay Method i with standard uncertainty $u_{char\ i}$

$w_i$ = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$**

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

**Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:**

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

$X_a$ = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$**

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

## 6.0 INTENDED USE

**6.1** This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

**6.2** For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

March 12, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

**- March 12, 2029**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Joseph Burns
Custom VS Manager

**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

M6028

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

R 8/15/24

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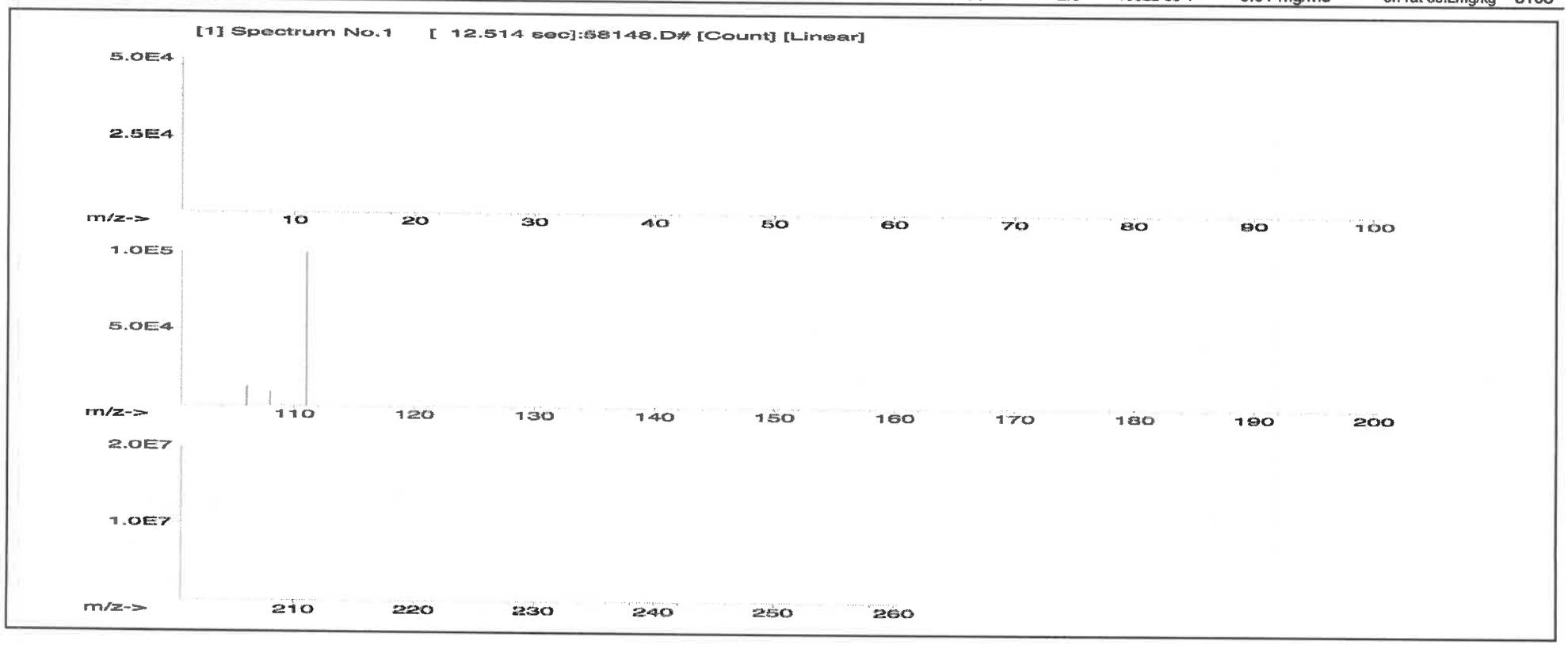
## CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **57048** | | | **Lot #** | |
| **Lot Number:** | **070124** | | **Solvent:** | 24002546 | Nitric Acid |
| **Description:** | **Cadmium (Cd)** | | | | |
| | | | 2% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 070127 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 2000.07 | 0.100 | Flask Uncertainty | | |

Aleah O'Brady

| | | |
|---|---|---|
| Formulated By: | Aleah O'Brady | 070124 |
| Reviewed By: | Pedro L. Rentas | 070124 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Cadmium nitrate tetrahydrate (Cd) | IN024 | CDM092021A1 | 1000 | 99.999 | 0.10 | 36.5 | 5.4797 | 5.4804 | **1000.1** | **2.0** | 10022-68-1 | 0.01 mg/m3 | orl-rat 60.2mg/kg | 3108 |



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**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | T | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

M5296 OP: 09/19/2022 BH

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Refine your results. Redefine your industry.

# Certificate of Analysis

300 Technology Drive
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inorganicventures.com

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F: 540-585-3012
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Multi Analyte Custom Grade Solution |
| Catalog Number: | CHEM-CLP-4 |
| Lot Number: | S2-MEB711673 |
| Matrix: | 3% (v/v) HNO3<br>3% (v/v) HF |
| Value / Analyte(s): | 1 000 µg/mL ea:<br>Boron, Molybdenum,<br>Silicon, Tin,<br>Titanium |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|---|---|---|---|
| **Boron, B** | **1 000 ± 6 µg/mL** | **Molybdenum, Mo** | **1 000 ± 6 µg/mL** |
| **Silicon, Si** | **1 000 ± 7 µg/mL** | **Tin, Sn** | **1 000 ± 6 µg/mL** |
| **Titanium, Ti** | **1 000 ± 7 µg/mL** | | |

**Density:** 1.030 g/mL (measured at 20 ± 4 ºC)

### Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---|---|---|---|
| B | ICP Assay | 3107 | 110830 |
| Mo | ICP Assay | 3134 | 130418 |
| Si | ICP Assay | 3150 | 130912 |
| Sn | ICP Assay | 3161a | 140917 |
| Ti | ICP Assay | 3162a | 130925 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.



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**Characterization of CRM/RM by Two or More Methods**

**Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:**

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

$X_i$ = mean of Assay Method i with standard uncertainty $u_{char\ i}$

$w_i$ = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$**

**k** = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

**Characterization of CRM/RM by One Method**

**Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:**

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

$X_a$ = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$**

**k** = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

**HF Note:** This standard should not be prepared or stored in glass.

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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

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Refine your results. Redefine your industry.

# Certificate of Analysis

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Christiansburg, VA 24073 USA
inorganicventures.com

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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Multi Analyte Custom Grade Solution |
| Catalog Number: | CLPP-CAL-1 |
| Lot Number: | T2-MEB714417 |
| Matrix: | 5% (v/v) HNO3 |
| Value / Analyte(s): | 5 000 µg/mL ea:<br>Calcium, Potassium,<br>Magnesium, Sodium,<br>2 000 µg/mL ea:<br>Aluminum, Barium,<br>1 000 µg/mL ea:<br>Iron,<br>500 µg/mL ea:<br>Nickel, Vanadium,<br>Zinc, Cobalt,<br>Manganese,<br>250 µg/mL ea:<br>Silver, Copper,<br>200 µg/mL ea:<br>Chromium,<br>50 µg/mL ea:<br>Beryllium |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|---|---|---|---|
| **Aluminum, Al** | **2 000 ± 7 µg/mL** | **Barium, Ba** | **2 000 ± 9 µg/mL** |
| **Beryllium, Be** | **50.00 ± 0.26 µg/mL** | **Calcium, Ca** | **5 000 ± 22 µg/mL** |
| **Chromium, Cr** | **200.0 ± 1.0 µg/mL** | **Cobalt, Co** | **500.0 ± 2.4 µg/mL** |
| **Copper, Cu** | **250.0 ± 1.0 µg/mL** | **Iron, Fe** | **1 000 ± 4 µg/mL** |
| **Magnesium, Mg** | **5 000 ± 20 µg/mL** | **Manganese, Mn** | **500.0 ± 2.0 µg/mL** |
| **Nickel, Ni** | **500.0 ± 2.2 µg/mL** | **Potassium, K** | **5 000 ± 19 µg/mL** |
| **Silver, Ag** | **250.0 ± 1.1 µg/mL** | **Sodium, Na** | **5 000 ± 18 µg/mL** |
| **Vanadium, V** | **499.7 ± 2.2 µg/mL** | **Zinc, Zn** | **500.0 ± 2.2 µg/mL** |

**Density:** 1.118 g/mL (measured at 20 ± 4 ºC)

## Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---|---|---|---|
| Ag | ICP Assay | 3151 | 160729 |
| Ag | Volhard | 999c | 999c |
| Al | ICP Assay | 3101a | 140903 |
| Al | EDTA | 928 | 928 |
| Ba | ICP Assay | 3104a | 140909 |
| Ba | Gravimetric | | See Sec. 4.2 |
| Be | ICP Assay | 3105a | 090514 |
| Be | Calculated | | See Sec. 4.2 |
| Ca | ICP Assay | 3109a | 130213 |
| Ca | EDTA | 928 | 928 |
| Co | ICP Assay | 3113 | 190630 |
| Co | EDTA | 928 | 928 |
| Cr | ICP Assay | 3112a | 170630 |
| Cr | Calculated | | See Sec. 4.2 |
| Cu | ICP Assay | 3114 | 121207 |
| Cu | EDTA | 928 | 928 |
| Fe | ICP Assay | 3126a | 140812 |
| Fe | EDTA | 928 | 928 |
| K | ICP Assay | 3141a | 140813 |
| K | Gravimetric | | See Sec. 4.2 |
| Mg | ICP Assay | 3131a | 140110 |
| Mg | EDTA | 928 | 928 |
| Mn | ICP Assay | 3132 | 050429 |
| Mn | EDTA | 928 | 928 |
| Na | ICP Assay | 3152a | 120715 |
| Na | Gravimetric | | See Sec. 4.2 |
| Ni | ICP Assay | 3136 | 120619 |
| Ni | EDTA | 928 | 928 |
| V | IC Assay | 3165 | 160906 |
| V | EDTA | 928 | 928 |
| Zn | ICP Assay | 3168a | 120629 |
| Zn | EDTA | 928 | 928 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

**Characterization of CRM/RM by Two or More Methods**

**Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:**

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

$X_i$ = mean of Assay Method i with standard uncertainty $u_{char\ i}$

$w_i$ = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

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**Characterization of CRM/RM by One Method**

**Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:**

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

$X_a$ = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

**Note**: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

January 27, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

### 11.2 Lot Expiration Date

- **January 27, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

### 11.3 Period of Validity

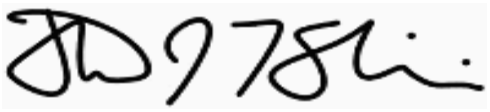
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Thomas Kozikowski
Manager, Quality Control



**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

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:<br>Arsenic, Lead,<br>Selenium, Thallium,<br><br>500 µg/mL ea:<br>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 (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$**

**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**

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

January 13, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

### 11.2 Lot Expiration Date

- **January 13, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

### 11.3 Period of Validity

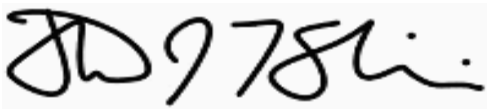
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Thomas Kozikowski
Manager, Quality Control



**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

R: 8/5/24 M6025

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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CERTIFIED WEIGHT REPORT:

**Part Number:** 57182
**Lot Number:** 110923
**Description:** Lead (Pb)

**Expiration Date:** 110926
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB

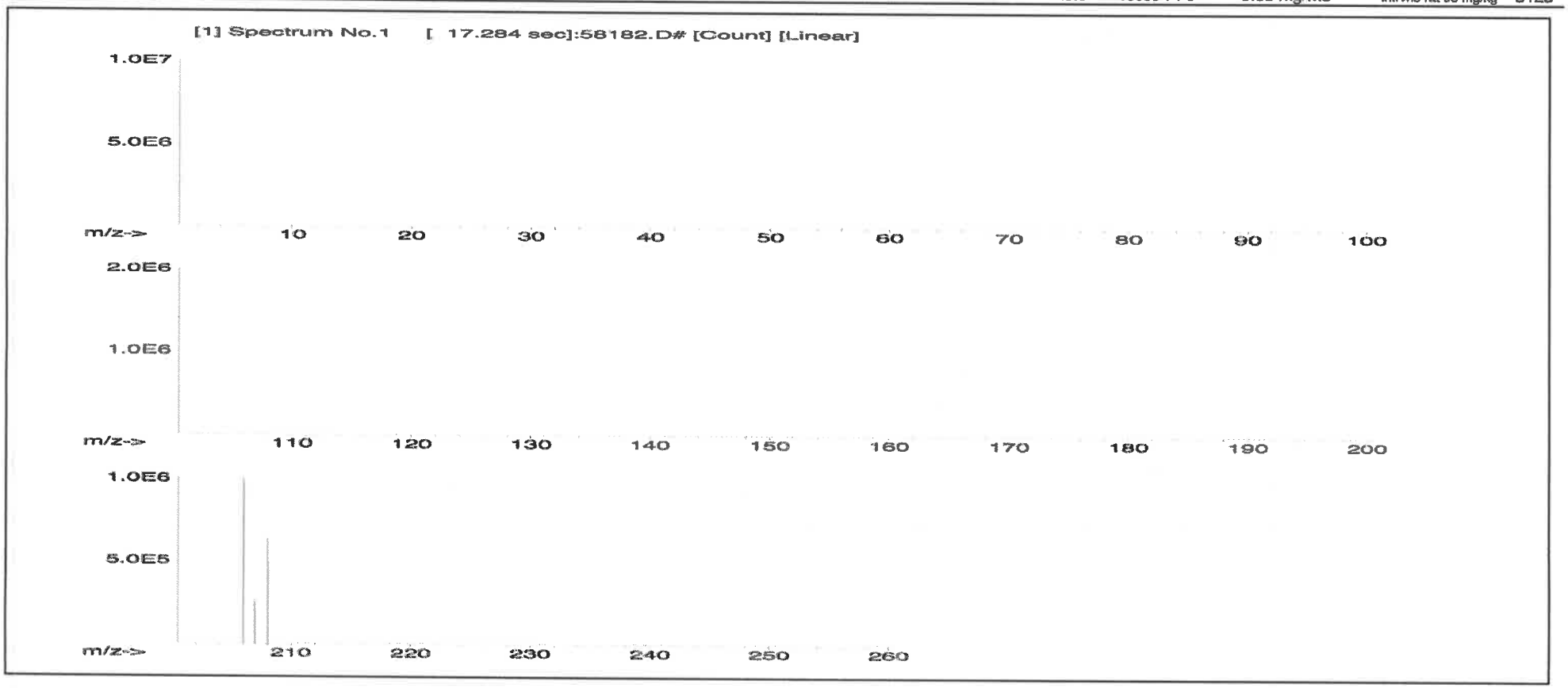
**Weight shown below was diluted to (mL):** 2000.02 0.058 Flask Uncertainty

| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 24002546 | Nitric Acid | |
| 2% | 40.0 (mL) | Nitric Acid | |

5E-05 Balance Uncertainty

| | | |
|---|---|---|
| Formulated By: | Lawence Barry | 110923 |
| Reviewed By: | Pedro L. Rentas | 110923 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Lead(II) nitrate (Pb) | IN029 | PBD122016A1 | 10000 | 99.999 | 0.10 | 62.5 | 32.0006 | 32.0040 | **10001.1** | **20.0** | 10099-74-8 | 0.05 mg/m3 | intrvns-rat 93 mg/kg | 3128 |



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**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | T | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

## QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

**NOTE:** These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

***APPLICATION:*** For use with the CLP SFAM01.0 SOW and revisions.

***CAUTION:*** Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
**HAZARDOUS MATERIAL**

Safety Data Sheets
Available Upon Request

### (A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

***CAUTION:*** The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

### (B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

**QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY**
**APTIM Federal Services, LLC**
**2700 Chandler Avenue - Building C**
**Las Vegas, NV 89120**

### (C) *ANALYSIS OF SAMPLES*

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

**ICSA-1211, Interferents:** Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v $HNO_3$. Analyze this ICSA solution by ICP-AES.

**ICSB-0710, Analytes, mixed with ICSA-1211, Interferents:** Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v $HNO_3$. Analyze this ICSAB solution by ICP-AES.

## (D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

**Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710**

| Element | CRQL | Part A (µg/L) | Low Limit (µg/L) | High Limit (µg/L) | Part A +Part B (µg/L) | Low Limit (µg/L) | High Limit (µg/L) |
|---|---|---|---|---|---|---|---|
| Al | 200 | 255000 | 216000 | 294000 | 247000 | 209000 | 285000 |
| Sb | 60 | (0.0) | -60.0 | 60.0 | 618 | 525 | 711 |
| As | 10 | (0.0) | -10.0 | 10.0 | 104 | 88.4 | 120 |
| Ba | 200 | (6.0) | -194 | 206 | (537) | 337 | 737 |
| Be | 5.0 | (0.0) | -5.0 | 5.0 | 495 | 420 | 570 |
| Cd | 5.0 | (1.0) | -4.0 | 6.0 | 972 | 826 | 1120 |
| Ca | 5000 | 245000 | 208000 | 282000 | 235000 | 199000 | 271000 |
| Cr | 10 | (52.0) | 42.0 | 62.0 | 542 | 460 | 624 |
| Co | 50 | (0.0) | -50.0 | 50.0 | 476 | 404 | 548 |
| Cu | 25 | (2.0) | -23.0 | 27.0 | 511 | 434 | 588 |
| Fe | 100 | 101000 | 85600 | 116500 | 99300 | 84400 | 114500 |
| Pb | 10 | (0.0) | -10.0 | 10.0 | (49.0) | 39.0 | 59.0 |
| Mg | 5000 | 255000 | 216000 | 294000 | 248000 | 210000 | 286000 |
| Mn | 15 | (7.0) | -8.0 | 22.0 | 507 | 430 | 584 |
| Ni | 40 | (2.0) | -38.0 | 42.0 | 954 | 810 | 1100 |
| Se | 35 | (0.0) | -35.0 | 35.0 | (46.0) | 11.0 | 81.0 |
| Ag | 10 | (0.0) | -10.0 | 10.0 | 201 | 170 | 232 |
| Tl | 25 | (0.0) | -25.0 | 25.0 | (108) | 83.0 | 133 |
| V | 50 | (0.0) | -50.0 | 50.0 | 491 | 417 | 565 |
| Zn | 60 | (0.0) | -60.0 | 60.0 | 952 | 809 | 1095 |

ICSA M5126 M5127 M5128 M5129 M5130

ICSB M5219 M5220 M5221 M5222 M5223

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

INORGANIC VENTURES™
Refine your results. Redefine your industry.

# Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Multi Analyte Custom Grade Solution |
| Catalog Number: | CHEM-QC-4 |
| Lot Number: | S2-MEB711674 |
| Matrix: | 3% (v/v) HNO3<br>3% (v/v) HF |
| Value / Analyte(s): | 1 000 µg/mL ea:<br>Boron, Molybdenum,<br>Silicon, Tin,<br>Titanium |

**Second Source**: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|---|---|---|---|
| **Boron, B** | **1 000 ± 7 µg/mL** | **Molybdenum, Mo** | **1 000 ± 5 µg/mL** |
| **Silicon, Si** | **1 000 ± 7 µg/mL** | **Tin, Sn** | **1 000 ± 5 µg/mL** |
| **Titanium, Ti** | **1 001 ± 6 µg/mL** | | |

**Density:** 1.032 g/mL (measured at 20 ± 4 ºC)

### Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---|---|---|---|
| B | ICP Assay | 3107 | 110830 |
| Mo | ICP Assay | 3134 | 130418 |
| Si | ICP Assay | 3150 | 130912 |
| Sn | ICP Assay | 3161a | 140917 |
| Ti | ICP Assay | 3162a | 130925 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

**Characterization of CRM/RM by Two or More Methods**

**Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:**

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

$X_i$ = mean of Assay Method i with standard uncertainty $u_{char\ i}$

$w_i$ = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$**

**k** = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

**Characterization of CRM/RM by One Method**

**Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:**

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

$X_a$ = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$**

**k** = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

**HF Note:** This standard should not be prepared or stored in glass.

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

November 02, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

### 11.2 Lot Expiration Date

- **November 02, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

### 11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Michael Booth
Director, Quality Control

**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

## QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

**NOTE:** These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

***APPLICATION:*** For use with the CLP SFAM01.0 SOW and revisions.

***CAUTION:*** Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
**HAZARDOUS MATERIAL**

Safety Data Sheets
Available Upon Request

### (A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of Aqueous Reference Material, each composed of metals at various concentrations and prepared with nitrate salts and oxy-acids of the respective elements in a 5% nitric acid matrix. **For the reference material source in reporting ICSA and ICSAB mixture use "USEPA". For the reference material lot number for the ICSA use "ICSA-1211" and for the ICSAB mixture use "ICSA-1211+ICSB-0710".**

***CAUTION:*** The bottle(s) should be protected from light during storage to ensure the stability of silver which is contained in the ICSB solution. The bottle(s) should be stored at room temperature. **Do not allow the solution(s) to freeze.**

### (B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

**QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY**
**APTIM Federal Services, LLC**
**2700 Chandler Avenue - Building C**
**Las Vegas, NV 89120**

### (C) *ANALYSIS OF SAMPLES*

The interference check sample set is to be used to verify inter-element and background correction factors of inductively-coupled plasma (ICP) spectrometers. This reference material set consists of two (2) concentrated solutions. The ICSA solution contains the four (4) interferent elements: Al, Ca, Fe, and Mg. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be,

Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for ICP-AES Part A and Part B target analytes when diluted as directed.

Using Class "A" glassware, preparation and analysis must be performed according to the following instructions:

**ICSA-1211, Interferents:** Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 2% v/v $HNO_3$. Analyze this ICSA solution by ICP-AES.

**ICSB-0710, Analytes, mixed with ICSA-1211, Interferents:** Pipet 10 mL of the ICSA solution and 10 mL of the ICSB solution into a 100 mL volumetric flask and dilute to volume with 2% v/v $HNO_3$. Analyze this ICSAB solution by ICP-AES.

## (D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-AES ICS SOLUTION(S)*

The "Certified Value" concentrations of the elements, listed in Table 1 below, were derived from statistically pooled analysis results from the following sources, if available: QATS Laboratory, CLP laboratories, Quarterly Blind (QB)/Proficiency Testing (PT) events, CLP pre-award events, and external referee laboratories.

**Table 1. "CERTIFIED VALUES" FOR INTERFERENCE CHECK SAMPLE ICP-AES ICSA-1211, AND ICSA-1211 MIXED WITH ICSB-0710**

| Element | CRQL | Part A (µg/L) | Low Limit (µg/L) | High Limit (µg/L) | Part A +Part B (µg/L) | Low Limit (µg/L) | High Limit (µg/L) |
|---|---|---|---|---|---|---|---|
| Al | 200 | 255000 | 216000 | 294000 | 247000 | 209000 | 285000 |
| Sb | 60 | (0.0) | -60.0 | 60.0 | 618 | 525 | 711 |
| As | 10 | (0.0) | -10.0 | 10.0 | 104 | 88.4 | 120 |
| Ba | 200 | (6.0) | -194 | 206 | (537) | 337 | 737 |
| Be | 5.0 | (0.0) | -5.0 | 5.0 | 495 | 420 | 570 |
| Cd | 5.0 | (1.0) | -4.0 | 6.0 | 972 | 826 | 1120 |
| Ca | 5000 | 245000 | 208000 | 282000 | 235000 | 199000 | 271000 |
| Cr | 10 | (52.0) | 42.0 | 62.0 | 542 | 460 | 624 |
| Co | 50 | (0.0) | -50.0 | 50.0 | 476 | 404 | 548 |
| Cu | 25 | (2.0) | -23.0 | 27.0 | 511 | 434 | 588 |
| Fe | 100 | 101000 | 85600 | 116500 | 99300 | 84400 | 114500 |
| Pb | 10 | (0.0) | -10.0 | 10.0 | (49.0) | 39.0 | 59.0 |
| Mg | 5000 | 255000 | 216000 | 294000 | 248000 | 210000 | 286000 |
| Mn | 15 | (7.0) | -8.0 | 22.0 | 507 | 430 | 584 |
| Ni | 40 | (2.0) | -38.0 | 42.0 | 954 | 810 | 1100 |
| Se | 35 | (0.0) | -35.0 | 35.0 | (46.0) | 11.0 | 81.0 |
| Ag | 10 | (0.0) | -10.0 | 10.0 | 201 | 170 | 232 |
| Tl | 25 | (0.0) | -25.0 | 25.0 | (108) | 83.0 | 133 |
| V | 50 | (0.0) | -50.0 | 50.0 | 491 | 417 | 565 |
| Zn | 60 | (0.0) | -60.0 | 60.0 | 952 | 809 | 1095 |

ICSA M5126 M5127 M5128 M5129 M5130

ICSB M5219 M5220 M5221 M5222 M5223

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

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M5289 R: 07/12/22 BH

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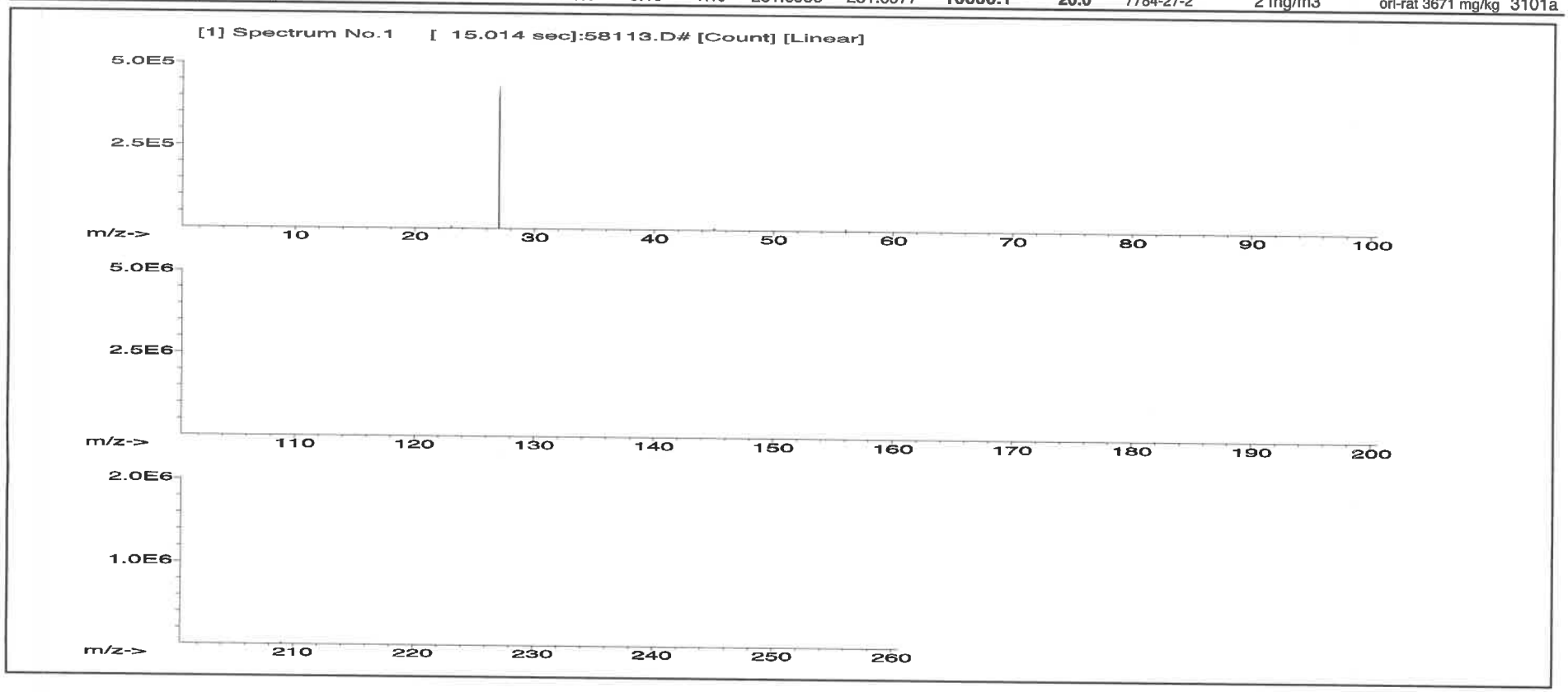
CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **58113** | | **Lot #** | | |
| **Lot Number:** | **070622** | **Solvent:** | 20370011 | Nitric Acid | |
| **Description:** | **Aluminum (Al)** | | | | |
| | | 2% | 40.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 070625 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **10000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | | |

| | | |
|---|---|---|
| Formulated By: | Lawrence Barry | 070622 |
| Reviewed By: | Pedro L. Rentas | 070622 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | **Actual Conc. (µg/mL)** | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Aluminum nitrate nonahydrate (Al) | IN022 | ALD012021A1 | 10000 | 99.999 | 0.10 | 7.10 | 281.6956 | 281.6977 | **10000.1** | **20.0** | 7784-27-2 | 2 mg/m3 | orl-rat 3671 mg/kg | 3101a |



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | T | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

## QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

**NOTE:** These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

***APPLICATION:*** For use with the CLP SFAM01.0 SOW and revisions.

***CAUTION:*** Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions
**HAZARDOUS MATERIAL**

Safety Data Sheets Available Upon Request

M5291
M5292
M5293
M5294
M5295

### (A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

### (B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

**QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY**
**APTIM Federal Services, LLC**
**2700 Chandler Avenue - Building C**
**Las Vegas, NV 89120**

### (C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

**ICV1-1014** For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

**ICV1-1014** For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

**ICV5-0415** For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

**ICV6-0400** For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

**NOTE:** USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

## (D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

| ICV1-1014 | | |
|---|---|---|
| **Element** | **Concentration (µg/L) (after 10-fold dilution)** | **Concentration (µg/L) (after 50-fold dilution)** |
| **Al** | 2500 | 500 |
| **Sb** | 1000 | 200 |
| **As** | 1000 | 200 |
| **Ba** | 520 | 100 |
| **Be** | 510 | 100 |
| **Cd** | 510 | 100 |
| **Ca** | 10000 | 2000 |
| **Cr** | 520 | 100 |
| **Co** | 520 | 100 |
| **Cu** | 510 | 100 |
| **Fe** | 10000 | 2000 |
| **Pb** | 1000 | 200 |
| **Mg** | 6000 | 1200 |
| **Mn** | 520 | 100 |
| **Ni** | 530 | 110 |
| **K** | 9900 | 2000 |
| **Se** | 1000 | 200 |
| **Ag** | 250 | 50 |
| **Na** | 10000 | 2000 |
| **Tl** | 1000 | 210 |
| **V** | 500 | 100 |
| **Zn** | 1000 | 200 |

| ICV5-0415 | | ICV6-0400 | |
|---|---|---|---|
| **Element** | **Concentration (µg/L) (after 100-fold dilution)** | **Analyte** | **Concentration (µg/L) (after 100-fold dilution)** |
| **Hg** | 4.0 | **$CN^-$** | 99 |

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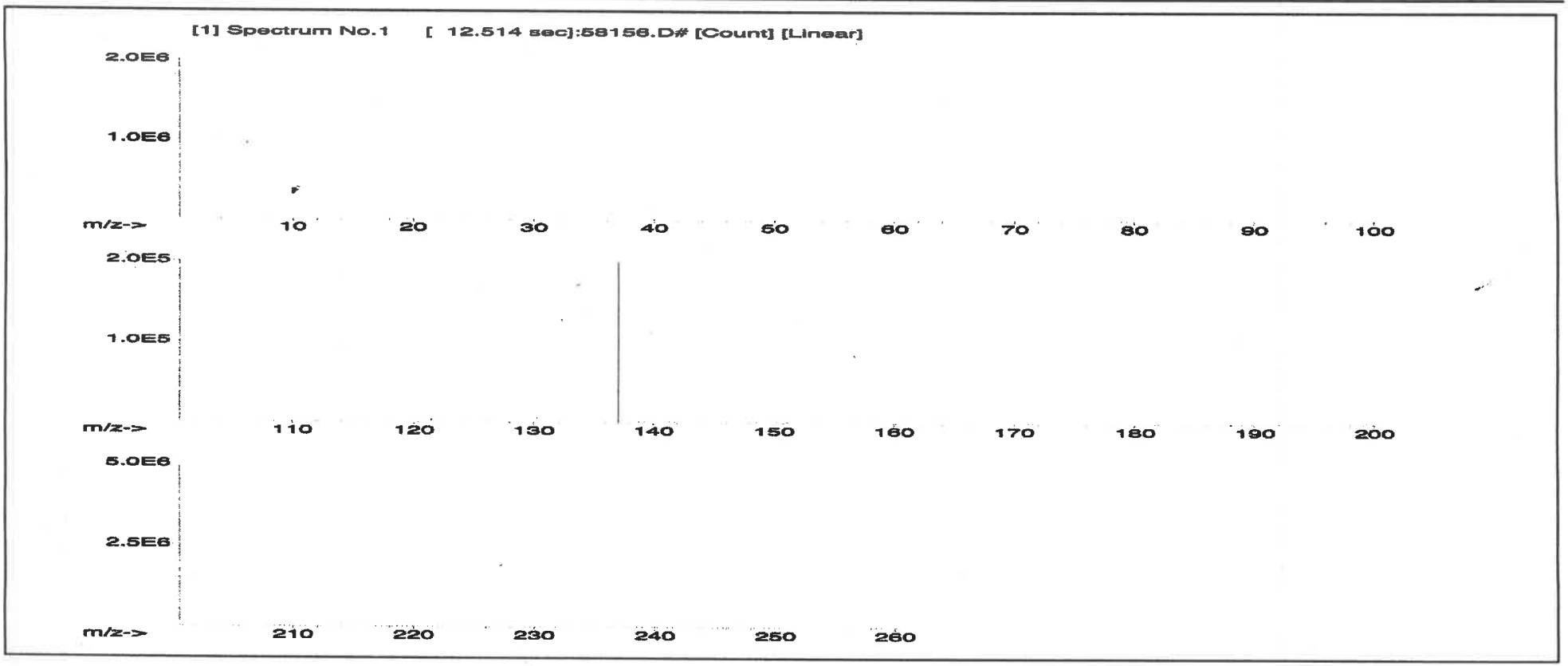
## CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **57056** | | **Lot #** | | |
| **Lot Number:** | **072122** | **Solvent:** | 20510011 | Nitric Acid | |
| **Description:** | **Barium (Ba)** | 2% | 40.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 072125 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | | |

Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 072122 |
| Reviewed By: | Pedro L. Rentas | 072122 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Barium nitrate (Ba) | IN023 | BAD022019A1 | 1000 | 99.999 | 0.10 | 52.3 | 3.82417 | 3.82426 | **1000.0** | 2.0 | 10022-31-8 | 0.5 mg/m3 | orl-rat 355 mg/kg | 3104a |



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | T | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

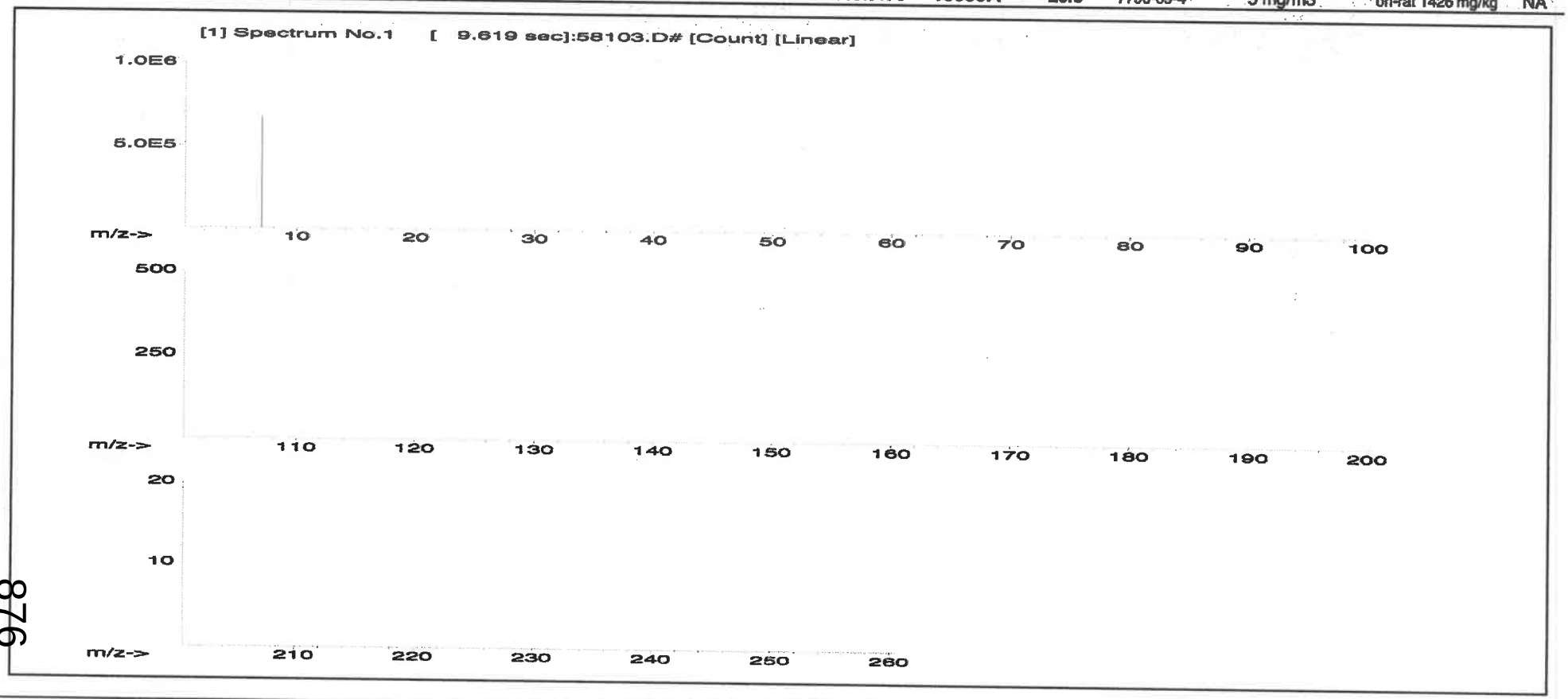
**Part Number:** 57103
**Lot Number:** 070622
**Description:** Lithium (Li)

**Expiration Date:** 070625
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 1000.12 ± 0.058 Flask Uncertainty

| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 20510011 | Nitric Acid | |
| 2% | 20.0 (mL) | Nitric Acid | ± 5E-05 Balance Uncertainty |

Formulated By: Lawrence Barry 070622
Reviewed By: Pedro L. Rentas 070622

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Lithium nitrate (Li) | IN019 | LIZ042018A1 | 10000 | 99.999 | 0.10 | 10.0 | 100.0134 | 100.0173 | **10000.4** | **20.0** | 7790-69-4 | 5 mg/m3 | orl-rat 1426 mg/kg | NA |




978

**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).

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M5497 - M5498 R: 03/17/23 BH

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CERTIFIED WEIGHT REPORT:

**Part Number:** 58120
**Lot Number:** 031523
**Description:** Calcium (Ca)

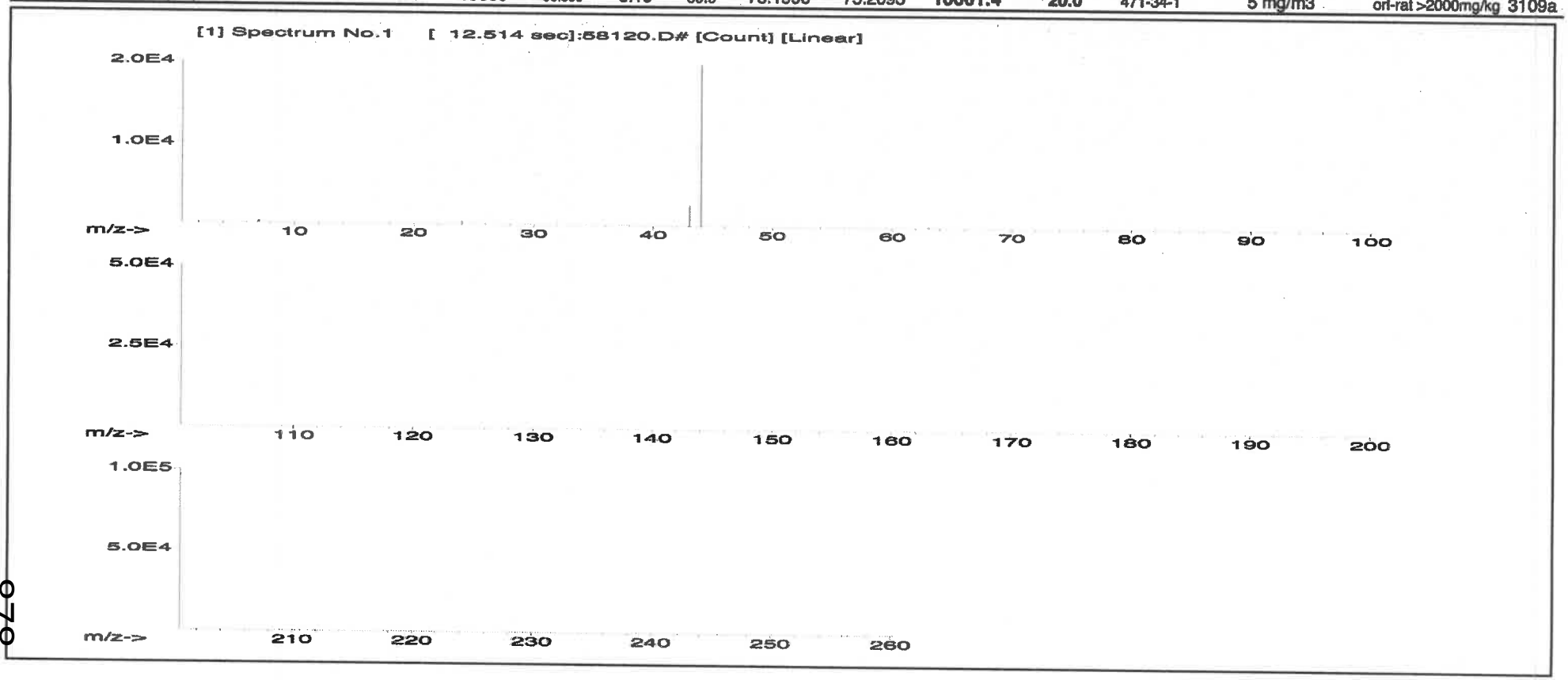
**Expiration Date:** 031526
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 3000.41

| | 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 |




878

**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).

6/8/79

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CERTIFIED WEIGHT REPORT:

**Part Number:** 58120
**Lot Number:** 031523
**Description:** Calcium (Ca)

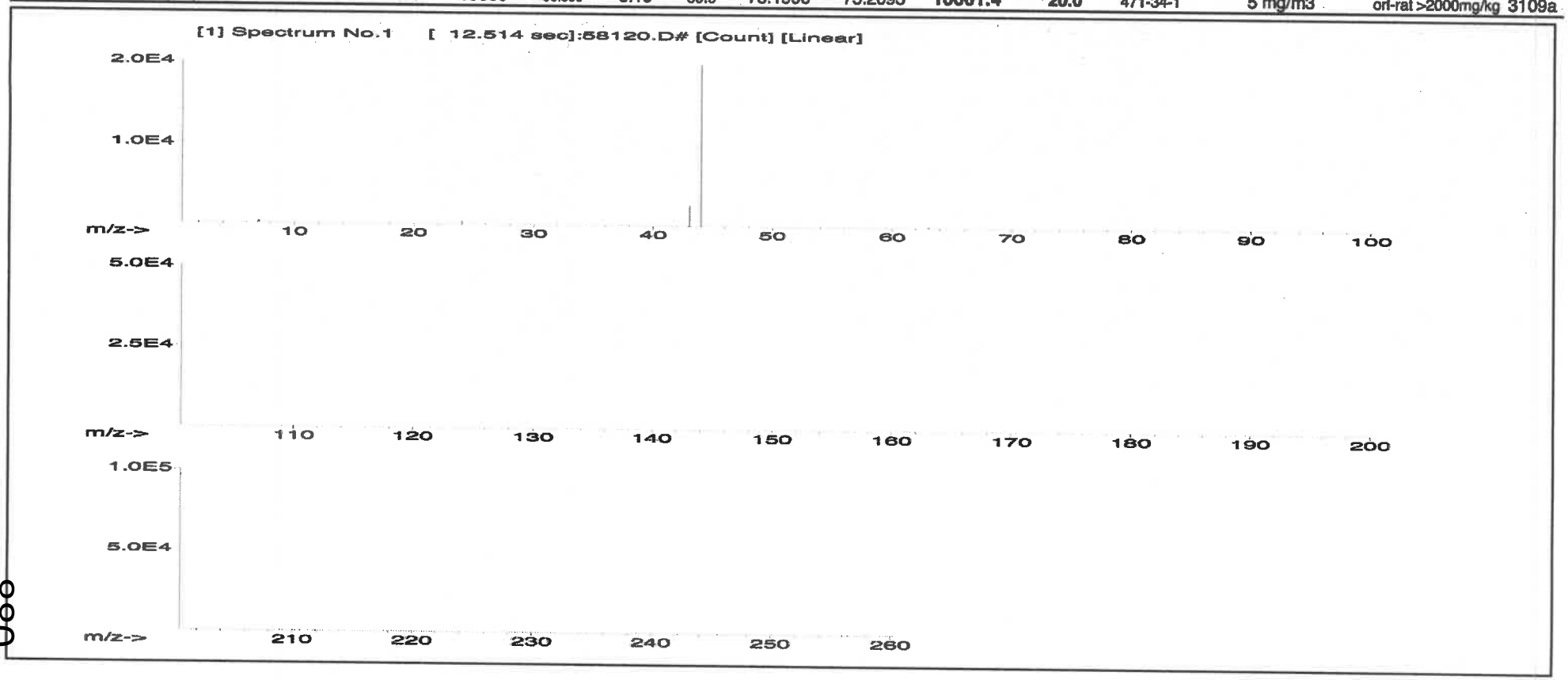
**Expiration Date:** 031526
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 3000.41

| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 21110221 | Nitric Acid | |
| 2% | 60.0 (mL) | Nitric Acid | |
| | 5E-05 | Balance Uncertainty | |
| | 0.058 | Flask Uncertainty | |

Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 031523 |
| 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 |




880

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | T | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M 5513 R: 03/17/23

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CERTIFIED WEIGHT REPORT:

**Part Number:** 57182
**Lot Number:** 061522
**Description:** Lead (Pb)

**Expiration Date:** 061525
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 2000.02

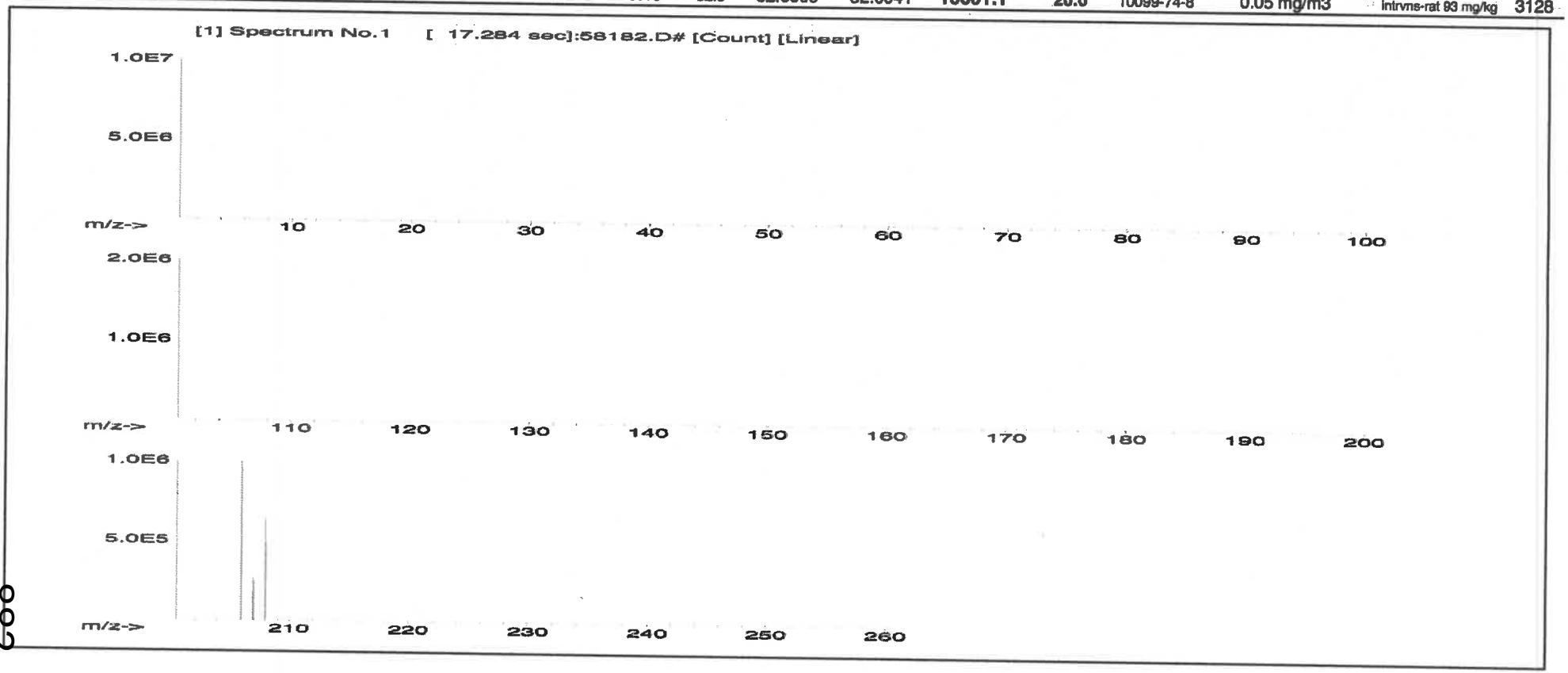
| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 20510011 | Nitric Acid | |
| 2% | 40.0 (mL) | Nitric Acid | |

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 061522 |
| Reviewed By: | Pedro L. Rentas | 061522 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Lead(II) nitrate (Pb) | IN029 | PBD122016A1 | 10000 | 99.999 | 0.10 | 62.5 | 32.0006 | 32.0041 | **10001.1** | **20.0** | 10099-74-8 | 0.05 mg/m3 | Intrvns-rat 93 mg/kg | 3128 |




882

**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.
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M5514 , M5515 R: 03/17/23

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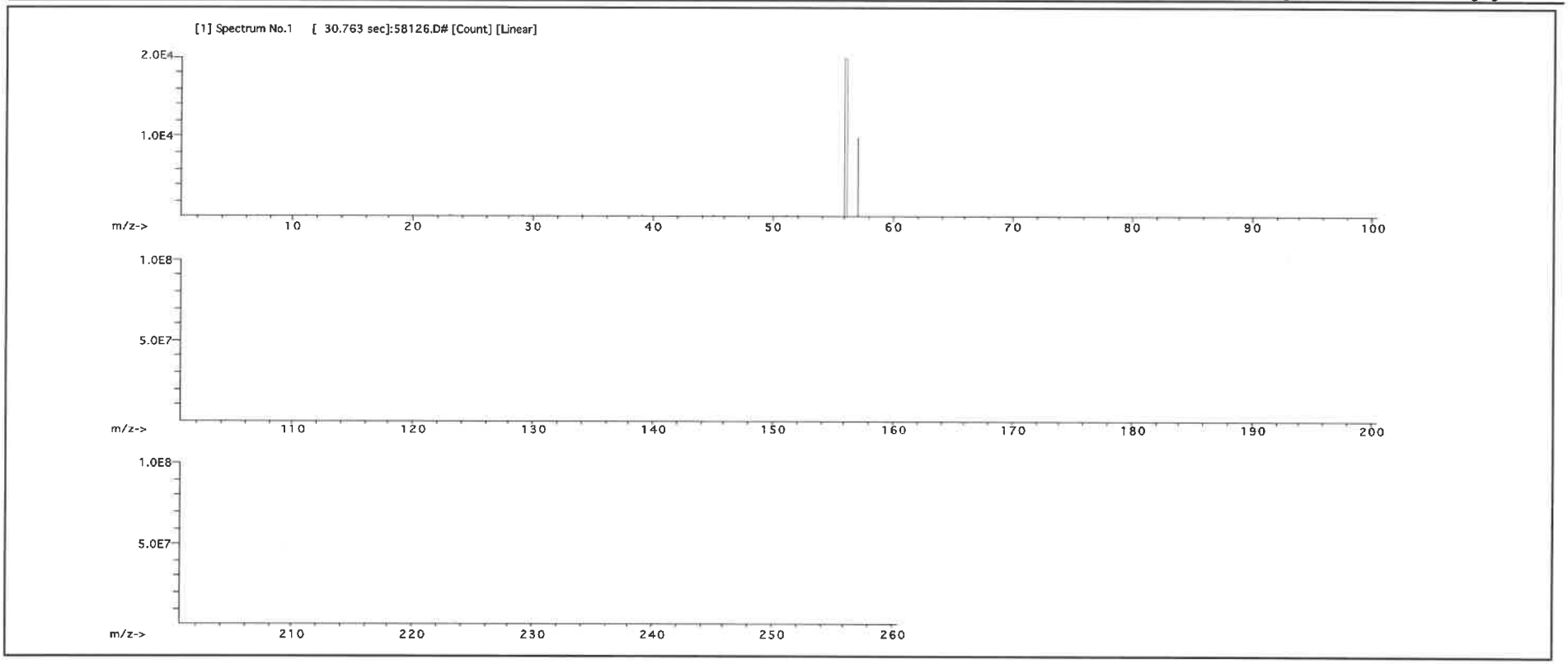
CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **58126** | | **Lot #** | | |
| **Lot Number:** | **092122** | **Solvent:** | 20510011 | Nitric Acid | |
| **Description:** | **Iron (Fe)** | 7.0% | 350.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 092125 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **10000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 5000.1 | 0.12 | Flask Uncertainty | | |

Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 092122 |
| Reviewed By: | Pedro L. Rentas | 092122 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | **Actual Conc. (µg/mL)** | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Iron (Fe) | IN346 | 2224912-500 | 10000 | 99.995 | 0.10 | 100.0 | 50.0034 | 50.0111 | **10001.5** | **20.0** | 7439-89-6 | 5 mg/m3 | orl-rat 7500mg/kg | 3126a |



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.10 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.10 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.05 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.10 | Ge | <0.10 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.05 |
| B | <0.02 | Cu | <0.10 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).



885

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M5519. M5520 (BH) R:03/17/23

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886

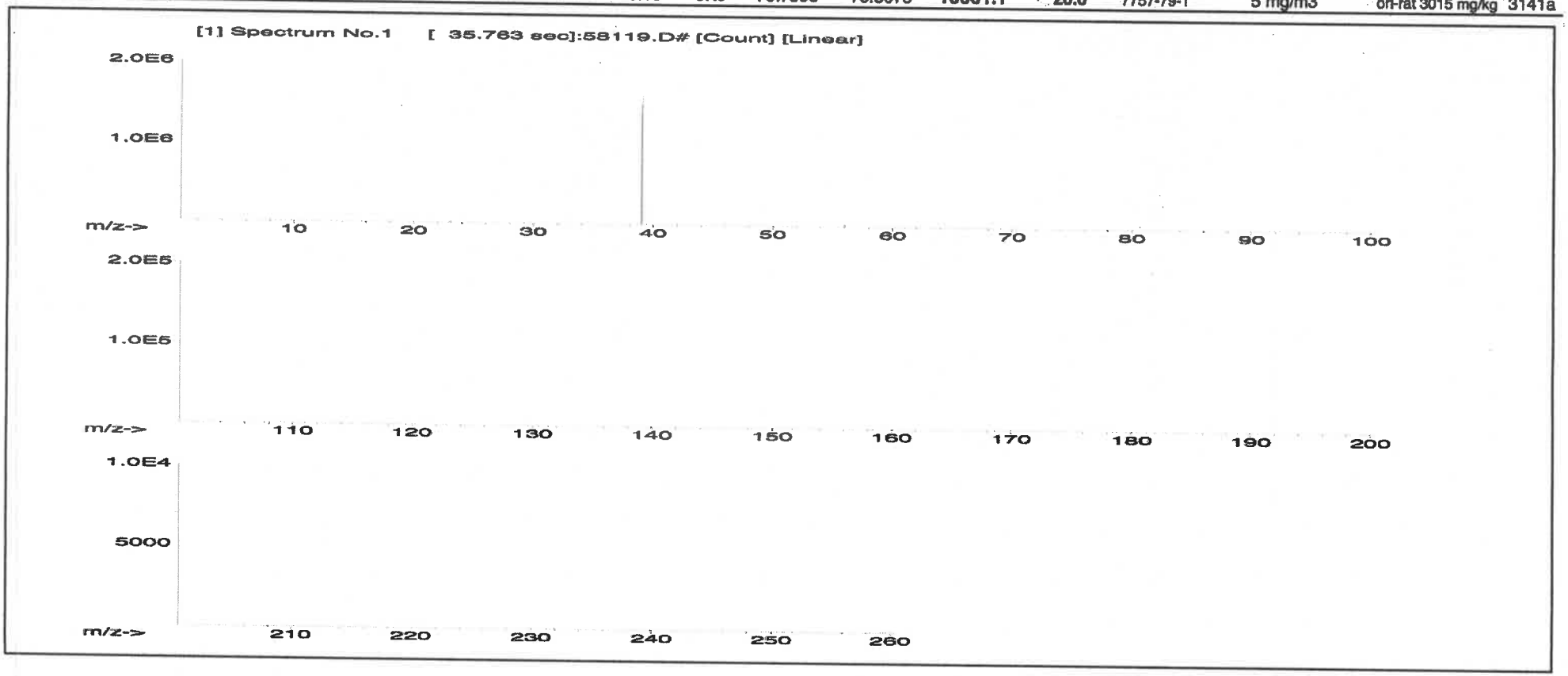
CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **58119** | | **Lot #** | | |
| **Lot Number:** | **120822** | **Solvent:** | 20510011 | Nitric Acid | |
| **Description:** | **Potassium (K)** | | | | |
| | | 2% | 60.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 120825 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **10000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 3000.4 | 0.06 | Flask Uncertainty | | |

Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 120822 |
| Reviewed By: | Pedro L. Rentas | 120822 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Potassium nitrate (K) | IN034 | KD022021A1 | 10000 | 99.999 | 0.10 | 37.6 | 79.7990 | 79.8075 | **10001.1** | **20.0** | 7757-79-1 | 5 mg/m3 | orl-rat 3015 mg/kg | 3141a |



887

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | T | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

**Certified by:**

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5658 R ! 8/25/23

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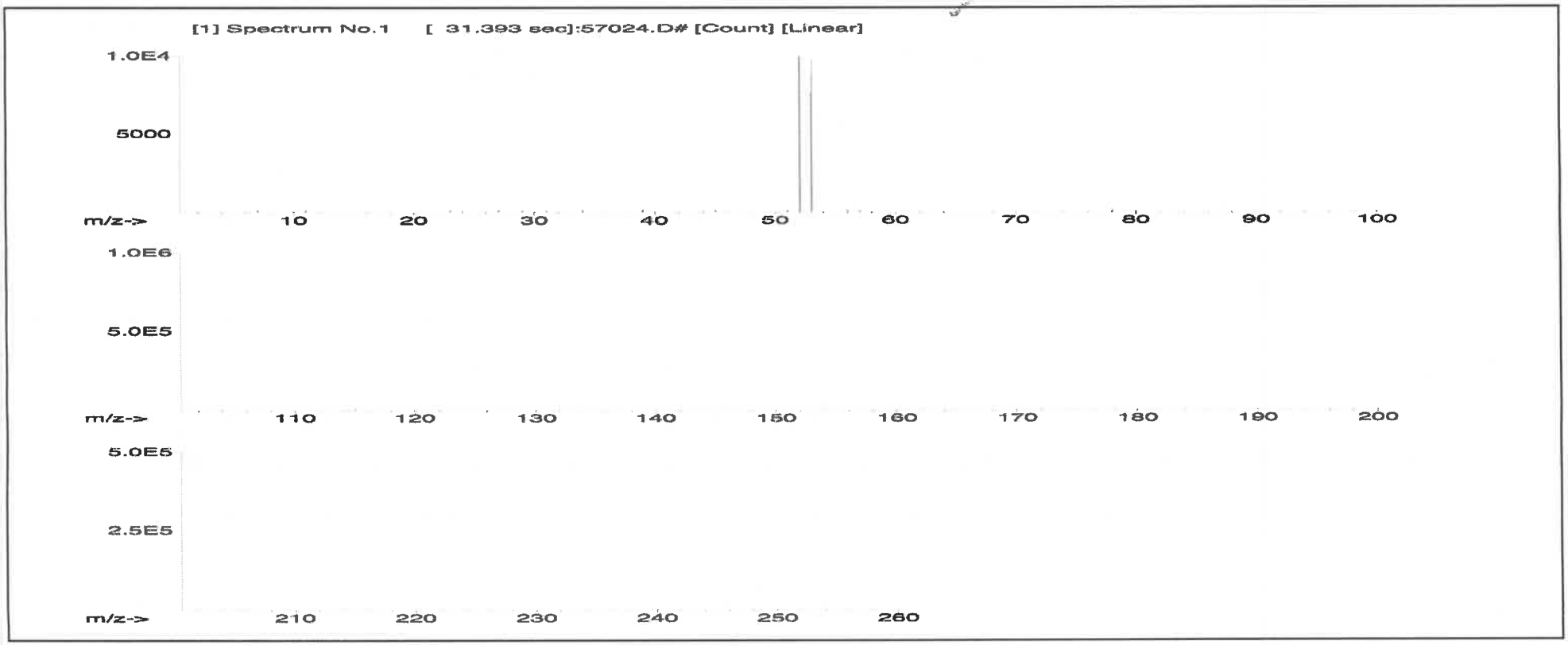
CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | |
|---|---|---|---|---|
| **Part Number:** | **58024** | 21110221 | Nitric Acid | |
| **Lot Number:** | **060523** | | | |
| **Description:** | **Chromium (Cr)** | | | |
| | | 2.0% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 060526 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Volume shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | |

| | | |
|---|---|---|
| Formulated By: | Lawrence Barry | 060523 |
| Reviewed By: | Pedro L. Rentas | 060523 |

| 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 |



**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).

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CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | | |
|---|---|---|---|---|---|
| **Part Number:** | **58029** | 24002546 | Nitric Acid | | |
| **Lot Number:** | **102523** | | | | |
| **Description:** | **Copper (Cu)** | 2.0% | 40.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 102526 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Volume shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | | |

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 102523 |
| Reviewed By: | Pedro L. Rentas | 102523 |

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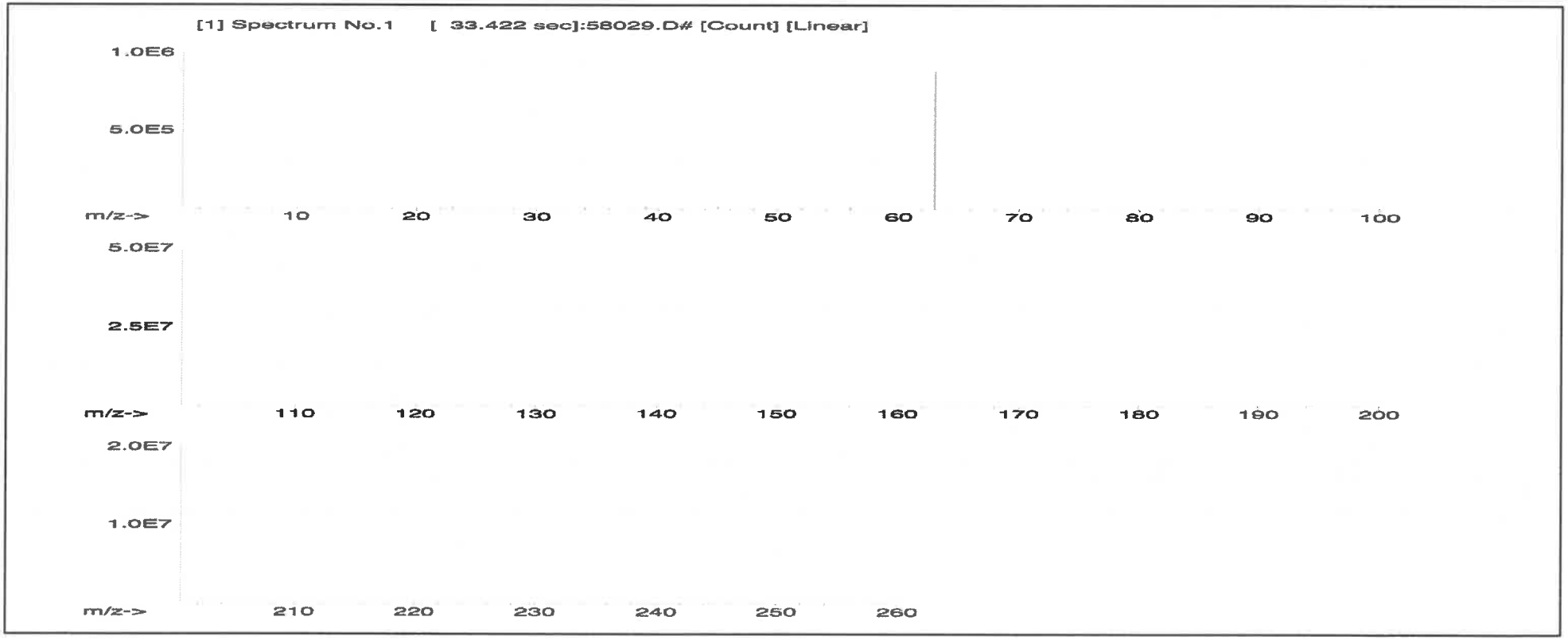
| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST 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 |



891

**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.
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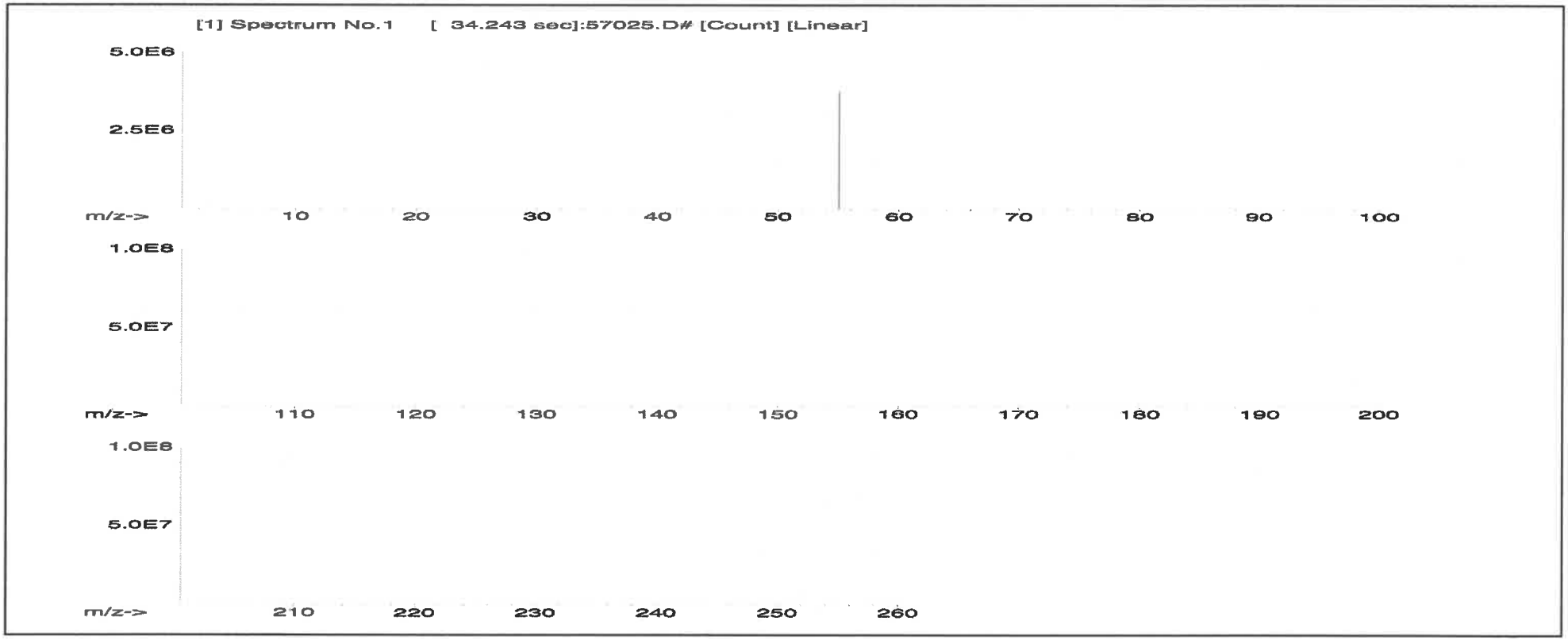
892

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 |



893

**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).
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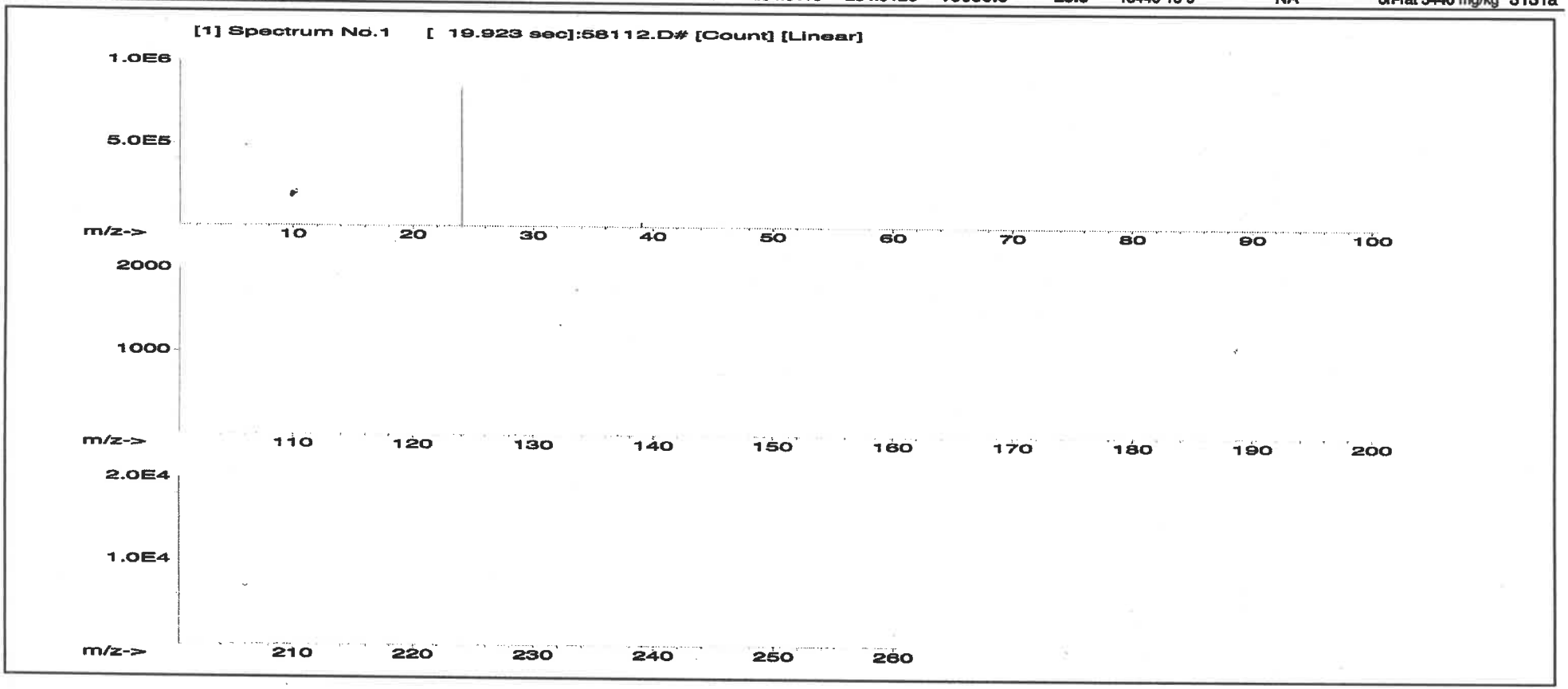
## CERTIFIED WEIGHT REPORT:

| | | | Lot # | | |
|---|---|---|---|---|---|
| **Part Number:** | **58112** | **Solvent:** | 24002546 | Nitric Acid | |
| **Lot Number:** | **091823** | | | | |
| **Description:** | **Magnesium (Mg)** | | | | |
| | | 2% | 40.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 091826 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | M5768, M5769 (BP) R: 1/3/24 | | | |
| **Nominal Concentration (µg/mL):** | **10000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | | |

Formulated By: Lawrence Barry 091823

Reviewed By: Pedro L. Rentas 091823

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Magnesium nitrate hexahydrate (Mg) | IN030 | MGD052023A1 | 10000 | 99.999 | 0.10 | 8.51 | 234.9118 | 234.9126 | **10000.0** | **20.0** | 13446-18-9 | NA | ori-rat 5440 mg/kg | 3131a |



895

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | T | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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## 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 |

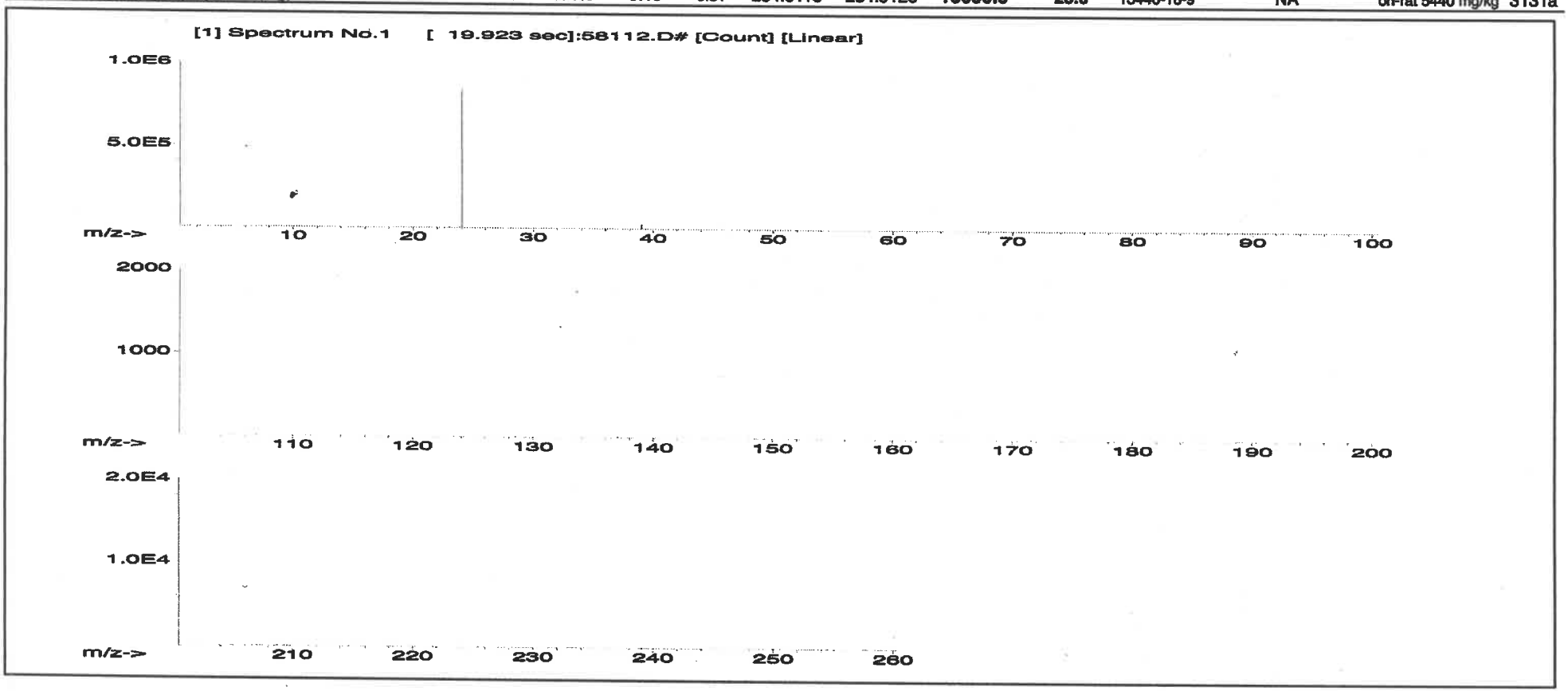
5E-05 Balance Uncertainty

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 |



897

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | T | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

**Certified by:**

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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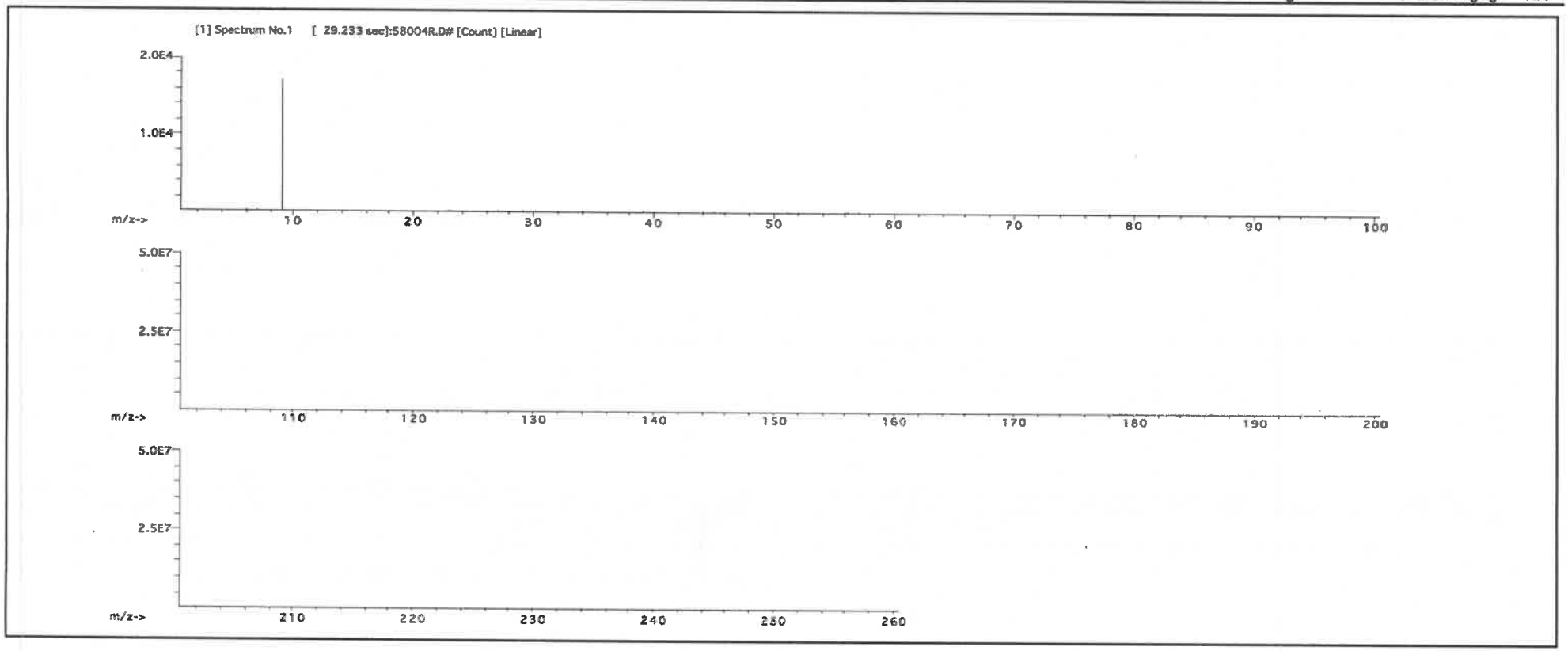
CERTIFIED WEIGHT REPORT:

| | | 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).
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006

**CERTIFIED WEIGHT REPORT:**

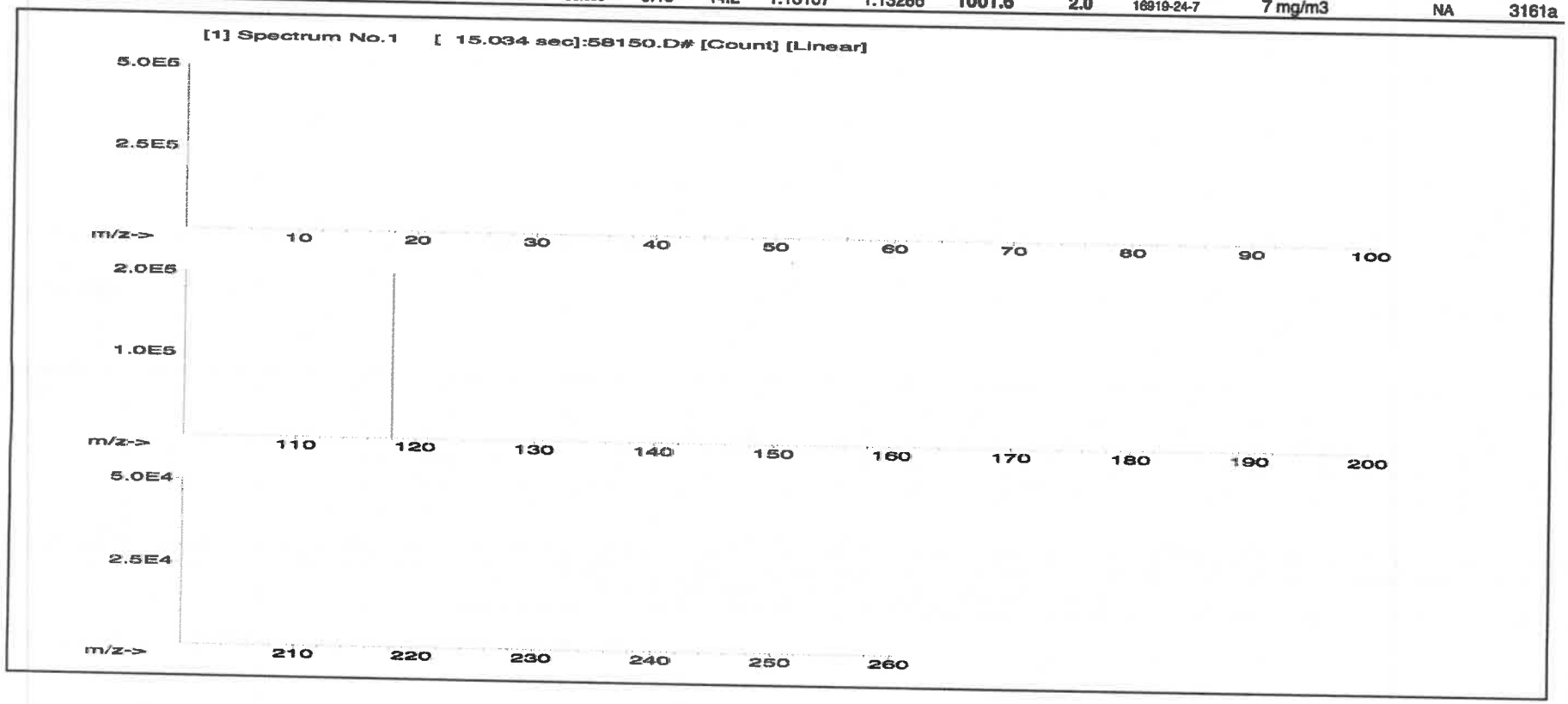
| | |
|---|---|
| **Part Number:** | 57050 |
| **Lot Number:** | 071123 |
| **Description:** | Tin (Sn) |
| **Expiration Date:** | 071126 |
| **Recommended Storage:** | Ambient (20 °C) |
| **Nominal Concentration (µg/mL):** | 1000 |
| **NIST Test Number:** | 6UTB |
| **Weight shown below was diluted 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 |



901

**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.
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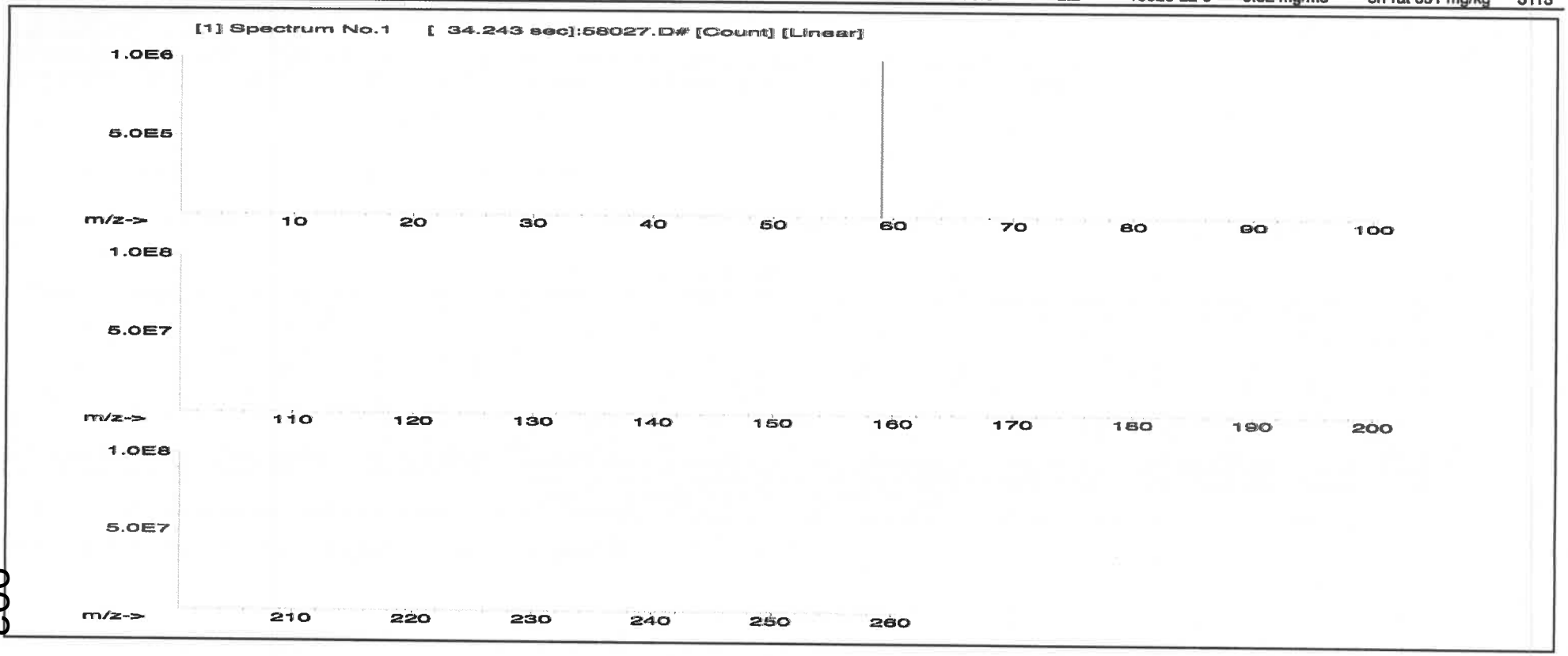
CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | | |
|---|---|---|---|---|---|
| **Part Number:** | **57027** | 24002546 | Nitric Acid | | |
| **Lot Number:** | **091923** | | | | |
| **Description:** | **Cobalt (Co)** | 2.0% | 40.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 091926 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Volume shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | | |

Formulated By: Lawrence Barry 091923

Reviewed By: Pedro L. Rentas 091923

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Cobalt(II) nitrate hexahydrate (Co) | 58127 | 050923 | 0.1000 | 200.0 | 0.084 | 1000 | 10000.0 | **1000.0** | 2.2 | 10026-22-9 | 0.02 mg/m3 | orl-rat 691 mg/kg | 3113 |




902

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | T | Gé | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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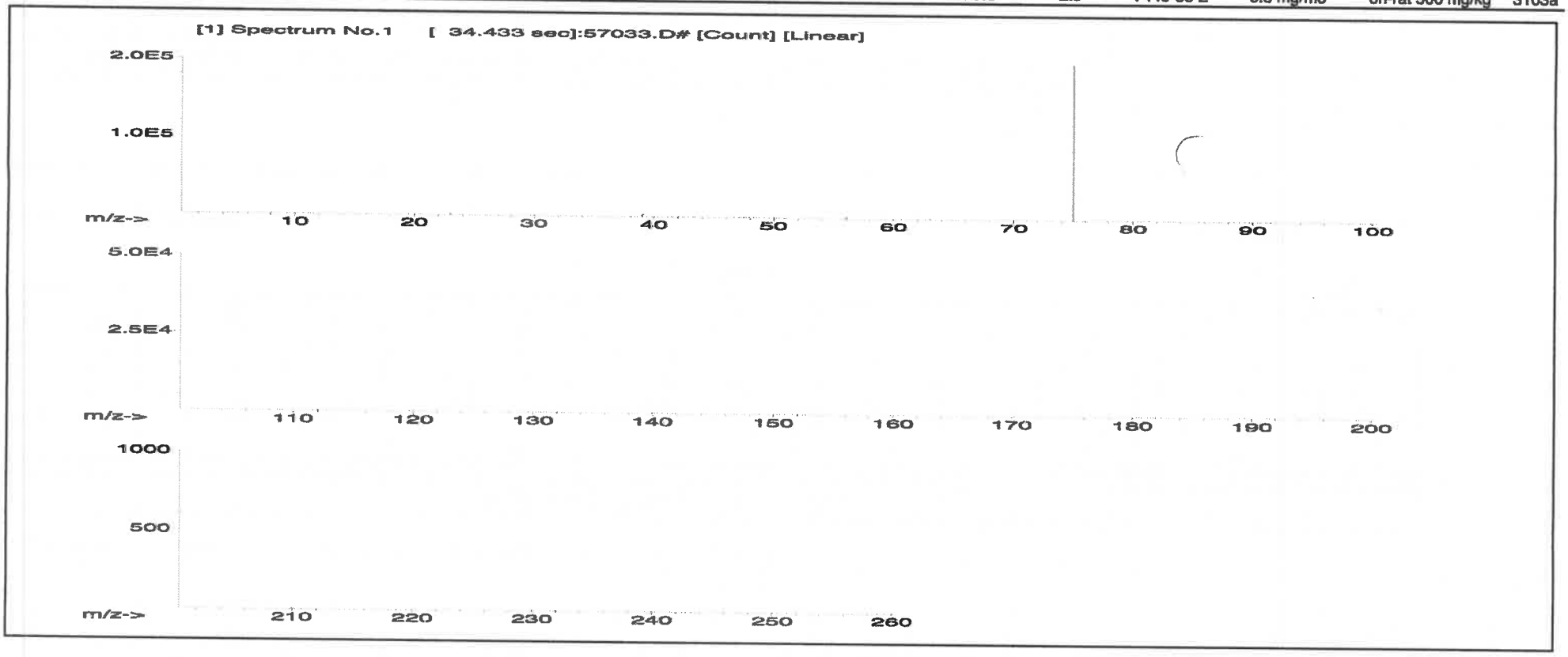
CERTIFIED **WEIGHT** REPORT:

| | | 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 |

904

| 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 |



905

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | T | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge* | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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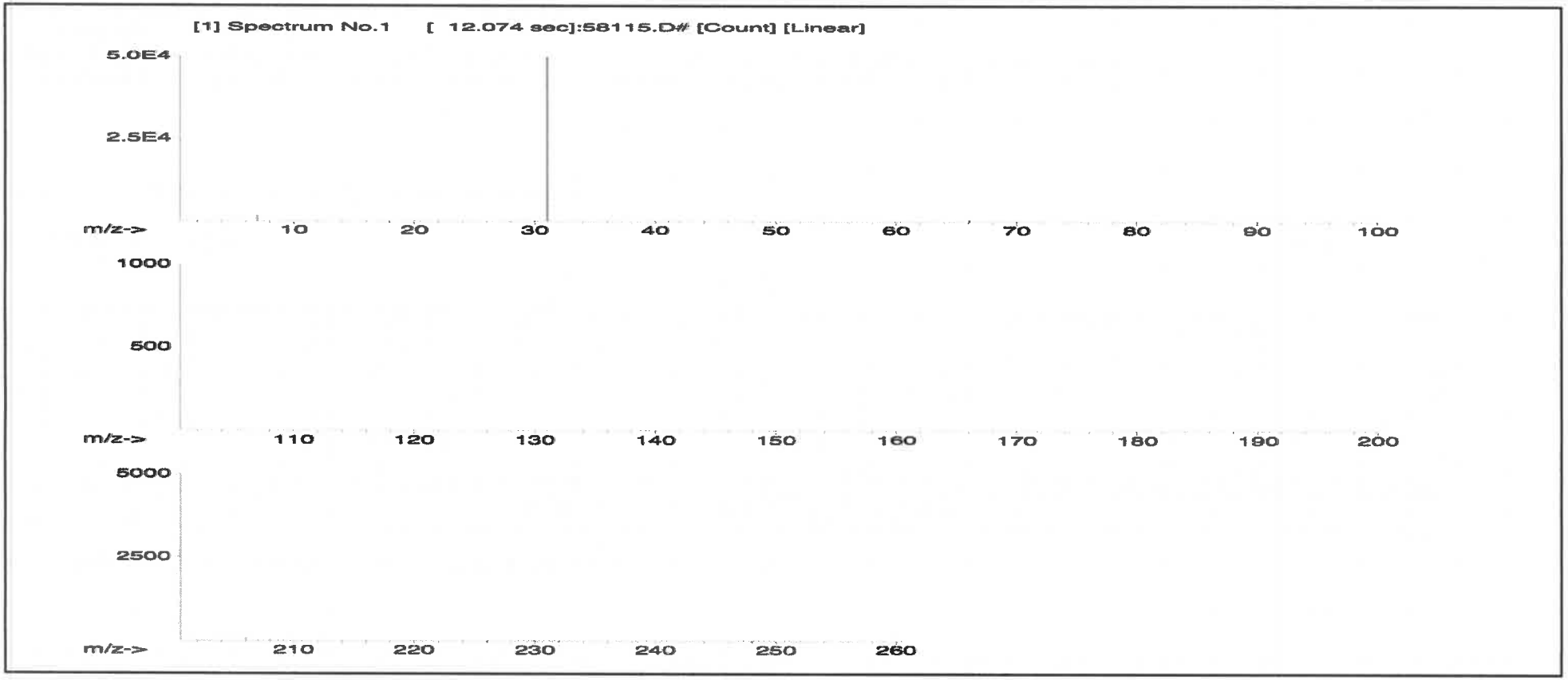
906

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 |



907

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | T | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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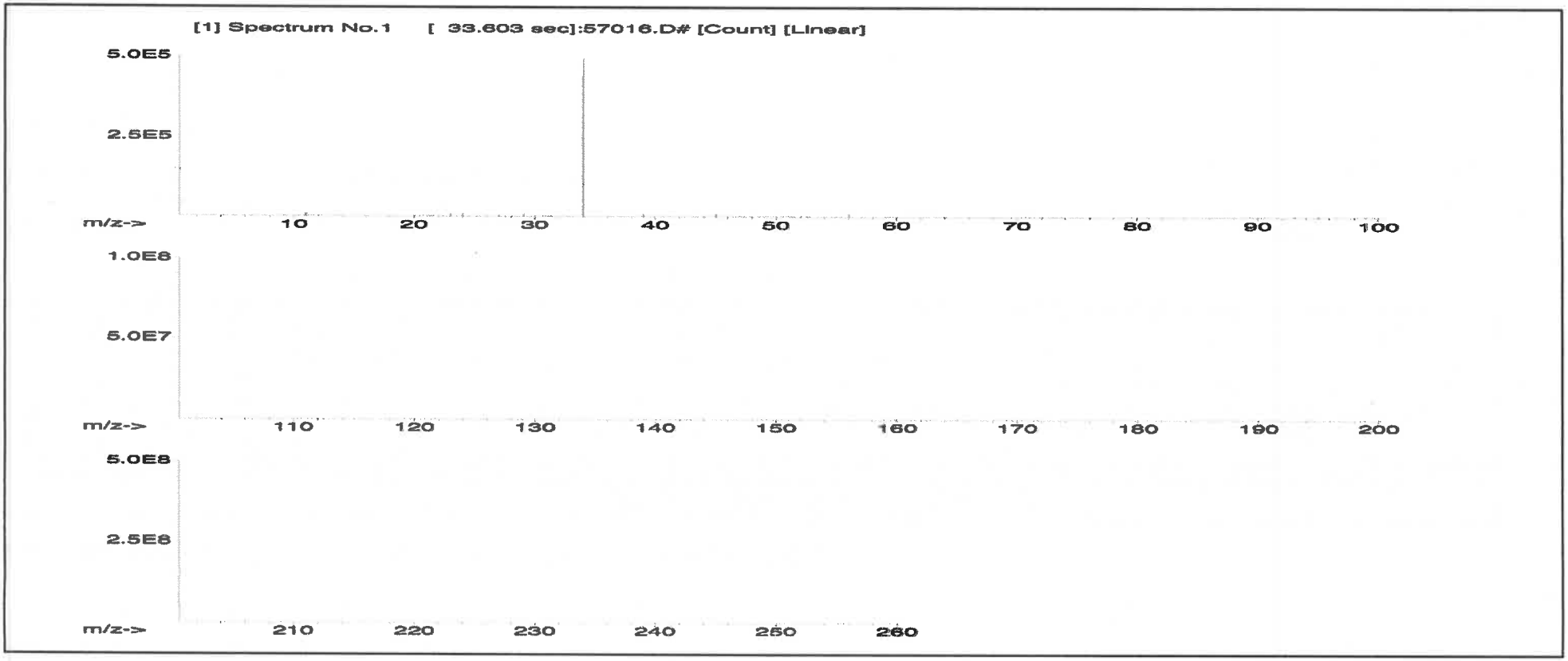
908

CERTIFIED WEIGHT REPORT:

| | | | | |
|---|---|---|---|---|
| **Part Number:** | **57016** | **Solvent:** | **Lot #** 122923 | ASTM Type 1 Water |
| **Lot Number:** | **122923** | | | |
| **Description:** | **Sulfur (S)** | | | |
| **Expiration Date:** | 122926 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Weight shown below was diluted to (mL):** | 4000.0 | 0.06 | Flask Uncertainty | |

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 122923 |
| Reviewed By: | Pedro L. Rentas | 122923 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Ammonium sulfate (S) | IN117 | SLBR7225V | 1000 | 99.9 | 0.10 | 24.3 | 16.4979 | 16.4980 | **1000.0** | **2.0** | 7783-20-2 | NA | orl-rat 4250mg/kg | 3181 |



609

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | T | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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910

CERTIFIED WEIGHT REPORT:

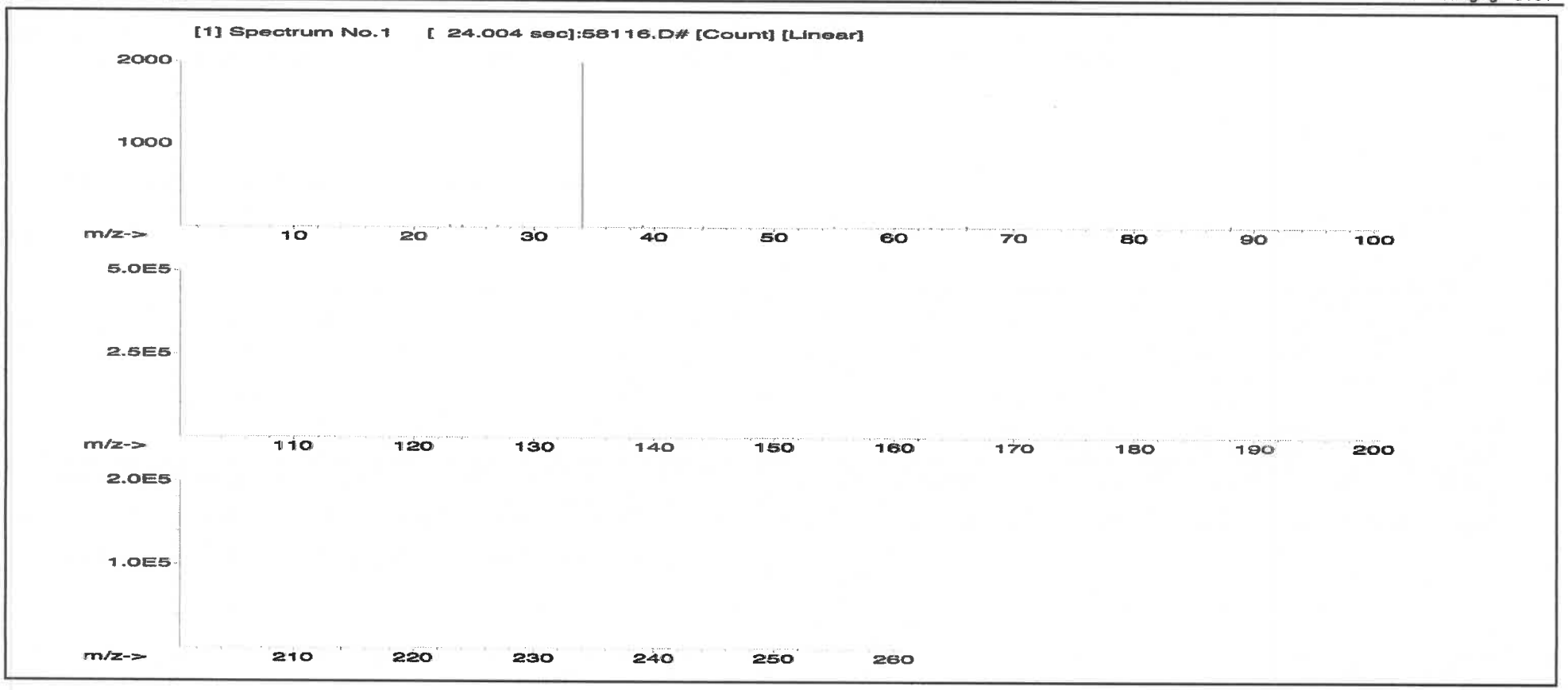
**Part Number:** 57116
**Lot Number:** 071123
**Description:** Sulfur (S)

**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 |



911

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | T | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Lot #

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912

## CERTIFIED WEIGHT REPORT:

**Part Number:** 57014
**Lot Number:** 122023
**Description:** Silicon (Si)

**Expiration Date:** 122026
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 1999.48 ± 0.058 Flask Uncertainty

**Solvent:** 24002546 Nitric Acid

2% 40.0 (mL) Nitric Acid

5E-05 Balance Uncertainty

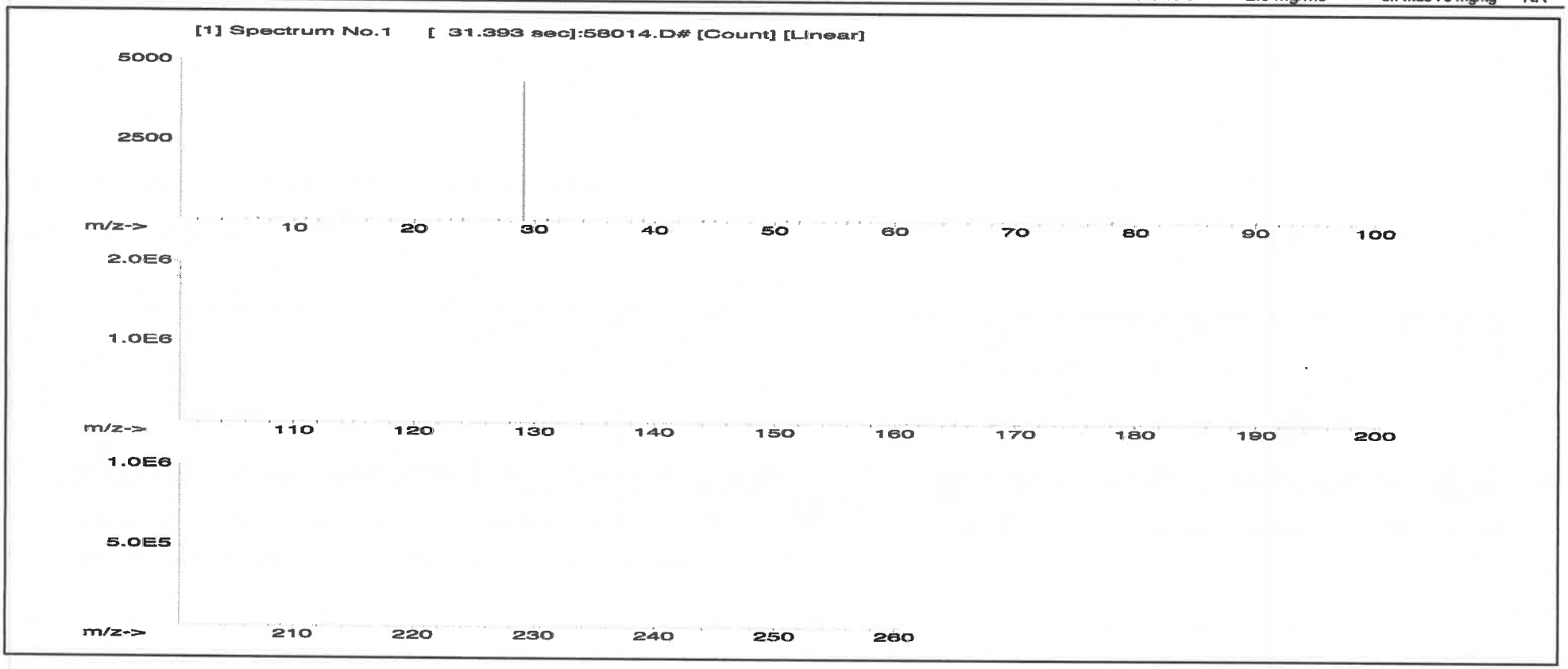
Aleah O'Brady

Formulated By: Aleah O'Brady 122023

Pedro Rentas

Reviewed By: Pedro L. Rentas 122023

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Ammonium hexafluorosilicate (Si) | IN009 | SID082022A1 | 1000 | 99.999 | 0.10 | 14.4 | 13.8854 | 13.8855 | **1000.0** | **2.0** | 16919-19-0 | 2.5 mg/m3 | orl-mus 70 mg/kg | NA |



913

**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).

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914

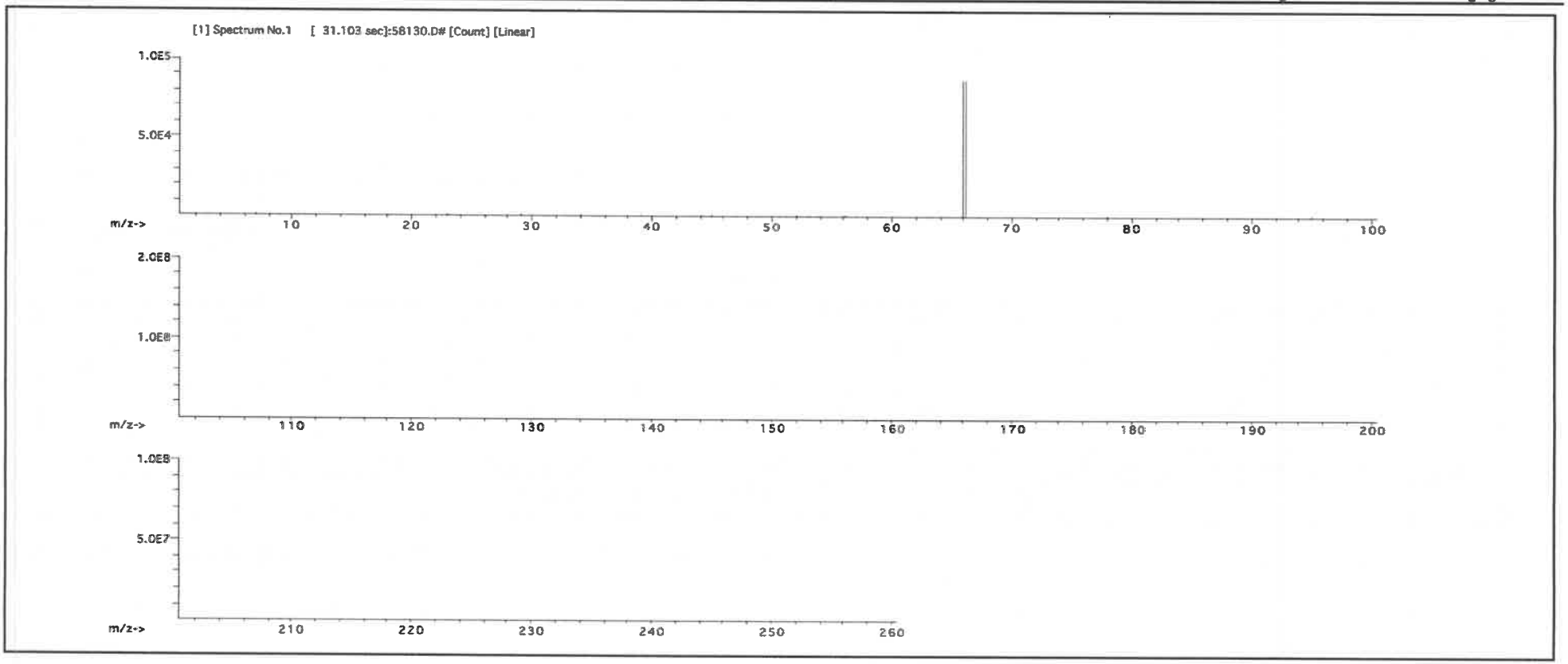
CERTIFIED WEIGHT REPORT:

| | | | | |
|---|---|---|---|---|
| **Part Number:** | **58030** | | | |
| **Lot Number:** | **111623** | | | |
| **Description:** | **Zinc (Zn)** | | | |
| | | **Solvent:** | 24002546 | Nitric Acid |
| | | 2% | 60.0 (mL) | Nitric Acid |
| **Expiration Date:** | 111626 | | | |
| **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):** | 3000.4 | 0.06 | Flask Uncertainty | |

Lot #

| | | |
|---|---|---|
| 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 |



915

**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.
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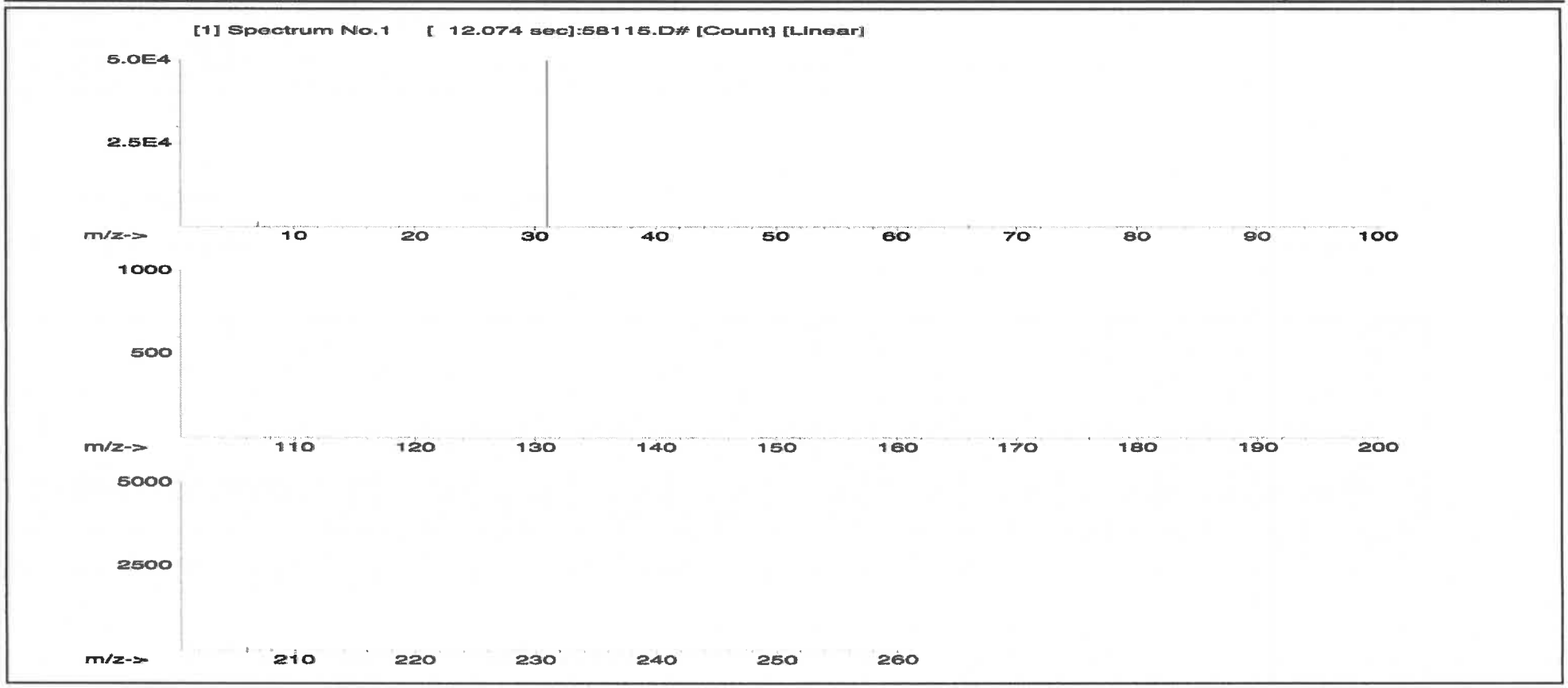
916

CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **57015** | | **Lot #** | | |
| **Lot Number:** | **091123** | **Solvent:** | 24002546 | Nitric Acid | |
| **Description:** | **Phosphorous (P)** | | | | |
| | | 2% | 40.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 091126 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | | |

| | | |
|---|---|---|
| Formulated By: | Lawrence Barry | 091123 |
| Reviewed By: | Pedro L. Rentas | 091123 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Ammonium dihydrogen phosphate (P) | IN008 | PV082019A1 | 1000 | 99.999 | 0.10 | 27.5 | 7.2729 | 7.2730 | **1000.0** | **2.0** | 7722-76-1 | 5 mg/m3 | orl-rat >2000mg/k | 3186 |



917

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | T | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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# Certificate of Analysis

M5959 R: 6/14/24.

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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:<br>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**<br>EDTA NIST SRM 928 Lot Number: 928 |
| **Assay Method #2** | **9997 ± 50 µg/mL**<br>ICP Assay NIST SRM 3167a Lot Number: 190730 |
| **Assay Method #3** | **9984 ± 31 µg/mL**<br>Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### Characterization of CRM/RM by Two or More Methods

**Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:**

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

$X_i$ = mean of Assay Method i with standard uncertainty $u_{char\ i}$

$w_i$ = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$**

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

**Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:**

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

$X_a$ = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$**

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M | Ag | < | 0.004600 | M | Eu | | 0.009037 | M | Na | | 0.086360 | M | Se | < | 0.005200 | M | Zn | | 0.030125 |
| M | Al | | 0.014862 | O | Fe | | 0.002410 | M | Nb | < | 0.000570 | O | Si | | 0.024100 | O | Zr | < | 0.002600 |
| M | As | < | 0.003500 | M | Ga | < | 0.000570 | M | Nd | | 0.000923 | M | Sm | | 0.000461 | | | | |
| M | Au | < | 0.001700 | M | Gd | < | 0.003500 | M | Ni | < | 0.005700 | M | Sn | < | 0.002300 | | | | |
| O | B | | 0.002209 | M | Ge | < | 0.005200 | M | Os | < | 0.001200 | M | Sr | < | 0.004600 | | | | |
| O | Ba | < | 0.002500 | M | Hf | < | 0.000570 | n | P | < | | M | Ta | < | 0.000570 | | | | |
| O | Be | < | 0.001400 | M | Hg | < | 0.000570 | M | Pb | | 0.005020 | M | Tb | | 0.001044 | | | | |
| M | Bi | < | 0.003500 | M | Ho | | 0.009037 | M | Pd | < | 0.005100 | M | Te | < | 0.002300 | | | | |
| O | Ca | | 0.009841 | M | In | < | 0.002300 | M | Pr | < | 0.002300 | M | Th | < | 0.000570 | | | | |
| M | Cd | < | 0.000570 | M | Ir | < | 0.000570 | M | Pt | < | 0.000570 | M | Ti | < | 0.003500 | | | | |
| M | Ce | < | 0.002300 | O | K | | 0.018677 | M | Rb | < | 0.000570 | M | Tl | < | 0.000570 | | | | |
| M | Co | < | 0.000570 | M | La | | 0.000461 | M | Re | < | 0.000570 | M | Tm | < | 0.003500 | | | | |
| M | Cr | < | 0.004000 | O | Li | < | 0.009300 | M | Rh | < | 0.008000 | M | U | < | 0.000570 | | | | |
| M | Cs | < | 0.000570 | M | Lu | | 0.000582 | M | Ru | < | 0.000570 | M | V | | 0.001265 | | | | |
| M | Cu | | 0.002610 | O | Mg | | 0.001486 | n | S | < | | M | W | < | 0.002300 | | | | |
| M | Dy | | 0.003815 | M | Mn | | 0.000582 | M | Sb | | 0.005422 | s | Y | < | | | | | |
| M | Er | | 0.003615 | M | Mo | < | 0.005700 | M | Sc | < | 0.001200 | M | Yb | | 0.001827 | | | | |

M - Checked by ICP-MS  O - Checked by ICP-OES  i - Spectral Interference
n - Not Checked For  s - Solution Standard Element

## 6.0 INTENDED USE

**6.1** This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

**6.2** For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution -** 88.91 +3 6 Y(OH)(H2O)x+2

**Chemical Compatibility -**Soluble in HCl, H2SO4 and HNO3. Avoid HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming an insoluble carbonate, oxide, oxalate, and fluoride. Avoid mixing with elements / solutions containing moderate amounts of fluoride.

**Stability -** 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

**Y Containing Samples (Preparation and Solution) -** Metal (Soluble in acids); Oxide (Dissolve by heating in H2O/ HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolve in 1:1 H2O / HCl or HNO3).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| **Technique/Line** | **Estimated D.L.** | **Order** | **Interferences** (underlined indicates severe) |
|---|---|---|---|
| ICP-MS 89 amu | 0.8 ppt | N/A | 73Ge16O, 178Hf+2 |
| ICP-OES 360.073 nm | 0.005 / 0.000036 µg/mL | 1 | Ce, Th |
| ICP-OES 371.030 nm | 0.004 / 0.00007 µg/mL | 1 | Ce |
| ICP-OES 377.433 nm | 0.005 / 0.0009 µg/mL | 1 | Ta, Th |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

**10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"**

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

February 20, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

**- February 20, 2029**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Prepared By:**

Uyen Truong
Custom Processing Supervisor

**Certificate Approved By:**

Muzzammil Khan
Stock Laboratory Supervisor

**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

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***Certified Reference Material CRM***

M5960 KK R. 6/11/24

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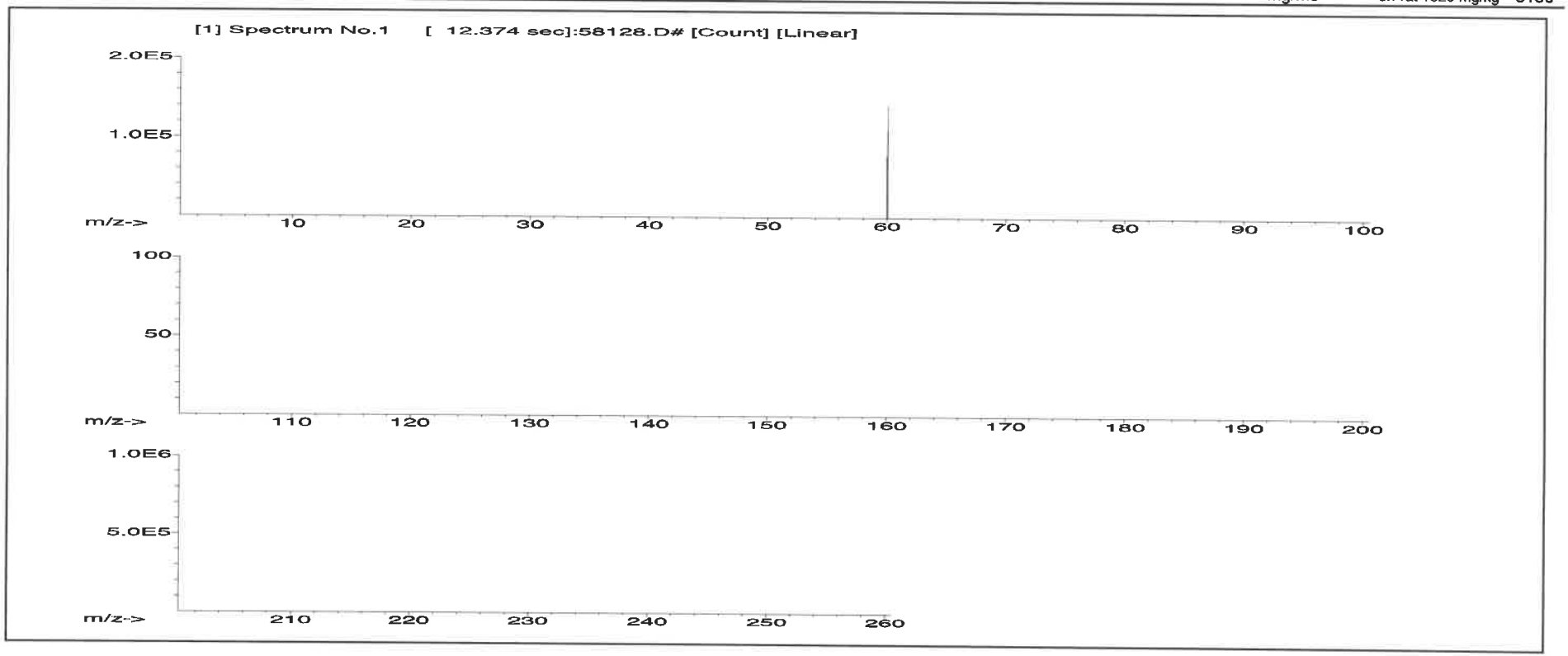
CERTIFIED WEIGHT REPORT:

| | | | Lot # | |
|---|---|---|---|---|
| **Part Number:** | **57028** | **Solvent:** | 24002546 | Nitric Acid |
| **Lot Number:** | **041124** | | | |
| **Description:** | **Nickel (Ni)** | | | |
| | | 2% | 5.0 (mL) | Nitric Acid |
| **Expiration Date:** | 041127 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Weight shown below was diluted to (mL):** | 249.85 | 0.002 | Flask Uncertainty | |

| | | |
|---|---|---|
| Formulated By: | Brian Geddes | 041124 |
| Reviewed By: | Pedro L. Rentas | 041124 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | **Actual Conc. (µg/mL)** | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Nickel(II) nitrate hexahydrate (Ni) | IN033 | NIM052023A1 | 1000 | 99.999 | 0.10 | 20.2 | 1.2369 | 1.2369 | **1000.0** | **2.0** | 13478-00-7 | 1 mg/m3 | orl-rat 1620 mg/kg | 3136 |




922

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | T | Pr | <0.02 | Sc | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5962 R! 06/14/24

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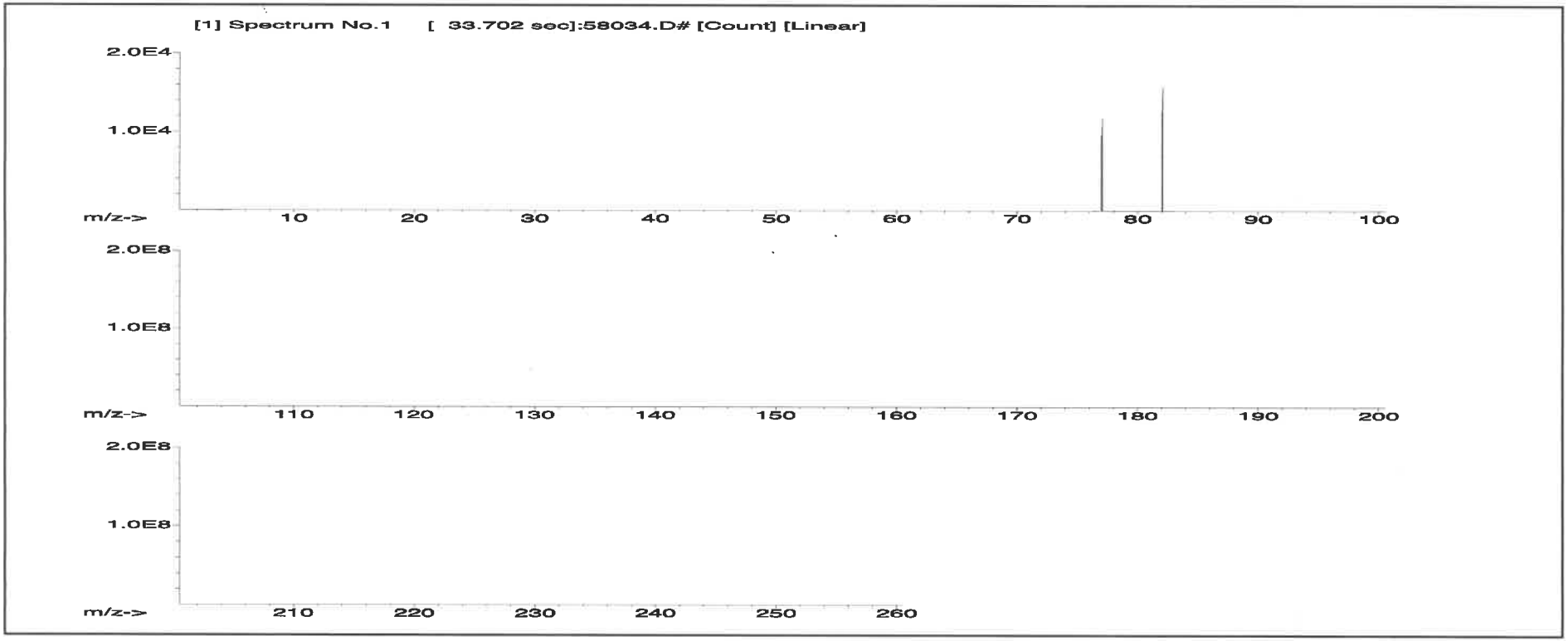
924

CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | |
|---|---|---|---|---|
| **Part Number:** | **57034** | 24002546 | Nitric Acid | |
| **Lot Number:** | **060624** | | | |
| **Description:** | **Selenium (Se)** | | | |
| | | 2.0% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 060627 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Volume shown below was diluted to (mL):** | 2000.07 | 0.100 | Flask Uncertainty | |

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 060624 |
| Reviewed By: | Pedro L. Rentas | 060624 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Selenium (Se) | 58134 | 071223 | 0.1000 | 200.0 | 0.084 | 1000 | 10002.5 | **1000.0** | **2.2** | 7782-49-2 | 0.2 mg/m3 | orl-rat 6700 mg/kg | 3149 |



925

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | T | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

**Certified by:**

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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***Certified Reference Material CRM***

M5970, M5971 R: 7/01/24

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CERTIFIED WEIGHT REPORT:

**Part Number:** 57003
**Lot Number:** 062124
**Description:** Lithium (Li)
**Expiration Date:** 062127
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB
**Volume shown below was diluted to (mL):** 250.11

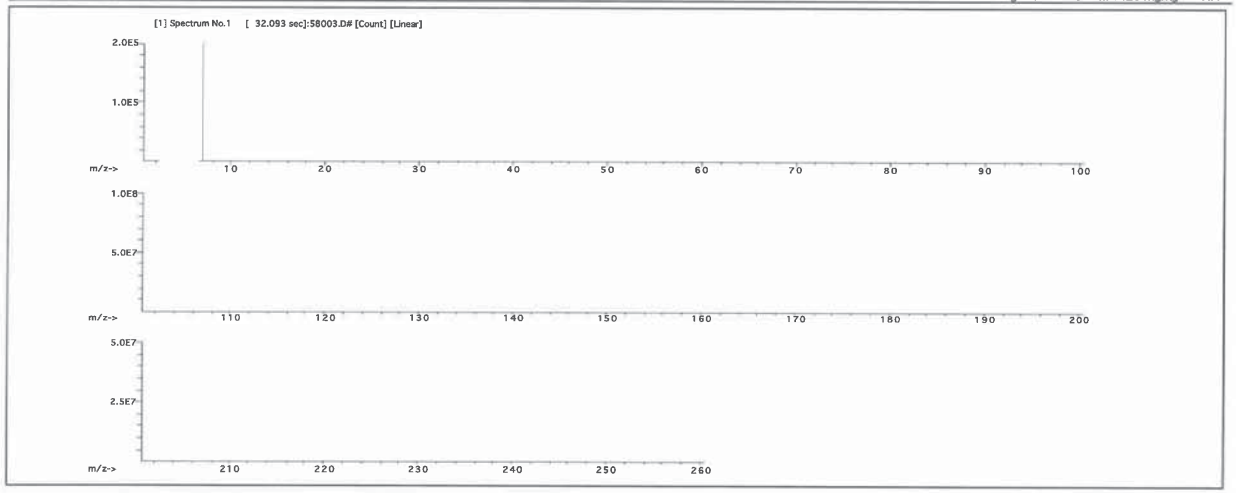
| Lot # | Solvent: | | |
|---|---|---|---|
| 24002546 | Nitric Acid | | |
| 2.0% | 5.0 (mL) | Nitric Acid | |

5E-05 Balance Uncertainty
0.016 Flask Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 062124

Pedro Rentas
Reviewed By: Pedro L. Rentas 062124

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Lithium nitrate (Li) | 58103 | 070622 | 0.1000 | 25.0 | 0.004 | 1000 | 10000.4 | **1000.0** | **2.0** | 7790-69-4 | 5 mg/m3 | orl-rat 1426 mg/kg | NA |



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**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | T | Ni | <0.02 | Pr | <0.02 | Sc | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

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# Certificate of Analysis

M5976, M5977
R: 02/22/24

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F: 540-585-3012
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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Single Analyte Custom Grade Solution |
| Catalog Number: | CGMO1 |
| Lot Number: | T2-MO720876 |
| Matrix: | H2O<br>tr. NH4OH |
| Value / Analyte(s): | 1 000 µg/mL ea:<br>Molybdenum |
| Starting Material: | Ammonium Molybdate |
| Starting Material Lot#: | 2361 |
| Starting Material Purity: | 99.9893% |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 998 ± 7 µg/mL

**Density:** 1.000 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

**Assay Method #1** **998 ± 4 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### Characterization of CRM/RM by Two or More Methods

**Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:**

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

$X_i$ = mean of Assay Method i with standard uncertainty $u_{char\ i}$

$w_i$ = the weighting factors for each method calculated using the inverse square of the variance.

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$**

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

**Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:**

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

$X_a$ = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$**

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty



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## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M | Ag | < | 0.000590 | M | Eu | < | 0.000300 | M | Na | | 0.000879 | M | Se | < | 0.008000 | M | Zn | | 0.000598 |
| M | Al | | 0.000563 | M | Fe | < | 0.006500 | M | Nb | < | 0.029000 | i | Si | < | | M | Zr | < | 0.001800 |
| M | As | < | 0.002100 | M | Ga | < | 0.000300 | i | Nd | < | | M | Sm | < | 0.000300 | | | | |
| M | Au | < | 0.000300 | M | Gd | < | 0.000300 | M | Ni | < | 0.008000 | M | Sn | < | 0.008900 | | | | |
| M | B | < | 0.003300 | M | Ge | < | 0.000300 | M | Os | < | 0.000590 | M | Sr | | 0.000175 | | | | |
| M | Ba | | 0.001689 | M | Hf | < | 0.001800 | i | P | < | | M | Ta | < | 0.004200 | | | | |
| M | Be | < | 0.000890 | M | Hg | < | 0.003300 | M | Pb | < | 0.000300 | M | Tb | < | 0.000300 | | | | |
| M | Bi | < | 0.000890 | M | Ho | < | 0.000300 | M | Pd | < | 0.001800 | M | Te | < | 0.021000 | | | | |
| O | Ca | | 0.006334 | M | In | < | 0.032000 | M | Pr | < | 0.013000 | M | Th | < | 0.000300 | | | | |
| O | Cd | < | 0.026000 | M | Ir | < | 0.000300 | M | Pt | < | 0.000300 | O | Tl | < | 0.032000 | | | | |
| M | Ce | < | 0.008300 | M | K | | 0.130213 | M | Rb | | 0.004575 | M | Tl | | 0.001266 | | | | |
| M | Co | | 0.000598 | M | La | < | 0.000300 | M | Re | < | 0.000300 | M | Tm | < | 0.000300 | | | | |
| M | Cr | | 0.000527 | O | Li | | 0.000059 | M | Rh | < | 0.000300 | M | U | < | 0.005300 | | | | |
| M | Cs | | 0.000527 | M | Lu | < | 0.000300 | M | Ru | < | 0.079000 | M | V | < | 0.000890 | | | | |
| M | Cu | | 0.002252 | M | Mg | | 0.000563 | i | S | < | | M | W | | 0.087982 | | | | |
| M | Dy | < | 0.000300 | M | Mn | < | 0.005900 | M | Sb | | 0.001513 | M | Y | < | 0.000300 | | | | |
| M | Er | < | 0.000300 | s | Mo | < | | M | Sc | < | 0.001200 | M | Yb | < | 0.000300 | | | | |

M - Checked by ICP-MS  O - Checked by ICP-OES  i - Spectral Interference
n - Not Checked For  s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution -** 95.94 +6 6,7,8,9 [MoO4]-2(chemical form as received)

**Chemical Compatibility -**Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

**Stability -** 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

**Mo Containing Samples (Preparation and Solution) -**Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl ).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| **Technique/Line** | **Estimated D.L.** | **Order** | **Interferences** (underlined indicates severe) |
|---|---|---|---|
| ICP-MS 95 amu | 3 ppt | n/a | 40Ar39K16O,79Br1 6O,190Os2+,190Pt 2+ |
| ICP-OES 202.030 nm | 0.008 / 0.0002 µg/mL | 1 | Os, Hf |
| ICP-OES 203.844 nm | 0.012 / 0.002 µg/mL | 1 | |
| ICP-OES 204.598 nm | 0.012 / 0.001 µg/mL | 1 | Ir, Ta |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02



## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

July 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

**- July 17, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Prepared By:**

Uyen Truong
Supervisor, Product Documentation

**Certificate Approved By:**

Michael Booth
Director, Technical

**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

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M5978, M5979

INORGANIC VENTURES™
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# Certificate of Analysis

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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Single Analyte Custom Grade Solution |
| Catalog Number: | CGTI1 |
| Lot Number: | T2-TI719972 |
| Matrix: | 2% (v/v) HNO3<br>tr. HF |
| Value / Analyte(s): | 1 000 µg/mL ea:<br>Titanium |
| Starting Material: | Ti Metal |
| Starting Material Lot#: | 2094 |
| Starting Material Purity: | 99.9975% |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 1002 ± 5 µg/mL

**Density:** 1.012 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

**Assay Method #1** **1002 ± 4 µg/mL**
ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

**Characterization of CRM/RM by Two or More Methods**

**Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:**

$X_{CRM/RM} = \Sigma(w_i)(\bar{x}_i)$

$\bar{x}_i$ = mean of Assay Method i with standard uncertainty $u_{char\ i}$

$w_i$ = the weighting factors for each method calculated using the inverse square of the variance

$w_i = (1/u_{char\ i}^2) / (\Sigma(1/u_{char\ i}^2))$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma(w_i)^2\,(u_{char\ i})^2]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

**Characterization of CRM/RM by One Method**

**Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:**

$X_{CRM/RM} = (\bar{x}_a)\,(u_{char\ a})$

$\bar{x}_a$ = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M | Ag | < | 0.000536 | M | Eu | < | 0.000268 | O | Na | < | 0.032670 | M | Se | | 0.001204 | O | Zn | < | 0.003267 |
| O | Al | | 0.000872 | O | Fe | | 0.003225 | O | Nb | < | 0.043560 | O | Si | | 0.004735 | O | Zr | < | 0.043560 |
| M | As | < | 0.008586 | M | Ga | < | 0.000268 | M | Nd | < | 0.000268 | M | Sm | < | 0.000268 | | | | |
| M | Au | < | 0.004577 | M | Gd | < | 0.000268 | O | Ni | < | 0.010890 | M | Sn | | 0.000096 | | | | |
| O | B | < | 0.008929 | M | Ge | < | 0.002146 | M | Os | < | 0.000269 | O | Sr | | 0.000096 | | | | |
| M | Ba | < | 0.002683 | M | Hf | | 0.002161 | O | P | < | 0.054450 | M | Ta | | 0.010560 | | | | |
| M | Be | < | 0.005366 | M | Hg | < | 0.003231 | M | Pb | < | 0.001073 | M | Tb | < | 0.000268 | | | | |
| M | Bi | < | 0.001609 | M | Ho | < | 0.000268 | M | Pd | < | 0.000268 | M | Te | < | 0.001341 | | | | |
| O | Ca | | 0.000676 | M | In | < | 0.002683 | M | Pr | < | 0.000268 | M | Th | < | 0.053663 | | | | |
| M | Cd | < | 0.000268 | M | Ir | < | 0.000269 | M | Pt | < | 0.000536 | s | Ti | < | | | | | |
| M | Ce | < | 0.000268 | M | K | | 0.001172 | M | Rb | < | 0.000268 | M | Tl | < | 0.000268 | | | | |
| M | Co | < | 0.004293 | M | La | < | 0.000268 | M | Re | < | 0.000268 | M | Tm | < | 0.000268 | | | | |
| M | Cr | | 0.000752 | O | Li | < | 0.027225 | M | Rh | < | 0.000268 | M | U | < | 0.000268 | | | | |
| M | Cs | < | 0.000268 | M | Lu | < | 0.000268 | M | Ru | < | 0.000269 | M | V | < | 0.019855 | | | | |
| O | Cu | < | 0.010890 | O | Mg | < | 0.005445 | i | S | < | | M | W | | 0.000473 | | | | |
| M | Dy | < | 0.000268 | O | Mn | < | 0.003267 | M | Sb | < | 0.006976 | M | Y | < | 0.002146 | | | | |
| M | Er | < | 0.000268 | M | Mo | | 0.000774 | O | Sc | < | 0.004900 | M | Yb | < | 0.000536 | | | | |

M - Checked by ICP-MS  O - Checked by ICP-OES  i - Spectral Interference
n - Not Checked For  s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution -** 47.87 +4 6 Ti(F)6-2

**Chemical Compatibility -** Soluble in concentrated HCl, HF, H3PO4 H2SO4 and HNO3. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

**Stability -** 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)6-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 chemically stable for years in 2-5% HNO3 / trace HF in an LDPE container.

**Ti Containing Samples (Preparation and Solution) -** Metal (Soluble in H2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H2O / HF / H2SO4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores ( fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H2O / HF / H2SO4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|---|---|---|---|
| ICP-MS 48 amu | 14 ppt | N/A | 32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)] |
| ICP-OES 323.452 nm | 0.0054 / 0.00092 µg/mL | 1 | Ce, Ar, Ni |
| ICP-OES 334.941 nm | 0.0038 / 0.000028 µg/mL | 1 | Nb, Ta, Cr, U |
| ICP-OES 336.121 nm | 0.0053 / 0.000034 µg/mL | 1 | W, Mo, Co |

**HF Note:** This standard should not be prepared or stored in glass.

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

**10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"**

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

June 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

**- June 17, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Thomas Kozikowski
Manager, Quality Control

**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

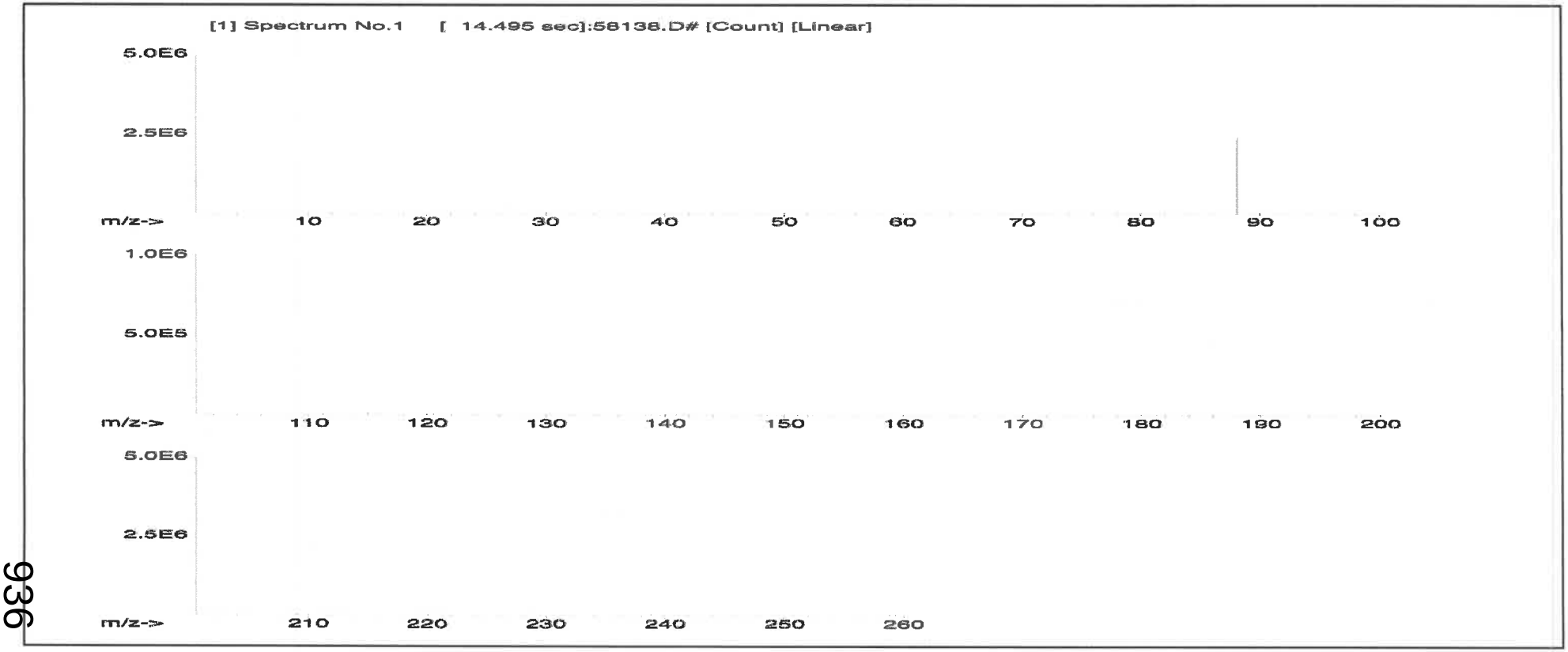
45982 R: 6/11/24

CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **57038** | | **Lot #** | | |
| **Lot Number:** | **031524** | **Solvent:** | 24002546 | Nitric Acid | |
| **Description:** | **Strontium (Sr)** | | | | |
| | | 2% | 40.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 031527 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 2000.07 | 0.100 | Flask Uncertainty | | |

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 031524 |
| Reviewed By: | Pedro L. Rentas | 031524 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Strontium nitrate (Sr) | IN017 | SRZ022018A1 | 1000 | 99.997 | 0.10 | 41.2 | 4.85470 | 4.85502 | **1000.1** | **2.0** | 10042-76-9 | NA | orl-rat >2000mg/kg | 3153a |

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**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | T | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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Refine your results. Redefine your industry.

# Certificate of Analysis

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MS985
R: 6/14/24

## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 863.01
ACCREDITED Reference Material Producer Certificate 863.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Single Analyte Custom Grade Solution |
| Catalog Number: | CGIN10 |
| Lot Number: | U2-IN729349 |
| Matrix: | 5% (v/v) HNO3 |
| Value / Analyte(s): | 10 000 µg/mL ea: Indium |
| Starting Material: | Indium Metal |
| Starting Material Lot#: | 2511 |
| Starting Material Purity: | 99.9995% |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10022 ± 30 µg/mL

**Density:** 1.044 g/mL (measured at 20 ± 4 °C)

### Assay Information:

| | |
|---|---|
| **Assay Method #1** | **10021 ± 56 µg/mL**<br>ICP Assay NIST SRM 3124a Lot Number: 110516 |
| **Assay Method #2** | **10035 ± 25 µg/mL**<br>EDTA NIST SRM 928 Lot Number: 928 |
| **Assay Method #3** | **10001 ± 33 µg/mL**<br>Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.



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### Characterization of CRM/RM by Two or More Methods

**Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:**

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

$X_i$ = mean of Assay Method i with standard uncertainty $u_{char\ i}$

$w_i$ = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$**

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

**Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:**

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

$X_a$ = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$**

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M | Ag | < | 0.000760 | M | Eu | < | 0.000760 | O | Na | | 0.012771 | M | Se | < | 0.023000 | M | Zn | < | 0.006100 |
| M | Al | | 0.003385 | O | Fe | | 0.004462 | M | Nb | < | 0.000760 | O | Si | | 0.024619 | M | Zr | < | 0.000760 |
| M | As | < | 0.004600 | M | Ga | < | 0.000760 | M | Nd | < | 0.000760 | M | Sm | < | 0.000760 | | | | |
| M | Au | < | 0.002300 | M | Gd | < | 0.000760 | O | Ni | < | 0.005100 | M | Sn | < | 0.000760 | | | | |
| O | B | | 0.003692 | M | Ge | < | 0.001600 | M | Os | < | 0.000760 | O | Sr | < | 0.000610 | | | | |
| M | Ba | < | 0.001600 | M | Hf | < | 0.000760 | n | P | < | | M | Ta | < | 0.000760 | | | | |
| O | Be | < | 0.000130 | M | Hg | < | 0.003100 | M | Pb | | 0.001400 | M | Tb | < | 0.000760 | | | | |
| M | Bi | < | 0.000760 | M | Ho | < | 0.000760 | M | Pd | < | 0.001600 | M | Te | < | 0.000760 | | | | |
| O | Ca | | 0.004616 | s | In | < | | M | Pr | < | 0.000760 | M | Th | < | 0.000760 | | | | |
| M | Cd | < | 0.000760 | M | Ir | < | 0.000760 | M | Pt | < | 0.000760 | O | Ti | < | 0.001100 | | | | |
| M | Ce | < | 0.000760 | O | K | | 0.007078 | M | Rb | < | 0.000760 | M | Tl | < | 0.000760 | | | | |
| M | Co | < | 0.000760 | M | La | < | 0.000760 | M | Re | < | 0.000760 | M | Tm | < | 0.000760 | | | | |
| O | Cr | < | 0.001300 | O | Li | < | 0.000130 | M | Rh | < | 0.000760 | M | U | < | 0.000760 | | | | |
| M | Cs | < | 0.000760 | M | Lu | < | 0.000760 | M | Ru | < | 0.000760 | M | V | < | 0.001600 | | | | |
| M | Cu | < | 0.003800 | O | Mg | | 0.000707 | n | S | < | | M | W | < | 0.001600 | | | | |
| M | Dy | < | 0.000760 | O | Mn | | 0.000149 | M | Sb | < | 0.000760 | M | Y | < | 0.000760 | | | | |
| M | Er | < | 0.000760 | M | Mo | < | 0.002300 | M | Sc | < | 0.000760 | M | Yb | < | 0.000760 | | | | |

M - Checked by ICP-MS  O - Checked by ICP-OES  i - Spectral Interference
n - Not Checked For  s - Solution Standard Element

## 6.0 INTENDED USE

**6.1** This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

**6.2** For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution -** 114.82 +3 6 In(H2O)6+3

**Chemical Compatibility -**Soluble in HCl, HNO3, and H2SO4. Avoid neutral and basic media. Stable with most metals and inorganic anions. The oxalate, sulfide, carbonate, hydroxide and phosphate are insoluble in water.

**Stability -** 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

**In Containing Samples (Preparation and Solution) -**Metal (Best dissolved in HCl / HNO3 ); Oxide (Soluble in mineral acids); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in dilute HCl).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| **Technique/Line** | **Estimated D.L.** | **Order** | **Interferences** (underlined indicates severe) |
|---|---|---|---|
| ICP-MS 115 amu | 1 ppt | n/a | 115Sn, 99Ru16O |
| ICP-OES 158.583 nm | 0.05 / 0.002 µg/mL | 1 | |
| ICP-OES 230.606 nm | 0.1 / 0.03 µg/mL | 1 | Ni, Os |
| ICP-OES 325.609 nm | 0.2 / 0.05 µg/mL | 1 | Mn, Mo, Th |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

**10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"**

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

February 21, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

**- February 21, 2028**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Thomas Kozikowski
Manager, Quality Control

**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

# Certificate of Analysis

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M5999

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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Multi Analyte Custom Grade Solution |
| Catalog Number: | CLPP-SPK-1 |
| Lot Number: | T2-MEB721963 |
| Matrix: | 7% (v/v) HNO3 |
| Value / Analyte(s): | 2 000 µg/mL ea: Aluminum, Barium,<br>1 000 µg/mL ea: Iron,<br>500 µg/mL ea: Manganese, Nickel, Vanadium, Zinc, Cobalt,<br>250 µg/mL ea: Copper,<br>200 µg/mL ea: Chromium,<br>50 µg/mL ea: Beryllium, Silver |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|---|---|---|---|
| Aluminum, Al | 2 000 ± 7 µg/mL | Barium, Ba | 2 000 ± 9 µg/mL |
| Beryllium, Be | 50.00 ± 0.26 µg/mL | Chromium, Cr | 200.0 ± 1.1 µg/mL |
| Cobalt, Co | 500.0 ± 2.4 µg/mL | Copper, Cu | 250.0 ± 1.0 µg/mL |
| Iron, Fe | 1 000 ± 4 µg/mL | Manganese, Mn | 500.0 ± 2.0 µg/mL |
| Nickel, Ni | 500.0 ± 2.2 µg/mL | Silver, Ag | 50.00 ± 0.22 µg/mL |
| Vanadium, V | 500.0 ± 2.2 µg/mL | Zinc, Zn | 500.0 ± 2.2 µg/mL |

**Density:** 1.070 g/mL (measured at 20 ± 4 °C)

**Assay Information:**



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| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---|---|---|---|
| Ag | ICP Assay | 3151 | 160729 |
| Ag | Volhard | 999c | 999c |
| Ag | Calculated | | See Sec. 4.2 |
| Al | ICP Assay | 3101a | 140903 |
| Al | EDTA | 928 | 928 |
| Ba | ICP Assay | 3104a | 140909 |
| Ba | Gravimetric | | See Sec. 4.2 |
| Be | ICP Assay | 3105a | 090514 |
| Be | Calculated | | See Sec. 4.2 |
| Co | ICP Assay | 3113 | 190630 |
| Co | EDTA | 928 | 928 |
| Cr | ICP Assay | 3112a | 170630 |
| Cu | ICP Assay | 3114 | 121207 |
| Cu | EDTA | 928 | 928 |
| Fe | ICP Assay | 3126a | 140812 |
| Fe | EDTA | 928 | 928 |
| Mn | ICP Assay | 3132 | 050429 |
| Mn | EDTA | 928 | 928 |
| Ni | ICP Assay | 3136 | 120619 |
| Ni | EDTA | 928 | 928 |
| V | IC Assay | 3165 | 160906 |
| V | EDTA | 928 | 928 |
| Zn | ICP Assay | 3168a | 120629 |
| Zn | EDTA | 928 | 928 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### Characterization of CRM/RM by Two or More Methods

**Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:**

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

$X_i$ = mean of Assay Method i with standard uncertainty $u_{char\ i}$

$w_i$ = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$**

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

**Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:**

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

$X_a$ = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$**

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

**Note**: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

July 27, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

### 11.2 Lot Expiration Date

**- July 27, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

### 11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Thomas Kozikowski
Manager, Quality Control

**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

R → 10/13/24
Met dig

M 6121

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
Revision No: 1

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| ACS - Assay (as HCl) (by acid-base titrn) | 36.5 - 38.0 % | 37.6 |
| ACS - Color (APHA) | <= 10 | 5 |
| ACS - Residue after Ignition | <= 3 ppm | 1 |
| ACS - Specific Gravity at 60°/60°F | 1.185 - 1.192 | 1.190 |
| ACS - Bromide (Br) | <= 0.005 % | < 0.005 |
| ACS - Extractable Organic Substances | <= 5 ppm | 1 |
| ACS - Free Chlorine (as $Cl_2$) | <= 0.5 ppm | < 0.5 |
| Phosphate ($PO_4$) | <= 0.05 ppm | < 0.03 |
| Sulfate ($SO_4$) | <= 0.5 ppm | < 0.3 |
| Sulfite ($SO_3$) | <= 0.8 ppm | 0.3 |
| Ammonium ($NH_4$) | <= 3 ppm | < 1 |
| Trace Impurities - Arsenic (As) | <= 0.010 ppm | < 0.003 |
| Trace Impurities - Aluminum (Al) | <= 10.0 ppb | < 0.2 |
| Arsenic and Antimony (as As) | <= 5 ppb | < 3 |
| Trace Impurities - Barium (Ba) | <= 1.0 ppb | < 0.2 |
| Trace Impurities - Beryllium (Be) | <= 1.0 ppb | < 0.2 |
| Trace Impurities - Bismuth (Bi) | <= 10.0 ppb | < 1.0 |
| Trace Impurities - Boron (B) | <= 20.0 ppb | < 5.0 |
| Trace Impurities - Cadmium (Cd) | <= 1.0 ppb | < 0.3 |
| Trace Impurities - Calcium (Ca) | <= 50.0 ppb | 29.7 |
| Trace Impurities - Chromium (Cr) | <= 1.0 ppb | < 0.4 |
| Trace Impurities - Cobalt (Co) | <= 1.0 ppb | < 0.3 |
| Trace Impurities - Copper (Cu) | <= 1.0 ppb | < 0.1 |
| Trace Impurities - Gallium (Ga) | <= 1.0 ppb | < 0.2 |

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

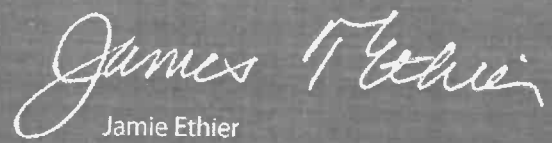
946

Material No.: 9530-33
Batch No.: 0000275677

| Test | Specification | Result |
|---|---|---|
| Trace Impurities - Germanium (Ge) | <= 3.0 ppb | < 2.0 |
| Trace Impurities - Gold (Au) | <= 4.0 ppb | < 0.2 |
| Heavy Metals (as Pb) | <= 100 ppb | < 50 |
| Trace Impurities - Iron (Fe) | <= 15.0 ppb | <1 |
| Trace Impurities - Lead (Pb) | <= 1.0 ppb | < 0.5 |
| Trace Impurities - Lithium (Li) | <= 1.0 ppb | 0.2 |
| Trace Impurities - Magnesium (Mg) | <= 10.0 ppb | 0.4 |
| Trace Impurities - Manganese (Mn) | <= 1.0 ppb | < 0.4 |
| Trace Impurities - Mercury (Hg) | <= 0.5 ppb | 0.1 |
| Trace Impurities - Molybdenum (Mo) | <= 10.0 ppb | < 5.0 |
| Trace Impurities - Nickel (Ni) | <= 4.0 ppb | < 0.3 |
| Trace Impurities - Niobium (Nb) | <= 1.0 ppb | < 0.2 |
| Trace Impurities - Potassium (K) | <= 9.0 ppb | < 2.0 |
| Trace Impurities - Selenium (Se), For Information Only | ppb | 1.0 |
| Trace Impurities - Silicon (Si) | <= 100.0 ppb | < 10.0 |
| Trace Impurities - Silver (Ag) | <= 1.0 ppb | < 0.3 |
| Trace Impurities - Sodium (Na) | <= 100.0 ppb | < 5.0 |
| Trace Impurities - Strontium (Sr) | <= 1.0 ppb | < 0.2 |
| Trace Impurities - Tantalum (Ta) | <= 1.0 ppb | < 0.9 |
| Trace Impurities - Thallium (Tl) | <= 5.0 ppb | < 2.0 |
| Trace Impurities - Tin (Sn) | <= 5.0 ppb | < 0.8 |
| Trace Impurities - Titanium (Ti) | <= 1.0 ppb | 0.2 |
| Trace Impurities - Vanadium (V) | <= 1.0 ppb | < 0.2 |
| Trace Impurities - Zinc (Zn) | <= 5.0 ppb | 0.3 |
| Trace Impurities - Zirconium (Zr) | <= 1.0 ppb | < 0.1 |

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
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947

M6125 Receive -> 11/22/24

# CORCO CHEMICAL CORPORATION

Manufacturers of ACS Reagents and Semiconductor Grade Chemicals

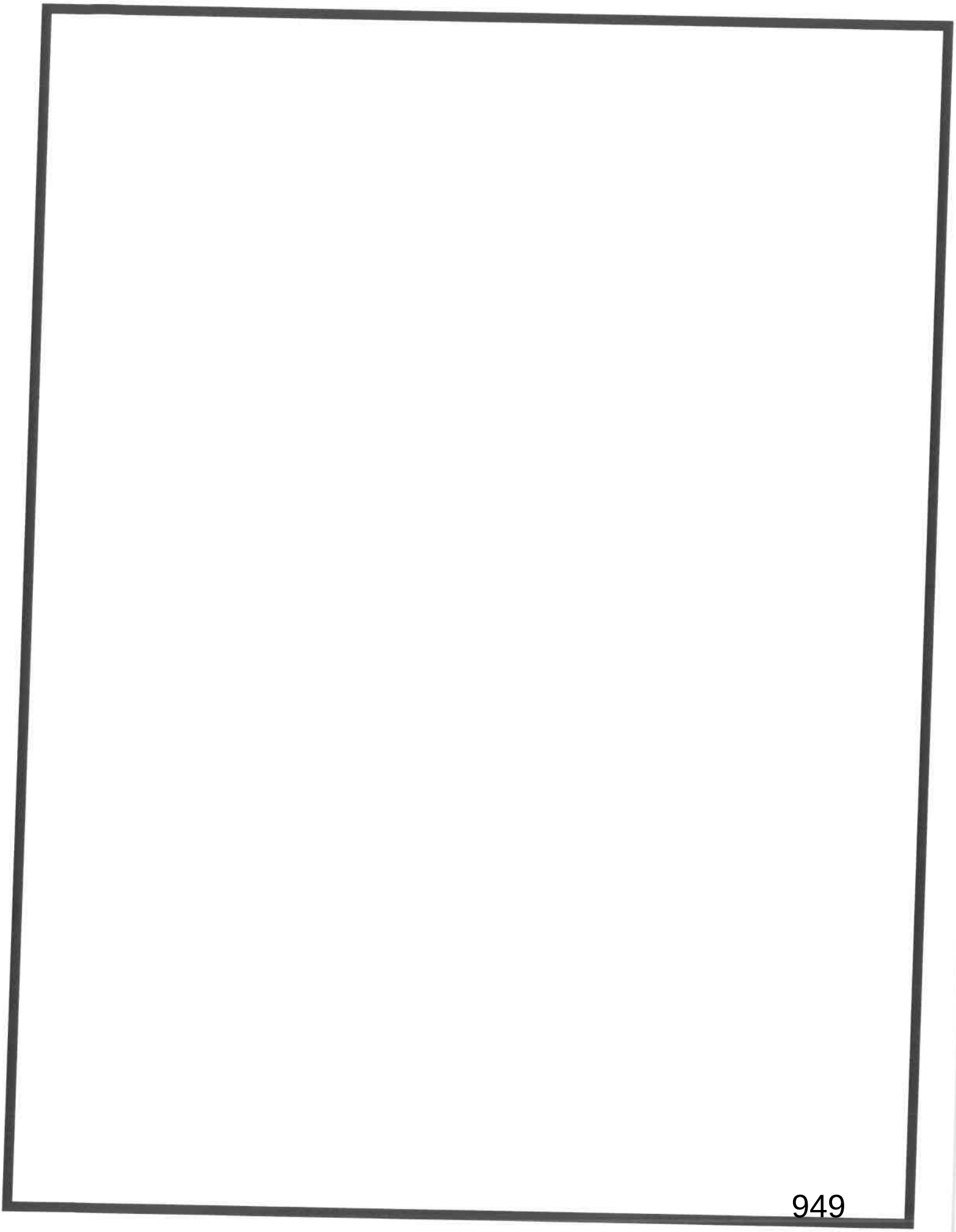
Office and Plant
299 Cedar Lane
Fairless Hills, PA 19030

Phone: 215-295-5006
Fax: 215-295-0781

## Hydrogen Peroxide 30%, ACS

Reagent Grade

| SPECIFICATION | MAXIMUM LIMITS |
|---|---|
| Appearance | Colorless and free from suspended matter or sediment |
| Assay | 29-32% |
| Color (APHA) | 10 |
| Residue after Evaporation | 0.002% |
| Titratable Acid | 0.0006 meq/g |
| Chloride (Cl) | 3 ppm |
| Nitrate ($NO_3$) | 2 ppm |
| Phosphate | 2 ppm |
| Sulfate ($SO_4$) | 5 ppm |
| Ammonium ($NH_4$) | 5 ppm |
| Heavy Metals (as Pb) | 1 ppm |
| Iron (Fe) | 0.5 ppm |



Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R -> 11/12/24

M6126

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($HNO_3$) | 69.0 - 70.0 % | 69.7 % |
| Appearance | Passes Test | Passes Test |
| Color (APHA) | ≤ 10 | 5 |
| Residue after Ignition | ≤ 2 ppm | 1 ppm |
| Chloride (Cl) | ≤ 0.08 ppm | < 0.03 ppm |
| Phosphate ($PO_4$) | ≤ 0.10 ppm | < 0.03 ppm |
| Sulfate ($SO_4$) | ≤ 0.2 ppm | < 0.2 ppm |
| Trace Impurities - Aluminum (Al) | ≤ 40.0 ppb | < 1.0 ppb |
| Arsenic and Antimony (as As) | ≤ 5.0 ppb | < 2.0 ppb |
| Trace Impurities - Barium (Ba) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Beryllium (Be) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Bismuth (Bi) | ≤ 20.0 ppb | < 10.0 ppb |
| Trace Impurities - Boron (B) | ≤ 10.0 ppb | < 5.0 ppb |
| Trace Impurities - Cadmium (Cd) | ≤ 50 ppb | < 1 ppb |
| Trace Impurities - Calcium (Ca) | ≤ 50.0 ppb | 2.3 ppb |
| Trace Impurities - Chromium (Cr) | ≤ 30.0 ppb | < 1.0 ppb |
| Trace Impurities - Cobalt (Co) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Copper (Cu) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Gallium (Ga) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Germanium (Ge) | ≤ 20 ppb | < 10 ppb |
| Trace Impurities - Gold (Au) | ≤ 20 ppb | < 5 ppb |
| Heavy Metals (as Pb) | ≤ 100 ppb | 100 ppb |
| Trace Impurities - Iron (Fe) | ≤ 40.0 ppb | < 1.0 ppb |
| Trace Impurities - Lead (Pb) | ≤ 20.0 ppb | < 10.0 ppb |
| Trace Impurities - Lithium (Li) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Magnesium (Mg) | ≤ 20 ppb | < 1 ppb |
| Trace Impurities - Manganese (Mn) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Nickel (Ni) | ≤ 20.0 ppb | < 5.0 ppb |

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

| Test | Specification | Result |
|---|---|---|

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

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*Certified Reference Material CRM*

R: 01/03/24 M5806, M5807

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952

CERTIFIED WEIGHT REPORT:

**Part Number:** 58111
**Lot Number:** 122223
**Description:** Sodium (Na)

**Expiration Date:** 122226
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB

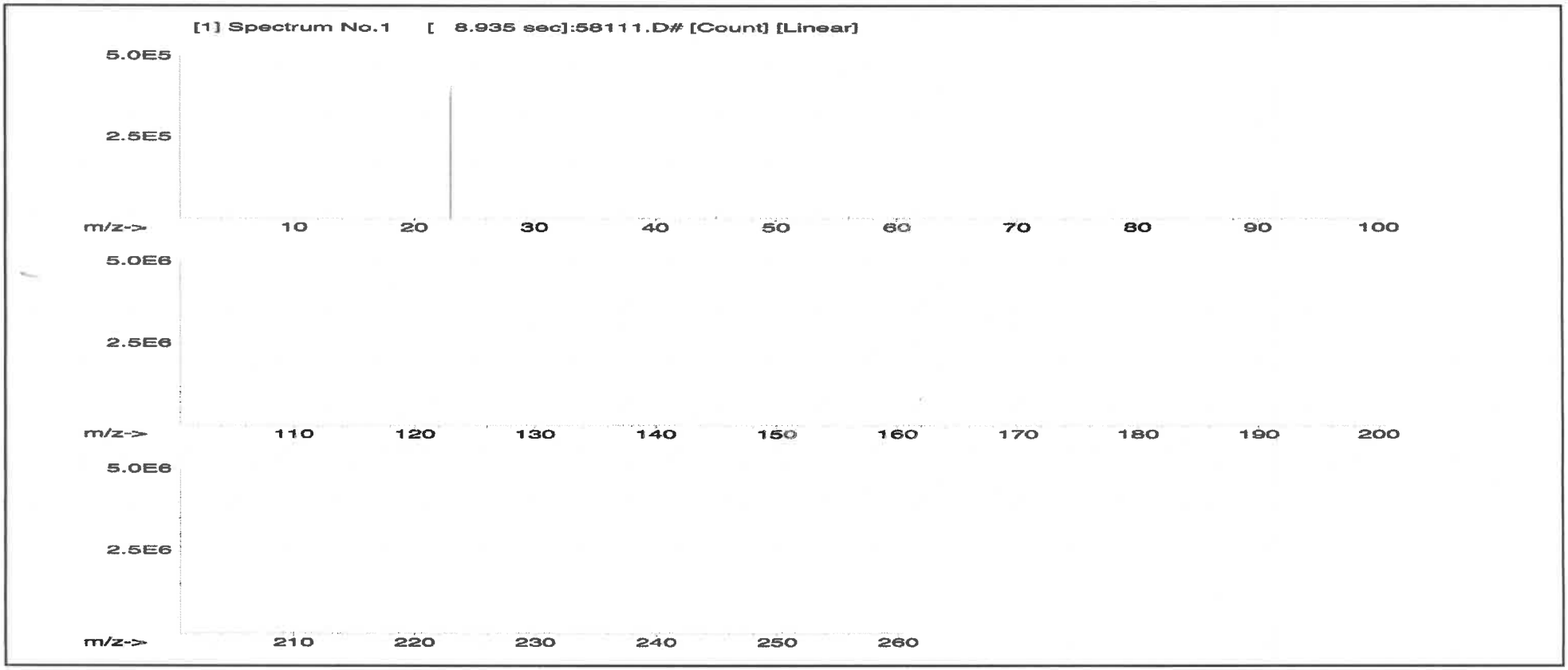
**Weight shown below was diluted to (mL):** 3000.4 ± 0.06 Flask Uncertainty

| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 24002546 | Nitric Acid | |
| 2% | 60.0 (mL) | Nitric Acid | |
| | | 5E-05 | Balance Uncertainty |

Aleah O'Brady

| | | |
|---|---|---|
| Formulated By: | Aleah O'Brady | 122223 |
| Reviewed By: | Pedro L. Rentas | 122223 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Sodium nitrate (Na) | IN036 | NAV012015I1 | 10000 | 99.999 | 0.10 | 26.9 | 111.5406 | 111.5479 | **10000.7** | **20.0** | 7631-99-4 | 5 mg/m3 | orl-rat 3430 mg/kg | 3152a |



953

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | T | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

**Certified by:**

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 01/03/24 M5802, M5803

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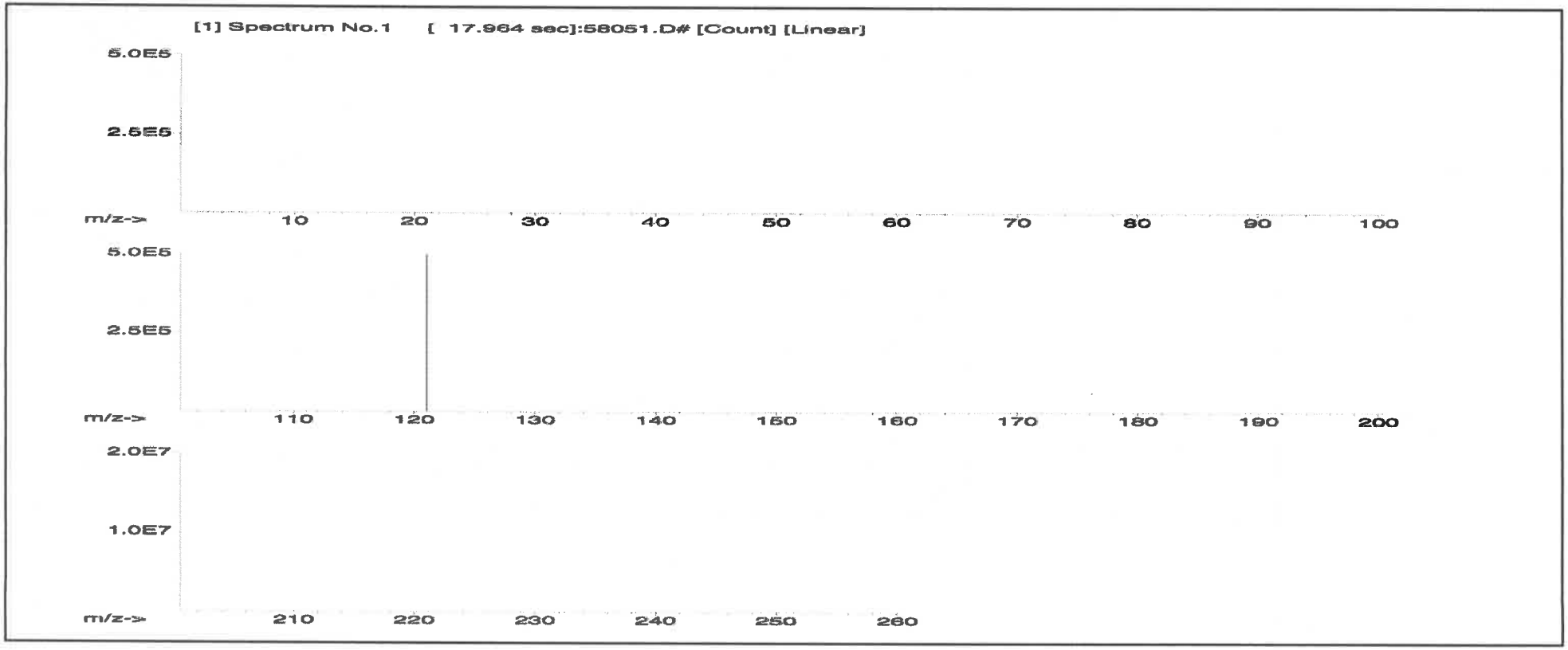
954

CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | |
|---|---|---|---|---|
| **Part Number:** | **57051** | 24002546 | Nitric Acid | |
| **Lot Number:** | **120523** | | | |
| **Description:** | **Antimony (Sb)** | | | |
| | | 2.0% | 60.0 (mL) | Nitric Acid |
| **Expiration Date:** | 120526 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Volume shown below was diluted to (mL):** | 3000.41 | 0.058 | Flask Uncertainty | |

| | | |
|---|---|---|
| Formulated By: | Lawrence Barry | 120523 |
| Reviewed By: | Pedro L. Rentas | 120523 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Antimony (Sb) | 58151 | 100923 | 0.1000 | 300.0 | 0.084 | 1000 | 10001.4 | **1000.0** | 2.1 | 7440-36-0 | 0.5 mg/m3 | orl-rat 7000 mg/kg | 3102a |



955

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | T | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

**Certified by:**

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M6030

R: 8/5/24

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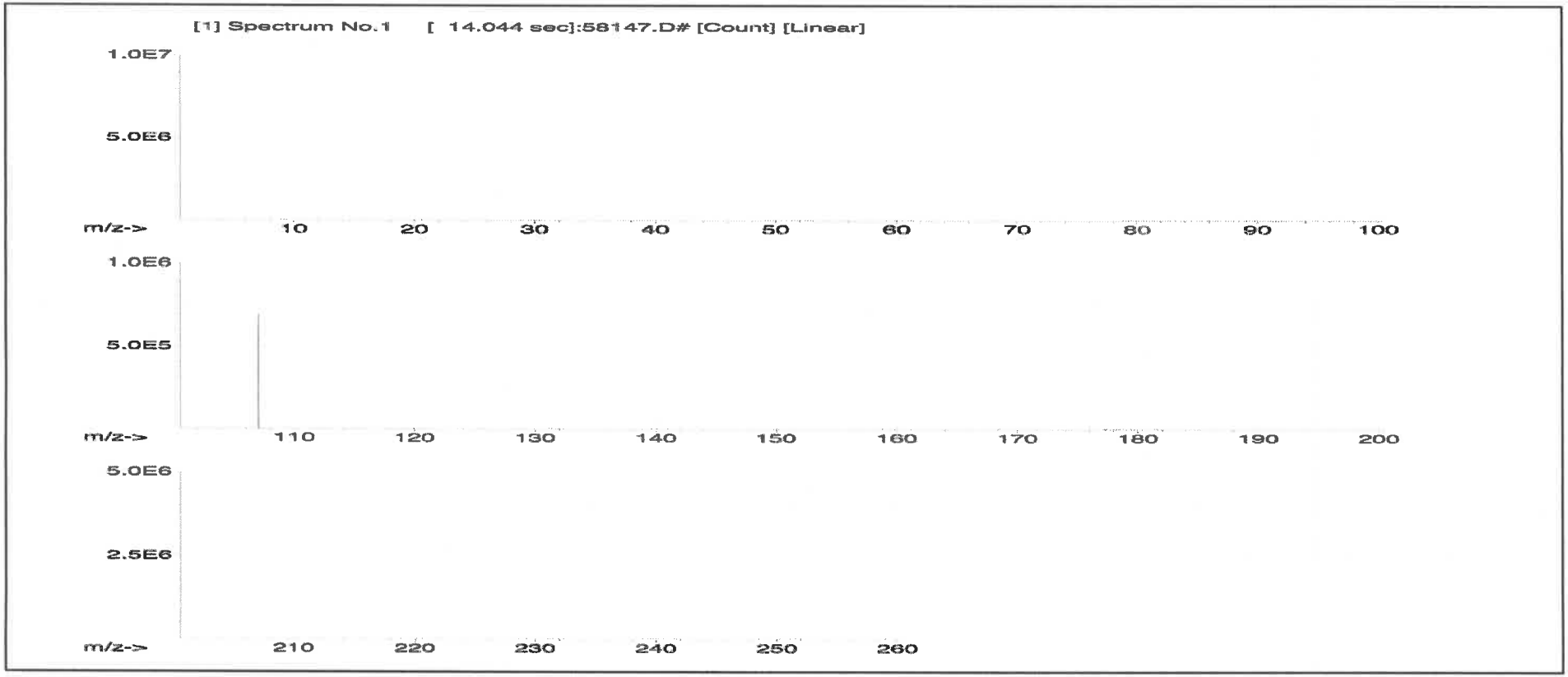
956

CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **57047** | | | **Lot #** | |
| **Lot Number:** | **122823** | **Solvent:** | 24002546 | Nitric Acid | |
| **Description:** | **Silver (Ag)** | 2% | 80.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 122826 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 4000.30 | 0.058 | Flask Uncertainty | | |

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 122823 |
| Reviewed By: | Pedro L. Rentas | 122823 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Silver nitrate (Ag) | IN035 | J0612AGA1 | 1000.0 | 99.9999 | 0.10 | 63.7 | 6.27992 | 6.27998 | **1000.0** | **2.0** | 7761-88-8 | 10 ug/m3 | NA | 3151 |



957

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | T | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

**Certified by:**

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 03/16/23 M5473, M5474, M5475, M5476

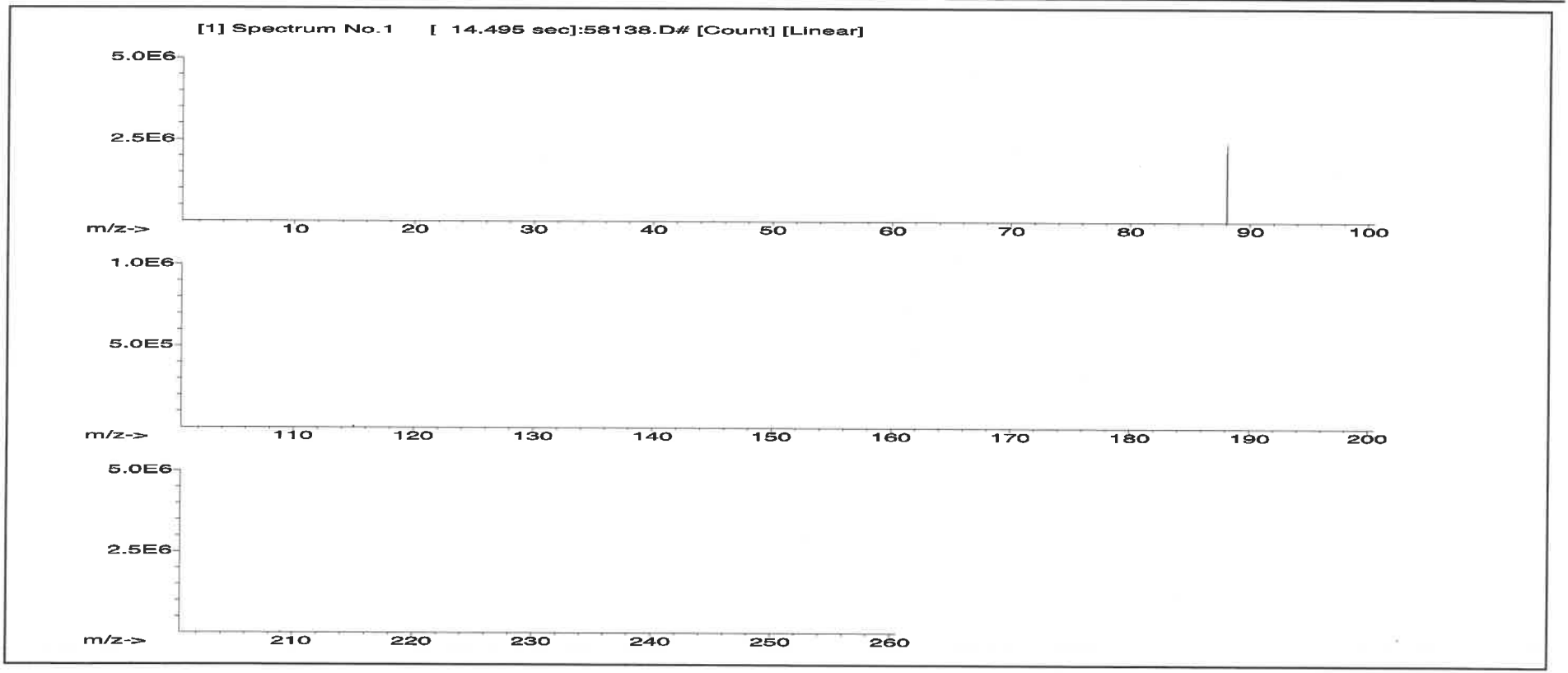
958

CERTIFIED WEIGHT REPORT:

| | | Lot # | | |
|---|---|---|---|---|
| **Part Number:** | **56138** | **Solvent:** | 20510011 | Nitric Acid |
| **Lot Number:** | **082922** | | | |
| **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 |



959

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | T | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

M6023

R ! 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

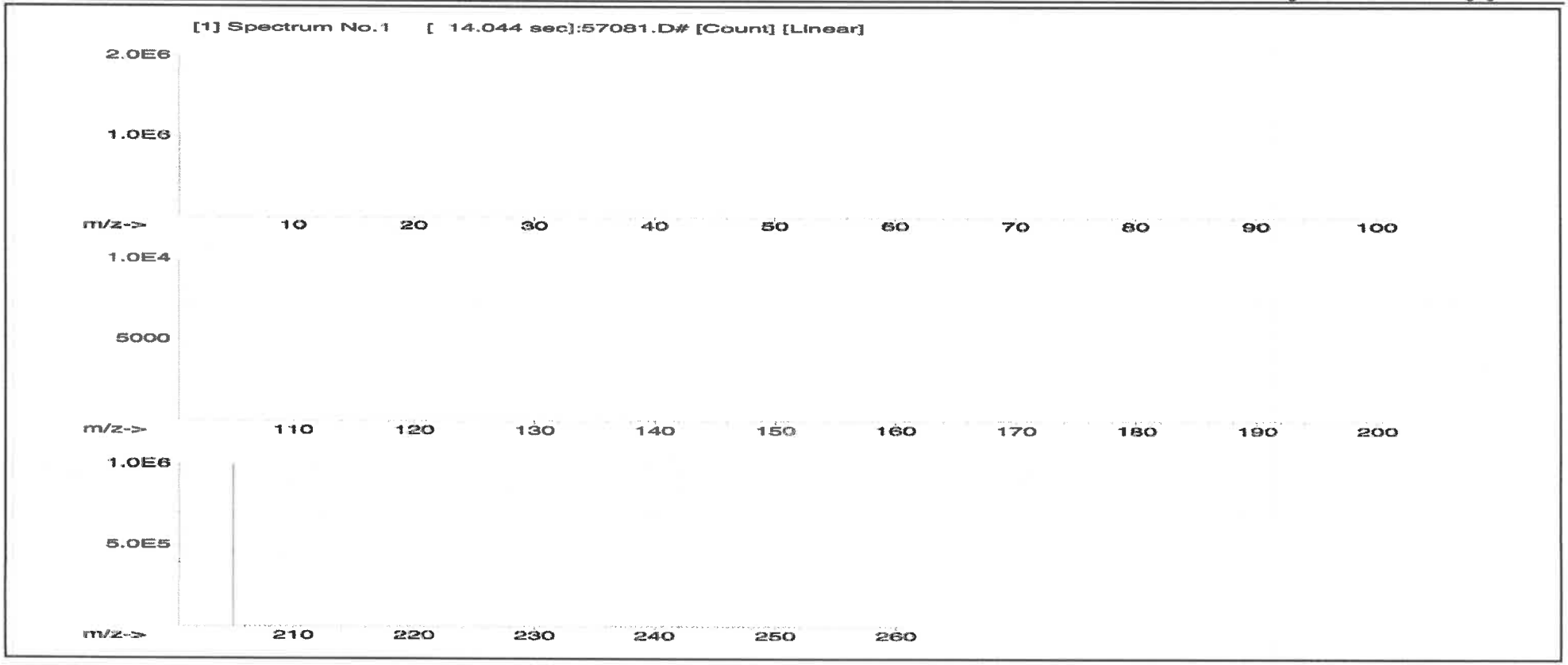
| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **57081** | | **Lot #** | | |
| **Lot Number:** | **062724** | **Solvent:** | 24002546 | Nitric Acid | |
| **Description:** | **Thallium (Tl)** | 2% | 40.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 062727 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 2000.1 | 0.10 | Flask Uncertainty | | |

Aleah O'Brady

| | | |
|---|---|---|
| Formulated By: | Aleah O'Brady | 062724 |
| Reviewed By: | Pedro L. Rentas | 062724 |

096

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Thallium nitrate (Tl) | IN037 | BCCF4399 | 1000 | 99.999 | 0.10 | 77.0 | 2.5975 | 2.5977 | **1000.1** | **2.0** | 10102-45-1 | 0.1 mg/m3 | orl-mus 15mg/kg | 3158 |



961

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | T | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

M6021

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Rc. 8/5/24

962

CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | |
|---|---|---|---|---|
| **Part Number:** | **57023** | | | |
| **Lot Number:** | **062424** | 24002546 | Nitric Acid | |
| **Description:** | **Vanadium (V)** | | | |
| | | 2.0% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 062427 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Volume shown below was diluted to (mL):** | 2000.3 | 0.06 | Flask Uncertainty | |

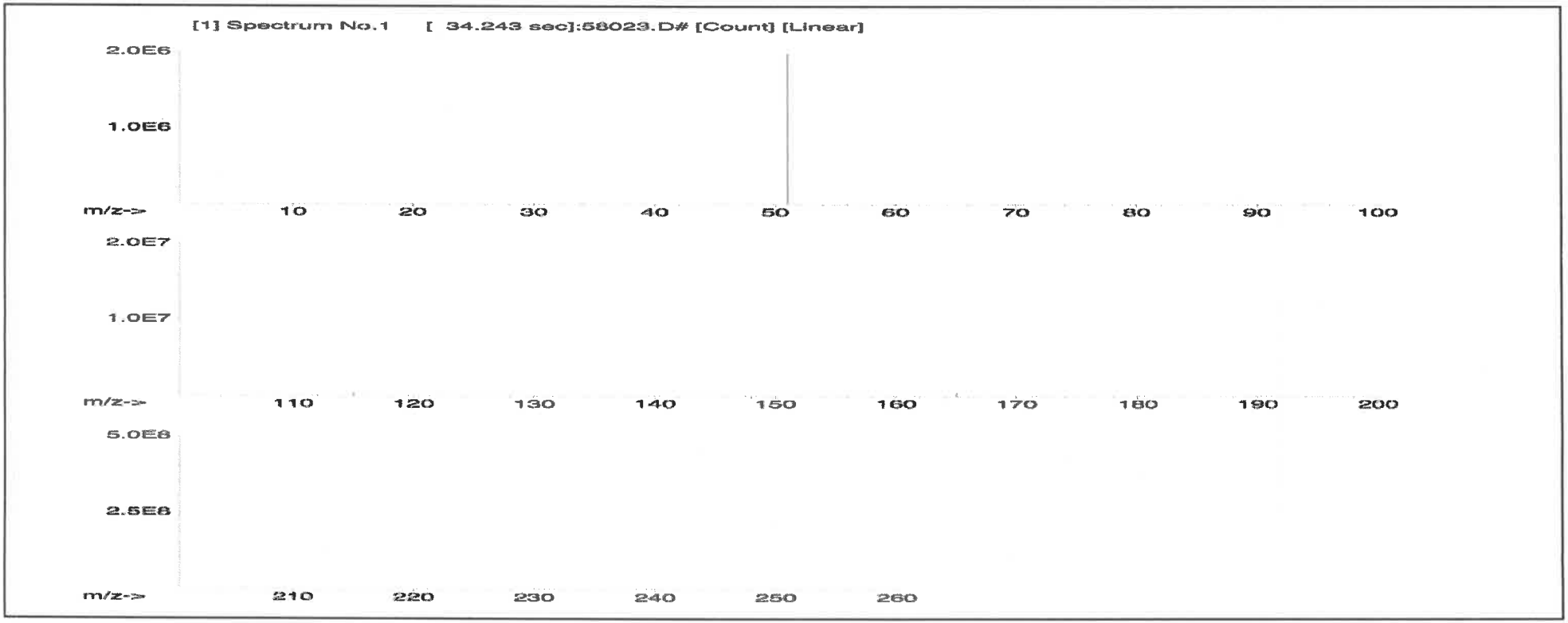
Aleah O'Brady

| Formulated By: | Aleah O'Brady | 062424 |
|---|---|---|

Pedro Rentas

| Reviewed By: | Pedro L. Rentas | 062424 |
|---|---|---|

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Ammonium metavanadate (V) | 58123 | 021224 | 0.1000 | 200.0 | 0.084 | 1000 | 10000.3 | **1000.0** | **2.2** | 7803-55-6 | 0.05 mg/m3 | orl-rat 58.1mg/kg | 3165 |



963

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | T |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

**Certified by:**

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Alliance TECHNICAL GROUP

**Soil/Sludge Metals Preparation Sheet**

PB165466

**SOP ID :** M3050B-Digestion-20, MSFAM01.1-Trace Metals-2

**SDG No :** MBHKS4

**Matrix :** SOIL

**Pippete ID:** ICP A

**Balance ID :** M SC-2

**Filter paper ID :** N/A

**pH Strip ID :** N/A

**Hood ID :** #3

**Block ID:** 1. HOT BLOCK #5 2. N/A

**Start Digest Date:** 12/09/2024 **Time :** 09:30 **Temp :** 96 °C

**End Digest Date:** 12/09/2024 **Time :** 11:40 **Temp :** 96 °C

**Digestion tube ID:** M6054

**Block thermometer ID:** MET-DIG. # 5

**Dig Technician Signature:**

**Supervisor Signature:**

**Temp :** 1. 96°C 2. N/A

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| LCSS | 1.00 | MP83506 |
| Spike Sol 6 | 1.00 | MP83512 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| 1:1 HNO3 | 10.00 | MP83498 |
| Conc. HNO3 | 5.00 | M6126 |
| 30% H2O2 | 3.00 | M6125 |
| Conc. HCL | 10.00 | M6121 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

HOT BLOCK #5 CELL #35 : 96 C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 12/09/24 12:30 | met digestion. | |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

**Soil/Sludge Metals Preparation Sheet**

**PB165466**

| Lab Sample ID | Client Sample ID | pH | Initial Weight (g) | Final Vol (ml) | Color Before | Color After | Texture | Artifact | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| P5055-01 | MBHKS4 | N/A | 1.45 | 100 | Black | Yellow | Medium | N/A | N/A | 1 |
| P5055-02 | MBHKS5 | N/A | 1.22 | 100 | Black | Yellow | Medium | N/A | N/A | 2 |
| P5055-03 | MBHKS6 | N/A | 1.23 | 100 | Brown | Yellow | Medium | N/A | N/A | 3 |
| P5055-04 | MBHKS7 | N/A | 1.35 | 100 | Brown | Yellow | Medium | N/A | N/A | 4 |
| P5055-05 | MBHKS8 | N/A | 1.39 | 100 | Brown | Yellow | Medium | N/A | N/A | 5 |
| P5055-06 | MBHKS9 | N/A | 1.45 | 100 | Brown | Yellow | Medium | N/A | N/A | 6 |
| P5055-07 | MBHKT0 | N/A | 1.36 | 100 | Brown | Yellow | Medium | N/A | N/A | 7 |
| P5055-08 | MBHKT1 | N/A | 1.39 | 100 | Black | Yellow | Medium | N/A | N/A | 8 |
| P5055-09 | MBHKT2 | N/A | 1.13 | 100 | Gray | Yellow | Medium | N/A | N/A | 9 |
| P5055-10 | MBHKT3 | N/A | 1.21 | 100 | Brown | Yellow | Medium | N/A | N/A | 10 |
| P5055-11 | MBHKT3D | N/A | 1.32 | 100 | Brown | Yellow | Medium | N/A | N/A | 11 |
| P5055-12 | MBHKT3S | N/A | 1.38 | 100 | Brown | Yellow | Medium | N/A | MP83512 | 12 |
| P5055-13 | MBHKT4 | N/A | 1.26 | 100 | Brown | Yellow | Medium | N/A | N/A | 13 |
| P5055-14 | MBHKT5 | N/A | 1.35 | 100 | Brown | Yellow | Medium | N/A | N/A | 14 |
| P5055-15 | MBHKT6 | N/A | 1.41 | 100 | Brown | Yellow | Medium | N/A | N/A | 15 |
| P5055-16 | MBHKT7 | N/A | 1.48 | 100 | Brown | Yellow | Medium | N/A | N/A | 16 |
| P5055-17 | MBHKW5 | N/A | 1.31 | 100 | Black | Yellow | Medium | N/A | N/A | 17 |
| P5055-18 | MBHKW6 | N/A | 1.32 | 100 | Brown | Yellow | Medium | N/A | N/A | 18 |
| P5055-19 | MBHKW7 | N/A | 1.37 | 100 | Brown | Yellow | Medium | N/A | N/A | 19 |
| P5055-20 | MBHKW8 | N/A | 1.42 | 100 | Brown | Yellow | Medium | N/A | N/A | 20 |
| P5055-21 | MBHKW9 | N/A | 1.47 | 100 | Brown | Yellow | Medium | N/A | N/A | 21 |
| P5055-22 | MBHKX0 | N/A | 1.38 | 100 | Brown | Yellow | Medium | N/A | N/A | 22 |
| PB165466BL | PBS466 | N/A | 1.00 | 100 | Colorless | Colorless | Fine | N/A | N/A | 23 |
| PB165466BS | LCS466 | N/A | 1.00 | 100 | Colorless | Colorless | Fine | N/A | MP83506 | 24 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133990

| | | | |
|---|---|---|---|
| Review By | Kareem Khairalla | Review On | 12/19/2024 12:28:16 AM |
| Supervise By | Sarabjit Jaswal | Supervise On | 1/6/2025 8:51:01 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 12/17/24 16:14 | | Kareem | OK |
| 2 | S1 | S01 | CAL2 | 12/17/24 16:18 | | Kareem | OK |
| 3 | S2 | S02 | CAL3 | 12/17/24 16:22 | | Kareem | OK |
| 4 | S3 | S03 | CAL4 | 12/17/24 16:26 | | Kareem | OK |
| 5 | S4 | S04 | CAL5 | 12/17/24 16:30 | | Kareem | OK |
| 6 | S5 | S05 | CAL6 | 12/17/24 16:33 | | Kareem | OK |
| 7 | S6 | S06 | CAL7 | 12/17/24 16:37 | | Kareem | OK |
| 8 | ICV006 | ICV006 | ICV | 12/17/24 17:27 | Inst. paused for calibration review | Kareem | OK |
| 9 | ICB006 | ICB006 | ICB | 12/17/24 17:33 | Inst. paused for review | Kareem | OK |
| 10 | ICSA006 | ICSA006 | ICSA | 12/17/24 17:49 | Inst. paused for review | Kareem | OK |
| 11 | ICSAB006 | ICSAB006 | ICSAB | 12/17/24 17:53 | | Kareem | OK |
| 12 | CCV049 | CCV049 | CCV | 12/17/24 17:57 | | Kareem | OK |
| 13 | CCB049 | CCB049 | CCB | 12/17/24 18:00 | | Kareem | OK |
| 14 | PB165489BL | PBS489 | MB | 12/17/24 18:05 | | Kareem | OK |
| 15 | PB165489BS | LCS489 | LCS | 12/17/24 18:09 | | Kareem | OK |
| 16 | PB165495BL | PBS495 | MB | 12/17/24 18:13 | | Kareem | OK |
| 17 | PB165495BS | LCS495 | LCS | 12/17/24 18:17 | | Kareem | OK |
| 18 | PB165506BL | PBS506 | MB | 12/17/24 18:21 | Not used | Kareem | Not Ok |

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Fax : 908 789 8922

**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133990

| | | | |
|---|---|---|---|
| Review By | Kareem Khairalla | Review On | 12/19/2024 12:28:16 AM |
| Supervise By | Sarabjit Jaswal | Supervise On | 1/6/2025 8:51:01 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | PB165506BS | LCS506 | LCS | 12/17/24 18:25 | Not used | Kareem | Not Ok |
| 20 | PB165466BL | PBS466 | MB | 12/17/24 18:29 | | Kareem | OK |
| 21 | PB165466BS | LCS466 | LCS | 12/17/24 18:33 | | Kareem | OK |
| 22 | PB165453BL | PBS453 | MB | 12/17/24 18:37 | | Kareem | OK |
| 23 | PB165453BS | LCS453 | LCS | 12/17/24 18:41 | | Kareem | OK |
| 24 | P5057-01 | MBHL03 | SAM | 12/17/24 18:45 | | Kareem | OK |
| 25 | P5057-02 | MBHL04 | SAM | 12/17/24 18:49 | | Kareem | OK |
| 26 | P5057-03 | MBHL05 | SAM | 12/17/24 18:53 | | Kareem | OK |
| 27 | P5057-04 | MBHL06 | SAM | 12/17/24 18:57 | Ca high | Kareem | Dilution |
| 28 | P5057-05 | MBHL07 | SAM | 12/17/24 19:00 | | Kareem | OK |
| 29 | P5057-06 | MBHL08 | SAM | 12/17/24 19:04 | | Kareem | OK |
| 30 | P5057-07 | MBHL09 | SAM | 12/17/24 19:08 | | Kareem | OK |
| 31 | P5057-08 | MBHL09D | DUP | 12/17/24 19:12 | | Kareem | OK |
| 32 | P5057-07L | MBHL09L | SD | 12/17/24 19:16 | | Kareem | OK |
| 33 | P5057-09 | MBHL09S | MS | 12/17/24 19:20 | Fail for Se(84.0314ppb),Tl(Below RL),Zn(1644.079ppb) | Kareem | OK |
| 34 | CCV050 | CCV050 | CCV | 12/17/24 19:24 | | Kareem | OK |
| 35 | CCB050 | CCB050 | CCB | 12/17/24 19:27 | | Kareem | OK |
| 36 | P5057-10 | MBHL10 | SAM | 12/17/24 19:31 | | Kareem | OK |
| 37 | P5057-11 | MBHL11 | SAM | 12/17/24 19:35 | | Kareem | OK |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133990

| | | | |
|---|---|---|---|
| Review By | Kareem Khairalla | Review On | 12/19/2024 12:28:16 AM |
| Supervise By | Sarabjit Jaswal | Supervise On | 1/6/2025 8:51:01 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 38 | P5057-12 | MBHL12 | SAM | 12/17/24 19:39 | | Kareem | OK |
| 39 | P5057-13 | MBHL13 | SAM | 12/17/24 19:43 | | Kareem | OK |
| 40 | P5057-14 | MBHL14 | SAM | 12/17/24 19:47 | | Kareem | OK |
| 41 | P5057-15 | MBHL15 | SAM | 12/17/24 19:51 | | Kareem | OK |
| 42 | P5057-16 | MBHL16 | SAM | 12/17/24 19:55 | | Kareem | OK |
| 43 | P5057-17 | MBHL17 | SAM | 12/17/24 19:58 | | Kareem | OK |
| 44 | P5057-18 | MBHL18 | SAM | 12/17/24 20:02 | | Kareem | OK |
| 45 | P5057-19 | MBHL19 | SAM | 12/17/24 20:06 | | Kareem | OK |
| 46 | P5057-20 | MBHL20 | SAM | 12/17/24 20:10 | | Kareem | OK |
| 47 | P5057-21 | MBHL21 | SAM | 12/17/24 20:14 | | Kareem | OK |
| 48 | P5057-22 | MBHL22 | SAM | 12/17/24 20:18 | | Kareem | OK |
| 49 | P5060-01 | MBHKR8 | SAM | 12/17/24 20:21 | | Kareem | OK |
| 50 | P5060-02 | MBHKR8D | DUP | 12/17/24 20:25 | | Kareem | OK |
| 51 | P5060-01L | MBHKR8L | SD | 12/17/24 20:29 | | Kareem | OK |
| 52 | P5060-03 | MBHKR8S | MS | 12/17/24 20:33 | Fail for Se(51.4259ppb),Tl(Below RL),Zn(1975.059ppb) | Kareem | OK |
| 53 | P5060-04 | MBHKW4 | SAM | 12/17/24 20:37 | Ca high | Kareem | Dilution |
| 54 | P5060-05 | MBHKY6 | SAM | 12/17/24 20:41 | | Kareem | OK |
| 55 | P5060-06 | MBHKY7 | SAM | 12/17/24 20:44 | | Kareem | OK |
| 56 | CCV051 | CCV051 | CCV | 12/17/24 20:48 | | Kareem | OK |

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**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133990

| | | | |
|---|---|---|---|
| Review By | Kareem Khairalla | Review On | 12/19/2024 12:28:16 AM |
| Supervise By | Sarabjit Jaswal | Supervise On | 1/6/2025 8:51:01 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 57 | CCB051 | CCB051 | CCB | 12/17/24 20:52 | | Kareem | OK |
| 58 | P5060-07 | MBHKY8 | SAM | 12/17/24 20:56 | | Kareem | OK |
| 59 | P5060-08 | MBHKY9 | SAM | 12/17/24 21:00 | | Kareem | OK |
| 60 | P5060-09 | MBHKZ0 | SAM | 12/17/24 21:04 | | Kareem | OK |
| 61 | P5060-10 | MBHKZ1 | SAM | 12/17/24 21:07 | | Kareem | OK |
| 62 | P5060-11 | MBHKZ2 | SAM | 12/17/24 21:11 | | Kareem | OK |
| 63 | P5060-12 | MBHL56 | SAM | 12/17/24 21:15 | | Kareem | OK |
| 64 | P5060-13 | MBHL57 | SAM | 12/17/24 21:19 | | Kareem | OK |
| 65 | P5060-14 | MBHKX1 | SAM | 12/17/24 21:23 | Ca high | Kareem | Dilution |
| 66 | P5060-15 | MBHKX2 | SAM | 12/17/24 21:27 | | Kareem | OK |
| 67 | P5060-16 | MBHKX3 | SAM | 12/17/24 21:30 | | Kareem | OK |
| 68 | P5060-17 | MBHKX4 | SAM | 12/17/24 21:34 | | Kareem | OK |
| 69 | P5060-18 | MBHKX6 | SAM | 12/17/24 21:38 | Ca high | Kareem | Dilution |
| 70 | P5060-19 | MBHKX7 | SAM | 12/17/24 21:42 | Ca high | Kareem | Dilution |
| 71 | P5060-20 | MBHKX8 | SAM | 12/17/24 21:46 | | Kareem | OK |
| 72 | P5060-21 | MBHL58 | SAM | 12/17/24 21:50 | Ca high | Kareem | Dilution |
| 73 | P5060-22 | MBHL59 | SAM | 12/17/24 21:54 | | Kareem | OK |
| 74 | P5062-01 | MBHKZ7 | SAM | 12/17/24 21:57 | Ca high | Kareem | Dilution |
| 75 | P5062-02 | MBHKZ8 | SAM | 12/17/24 22:01 | Ca high | Kareem | Dilution |
| 76 | P5062-03 | MBHKZ9 | SAM | 12/17/24 22:05 | Ca high | Kareem | Dilution |

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**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133990

| | | | |
|---|---|---|---|
| Review By | Kareem Khairalla | Review On | 12/19/2024 12:28:16 AM |
| Supervise By | Sarabjit Jaswal | Supervise On | 1/6/2025 8:51:01 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 77 | P5062-04 | MBHL00 | SAM | 12/17/24 22:09 | | Kareem | OK |
| 78 | CCV052 | CCV052 | CCV | 12/17/24 22:13 | | Kareem | OK |
| 79 | CCB052 | CCB052 | CCB | 12/17/24 22:16 | | Kareem | OK |
| 80 | P5062-05 | MBHL01 | SAM | 12/17/24 22:20 | | Kareem | OK |
| 81 | P5062-06 | MBHL02 | SAM | 12/17/24 22:24 | | Kareem | OK |
| 82 | P5062-07 | MBHL02D | DUP | 12/17/24 22:28 | | Kareem | OK |
| 83 | P5062-06L | MBHL02L | SD | 12/17/24 22:32 | | Kareem | OK |
| 84 | P5062-08 | MBHL02S | MS | 12/17/24 22:36 | Fail for Tl(Below RL) | Kareem | OK |
| 85 | P5062-09 | MBHL23 | SAM | 12/17/24 22:40 | | Kareem | OK |
| 86 | P5062-10 | MBHL24 | SAM | 12/17/24 22:44 | Ca high | Kareem | Dilution |
| 87 | P5062-11 | MBHL25 | SAM | 12/17/24 22:48 | | Kareem | OK |
| 88 | P5062-12 | MBHL26 | SAM | 12/17/24 22:51 | | Kareem | OK |
| 89 | P5062-13 | MBHL27 | SAM | 12/17/24 22:55 | Ca high | Kareem | Dilution |
| 90 | P5062-14 | MBHL68 | SAM | 12/17/24 22:59 | Ca high | Kareem | Dilution |
| 91 | P5062-15 | MBHL69 | SAM | 12/17/24 23:03 | | Kareem | OK |
| 92 | P5062-16 | MBHLC8 | SAM | 12/17/24 23:07 | | Kareem | OK |
| 93 | P5062-17 | MBHLC9 | SAM | 12/17/24 23:11 | | Kareem | OK |
| 94 | P5062-18 | MBHLD0 | SAM | 12/17/24 23:15 | | Kareem | OK |
| 95 | P5062-19 | MBHLD1 | SAM | 12/17/24 23:18 | | Kareem | OK |
| 96 | P5062-20 | MBHLD2 | SAM | 12/17/24 23:22 | Mn high | Kareem | Dilution |

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**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133990

| | | | |
|---|---|---|---|
| Review By | Kareem Khairalla | Review On | 12/19/2024 12:28:16 AM |
| Supervise By | Sarabjit Jaswal | Supervise On | 1/6/2025 8:51:01 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 97 | P5062-21 | MBHLD3 | SAM | 12/17/24 23:26 | | Kareem | OK |
| 98 | P5062-22 | MBHLD4 | SAM | 12/17/24 23:30 | | Kareem | OK |
| 99 | P5055-01 | MBHKS4 | SAM | 12/17/24 23:34 | | Kareem | OK |
| 100 | CCV053 | CCV053 | CCV | 12/17/24 23:38 | | Kareem | OK |
| 101 | CCB053 | CCB053 | CCB | 12/17/24 23:41 | | Kareem | OK |
| 102 | P5055-02 | MBHKS5 | SAM | 12/17/24 23:45 | | Kareem | OK |
| 103 | P5055-03 | MBHKS6 | SAM | 12/17/24 23:49 | | Kareem | OK |
| 104 | P5055-04 | MBHKS7 | SAM | 12/17/24 23:53 | | Kareem | OK |
| 105 | P5055-05 | MBHKS8 | SAM | 12/17/24 23:57 | | Kareem | OK |
| 106 | P5055-06 | MBHKS9 | SAM | 12/18/24 00:01 | | Kareem | OK |
| 107 | P5055-07 | MBHKT0 | SAM | 12/18/24 00:04 | Ca high | Kareem | Dilution |
| 108 | P5055-08 | MBHKT1 | SAM | 12/18/24 00:08 | Ca high | Kareem | Dilution |
| 109 | P5055-09 | MBHKT2 | SAM | 12/18/24 00:12 | Ca high | Kareem | Dilution |
| 110 | P5055-10 | MBHKT3 | SAM | 12/18/24 00:16 | | Kareem | OK |
| 111 | P5055-11 | MBHKT3D | DUP | 12/18/24 00:20 | | Kareem | OK |
| 112 | P5055-10L | MBHKT3L | SD | 12/18/24 00:24 | | Kareem | OK |
| 113 | P5055-12 | MBHKT3S | MS | 12/18/24 00:28 | Fail for Se(53.3445ppb),Tl(Below RL),Zn(873.9927ppb) | Kareem | OK |
| 114 | P5055-13 | MBHKT4 | SAM | 12/18/24 00:31 | | Kareem | OK |
| 115 | P5055-14 | MBHKT5 | SAM | 12/18/24 00:35 | Ca high | Kareem | Dilution |

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**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133990

| | | | |
|---|---|---|---|
| Review By | Kareem Khairalla | Review On | 12/19/2024 12:28:16 AM |
| Supervise By | Sarabjit Jaswal | Supervise On | 1/6/2025 8:51:01 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 116 | P5055-15 | MBHKT6 | SAM | 12/18/24 00:39 | Ca high | Kareem | Dilution |
| 117 | P5055-16 | MBHKT7 | SAM | 12/18/24 00:43 | Ca high | Kareem | Dilution |
| 118 | P5055-17 | MBHKW5 | SAM | 12/18/24 00:47 | | Kareem | OK |
| 119 | P5055-18 | MBHKW6 | SAM | 12/18/24 00:51 | | Kareem | OK |
| 120 | P5055-19 | MBHKW7 | SAM | 12/18/24 00:55 | | Kareem | OK |
| 121 | P5055-20 | MBHKW8 | SAM | 12/18/24 00:58 | Ca high | Kareem | Dilution |
| 122 | CCV054 | CCV054 | CCV | 12/18/24 01:02 | | Kareem | OK |
| 123 | CCB054 | CCB054 | CCB | 12/18/24 01:06 | | Kareem | OK |
| 124 | P5055-21 | MBHKW9 | SAM | 12/18/24 01:10 | Ca high | Kareem | Dilution |
| 125 | P5055-22 | MBHKX0 | SAM | 12/18/24 01:14 | Ca high | Kareem | Dilution |
| 126 | P5064-01 | MBHL94 | SAM | 12/18/24 01:18 | | Kareem | OK |
| 127 | P5064-02 | MBHL95 | SAM | 12/18/24 01:21 | | Kareem | OK |
| 128 | P5064-03 | MBHL96 | SAM | 12/18/24 01:25 | | Kareem | OK |
| 129 | P5064-04 | MBHL97 | SAM | 12/18/24 01:29 | Ca high | Kareem | Dilution |
| 130 | P5064-05 | MBHLA5 | SAM | 12/18/24 01:33 | | Kareem | OK |
| 131 | P5064-06 | MBHLA6 | SAM | 12/18/24 01:37 | | Kareem | OK |
| 132 | P5064-07 | MBHLA7 | SAM | 12/18/24 01:41 | | Kareem | OK |
| 133 | P5064-08 | MBHLA8 | SAM | 12/18/24 01:44 | | Kareem | OK |
| 134 | P5064-09 | MBHLA9 | SAM | 12/18/24 01:48 | | Kareem | OK |
| 135 | P5064-10 | MBHLB0 | SAM | 12/18/24 01:52 | | Kareem | OK |

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**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133990

| | | | |
|---|---|---|---|
| Review By | Kareem Khairalla | Review On | 12/19/2024 12:28:16 AM |
| Supervise By | Sarabjit Jaswal | Supervise On | 1/6/2025 8:51:01 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 136 | P5064-11 | MBHLB1 | SAM | 12/18/24 01:56 | | Kareem | OK |
| 137 | P5064-12 | MBHLB2 | SAM | 12/18/24 02:00 | | Kareem | OK |
| 138 | P5064-13 | MBHLB3 | SAM | 12/18/24 02:04 | | Kareem | OK |
| 139 | P5064-14 | MBHLB4 | SAM | 12/18/24 02:07 | | Kareem | OK |
| 140 | P5064-15 | MBHLB5 | SAM | 12/18/24 02:11 | | Kareem | OK |
| 141 | P5064-16 | MBHLB6 | SAM | 12/18/24 02:15 | | Kareem | OK |
| 142 | P5064-17 | MBHLB7 | SAM | 12/18/24 02:19 | | Kareem | OK |
| 143 | P5064-18 | MBHLB8 | SAM | 12/18/24 02:23 | | Kareem | OK |
| 144 | CCV055 | CCV055 | CCV | 12/18/24 02:27 | | Kareem | OK |
| 145 | CCB055 | CCB055 | CCB | 12/18/24 02:30 | | Kareem | OK |
| 146 | P5064-19 | MBHLB8D | DUP | 12/18/24 02:34 | | Kareem | OK |
| 147 | P5064-18L | MBHLB8L | SD | 12/18/24 02:38 | | Kareem | OK |
| 148 | P5064-20 | MBHLB8S | MS | 12/18/24 02:42 | Fail for Se(84.5356ppb),Tl(Below RL) | Kareem | OK |
| 149 | P5064-21 | MBHLB9 | SAM | 12/18/24 02:46 | | Kareem | OK |
| 150 | P5064-22 | MBHLC0 | SAM | 12/18/24 02:50 | | Kareem | OK |
| 151 | P5061-01 | MBHL48 | SAM | 12/18/24 02:54 | Not Use | Kareem | Not Ok |
| 152 | P5061-02 | MBHL49 | SAM | 12/18/24 02:58 | Not Use | Kareem | Not Ok |
| 153 | P5061-03 | MBHL50 | SAM | 12/18/24 03:01 | Not Use | Kareem | Not Ok |
| 154 | P5061-04 | MBHL51 | SAM | 12/18/24 03:05 | Not Use | Kareem | Not Ok |

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**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133990

| | | | |
|---|---|---|---|
| Review By | Kareem Khairalla | Review On | 12/19/2024 12:28:16 AM |
| Supervise By | Sarabjit Jaswal | Supervise On | 1/6/2025 8:51:01 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 155 | P5061-05 | MBHL52 | SAM | 12/18/24 03:09 | Not Use | Kareem | Not Ok |
| 156 | P5061-06 | MBHL52D | DUP | 12/18/24 03:13 | Not Use | Kareem | Not Ok |
| 157 | P5061-05L | MBHL52L | SD | 12/18/24 03:17 | Not Use | Kareem | Not Ok |
| 158 | P5061-07 | MBHL52S | MS | 12/18/24 03:21 | Not Use | Kareem | Not Ok |
| 159 | P5061-08 | MBHL53 | SAM | 12/18/24 03:25 | Not Use | Kareem | Not Ok |
| 160 | P5061-09 | MBHL54 | SAM | 12/18/24 03:28 | Not Use | Kareem | Not Ok |
| 161 | P5061-10 | MBHL55 | SAM | 12/18/24 03:32 | Not Use | Kareem | Not Ok |
| 162 | P5061-11 | MBHL60 | SAM | 12/18/24 03:36 | Not Use | Kareem | Not Ok |
| 163 | P5061-12 | MBHL61 | SAM | 12/18/24 03:40 | Not Use | Kareem | Not Ok |
| 164 | P5061-13 | MBHL62 | SAM | 12/18/24 03:44 | Not Use | Kareem | Not Ok |
| 165 | P5061-14 | MBHL63 | SAM | 12/18/24 03:48 | Not Use | Kareem | Not Ok |
| 166 | CCV056 | CCV056 | CCV | 12/18/24 03:52 | | Kareem | OK |
| 167 | CCB056 | CCB056 | CCB | 12/18/24 03:55 | | Kareem | OK |
| 168 | P5061-15 | MBHL64 | SAM | 12/18/24 03:59 | Not Use | Kareem | Not Ok |
| 169 | P5061-16 | MBHL65 | SAM | 12/18/24 04:03 | Not Use | Kareem | Not Ok |
| 170 | P5061-17 | MBHL66 | SAM | 12/18/24 04:07 | Not Use | Kareem | Not Ok |
| 171 | P5061-18 | MBHL67 | SAM | 12/18/24 04:11 | Not Use | Kareem | Not Ok |
| 172 | P5061-19 | MBHKZ3 | SAM | 12/18/24 04:14 | Not Use | Kareem | Not Ok |
| 173 | P5061-20 | MBHKZ4 | SAM | 12/18/24 04:18 | Not Use | Kareem | Not Ok |
| 174 | P5061-21 | MBHKZ5 | SAM | 12/18/24 04:22 | Not Use | Kareem | Not Ok |

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**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133990

| | | | |
|---|---|---|---|
| Review By | Kareem Khairalla | Review On | 12/19/2024 12:28:16 AM |
| Supervise By | Sarabjit Jaswal | Supervise On | 1/6/2025 8:51:01 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 175 | P5061-22 | MBHKZ6 | SAM | 12/18/24 04:26 | Not Use | Kareem | Not Ok |
| 176 | PB165505BL | PBS505 | MB | 12/18/24 04:30 | Not used | Kareem | Not Ok |
| 177 | PB165505BS | LCS505 | LCS | 12/18/24 04:34 | Not used | Kareem | Not Ok |
| 178 | P5059-01 | MBHL70 | SAM | 12/18/24 04:38 | Not used | Kareem | Not Ok |
| 179 | P5059-02 | MBHL71 | SAM | 12/18/24 04:42 | Not used | Kareem | Not Ok |
| 180 | P5059-03 | MBHL72 | SAM | 12/18/24 04:45 | Not used | Kareem | Not Ok |
| 181 | P5059-04 | MBHL73 | SAM | 12/18/24 04:49 | Not used | Kareem | Not Ok |
| 182 | P5059-05 | MBHL74 | SAM | 12/18/24 04:53 | Not used | Kareem | Not Ok |
| 183 | P5059-06 | MBHL75 | SAM | 12/18/24 04:57 | Not used | Kareem | Not Ok |
| 184 | P5059-07 | MBHL76 | SAM | 12/18/24 05:01 | Not used | Kareem | Not Ok |
| 185 | P5059-08 | MBHL91 | SAM | 12/18/24 05:05 | Not used | Kareem | Not Ok |
| 186 | P5059-09 | MBHL92 | SAM | 12/18/24 05:08 | Not used | Kareem | Not Ok |
| 187 | P5059-10 | MBHL93 | SAM | 12/18/24 05:12 | Not used | Kareem | Not Ok |
| 188 | CCV057 | CCV057 | CCV | 12/18/24 05:16 | | Kareem | OK |
| 189 | CCB057 | CCB057 | CCB | 12/18/24 05:20 | | Kareem | OK |
| 190 | P5059-11 | MBHLC1 | SAM | 12/18/24 05:24 | Not used | Kareem | Not Ok |
| 191 | P5059-12 | MBHLC2 | SAM | 12/18/24 05:28 | Not used | Kareem | Not Ok |
| 192 | P5059-13 | MBHLC3 | SAM | 12/18/24 05:32 | Not used | Kareem | Not Ok |
| 193 | P5059-14 | MBHLC4 | SAM | 12/18/24 05:35 | Not used | Kareem | Not Ok |
| 194 | P5059-15 | MBHLC4D | DUP | 12/18/24 05:39 | Not used | Kareem | Not Ok |

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**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133990

| | | | |
|---|---|---|---|
| Review By | Kareem Khairalla | Review On | 12/19/2024 12:28:16 AM |
| Supervise By | Sarabjit Jaswal | Supervise On | 1/6/2025 8:51:01 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 195 | P5059-14L | MBHLC4L | SD | 12/18/24 05:43 | Not used | Kareem | Not Ok |
| 196 | P5059-16 | MBHLC4S | MS | 12/18/24 05:47 | Not used | Kareem | Not Ok |
| 197 | P5059-17 | MBHLC5 | SAM | 12/18/24 05:51 | Not used | Kareem | Not Ok |
| 198 | P5059-18 | MBHLD5 | SAM | 12/18/24 05:55 | Not used | Kareem | Not Ok |
| 199 | P5059-19 | MBHLD6 | SAM | 12/18/24 05:59 | Not used | Kareem | Not Ok |
| 200 | PB165494BL | PBS494 | MB | 12/18/24 06:03 | Not used | Kareem | Not Ok |
| 201 | PB165494BS | LCS494 | LCS | 12/18/24 06:07 | Not used | Kareem | Not Ok |
| 202 | P5058-01 | MBHL80 | SAM | 12/18/24 06:11 | Not Use | Kareem | Not Ok |
| 203 | P5058-02 | MBHL81 | SAM | 12/18/24 06:14 | Not Use | Kareem | Not Ok |
| 204 | P5058-03 | MBHL82 | SAM | 12/18/24 06:18 | Not Use | Kareem | Not Ok |
| 205 | P5058-04 | MBHL82D | DUP | 12/18/24 06:22 | Not Use | Kareem | Not Ok |
| 206 | P5058-03L | MBHL82L | SD | 12/18/24 06:26 | Not Use | Kareem | Not Ok |
| 207 | P5058-05 | MBHL82S | MS | 12/18/24 06:30 | Not Use | Kareem | Not Ok |
| 208 | P5058-06 | MBHL83 | SAM | 12/18/24 06:34 | Not Use | Kareem | Not Ok |
| 209 | P5058-07 | MBHL84 | SAM | 12/18/24 06:38 | Not Use | Kareem | Not Ok |
| 210 | CCV058 | CCV058 | CCV | 12/18/24 06:41 | | Kareem | OK |
| 211 | CCB058 | CCB058 | CCB | 12/18/24 06:45 | | Kareem | OK |
| 212 | P5058-08 | MBHL85 | SAM | 12/18/24 06:49 | Not Use | Kareem | Not Ok |
| 213 | P5058-09 | MBHL86 | SAM | 12/18/24 06:53 | Not Use | Kareem | Not Ok |
| 214 | P5058-10 | MBHL87 | SAM | 12/18/24 06:57 | Not Use | Kareem | Not Ok |

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**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133990

| | | | |
|---|---|---|---|
| Review By | Kareem Khairalla | Review On | 12/19/2024 12:28:16 AM |
| Supervise By | Sarabjit Jaswal | Supervise On | 1/6/2025 8:51:01 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 215 | P5058-11 | MBHL88 | SAM | 12/18/24 07:01 | Not Use | Kareem | Not Ok |
| 216 | P5058-12 | MBHL89 | SAM | 12/18/24 07:04 | Not Use | Kareem | Not Ok |
| 217 | P5058-13 | MBHL90 | SAM | 12/18/24 07:08 | Not Use | Kareem | Not Ok |
| 218 | P5058-14 | MBHL98 | SAM | 12/18/24 07:12 | Not Use | Kareem | Not Ok |
| 219 | P5058-15 | MBHL99 | SAM | 12/18/24 07:16 | Not Use | Kareem | Not Ok |
| 220 | P5058-16 | MBHLA0 | SAM | 12/18/24 07:20 | Not Use | Kareem | Not Ok |
| 221 | P5058-17 | MBHLA1 | SAM | 12/18/24 07:24 | Not Use | Kareem | Not Ok |
| 222 | P5058-18 | MBHLA2 | SAM | 12/18/24 07:28 | Not Use | Kareem | Not Ok |
| 223 | P5058-19 | MBHLA3 | SAM | 12/18/24 07:31 | Not Use | Kareem | Not Ok |
| 224 | P5058-20 | MBHLA4 | SAM | 12/18/24 07:35 | Not Use | Kareem | Not Ok |
| 225 | P5058-21 | MBHLC6 | SAM | 12/18/24 07:39 | Not Use | Kareem | Not Ok |
| 226 | P5058-22 | MBHLC7 | SAM | 12/18/24 07:43 | Not Use | Kareem | Not Ok |
| 227 | PB165490BL | PBS490 | MB | 12/18/24 07:47 | Not used | Kareem | Not Ok |
| 228 | PB165490BS | LCS490 | LCS | 12/18/24 07:51 | Not used | Kareem | Not Ok |
| 229 | CCV059 | CCV059 | CCV | 12/18/24 07:55 | | Kareem | OK |
| 230 | CCB059 | CCB059 | CCB | 12/18/24 07:58 | | Kareem | OK |

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**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134161

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/6/2025 4:37:53 AM |
| Supervise By | Mohan Bera | Supervise On | 1/6/2025 4:38:30 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 01/03/25 12:30 | | Kareem | OK |
| 2 | S1 | S01 | CAL2 | 01/03/25 12:34 | | Kareem | OK |
| 3 | S2 | S02 | CAL3 | 01/03/25 12:38 | | Kareem | OK |
| 4 | S3 | S03 | CAL4 | 01/03/25 12:42 | | Kareem | OK |
| 5 | S4 | S04 | CAL5 | 01/03/25 12:45 | | Kareem | OK |
| 6 | S5 | S05 | CAL6 | 01/03/25 12:49 | | Kareem | OK |
| 7 | S6 | S06 | CAL7 | 01/03/25 12:53 | | Kareem | OK |
| 8 | ICV051 | ICV051 | ICV | 01/03/25 13:04 | Inst. paused for Calibration review | Kareem | OK |
| 9 | ICB051 | ICB051 | ICB | 01/03/25 13:08 | | Kareem | OK |
| 10 | ICSA051 | ICSA051 | ICSA | 01/03/25 13:12 | | Kareem | OK |
| 11 | ICSAB051 | ICSAB051 | ICSAB | 01/03/25 13:30 | Inst. paused for review | Kareem | OK |
| 12 | CCV100 | CCV100 | CCV | 01/03/25 13:34 | | Kareem | OK |
| 13 | CCB100 | CCB100 | CCB | 01/03/25 13:37 | | Kareem | OK |
| 14 | PB165852BL | PBS852 | MB | 01/03/25 13:42 | NOT USE | Kareem | Not Ok |
| 15 | PB165852BS | LCS852 | LCS | 01/03/25 13:46 | NOT USE | Kareem | Not Ok |
| 16 | PB165860BL | PBS860 | MB | 01/03/25 13:50 | NOT USE | Kareem | Not Ok |
| 17 | PB165861BL | PBS861 | MB | 01/03/25 13:58 | NOT USE | Kareem | Not Ok |
| 18 | PB165860BS | LCS860 | LCS | 01/03/25 14:02 | NOT USE | Kareem | Not Ok |

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**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134161

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/6/2025 4:37:53 AM |
| Supervise By | Mohan Bera | Supervise On | 1/6/2025 4:38:30 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | PB165861BS | LCS861 | LCS | 01/03/25 14:06 | NOT USE | Kareem | Not Ok |
| 20 | PB165841BL | PBS841 | MB | 01/03/25 14:10 | NOT USE | Kareem | Not Ok |
| 21 | PB165841BS | LCS841 | LCS | 01/03/25 14:14 | NOT USE | Kareem | Not Ok |
| 22 | PB165850BL | PBS850 | MB | 01/03/25 14:18 | NOT USE | Kareem | Not Ok |
| 23 | PB165840BL | PBS840 | MB | 01/03/25 14:26 | NOT USE | Kareem | Not Ok |
| 24 | PB165840BS | LCS840 | LCS | 01/03/25 14:34 | NOT USE | Kareem | Not Ok |
| 25 | PB165850BS | LCS850 | LCS | 01/03/25 14:38 | NOT USE | Kareem | Not Ok |
| 26 | PB165842BL | PBS842 | MB | 01/03/25 14:42 | NOT USE | Kareem | Not Ok |
| 27 | PB165842BS | LCS842 | LCS | 01/03/25 14:46 | NOT USE | Kareem | Not Ok |
| 28 | PB165891BL | PBS891 | MB | 01/03/25 14:50 | NOT USE | Kareem | Not Ok |
| 29 | PB165891BS | LCS891 | LCS | 01/03/25 14:55 | NOT USE | Kareem | Not Ok |
| 30 | PB165566BL | PBS566 | MB | 01/03/25 14:58 | NOT USE | Kareem | Not Ok |
| 31 | PB165566BS | LCS566 | LCS | 01/03/25 15:03 | NOT USE | Kareem | Not Ok |
| 32 | P5126-01 | MBHM98 | SAM | 01/03/25 15:07 | NOT USE | Kareem | Not Ok |
| 33 | CCV101 | CCV101 | CCV | 01/03/25 15:10 | | Kareem | OK |
| 34 | CCB101 | CCB101 | CCB | 01/03/25 15:14 | | Kareem | OK |
| 35 | P5126-02 | MBHM99 | SAM | 01/03/25 15:18 | NOT USE | Kareem | Not Ok |
| 36 | P5126-16 | MBHMM9 | SAM | 01/03/25 15:22 | NOT USE | Kareem | Not Ok |
| 37 | P5126-03 | MBHMA0 | SAM | 01/03/25 15:26 | NOT USE | Kareem | Not Ok |
| 38 | P5126-04 | MBHMA0D | DUP | 01/03/25 15:30 | NOT USE | Kareem | Not Ok |

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**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134161

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/6/2025 4:37:53 AM |
| Supervise By | Mohan Bera | Supervise On | 1/6/2025 4:38:30 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 39 | P5126-03L | MBHMA0L | SD | 01/03/25 15:33 | NOT USE | Kareem | Not Ok |
| 40 | P5127-04 | MBHMB1 | SAM | 01/03/25 15:37 | NOT USE | Kareem | Not Ok |
| 41 | P5127-05 | MBHMB1D | DUP | 01/03/25 15:41 | NOT USE | Kareem | Not Ok |
| 42 | P5127-04DL | MBHMB1 | SAM | 01/03/25 15:45 | NOT USE | Kareem | Not Ok |
| 43 | P5127-06 | MBHMB1S | MS | 01/03/25 15:49 | NOT USE | Kareem | Not Ok |
| 44 | P5128-19 | MBHMK9 | SAM | 01/03/25 15:53 | NOT USE | Kareem | Not Ok |
| 45 | P5128-20 | MBHMK9D | DUP | 01/03/25 15:57 | NOT USE | Kareem | Not Ok |
| 46 | P5128-19L | MBHMK9L | SD | 01/03/25 16:01 | NOT USE | Kareem | Not Ok |
| 47 | P5128-21 | MBHMK9S | MS | 01/03/25 16:05 | NOT USE | Kareem | Not Ok |
| 48 | P5122-12 | MBHMC9 | SAM | 01/03/25 16:08 | NOT USE | Kareem | Not Ok |
| 49 | P5122-13 | MBHMC9D | DUP | 01/03/25 16:12 | NOT USE | Kareem | Not Ok |
| 50 | P5122-12L | MBHMC9L | SD | 01/03/25 16:16 | NOT USE | Kareem | Not Ok |
| 51 | P5122-14 | MBHMC9S | MS | 01/03/25 16:20 | NOT USE | Kareem | Not Ok |
| 52 | P5124-19 | MBHM88 | SAM | 01/03/25 16:24 | NOT USE | Kareem | Not Ok |
| 53 | P5124-20 | MBHM88D | DUP | 01/03/25 16:27 | NOT USE | Kareem | Not Ok |
| 54 | P5124-19L | MBHM88L | SD | 01/03/25 16:31 | NOT USE | Kareem | Not Ok |
| 55 | CCV102 | CCV102 | CCV | 01/03/25 16:35 | | Kareem | OK |
| 56 | CCB102 | CCB102 | CCB | 01/03/25 16:39 | | Kareem | OK |
| 57 | P5124-21 | MBHM88S | MS | 01/03/25 16:43 | NOT USE | Kareem | Not Ok |
| 58 | P5121-10 | MBHM51 | SAM | 01/03/25 16:47 | NOT USE | Kareem | Not Ok |

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**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134161

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/6/2025 4:37:53 AM |
| Supervise By | Mohan Bera | Supervise On | 1/6/2025 4:38:30 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 59 | P5121-11 | MBHM51D | DUP | 01/03/25 16:50 | NOT USE | Kareem | Not Ok |
| 60 | P5121-10L | MBHM51L | SD | 01/03/25 16:54 | NOT USE | Kareem | Not Ok |
| 61 | P5121-12 | MBHM51S | MS | 01/03/25 16:58 | NOT USE | Kareem | Not Ok |
| 62 | P5129-01 | MBHMK3 | SAM | 01/03/25 17:02 | NOT USE | Kareem | Not Ok |
| 63 | P5129-02 | MBHMK3D | DUP | 01/03/25 17:06 | NOT USE | Kareem | Not Ok |
| 64 | P5129-01L | MBHMK3L | SD | 01/03/25 17:09 | NOT USE | Kareem | Not Ok |
| 65 | P5129-03 | MBHMK3S | MS | 01/03/25 17:13 | NOT USE | Kareem | Not Ok |
| 66 | P5352-04 | ME2926 | SAM | 01/03/25 17:17 | NOT USE | Kareem | Not Ok |
| 67 | P5352-05 | ME2926D | DUP | 01/03/25 17:21 | NOT USE | Kareem | Not Ok |
| 68 | P5352-04L | ME2926L | SD | 01/03/25 17:25 | NOT USE | Kareem | Not Ok |
| 69 | P5352-06 | ME2926S | MS | 01/03/25 17:29 | NOT USE | Kareem | Not Ok |
| 70 | P5201-19 | MBHNE7 | SAM | 01/03/25 17:32 | NOT USE | Kareem | Not Ok |
| 71 | P5201-20 | MBHNE7D | DUP | 01/03/25 17:36 | NOT USE | Kareem | Not Ok |
| 72 | P5201-19L | MBHNE7L | SD | 01/03/25 17:40 | NOT USE | Kareem | Not Ok |
| 73 | P5201-21 | MBHNE7S | MS | 01/03/25 17:44 | NOT USE | Kareem | Not Ok |
| 74 | P5212-05 | MBHNF3 | SAM | 01/03/25 17:48 | NOT USE | Kareem | Not Ok |
| 75 | P5212-06 | MBHNF3D | DUP | 01/03/25 17:51 | NOT USE | Kareem | Not Ok |
| 76 | P5212-05L | MBHNF3L | SD | 01/03/25 17:55 | NOT USE | Kareem | Not Ok |
| 77 | CCV103 | CCV103 | CCV | 01/03/25 17:59 | | Kareem | OK |
| 78 | CCB103 | CCB103 | CCB | 01/03/25 18:03 | | Kareem | OK |

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**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134161

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/6/2025 4:37:53 AM |
| Supervise By | Mohan Bera | Supervise On | 1/6/2025 4:38:30 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

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|---|---|---|---|---|---|---|---|
| 79 | P5212-07 | MBHNF3S | MS | 01/03/25 18:07 | NOT USE | Kareem | Not Ok |
| 80 | P5126-05 | MBHMA0S | MS | 01/03/25 18:11 | NOT USE | Kareem | Not Ok |
| 81 | P5054-03A | MBHKR2A | PS | 01/03/25 18:14 | PS For Cu-0.0075-M5697,Zn-0.032-M5819,Tl-0.05-MP83745 -10 ml Sample | Kareem | OK |
| 82 | P5055-10A | MBHKT3A | PS | 01/03/25 18:18 | PS for Se-0.01 - MP83726,tl-0.05-MP83745, zn-0.018-M5819-10ml sample | Kareem | OK |
| 83 | P5057-07A | MBHL09A | PS | 01/03/25 18:22 | PS for Se-0.017-MP83726,Tl-0.05 -MP83745,Zn-0.033-M5819-10 ml sample | Kareem | OK |
| 84 | P5058-03A | MBHL82A | PS | 01/03/25 18:26 | PS For Tl-0.05 - MP83745 - 10ml Sample | Kareem | OK |
| 85 | P5060-01A | MBHKR8A | PS | 01/03/25 18:30 | PS For SE-0.01ML-MP83726,TL-0.05ML-MP83745,ZN-0.04ML-M5819-10 ml Sample | Kareem | OK |
| 86 | P5062-06A | MBHL02A | PS | 01/03/25 18:33 | PS For Tl-0.05 - MP83745 - 10ml Sample | Kareem | OK |
| 87 | P5064-18A | MBHLB8A | PS | 01/03/25 18:37 | PS For SE-0.017ML-MP83726 - 10ml Sample | Kareem | OK |
| 88 | P5071-01A | MBHKX5A | PS | 01/03/25 18:41 | PS for CU-0.017ML-M5697,SE-0.008ML-MP83726,ZN-0.011ML-M5819,TL-0.05ML-MP83745-10 ml Sample | Kareem | OK |
| | | | | | | | |

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**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134161

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/6/2025 4:37:53 AM |
| Supervise By | Mohan Bera | Supervise On | 1/6/2025 4:38:30 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 89 | P5079-10A | MBHLF8A | PS | 01/03/25 18:45 | PS For cu-0.0045-M5697,se-0.007 -MP83726,tl-0.05-MP8374 5-10 ml Sample | Kareem | OK |
| 90 | P5080-10A | MBHLE8A | PS | 01/03/25 18:49 | PS for As,Se,Tl | Kareem | OK |
| 91 | P5081-05A | MBHLG4A | PS | 01/03/25 18:53 | PS For BE-0.014ML-MP83672,CU-0.0055ML-M5697,SE-0.012ML-MP83726,V-0.0036ML-M6021,ZN-0.02ML-M5819,TL-0.05ML-MP83745 - 10ml Sample | Kareem | OK |
| 92 | P5082-06A | MBHLL6A | PS | 01/03/25 18:56 | PS For AS-0.026ML-MP83728,TL-0.05ML-MP83745 - 10 ml Sample | Kareem | OK |
| 93 | P5087-07A | MBHLY4DA | PS | 01/03/25 19:00 | PS for BA-0.02ML-M5390,BE-0.015ML-MP83672,CU-0.0073ML-M5697,SE-0.018ML-MP83726,TL-0.05ML-MP83745,ZN-0.016ML-M5819-10 ml Sample | Kareem | OK |
| 94 | P5092-04A | MBHLP3A | PS | 01/03/25 19:04 | PS for SE-0.016ML-MP83726,TL-0.05ML-MP83745,ZN-0.018ML-M5819- 10 ml Sample | Kareem | OK |
| 95 | P5125-05A | MBHM94A | PS | 01/03/25 19:08 | PS for CU-0.012ML-M5697,SE-0.021ML-MP83726,ZN-0.065ML-M5819,TL-0.05ML-MP83745 - 10 ml Sample | Kareem | OK |
| | | | | | | | |

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**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134161

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/6/2025 4:37:53 AM |
| Supervise By | Mohan Bera | Supervise On | 1/6/2025 4:38:30 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 96 | P5131-07A | MBHMM6A | PS | 01/03/25 19:12 | PS for AS-0.004ML-M5801,CU-0.0069ML-M5697,SE-0.022ML-MP83726,TL-0.05ML-MP83745,ZN-0.055ML-M5819 - 10 ml Sample | Kareem | OK |
| 97 | P5126-06 | MBHMA1 | SAM | 01/03/25 19:15 | | Kareem | OK |
| 98 | P5126-07 | MBHMA2 | SAM | 01/03/25 19:19 | | Kareem | OK |
| 99 | CCV104 | CCV104 | CCV | 01/03/25 19:23 | | Kareem | OK |
| 100 | CCB104 | CCB104 | CCB | 01/03/25 19:27 | | Kareem | OK |
| 101 | P5126-08 | MBHMA3 | SAM | 01/03/25 19:31 | | Kareem | OK |
| 102 | P5126-09 | MBHMA4 | SAM | 01/03/25 19:35 | | Kareem | OK |
| 103 | P5126-10 | MBHMA5 | SAM | 01/03/25 19:38 | | Kareem | OK |
| 104 | P5126-11 | MBHMA6 | SAM | 01/03/25 19:42 | | Kareem | OK |
| 105 | P5126-12 | MBHMA7 | SAM | 01/03/25 19:46 | | Kareem | OK |
| 106 | P5126-13 | MBHMF2 | SAM | 01/03/25 19:50 | | Kareem | OK |
| 107 | P5126-14 | MBHMF3 | SAM | 01/03/25 19:53 | | Kareem | OK |
| 108 | P5126-15 | MBHMM8 | SAM | 01/03/25 19:57 | | Kareem | OK |
| 109 | P5127-01 | MBHMA8 | SAM | 01/03/25 20:01 | | Kareem | OK |
| 110 | P5127-02 | MBHMA9 | SAM | 01/03/25 20:05 | | Kareem | OK |
| 111 | P5127-03 | MBHMB0 | SAM | 01/03/25 20:09 | Ca high | Kareem | Dilution |
| 112 | P5127-07 | MBHMB9 | SAM | 01/03/25 20:12 | | Kareem | OK |
| 113 | P5127-08 | MBHMC0 | SAM | 01/03/25 20:16 | | Kareem | OK |

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**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134161

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/6/2025 4:37:53 AM |
| Supervise By | Mohan Bera | Supervise On | 1/6/2025 4:38:30 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 114 | P5127-09 | MBHMC1 | SAM | 01/03/25 20:20 | | Kareem | OK |
| 115 | P5127-10 | MBHMC2 | SAM | 01/03/25 20:24 | | Kareem | OK |
| 116 | P5127-11 | MBHMC3 | SAM | 01/03/25 20:28 | | Kareem | OK |
| 117 | P5127-12 | MBHMC4 | SAM | 01/03/25 20:31 | | Kareem | OK |
| 118 | P5127-13 | MBHMC5 | SAM | 01/03/25 20:35 | | Kareem | OK |
| 119 | P5127-14 | MBHMD7 | SAM | 01/03/25 20:39 | | Kareem | OK |
| 120 | P5127-15 | MBHMD8 | SAM | 01/03/25 20:43 | | Kareem | OK |
| 121 | CCV105 | CCV105 | CCV | 01/03/25 20:47 | | Kareem | OK |
| 122 | CCB105 | CCB105 | CCB | 01/03/25 20:50 | | Kareem | OK |
| 123 | PB165506BL | PBS506 | MB | 01/03/25 20:54 | | Kareem | OK |
| 124 | PB165506BS | LCS506 | LCS | 01/03/25 20:58 | | Kareem | OK |
| 125 | PB165632BL | PBS632 | MB | 01/03/25 21:02 | | Kareem | OK |
| 126 | PB165632BS | LCS632 | LCS | 01/03/25 21:06 | | Kareem | OK |
| 127 | PB165726BL | PBS726 | MB | 01/03/25 21:10 | | Kareem | OK |
| 128 | PB165726BS | LCS726 | LCS | 01/03/25 21:14 | | Kareem | OK |
| 129 | PB165741BL | PBS741 | MB | 01/03/25 21:18 | | Kareem | OK |
| 130 | PB165741BS | LCS741 | LCS | 01/03/25 21:22 | | Kareem | OK |
| 131 | P5058-03DL | MBHL82 | SAM | 01/03/25 21:26 | 2x for Ca | Kareem | Confirms |
| 132 | P5058-04DL | MBHL82D | DUP | 01/03/25 21:30 | 2x for Ca | Kareem | Confirms |
| 133 | P5058-03LDL | MBHL82L | SD | 01/03/25 21:34 | 10x for Ca | Kareem | Confirms |

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**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134161

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/6/2025 4:37:53 AM |
| Supervise By | Mohan Bera | Supervise On | 1/6/2025 4:38:30 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 134 | P5058-05DL | MBHL82S | MS | 01/03/25 21:38 | 2x for Ca | Kareem | Confirms |
| 135 | P5058-06DL | MBHL83 | SAM | 01/03/25 21:42 | 2x for Ca | Kareem | Confirms |
| 136 | P5058-20DL | MBHLA4 | SAM | 01/03/25 21:45 | 2x for Ca | Kareem | Confirms |
| 137 | P5054-20DL | MBHKW2 | SAM | 01/03/25 21:49 | 5x for Ca | Kareem | Confirms |
| 138 | P5054-21DL | MBHKW3 | SAM | 01/03/25 21:53 | 2x for Ca | Kareem | Confirms |
| 139 | P5056-20 | MBHL47 | SAM | 01/03/25 21:57 | Ca high | Kareem | Dilution |
| 140 | P5056-21 | MBHL47D | DUP | 01/03/25 22:01 | Ca high | Kareem | Dilution |
| 141 | P5056-20L | MBHL47L | SD | 01/03/25 22:05 | Ca high | Kareem | Dilution |
| 142 | P5056-22 | MBHL47S | MS | 01/03/25 22:09 | Ca high | Kareem | Dilution |
| 143 | CCV106 | CCV106 | CCV | 01/03/25 22:13 | | Kareem | OK |
| 144 | CCB106 | CCB106 | CCB | 01/03/25 22:16 | | Kareem | OK |
| 145 | P5056-07DL | MBHKY5 | SAM | 01/03/25 22:20 | 2X for Ca | Kareem | Confirms |
| 146 | P5056-12DL | MBHL39 | SAM | 01/03/25 22:24 | 2X for Ca | Kareem | Confirms |
| 147 | P5056-13DL | MBHL40 | SAM | 01/03/25 22:28 | 2X for Ca | Kareem | Confirms |
| 148 | P5056-14DL | MBHL41 | SAM | 01/03/25 22:32 | 2X for Ca | Kareem | Confirms |
| 149 | P5057-04DL | MBHL06 | SAM | 01/03/25 22:36 | 2X for Ca | Kareem | Confirms |
| 150 | P5055-07DL | MBHKT0 | SAM | 01/03/25 22:40 | 2X for Ca | Kareem | Confirms |
| 151 | P5055-08DL | MBHKT1 | SAM | 01/03/25 22:43 | 2X for Ca | Kareem | Confirms |
| 152 | P5055-09DL | MBHKT2 | SAM | 01/03/25 22:47 | 2X for Ca | Kareem | Confirms |
| 153 | P5055-14DL | MBHKT5 | SAM | 01/03/25 22:51 | 2X for Ca | Kareem | Confirms |

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**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134161

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/6/2025 4:37:53 AM |
| Supervise By | Mohan Bera | Supervise On | 1/6/2025 4:38:30 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 154 | P5055-15DL | MBHKT6 | SAM | 01/03/25 22:55 | NOT USE | Kareem | Not Ok |
| 155 | P5055-16DL | MBHKT7 | SAM | 01/03/25 22:59 | 2X for Ca | Kareem | Confirms |
| 156 | P5055-20DL | MBHKW8 | SAM | 01/03/25 23:03 | 2X for Ca | Kareem | Confirms |
| 157 | P5055-21DL | MBHKW9 | SAM | 01/03/25 23:07 | 5X for Ca | Kareem | Confirms |
| 158 | P5055-22DL | MBHKX0 | SAM | 01/03/25 23:10 | 2X for Ca | Kareem | Confirms |
| 159 | P5064-04DL | MBHL97 | SAM | 01/03/25 23:14 | 2X for Ca | Kareem | Confirms |
| 160 | P5061-05DL | MBHL52 | SAM | 01/03/25 23:18 | 2X for Ca | Kareem | Confirms |
| 161 | P5061-06DL | MBHL52D | DUP | 01/03/25 23:22 | 2X for Ca | Kareem | Confirms |
| 162 | P5061-05LDL | MBHL52L | SD | 01/03/25 23:26 | 10X for Ca | Kareem | Confirms |
| 163 | P5061-07DL | MBHL52S | MS | 01/03/25 23:30 | 2X for Ca | Kareem | Confirms |
| 164 | P5061-08DL | MBHL53 | SAM | 01/03/25 23:34 | 2X for Ca | Kareem | Confirms |
| 165 | CCV107 | CCV107 | CCV | 01/03/25 23:38 | | Kareem | OK |
| 166 | CCB107 | CCB107 | CCB | 01/03/25 23:41 | | Kareem | OK |
| 167 | P5061-09DL | MBHL54 | SAM | 01/03/25 23:45 | 2X for Ca | Kareem | Confirms |
| 168 | P5061-11DL | MBHL60 | SAM | 01/03/25 23:49 | 2X for Ca | Kareem | Confirms |
| 169 | P5061-22DL | MBHKZ6 | SAM | 01/03/25 23:53 | 2X for Ca | Kareem | Confirms |
| 170 | P5061-15DL | MBHL64 | SAM | 01/03/25 23:57 | 5X for Ca | Kareem | Confirms |
| 171 | P5079-06DL | MBHLF4 | SAM | 01/04/25 00:01 | NOT USE | Kareem | Not Ok |
| 172 | P5079-21DL | MBHLH4 | SAM | 01/04/25 00:05 | 2X for Ba | Kareem | Confirms |
| 173 | P5060-04DL | MBHKW4 | SAM | 01/04/25 00:08 | 2X for Ca | Kareem | Confirms |

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**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134161

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/6/2025 4:37:53 AM |
| Supervise By | Mohan Bera | Supervise On | 1/6/2025 4:38:30 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 174 | P5060-14DL | MBHKX1 | SAM | 01/04/25 00:12 | 2X for Ca | Kareem | Confirms |
| 175 | P5060-18DL | MBHKX6 | SAM | 01/04/25 00:16 | 2X for Ca | Kareem | Confirms |
| 176 | P5060-19DL | MBHKX7 | SAM | 01/04/25 00:20 | 2X for Ca | Kareem | Confirms |
| 177 | P5060-21DL | MBHL58 | SAM | 01/04/25 00:24 | 2X for Ca | Kareem | Confirms |
| 178 | P5062-01DL | MBHKZ7 | SAM | 01/04/25 00:28 | NOT USE | Kareem | Not Ok |
| 179 | P5062-02DL | MBHKZ8 | SAM | 01/04/25 00:31 | NOT USE | Kareem | Not Ok |
| 180 | P5062-03DL | MBHKZ9 | SAM | 01/04/25 00:35 | 2X for Ca | Kareem | Confirms |
| 181 | P5062-10DL | MBHL24 | SAM | 01/04/25 00:39 | 2X for Ca | Kareem | Confirms |
| 182 | P5062-13DL | MBHL27 | SAM | 01/04/25 00:43 | 2X for Ca | Kareem | Confirms |
| 183 | P5062-14DL | MBHL68 | SAM | 01/04/25 00:47 | 2X for Ca | Kareem | Confirms |
| 184 | P5062-20DL | MBHLD2 | SAM | 01/04/25 00:51 | 2X for Mn | Kareem | Confirms |
| 185 | P5062-11DL | MBHL25 | SAM | 01/04/25 00:55 | NOT USE | Kareem | Not Ok |
| 186 | P5081-02DL | MBHLG1 | SAM | 01/04/25 00:58 | 2X for Ca | Kareem | Confirms |
| 187 | CCV108 | CCV108 | CCV | 01/04/25 01:02 | | Kareem | OK |
| 188 | CCB108 | CCB108 | CCB | 01/04/25 01:06 | | Kareem | OK |
| 189 | P5081-03DL | MBHLG2 | SAM | 01/04/25 01:10 | 2X for Ca | Kareem | Confirms |
| 190 | P5091-01DL | MBHLR4 | SAM | 01/04/25 01:14 | 2X for Ca | Kareem | Confirms |
| 191 | P5091-02DL | MBHLR5 | SAM | 01/04/25 01:18 | 2X for Ca | Kareem | Confirms |
| 192 | P5091-03DL | MBHLR6 | SAM | 01/04/25 01:21 | 2X for Ca | Kareem | Confirms |
| 193 | P5091-11DL | MBHLS2 | SAM | 01/04/25 01:25 | 2X for Ca | Kareem | Confirms |

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**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134161

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/6/2025 4:37:53 AM |
| Supervise By | Mohan Bera | Supervise On | 1/6/2025 4:38:30 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 194 | P5091-12DL | MBHLS3 | SAM | 01/04/25 01:29 | 2X for Ca | Kareem | Confirms |
| 195 | P5091-13DL | MBHLS4 | SAM | 01/04/25 01:33 | 2X for Ca | Kareem | Confirms |
| 196 | P5091-18DL | MBHLS9 | SAM | 01/04/25 01:37 | 2X for Ca | Kareem | Confirms |
| 197 | P5091-19DL | MBHLT0 | SAM | 01/04/25 01:41 | 2X for Ca | Kareem | Confirms |
| 198 | P5091-20DL | MBHLT1 | SAM | 01/04/25 01:45 | 4X for Ca | Kareem | Confirms |
| 199 | P5082-03DL | MBHLL3 | SAM | 01/04/25 01:48 | 2X for Ca | Kareem | Confirms |
| 200 | P5087-18DL | MBHM34 | SAM | 01/04/25 01:52 | 4X for Ca | Kareem | Confirms |
| 201 | P5086-14DL | MBHLN7 | SAM | 01/04/25 01:56 | 2X for Ca | Kareem | Confirms |
| 202 | P5086-15DL | MBHLN8 | SAM | 01/04/25 02:00 | 4X for Ca | Kareem | Confirms |
| 203 | P5086-16DL | MBHLN9 | SAM | 01/04/25 02:04 | not use | Kareem | Not Ok |
| 204 | P5084-05DL | MBHLW9 | SAM | 01/04/25 02:08 | 2X for Ca | Kareem | Confirms |
| 205 | P5084-06DL | MBHLX0 | SAM | 01/04/25 02:12 | 2X for Ca | Kareem | Confirms |
| 206 | P5084-07DL | MBHLX1 | SAM | 01/04/25 02:16 | 2X for Ca | Kareem | Confirms |
| 207 | P5084-08DL | MBHLX2 | SAM | 01/04/25 02:20 | 5X for Ca | Kareem | Confirms |
| 208 | P5084-18DL | MBHM32 | SAM | 01/04/25 02:24 | 2X for Ca | Kareem | Confirms |
| 209 | CCV109 | CCV109 | CCV | 01/04/25 02:27 | | Kareem | OK |
| 210 | CCB109 | CCB109 | CCB | 01/04/25 02:31 | | Kareem | OK |
| 211 | P5083-14DL | MBHLM3 | SAM | 01/04/25 02:35 | 2X for Ca | Kareem | Confirms |
| 212 | P5083-15DL | MBHLM4 | SAM | 01/04/25 02:39 | 4X for Ca | Kareem | Confirms |
| 213 | P5083-16DL | MBHLM5 | SAM | 01/04/25 02:43 | 4X for Ca | Kareem | Confirms |

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**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134161

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/6/2025 4:37:53 AM |
| Supervise By | Mohan Bera | Supervise On | 1/6/2025 4:38:30 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 214 | P5092-09DL | MBHLP6 | SAM | 01/04/25 02:47 | 4X for Ca | Kareem | Confirms |
| 215 | P5092-16DL | MBHLT7 | SAM | 01/04/25 02:51 | 2X for Ca | Kareem | Confirms |
| 216 | P5130-15 | MBHMH5 | SAM | 01/04/25 02:55 | | Kareem | OK |
| 217 | P5130-16 | MBHMH5D | DUP | 01/04/25 02:58 | | Kareem | OK |
| 218 | P5130-15L | MBHMH5L | SD | 01/04/25 03:02 | | Kareem | OK |
| 219 | P5130-17 | MBHMH5S | MS | 01/04/25 03:06 | MS fail for As(141.4501ppb),Cu(580.1397ppb),Se(111.3629ppb), Tl(Below RL) | Kareem | OK |
| 220 | P5335-03DL | ME2906 | SAM | 01/04/25 03:10 | 4X for Ca | Kareem | Confirms |
| 221 | P5335-09DL | ME2912 | SAM | 01/04/25 03:14 | 4X for Ca | Kareem | Confirms |
| 222 | P5335-11DL | ME2914 | SAM | 01/04/25 03:17 | 2X for Ca | Kareem | Confirms |
| 223 | P5335-12DL | ME2915 | SAM | 01/04/25 03:21 | 4X for Ca | Kareem | Confirms |
| 224 | P5335-14DL | ME2917 | SAM | 01/04/25 03:25 | 2X for Ca | Kareem | Confirms |
| 225 | P5335-15DL | ME2918 | SAM | 01/04/25 03:29 | 2X for Ca | Kareem | Confirms |
| 226 | P5335-16DL | ME2919 | SAM | 01/04/25 03:33 | 2X for Ca | Kareem | Confirms |
| 227 | P5335-17DL | ME2920 | SAM | 01/04/25 03:36 | 2X for Ca | Kareem | Confirms |
| 228 | P5131-01 | MBHMM0 | SAM | 01/04/25 03:40 | | Kareem | OK |
| 229 | P5131-02 | MBHMM1 | SAM | 01/04/25 03:44 | | Kareem | OK |
| 230 | P5131-03 | MBHMM2 | SAM | 01/04/25 03:48 | | Kareem | OK |
| 231 | CCV110 | CCV110 | CCV | 01/04/25 03:52 | | Kareem | OK |

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**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134161

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/6/2025 4:37:53 AM |
| Supervise By | Mohan Bera | Supervise On | 1/6/2025 4:38:30 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 232 | CCB110 | CCB110 | CCB | 01/04/25 03:55 | | Kareem | OK |
| 233 | P5131-04 | MBHMM3 | SAM | 01/04/25 03:59 | | Kareem | OK |
| 234 | P5131-05 | MBHMM4 | SAM | 01/04/25 04:03 | | Kareem | OK |
| 235 | P5131-06 | MBHMM5 | SAM | 01/04/25 04:07 | | Kareem | OK |
| 236 | P5131-10 | MBHMM7 | SAM | 01/04/25 04:11 | Mn high | Kareem | Dilution |
| 237 | P5131-11 | MBHMN2 | SAM | 01/04/25 04:14 | | Kareem | OK |
| 238 | P5131-12 | MBHMN3 | SAM | 01/04/25 04:18 | | Kareem | OK |
| 239 | P5127-16 | MBHMD9 | SAM | 01/04/25 04:22 | | Kareem | OK |
| 240 | P5127-17 | MBHME0 | SAM | 01/04/25 04:26 | | Kareem | OK |
| 241 | P5127-18 | MBHME7 | SAM | 01/04/25 04:30 | | Kareem | OK |
| 242 | P5127-19 | MBHME8 | SAM | 01/04/25 04:33 | | Kareem | OK |
| 243 | P5127-20 | MBHME9 | SAM | 01/04/25 04:37 | | Kareem | OK |
| 244 | P5127-21 | MBHMF0 | SAM | 01/04/25 04:41 | | Kareem | OK |
| 245 | P5127-22 | MBHMF1 | SAM | 01/04/25 04:45 | | Kareem | OK |
| 246 | P5128-01 | MBHME4 | SAM | 01/04/25 04:49 | | Kareem | OK |
| 247 | P5128-02 | MBHME5 | SAM | 01/04/25 04:52 | | Kareem | OK |
| 248 | P5128-03 | MBHME6 | SAM | 01/04/25 04:56 | | Kareem | OK |
| 249 | P5128-04 | MBHMG8 | SAM | 01/04/25 05:00 | | Kareem | OK |
| 250 | P5128-05 | MBHMG9 | SAM | 01/04/25 05:04 | | Kareem | OK |
| 251 | P5128-06 | MBHMH0 | SAM | 01/04/25 05:08 | | Kareem | OK |

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**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134161

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/6/2025 4:37:53 AM |
| Supervise By | Mohan Bera | Supervise On | 1/6/2025 4:38:30 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 252 | P5128-07 | MBHMH1 | SAM | 01/04/25 05:11 | | Kareem | OK |
| 253 | CCV111 | CCV111 | CCV | 01/04/25 05:15 | | Kareem | OK |
| 254 | CCB111 | CCB111 | CCB | 01/04/25 05:19 | | Kareem | OK |

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**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134162

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/6/2025 10:45:01 AM |
| Supervise By | Mohan Bera | Supervise On | 1/6/2025 10:45:56 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | MP83726,MP83745,M5819,MP83674 |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 01/05/25 16:31 | | Kareem | OK |
| 2 | S1 | S01 | CAL2 | 01/05/25 16:35 | | Kareem | OK |
| 3 | S2 | S02 | CAL3 | 01/05/25 16:39 | | Kareem | OK |
| 4 | S3 | S03 | CAL4 | 01/05/25 16:43 | | Kareem | OK |
| 5 | S4 | S04 | CAL5 | 01/05/25 16:46 | | Kareem | OK |
| 6 | S5 | S05 | CAL6 | 01/05/25 16:50 | | Kareem | OK |
| 7 | S6 | S06 | CAL7 | 01/05/25 16:54 | | Kareem | OK |
| 8 | ICV052 | ICV052 | ICV | 01/05/25 17:52 | Inst. paused for calibration review | Kareem | OK |
| 9 | ICB052 | ICB052 | ICB | 01/05/25 17:56 | | Kareem | OK |
| 10 | ICSA052 | ICSA052 | ICSA | 01/05/25 18:00 | | Kareem | OK |
| 11 | ICSAB052 | ICSAB052 | ICSAB | 01/05/25 18:04 | | Kareem | OK |
| 12 | CCV112 | CCV112 | CCV | 01/05/25 18:08 | | Kareem | OK |
| 13 | CCB112 | CCB112 | CCB | 01/05/25 18:12 | | Kareem | OK |
| 14 | P5058-03 | MBHL82 | SAM | 01/05/25 18:16 | NOT USE | Kareem | Not Ok |
| 15 | P5058-04 | MBHL82D | DUP | 01/05/25 18:20 | NOT USE | Kareem | Not Ok |
| 16 | P5058-03L | MBHL82L | SD | 01/05/25 18:23 | NOT USE | Kareem | Not Ok |
| 17 | P5058-05 | MBHL82S | MS | 01/05/25 18:27 | NOT USE | Kareem | Not Ok |
| 18 | P5121-10 | MBHM51 | SAM | 01/05/25 18:31 | | Kareem | OK |

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**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134162

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/6/2025 10:45:01 AM |
| Supervise By | Mohan Bera | Supervise On | 1/6/2025 10:45:56 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | MP83726,MP83745,M5819,MP83674 |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | P5121-11 | MBHM51D | DUP | 01/05/25 18:35 | | Kareem | OK |
| 20 | P5121-10L | MBHM51L | SD | 01/05/25 18:39 | | Kareem | OK |
| 21 | P5121-12 | MBHM51S | MS | 01/05/25 18:43 | MS fail for Se (ppb) & Sb,Ag,Tl (Below RL) | Kareem | OK |
| 22 | P5055-15DL | MBHKT6 | SAM | 01/05/25 18:46 | 4x for Ca | Kareem | Confirms |
| 23 | P5056-20DL | MBHL47 | SAM | 01/05/25 18:50 | 2x for Ca | Kareem | Confirms |
| 24 | P5056-21DL | MBHL47D | DUP | 01/05/25 18:54 | 2x for Ca | Kareem | Confirms |
| 25 | P5056-20LDL | MBHL47L | SD | 01/05/25 18:58 | 10x for Ca | Kareem | Confirms |
| 26 | P5056-22DL | MBHL47S | MS | 01/05/25 19:02 | Not Required | Kareem | Not Ok |
| 27 | P5062-01DL | MBHKZ7 | SAM | 01/05/25 19:06 | 4x for Ca | Kareem | Confirms |
| 28 | P5062-02DL | MBHKZ8 | SAM | 01/05/25 19:10 | 4x for Ca | Kareem | Confirms |
| 29 | P5079-06DL | MBHLF4 | SAM | 01/05/25 19:14 | 4x for Ca | Kareem | Confirms |
| 30 | P5080-09 | MBHLE7 | SAM | 01/05/25 19:18 | | Kareem | OK |
| 31 | P5080-13 | MBHLH6 | SAM | 01/05/25 19:21 | | Kareem | OK |
| 32 | P5080-14 | MBHLH7 | SAM | 01/05/25 19:25 | | Kareem | OK |
| 33 | P5080-15 | MBHLH8 | SAM | 01/05/25 19:29 | | Kareem | OK |
| 34 | CCV113 | CCV113 | CCV | 01/05/25 19:33 | | Kareem | OK |
| 35 | CCB113 | CCB113 | CCB | 01/05/25 19:37 | | Kareem | OK |
| 36 | P5080-16 | MBHLH9 | SAM | 01/05/25 19:41 | | Kareem | OK |
| 37 | P5080-17 | MBHLJ0 | SAM | 01/05/25 19:44 | | Kareem | OK |

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**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134162

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/6/2025 10:45:01 AM |
| Supervise By | Mohan Bera | Supervise On | 1/6/2025 10:45:56 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | MP83726,MP83745,M5819,MP83674 |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 38 | P5080-18 | MBHM29 | SAM | 01/05/25 19:48 | | Kareem | OK |
| 39 | P5080-19 | MBHM30 | SAM | 01/05/25 19:52 | | Kareem | OK |
| 40 | P5083-03A | MBHLK0A | PS | 01/05/25 19:56 | PS for Se,Tl,Zn,Ag(0.015ml mp83726,0.05ml mp83745,0.0036ml m5819,0.02ml mp83674-10ml sample) | Kareem | OK |
| 41 | P5086-16DL | MBHLN9 | SAM | 01/05/25 20:00 | 4x for Ca | Kareem | Confirms |
| 42 | P5122-12A | MBHMC9A | PS | 01/05/25 20:04 | PS for Tl(0.05ml mp83745-10ml sample) | Kareem | OK |
| 43 | P5124-19A | MBHM88A | PS | 01/05/25 20:07 | PS for Mn,Tl(0.042ml m5698,0.05ml mp83745-10ml sample) | Kareem | OK |
| 44 | P5126-03A | MBHMA0A | PS | 01/05/25 20:11 | PS for Tl(0.05ml mp83745-10ml sample) | Kareem | OK |
| 45 | P5128-19A | MBHMK9A | PS | 01/05/25 20:15 | PS for As,Tl(0.0049ml m5801,0.05ml mp83745-10ml sample) | Kareem | OK |
| 46 | P5129-01A | MBHMK3A | PS | 01/05/25 20:19 | PS for Cu,Se,Tl,Zn(0.0095ml m5697,0.02ml mp83726,0.05ml mp83745,0.031ml m5819-10ml sample) | Kareem | OK |
| 47 | P5130-15A | MBHMH5A | PS | 01/05/25 20:23 | PS for As,Cu,Se,Tl(0.028ml mp83728,0.016ml m5697,0.023ml mp83726,0.05ml mp83745-10ml sample) | Kareem | OK |
| 48 | P5201-19A | MBHNE7A | PS | 01/05/25 20:26 | PS for Se,Tl,Zn(0.032ml mp83726,0.05ml mp83745,0.006ml m5819) | Kareem | OK |

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**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134162

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/6/2025 10:45:01 AM |
| Supervise By | Mohan Bera | Supervise On | 1/6/2025 10:45:56 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | MP83726,MP83745,M5819,MP83674 |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 49 | P5212-05A | MBHNF3A | PS | 01/05/25 20:30 | PS for Se(0.012ml mp83726-10ml sample) | Kareem | OK |
| 50 | PB165852BL | PBS852 | MB | 01/05/25 20:34 | | Kareem | OK |
| 51 | PB165852BS | LCS852 | LCS | 01/05/25 20:38 | | Kareem | OK |
| 52 | P5126-01 | MBHM98 | SAM | 01/05/25 20:42 | | Kareem | OK |
| 53 | P5126-02 | MBHM99 | SAM | 01/05/25 20:46 | | Kareem | OK |
| 54 | P5126-03 | MBHMA0 | SAM | 01/05/25 20:50 | | Kareem | OK |
| 55 | P5126-04 | MBHMA0D | DUP | 01/05/25 20:53 | | Kareem | OK |
| 56 | CCV114 | CCV114 | CCV | 01/05/25 21:05 | | Kareem | OK |
| 57 | CCB114 | CCB114 | CCB | 01/05/25 21:09 | | Kareem | OK |
| 58 | P5126-03L | MBHMA0L | SD | 01/05/25 21:13 | | Kareem | OK |
| 59 | P5126-05 | MBHMA0S | MS | 01/05/25 21:17 | MS fail for Ag,Tl (Below RL) | Kareem | OK |
| 60 | P5126-16 | MBHMM9 | SAM | 01/05/25 21:20 | | Kareem | OK |
| 61 | PB165860BL | PBS860 | MB | 01/05/25 21:24 | | Kareem | OK |
| 62 | PB165860BS | LCS860 | LCS | 01/05/25 21:28 | | Kareem | OK |
| 63 | P5127-04 | MBHMB1 | SAM | 01/05/25 21:32 | Ca high | Kareem | Dilution |
| 64 | P5127-05 | MBHMB1D | DUP | 01/05/25 21:36 | Ca high | Kareem | Dilution |
| 65 | P5127-04L | MBHMB1L | SD | 01/05/25 21:40 | | Kareem | OK |
| 66 | P5127-06 | MBHMB1S | MS | 01/05/25 21:44 | Ca high, MS fail for Se,Ag (Below RL) | Kareem | Dilution |
| 67 | P5127-03DL | MBHMB0 | SAM | 01/05/25 21:48 | 2x for Ca | Kareem | Confirms |

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**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134162

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/6/2025 10:45:01 AM |
| Supervise By | Mohan Bera | Supervise On | 1/6/2025 10:45:56 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | MP83726,MP83745,M5819,MP83674 |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 68 | P5131-10DL | MBHMM7 | SAM | 01/05/25 21:51 | 2x for Mn | Kareem | Confirms |
| 69 | CCV115 | CCV115 | CCV | 01/05/25 21:55 | | Kareem | OK |
| 70 | CCB115 | CCB115 | CCB | 01/05/25 21:59 | | Kareem | OK |
| 71 | CCV116 | CCV116 | CCV | 01/05/25 23:09 | | Kareem | OK |
| 72 | CCB116 | CCB116 | CCB | 01/05/25 23:13 | | Kareem | OK |
| 73 | P5080-04 | MBHLE2 | SAM | 01/05/25 23:17 | | Kareem | OK |
| 74 | P5080-05 | MBHLE3 | SAM | 01/05/25 23:21 | | Kareem | OK |
| 75 | P5080-06 | MBHLE4 | SAM | 01/05/25 23:24 | | Kareem | OK |
| 76 | P5080-07 | MBHLE5 | SAM | 01/05/25 23:28 | Ca high | Kareem | Dilution |
| 77 | P5080-08 | MBHLE6 | SAM | 01/05/25 23:32 | | Kareem | OK |
| 78 | P5128-08 | MBHMJ7 | SAM | 01/05/25 23:36 | | Kareem | OK |
| 79 | P5128-09 | MBHMJ8 | SAM | 01/05/25 23:40 | | Kareem | OK |
| 80 | P5128-10 | MBHMJ9 | SAM | 01/05/25 23:43 | | Kareem | OK |
| 81 | P5128-11 | MBHMK0 | SAM | 01/05/25 23:47 | | Kareem | OK |
| 82 | P5128-12 | MBHMK1 | SAM | 01/05/25 23:51 | | Kareem | OK |
| 83 | P5128-13 | MBHMK2 | SAM | 01/05/25 23:55 | | Kareem | OK |
| 84 | P5128-14 | MBHMK4 | SAM | 01/05/25 23:58 | | Kareem | OK |
| 85 | P5128-15 | MBHMK5 | SAM | 01/06/25 00:02 | | Kareem | OK |
| 86 | P5128-16 | MBHMK6 | SAM | 01/06/25 00:06 | | Kareem | OK |
| 87 | P5128-17 | MBHMK7 | SAM | 01/06/25 00:10 | | Kareem | OK |

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Fax : 908 789 8922

**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134162

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/6/2025 10:45:01 AM |
| Supervise By | Mohan Bera | Supervise On | 1/6/2025 10:45:56 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | MP83726,MP83745,M5819,MP83674 |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 88 | P5128-18 | MBHMK8 | SAM | 01/06/25 00:14 | | Kareem | OK |
| 89 | P5080-07DL | MBHLE5 | SAM | 01/06/25 00:18 | 2x for Ca | Kareem | Confirms |
| 90 | PB165861BL | PBS861 | MB | 01/06/25 00:22 | | Kareem | OK |
| 91 | PB165861BS | LCS861 | LCS | 01/06/25 00:26 | | Kareem | OK |
| 92 | CCV117 | CCV117 | CCV | 01/06/25 00:30 | | Kareem | OK |
| 93 | CCB117 | CCB117 | CCB | 01/06/25 00:34 | | Kareem | OK |
| 94 | PB165842BL | PBS842 | MB | 01/06/25 00:39 | | Kareem | OK |
| 95 | PB165842BS | LCS842 | LCS | 01/06/25 00:43 | | Kareem | OK |
| 96 | PB165841BL | PBS841 | MB | 01/06/25 00:47 | | Kareem | OK |
| 97 | PB165841BS | LCS841 | LCS | 01/06/25 00:51 | | Kareem | OK |
| 98 | PB165850BL | PBS850 | MB | 01/06/25 00:55 | | Kareem | OK |
| 99 | PB165850BS | LCS850 | LCS | 01/06/25 00:59 | | Kareem | OK |
| 100 | PB165840BL | PBS840 | MB | 01/06/25 01:03 | | Kareem | OK |
| 101 | PB165840BS | LCS840 | LCS | 01/06/25 01:07 | | Kareem | OK |
| 102 | P5126-06 | MBHMA1 | SAM | 01/06/25 01:11 | | Kareem | OK |
| 103 | P5126-07 | MBHMA2 | SAM | 01/06/25 01:15 | | Kareem | OK |
| 104 | P5126-08 | MBHMA3 | SAM | 01/06/25 01:19 | | Kareem | OK |
| 105 | P5126-09 | MBHMA4 | SAM | 01/06/25 01:22 | | Kareem | OK |
| 106 | P5126-10 | MBHMA5 | SAM | 01/06/25 01:26 | | Kareem | OK |
| 107 | P5126-11 | MBHMA6 | SAM | 01/06/25 01:30 | | Kareem | OK |

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Fax : 908 789 8922

**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134162

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/6/2025 10:45:01 AM |
| Supervise By | Mohan Bera | Supervise On | 1/6/2025 10:45:56 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | MP83726,MP83745,M5819,MP83674 |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 108 | P5126-12 | MBHMA7 | SAM | 01/06/25 01:34 | | Kareem | OK |
| 109 | P5126-13 | MBHMF2 | SAM | 01/06/25 01:37 | | Kareem | OK |
| 110 | P5126-14 | MBHMF3 | SAM | 01/06/25 01:41 | | Kareem | OK |
| 111 | P5126-15 | MBHMM8 | SAM | 01/06/25 01:45 | | Kareem | OK |
| 112 | CCV118 | CCV118 | CCV | 01/06/25 01:53 | | Kareem | OK |
| 113 | CCB118 | CCB118 | CCB | 01/06/25 01:57 | | Kareem | OK |
| 114 | P5128-19 | MBHMK9 | SAM | 01/06/25 02:01 | | Kareem | OK |
| 115 | P5128-20 | MBHMK9D | DUP | 01/06/25 02:04 | | Kareem | OK |
| 116 | P5128-19L | MBHMK9L | SD | 01/06/25 02:08 | | Kareem | OK |
| 117 | P5128-21 | MBHMK9S | MS | 01/06/25 02:12 | MS fail for Se ( ppb) & Sb,Ag,Tl (Below RL) | Kareem | OK |
| 118 | P5122-12 | MBHMC9 | SAM | 01/06/25 02:16 | | Kareem | OK |
| 119 | P5122-13 | MBHMC9D | DUP | 01/06/25 02:20 | | Kareem | OK |
| 120 | P5122-12L | MBHMC9L | SD | 01/06/25 02:23 | | Kareem | OK |
| 121 | P5122-14 | MBHMC9S | MS | 01/06/25 02:27 | MS fail for Ag,Tl (Below RL) | Kareem | OK |
| 122 | P5124-19 | MBHM88 | SAM | 01/06/25 02:31 | | Kareem | OK |
| 123 | P5124-20 | MBHM88D | DUP | 01/06/25 02:35 | | Kareem | OK |
| 124 | P5124-19L | MBHM88L | SD | 01/06/25 02:39 | | Kareem | OK |
| 125 | P5124-21 | MBHM88S | MS | 01/06/25 02:43 | MS fail for Mn ( ppb), Se ( ppb), Zn ( ppb) & Ag,Tl (Below RL) | Kareem | OK |
| 126 | P5129-01 | MBHMK3 | SAM | 01/06/25 02:46 | | Kareem | OK |

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Fax : 908 789 8922

**Instrument ID:** P5

## Daily Analysis Runlog For Sequence/QCBatch ID # LB134162

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 1/6/2025 10:45:01 AM |
| Supervise By | Mohan Bera | Supervise On | 1/6/2025 10:45:56 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83500,MP83507,MP83505,MP83504,MP83503,MP83502,MP83501 |
| ICV Standard | MP83508 |
| CCV Standard | MP83511 |
| ICSA Standard | MP83509,MP83510 |
| CRI Standard | MP83726,MP83745,M5819,MP83674 |
| LCS Standard | |
| Chk Standard | MP83513,MP83514 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 127 | P5129-02 | MBHMK3D | DUP | 01/06/25 02:50 | | Kareem | OK |
| 128 | P5129-01L | MBHMK3L | SD | 01/06/25 02:54 | | Kareem | OK |
| 129 | P5129-03 | MBHMK3S | MS | 01/06/25 02:58 | MS fail for Cu ( ppb), Se ( ppb), Zn ( ppb) & Sb,Ag,Tl (Below RL) | Kareem | OK |
| 130 | CCV119 | CCV119 | CCV | 01/06/25 03:02 | | Kareem | OK |
| 131 | CCB119 | CCB119 | CCB | 01/06/25 03:05 | | Kareem | OK |

ORIGIN ID:BUFA (716) 853-1220
EMMANUEL GARCIAVILLAR
WSP USA INC.
50 LAKEFRONT BLVD

BUFFALO, NY 14202
UNITED STATES US

SHIP DATE: 02DEC24
ACTWGT: 40.00 LB
CAD: 108450087/INET4760
DIMS: 19x14x12 IN

BILL SENDER

TO **MOHAMMAD AHMED**
**ALLIANCE TECHNICAL GROUP LLC**
**284 SHEFFIELD STREET**

**MOUNTAINSIDE NJ 07092**
(908) 789-8900 REF: US000650
INV: 03.02.02.EXP
PO: 31800192.009A DEPT: EMMANUEL GARCIA

58CJ4/EB7B/C6C4

FedEx Express

FedEx
MPS# 0263 7704 1901 2650

TUE – 03 DEC A
PRIORITY OVERNIGHT

NF KBCA

12/3/24
0950
2-1°C

07092
NJ – US EWR

EXP 10/25

#6372226 12/02 58CJ4/EB7B/C6C4

Alliance TECHNICAL GROUP 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

# Login Summary Report

| | | | | | |
|---|---|---|---|---|---|
| Order ID : | P5055 | Order Date : | 12/3/2024 9:50:00 AM | Project Mgr : | Deepak |
| Client : | USEPA CLP SMO | Project : | 51879 | Report Type : | USEPA CLP |
| Contact : | Anita Kapadia | Receive Date : | 12/3/2024 9:50:00 AM | EDD Type : | EPA CLP |
| Date Sign Off : | 12/3/2024 2:40:38 PM | | | | |

| Sample ID | Client ID | Matrix | Sampling Date | Test | Test Group | Method | TAT Days | Fax Due Date | HC Due Date |
|---|---|---|---|---|---|---|---|---|---|
| P5055-01 | MBHKS4 | Solid | 11/21/2024 | | | | | | |
| | | | | Metals CLP Full | | SFAM_AES | 15 | 01/07/2025 | 01/07/2025 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/07/2025 | 01/07/2025 |
| P5055-02 | MBHKS5 | Solid | 11/21/2024 | | | | | | |
| | | | | Metals CLP Full | | SFAM_AES | 15 | 01/07/2025 | 01/07/2025 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/07/2025 | 01/07/2025 |
| P5055-03 | MBHKS6 | Solid | 11/21/2024 | | | | | | |
| | | | | Metals CLP Full | | SFAM_AES | 15 | 01/07/2025 | 01/07/2025 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/07/2025 | 01/07/2025 |
| P5055-04 | MBHKS7 | Solid | 11/21/2024 | | | | | | |
| | | | | Metals CLP Full | | SFAM_AES | 15 | 01/07/2025 | 01/07/2025 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/07/2025 | 01/07/2025 |
| P5055-05 | MBHKS8 | Solid | 11/21/2024 | | | | | | |
| | | | | Metals CLP Full | | SFAM_AES | 15 | 01/07/2025 | 01/07/2025 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/07/2025 | 01/07/2025 |
| P5055-06 | MBHKS9 | Solid | 11/21/2024 | | | | | | |
| | | | | Metals CLP Full | | SFAM_AES | 15 | 01/07/2025 | 01/07/2025 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/07/2025 | 01/07/2025 |
| P5055-07 | MBHKT0 | Solid | 11/21/2024 | | | | | | |
| | | | | Metals CLP Full | | SFAM_AES | 15 | 01/07/2025 | 01/07/2025 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/07/2025 | 01/07/2025 |
| P5055-08 | MBHKT1 | Solid | 11/21/2024 | | | | | | |
| | | | | Metals CLP Full | | SFAM_AES | 15 | 01/07/2025 | 01/07/2025 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/07/2025 | 01/07/2025 |
| P5055-09 | MBHKT2 | Solid | 11/21/2024 | | | | | | |
| | | | | Metals CLP Full | | SFAM_AES | 15 | 01/07/2025 | 01/07/2025 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/07/2025 | 01/07/2025 |
| P5055-10 | MBHKT3 | Solid | 11/21/2024 | | | | | | |
| | | | | Metals CLP Full | | SFAM_AES | 15 | 01/07/2025 | 01/07/2025 |
| | | | | Percent Solids | | Chemtech -SOP | 15 | 01/07/2025 | 01/07/2025 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| P5055-11 | MBHKT3D | Solid | 11/21/2024 | | | | | |
| | | | | Metals CLP Full | SFAM_AES | 15 | 01/07/2025 | 01/07/2025 |
| | | | | Percent Solids | Chemtech -SOP | 15 | 01/07/2025 | 01/07/2025 |
| P5055-12 | MBHKT3S | Solid | 11/21/2024 | | | | | |
| | | | | Metals CLP Full | SFAM_AES | 15 | 01/07/2025 | 01/07/2025 |
| | | | | Percent Solids | Chemtech -SOP | 15 | 01/07/2025 | 01/07/2025 |
| P5055-13 | MBHKT4 | Solid | 11/21/2024 | | | | | |
| | | | | Metals CLP Full | SFAM_AES | 15 | 01/07/2025 | 01/07/2025 |
| | | | | Percent Solids | Chemtech -SOP | 15 | 01/07/2025 | 01/07/2025 |
| P5055-14 | MBHKT5 | Solid | 11/21/2024 | | | | | |
| | | | | Metals CLP Full | SFAM_AES | 15 | 01/07/2025 | 01/07/2025 |
| | | | | Percent Solids | Chemtech -SOP | 15 | 01/07/2025 | 01/07/2025 |
| P5055-15 | MBHKT6 | Solid | 11/21/2024 | | | | | |
| | | | | Metals CLP Full | SFAM_AES | 15 | 01/07/2025 | 01/07/2025 |
| | | | | Percent Solids | Chemtech -SOP | 15 | 01/07/2025 | 01/07/2025 |
| P5055-16 | MBHKT7 | Solid | 11/21/2024 | | | | | |
| | | | | Metals CLP Full | SFAM_AES | 15 | 01/07/2025 | 01/07/2025 |
| | | | | Percent Solids | Chemtech -SOP | 15 | 01/07/2025 | 01/07/2025 |
| P5055-17 | MBHKW5 | Solid | 11/21/2024 | | | | | |
| | | | | Metals CLP Full | SFAM_AES | 15 | 01/07/2025 | 01/07/2025 |
| | | | | Percent Solids | Chemtech -SOP | 15 | 01/07/2025 | 01/07/2025 |
| P5055-18 | MBHKW6 | Solid | 11/21/2024 | | | | | |
| | | | | Metals CLP Full | SFAM_AES | 15 | 01/07/2025 | 01/07/2025 |
| | | | | Percent Solids | Chemtech -SOP | 15 | 01/07/2025 | 01/07/2025 |
| P5055-19 | MBHKW7 | Solid | 11/21/2024 | | | | | |
| | | | | Metals CLP Full | SFAM_AES | 15 | 01/07/2025 | 01/07/2025 |
| | | | | Percent Solids | Chemtech -SOP | 15 | 01/07/2025 | 01/07/2025 |
| P5055-20 | MBHKW8 | Solid | 11/21/2024 | | | | | |
| | | | | Metals CLP Full | SFAM_AES | 15 | 01/07/2025 | 01/07/2025 |
| | | | | Percent Solids | Chemtech -SOP | 15 | 01/07/2025 | 01/07/2025 |
| P5055-21 | MBHKW9 | Solid | 11/21/2024 | | | | | |
| | | | | Metals CLP Full | SFAM_AES | 15 | 01/07/2025 | 01/07/2025 |
| | | | | Percent Solids | Chemtech -SOP | 15 | 01/07/2025 | 01/07/2025 |
| P5055-22 | MBHKX0 | Solid | 11/21/2024 | | | | | |
| | | | | Metals CLP Full | SFAM_AES | 15 | 01/07/2025 | 01/07/2025 |
| | | | | Percent Solids | Chemtech -SOP | 15 | 01/07/2025 | 01/07/2025 |

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** PB165466 **WorkList ID :** 186117 **Department :** Digestion **Date :** 12-09-2024 08:30:34

1004

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P5055-01 | MBHKS4 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | SFAM_AES |
| P5055-02 | MBHKS5 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | SFAM_AES |
| P5055-03 | MBHKS6 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | SFAM_AES |
| P5055-04 | MBHKS7 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | SFAM_AES |
| P5055-05 | MBHKS8 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | SFAM_AES |
| P5055-06 | MBHKS9 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | SFAM_AES |
| P5055-07 | MBHKT0 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | SFAM_AES |
| P5055-08 | MBHKT1 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | SFAM_AES |
| P5055-09 | MBHKT2 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | SFAM_AES |
| P5055-10 | MBHKT3 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | SFAM_AES |
| P5055-11 | MBHKT3D | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | SFAM_AES |
| P5055-12 | MBHKT3S | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | SFAM_AES |
| P5055-13 | MBHKT4 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | SFAM_AES |
| P5055-14 | MBHKT5 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | SFAM_AES |
| P5055-15 | MBHKT6 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | SFAM_AES |
| P5055-16 | MBHKT7 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | SFAM_AES |
| P5055-17 | MBHKW5 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | SFAM_AES |
| P5055-18 | MBHKW6 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | SFAM_AES |
| P5055-19 | MBHKW7 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | SFAM_AES |
| P5055-20 | MBHKW8 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | SFAM_AES |
| P5055-21 | MBHKW9 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | SFAM_AES |

**Date/Time** 12/09/24 8:50

**Raw Sample Received by:** JBP (Metdi)

**Raw Sample Relinquished by:** CP SM

**Date/Time** 12/09/24 9:55

**Raw Sample Received by:** CP SM

**Raw Sample Relinquished by:** JBP Metdi

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** PB165466 **WorkList ID :** 186117 **Department :** Digestion **Date :** 12-09-2024 08:30:31

1005

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P5055-22 | MBHKX0 | Solid | Metals CLP Full | Cool 4 deg C | USEP01 | C11 | 11/21/2024 | SFAM_AES |

**Date/Time** 12/09/24 8:50

**Raw Sample Received by:** JSP (Met div)

**Raw Sample Relinquished by:** CA Sm



**Date/Time** 12/09/24 9:55

**Raw Sample Received by:** CA Sm

**Raw Sample Relinquished by:** JSP (Met div)