284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# DATA PACKAGE

## METALS

**PROJECT NAME : USACE018-44 DOD**

**FIRST ENVIRONMENT, INC.**

**10 Park Place, Bldg 1A, Suite 504**

**Butler, NJ - 07405**

**Phone No: 973-334-0003**

**ORDER ID : Q2814**

**ATTENTION : Al Smith**

**Laboratory Certification ID # 20012**

Table Of Contents for Q2814


1) METALS DATA 2
2) Signature Page 4
3) Case Narrative 5
4) Qualifier Page 7
5) Conformance/Non Conformance 8
6) QA Checklist 10
7) Chronicle 11
8) Hit Summary 12
9) Sample Data 14
- 9.1) TW-84SB-E 15
- 9.2) TW-17M-W 16
- 9.3) FB 17
- 9.4) TW-518R-S 18
- 9.5) TW-84SB-E 19
- 9.6) TW-17M-W 20

10) METALS CALIBRATION DATA 21
- 10.1) Initial and Continuing Calibration Verification 22
- 10.2) CRDL Standard For AA & ICP 44
- 10.3) Initial and Continuing Calibration Blank Summary 46
- 10.4) Preparation Blank Summary 63
- 10.5) Interference Check Sample 65

11) METALS QC DATA 69
- 11.1) Matrix Spike Summary 70
- 11.2) Post Digest Spike Summary 76
- 11.3) Duplicate Sample Summary 77
- 11.4) Laboratory Control Sample Summary 83
- 11.5) ICP Serial Dilutions 86

12) METALS PREPARATION & INSTRUMENT DATA 89
- 12.1) ICP Interelement Correction Factors 90

13) PREPARATION & ANALYTICAL SUMMARY 95
- 13.1) Sample Preparation Summary 96
- 13.2) Analysis Run Log 99

14) METALS RAW DATA 104
- 14.1) METALS RAW DATA - ANALYTICAL 105
- 14.2) LB136837 105

14.3) LB136898 289
14.4) LB136917 441
14.5) LB136788 601
14.6) LB136836 603
14.7) METALS RAW DATA - PREP 605
14.7.1) PB169232 605
14.7.2) PB169202 608
14.7.3) PB169249 611
15) Analytical Runlogs 614
16) Standard Prep Logs 631
17) Shipping Document 812
17.1) Chain Of Custody 813
17.2) ROC 815
17.3) Lab Certificate 818
17.4) Internal COC 819

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Cover Page

**Order ID :** Q2814

**Project ID :** USACE018-44 DOD

**Client :** First Environment, Inc.

| Lab Sample Number | Client Sample Number |
|---|---|
| Q2814-01 | TW-84SB-E |
| Q2814-02 | TW-17M-N |
| Q2814-03 | TW-17M-W |
| Q2814-04 | TW-82H-N |
| Q2814-05 | TW-82H-E |
| Q2814-06 | TW-82H-S |
| Q2814-07 | TW-82H-W |
| Q2814-08 | TW-38M-E |
| Q2814-09 | TW-38M-W |
| Q2814-10 | TW-38M-N |
| Q2814-11 | TW-38M-S |
| Q2814-12 | TW-BP-S |
| Q2814-13 | TW-BP-N |
| Q2814-14 | TW-BP-E |
| Q2814-15 | TW-BP-W |
| Q2814-16 | FB |
| Q2814-17 | TW-518R-S |
| Q2814-18 | TW-518R-N |
| Q2814-19 | TW-518R-E |
| Q2814-20 | TW-518R-W |
| Q2814-21 | TB |
| Q2814-22 | TW-84SB-E |
| Q2814-23 | TW-17M-W |

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 manager or his designee, as verified by the following signature.

Signature : **APPROVED**
*By Nimisha Pandya, QA/QC Supervisor at 3:04 pm, Aug 22, 2025*

Date: 8/22/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

# CASE NARRATIVE

**First Environment, Inc.**
**Project Name: USACE018-44 DOD**
**Project # N/A**
**Order ID # Q2814**
**Test Name: Dissolved ICP-TAL Metals,Dissolved Mercury,Mercury,Metals ICP-TAL**

**A. Number of Samples and Date of Receipt:**
23 Water samples were received on 08/08/2025.

**B. Parameters:**
According to the Chain of Custody document, the following analyses were requested: Dissolved ICP-TAL Metals, Dissolved Mercury, DISSOLVED METALS-TAL, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20 and VOC-TCLVOA-10. This data package contains results for Dissolved ICP-TAL Metals,Dissolved Mercury,Mercury,Metals ICP-TAL.

**C. Analytical Techniques:**
The analysis of Dissolved ICP-TAL Metals,Metals ICP-TAL was based on method 6010D, digestion based on method 3010 (waters). The analysis and digestion of Dissolved Mercury,Mercury was based on method 7470A.

**D. QA/ QC Samples:**
The Holding Times were met for all analysis.
The Blank Spike met requirements for all compounds.
The Duplicate analysis met criteria for all compounds.
The Matrix Spike (TW-WTS-13MS) analysis met criteria for all compounds except for Barium, Beryllium and Zinc due to Chemical interference during Digestion Process.
The Matrix Spike Duplicate (TW-WTS-13MSD) analysis met criteria for all compounds except for Antimony, Beryllium and Zinc due to Chemical interference during Digestion Process.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met criteria for all compounds.

**E. Additional Comments:**
The Post Digest Spike (TW-WTS-13A) analysis met criteria for all compounds except for Barium, Beryllium and Zinc due to unknown chemical interference of matrix with the addition of spike amount after digestion and before analysis; matrix has suppression effect during addition of spike.
Sample Q2814-17 had oily matrix, so to avoid damage to instrument sample is run with straight 5X dilution.

Sample Q2814-01, Q2814-03, Q2814-16, Q2814-17 analyzed as Total Metal and Sample Q2814-22, Q2814-23 analyzed as Dissolved Metal.

---

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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature___ **APPROVED**

*By Nimisha Pandya, QA/QC Supervisor at 3:05 pm, Aug 22, 2025*

284 Sheffield Street, Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

# DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

| | |
|---|---|
| **J** | Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL). |
| **U** | Indicates the analyte was analyzed for, but not detected. |
| **ND** | Indicates the analyte was analyzed for, but not detected |
| **E** | Indicates the reported value is estimated because of the presence of interference |
| **M** | Indicates Duplicate injection precision not met. |
| **N** | Indicates the spiked sample recovery is not within control limits. |
| **S** | Indicates the reported value was determined by the Method of Standard Addition (MSA). |
| * | Indicates that the duplicate analysis is not within control limits. |
| + | Indicates the correlation coefficient for the MSA is less than 0.995. |
| **D** | Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range. |
| **M** | Method qualifiers<br>**"P"** for ICP instrument<br>**"PM"** for ICP when Microwave Digestion is used<br>**"CV"** for Manual Cold Vapor AA<br>**"AV"** for automated Cold Vapor AA<br>**"CA"** for MIDI-Distillation Spectrophotometric<br>**"AS"** for Semi –Automated Spectrophotometric<br>**"C"** for Manual Spectrophotometric<br>**"T"** for Titrimetric<br>**"NR"** for analyte not required to be analyzed |
| **OR** | Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis. |
| **Q** | Indicates the LCS did not meet the control limits requirements |
| H | Sample Analysis Out Of Hold Time |

## METALS CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q2814 MATRIX: Water

METHOD: 6010D,7470A

| | | NA | NO | YES |
|---|---|---|---|---|
| 1. | Calibration Summary met criteria. | | | ✓ |
| 2. | ICP Interference Check Sample Results Summary Submitted. | | | ✓ |
| 3. | Serial Dilution Summary (if applicable) Submitted. | | | ✓ |
| | The Serial Dilution met criteria for all compounds. | | | |
| 4. | Laboratory Control Sample Summary (if applicable) Submitted. | | | ✓ |
| 5. | Blank Contamination - If yes, list compounds and concentrations in each blank: | | ✓ | |
| 6. | Matrix Spike/Matrix Spike Duplicate Recoveries Met Criteria | | ✓ | |
| | If not met, list those compounds and their recoveries which fall outside the acceptable range. | | | |
| | The Matrix Spike (TW-WTS-13MS) analysis met criteria for all compounds except for Barium, Beryllium and Zinc due to Chemical interference during Digestion Process. The Matrix Spike Duplicate (TW-WTS-13MSD) analysis met criteria for all compounds except for Antimony, Beryllium and Zinc due to Chemical interference during Digestion Process. | | | |
| 7. | Sample Duplicate Analysis Met QC Criteria | | | ✓ |
| | If not met, list those compounds and their recoveries which fall outside the acceptable range. | | | |
| 8. | Digestion Holding Time Met | | | ✓ |
| | If not met, list number of days exceeded for each sample: | | | |
| 9. | Analysis Holding Time Met | | | ✓ |
| | If not met, list those compounds and their recoveries which fall outside the acceptable range. | | | |

## METALS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

NA NO YES

ADDITIONAL COMMENTS:

The Post Digest Spike (TW-WTS-13A) analysis met criteria for all compounds except for Barium, Beryllium and Zinc due to unknown chemical interference of matrix with the addition of spike amount after digestion and before analysis; matrix has suppression effect during addition of spike.

Sample Q2814-17 had oily matrix, so to avoid damage to instrument sample is run with straight 5X dilution.

Sample Q2814-01, Q2814-03, Q2814-16, Q2814-17 analyzed as Total Metal and Sample Q2814-22, Q2814-23 analyzed as Dissolved Metal.

QA REVIEW

REVIEWED
Sohil Jodhani, QA/QC Director , 8/22/2025, 2:58:54 PM

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## APPENDIX A

## QA REVIEW GENERAL DOCUMENTATION

**Project #:** Q2814

| | Completed |
|---|---|
| **For thorough review, the report must have the following:** | |
| **GENERAL:** | |
| **Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)** | ✓ |
| **Check chain-of-custody for proper relinquish/return of samples** | ✓ |
| **Is the chain of custody signed and complete** | ✓ |
| **Check internal chain-of-custody for proper relinquish/return of samples /sample extracts** | ✓ |
| **Collect information for each project id from server. Were all requirements followed** | ✓ |
| **COVER PAGE:** | |
| **Do numbers of samples correspond to the number of samples in the Chain of Custody on login page** | ✓ |
| **Do lab numbers and client Ids on cover page agree with the Chain of Custody** | ✓ |
| **CHAIN OF CUSTODY:** | |
| **Do requested analyses on Chain of Custody agree with form I results** | ✓ |
| **Do requested analyses on Chain of Custody agree with the log-in page** | ✓ |
| **Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody** | ✓ |
| **Were the samples received within hold time** | ✓ |
| **Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle** | ✓ |
| **ANALYTICAL:** | |
| **Was method requirement followed?** | ✓ |
| **Was client requirement followed?** | ✓ |
| **Does the case narrative summarize all QC failure?** | ✓ |
| **All runlogs and manual integration are reviewed for requirements** | ✓ |
| **All manual calculations and /or hand notations verified** | ✓ |

**QA Review Signature:** MAYUR DESAI **Date:** 08/22/2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q2814 | **OrderDate:** | 8/11/2025 10:31:02 AM |
| **Client:** | First Environment, Inc. | **Project:** | USACE018-44 DOD |
| **Contact:** | Al Smith | **Location:** | D31,D41,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q2814-01** | **TW-84SB-E** | **Water** | | | **08/05/25** | | | **08/08/25** |
| | | | Mercury | 7470A | | 08/12/25 | 08/12/25 | |
| | | | Metals ICP-TAL | 6010D | | 08/13/25 | 08/14/25 | |
| **Q2814-03** | **TW-17M-W** | **Water** | | | **08/05/25** | | | **08/08/25** |
| | | | Mercury | 7470A | | 08/12/25 | 08/12/25 | |
| | | | Metals ICP-TAL | 6010D | | 08/13/25 | 08/14/25 | |
| **Q2814-16** | **FB** | **Water** | | | **08/04/25** | | | **08/08/25** |
| | | | Mercury | 7470A | | 08/12/25 | 08/12/25 | |
| | | | Metals ICP-TAL | 6010D | | 08/13/25 | 08/14/25 | |
| **Q2814-17** | **TW-518R-S** | **Water** | | | **08/05/25** | | | **08/08/25** |
| | | | Mercury | 7470A | | 08/12/25 | 08/12/25 | |
| | | | Metals ICP-TAL | 6010D | | 08/13/25 | 08/14/25 | |
| **Q2814-22** | **TW-84SB-E** | **Water** | | | **08/05/25** | | | **08/08/25** |
| | | | Dissolved ICP-TAL Metals | 6010D | | 08/13/25 | 08/20/25 | |
| | | | Dissolved Mercury | 7470A | | 08/14/25 | 08/15/25 | |
| **Q2814-23** | **TW-17M-W** | **Water** | | | **08/05/25** | | | **08/08/25** |
| | | | Dissolved ICP-TAL Metals | 6010D | | 08/13/25 | 08/21/25 | |
| | | | Dissolved Mercury | 7470A | | 08/14/25 | 08/15/25 | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Hit Summary Sheet
**SW-846**

**SDG No.:** Q2814 **Order ID:** Q2814

**Client:** First Environment, Inc. **Project ID:** USACE018-44 DOD

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | LOD | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| **Client ID : TW-84SB-E** | | | | | | | | | |
| Q2814-01 | TW-84SB-E | Water | Aluminum | 461 | | 5.67 | 40.0 | 50.0 | ug/L |
| Q2814-01 | TW-84SB-E | Water | Barium | 31.3 | J | 7.28 | 12.5 | 50.0 | ug/L |
| Q2814-01 | TW-84SB-E | Water | Calcium | 20500 | | 117 | 250 | 1000 | ug/L |
| Q2814-01 | TW-84SB-E | Water | Chromium | 1.87 | J | 1.06 | 2.50 | 5.00 | ug/L |
| Q2814-01 | TW-84SB-E | Water | Copper | 3.36 | J | 2.30 | 8.00 | 10.0 | ug/L |
| Q2814-01 | TW-84SB-E | Water | Iron | 1040 | | 11.7 | 40.0 | 50.0 | ug/L |
| Q2814-01 | TW-84SB-E | Water | Lead | 3.82 | J | 1.15 | 4.80 | 6.00 | ug/L |
| Q2814-01 | TW-84SB-E | Water | Magnesium | 11500 | | 122 | 250 | 1000 | ug/L |
| Q2814-01 | TW-84SB-E | Water | Manganese | 19.4 | | 2.97 | 7.50 | 10.0 | ug/L |
| Q2814-01 | TW-84SB-E | Water | Potassium | 13600 | | 459 | 800 | 1000 | ug/L |
| Q2814-01 | TW-84SB-E | Water | Sodium | 65600 | | 434 | 500 | 1000 | ug/L |
| Q2814-01 | TW-84SB-E | Water | Zinc | 16.4 | J | 8.33 | 7.50 | 20.0 | ug/L |
| **Client ID : TW-17M-W** | | | | | | | | | |
| Q2814-03 | TW-17M-W | Water | Aluminum | 2750 | | 5.67 | 40.0 | 50.0 | ug/L |
| Q2814-03 | TW-17M-W | Water | Arsenic | 6.27 | J | 2.56 | 7.50 | 10.0 | ug/L |
| Q2814-03 | TW-17M-W | Water | Barium | 18.6 | J | 7.28 | 12.5 | 50.0 | ug/L |
| Q2814-03 | TW-17M-W | Water | Calcium | 18400 | | 117 | 250 | 1000 | ug/L |
| Q2814-03 | TW-17M-W | Water | Chromium | 4.23 | J | 1.06 | 2.50 | 5.00 | ug/L |
| Q2814-03 | TW-17M-W | Water | Copper | 7.20 | J | 2.30 | 8.00 | 10.0 | ug/L |
| Q2814-03 | TW-17M-W | Water | Iron | 1770 | | 11.7 | 40.0 | 50.0 | ug/L |
| Q2814-03 | TW-17M-W | Water | Lead | 20.9 | | 1.15 | 4.80 | 6.00 | ug/L |
| Q2814-03 | TW-17M-W | Water | Magnesium | 6810 | | 122 | 250 | 1000 | ug/L |
| Q2814-03 | TW-17M-W | Water | Manganese | 102 | | 2.97 | 7.50 | 10.0 | ug/L |
| Q2814-03 | TW-17M-W | Water | Mercury | 0.14 | J | 0.076 | 0.16 | 0.20 | ug/L |
| Q2814-03 | TW-17M-W | Water | Nickel | 1.74 | J | 1.53 | 5.00 | 20.0 | ug/L |
| Q2814-03 | TW-17M-W | Water | Potassium | 4990 | | 459 | 800 | 1000 | ug/L |
| Q2814-03 | TW-17M-W | Water | Sodium | 43400 | | 434 | 500 | 1000 | ug/L |
| Q2814-03 | TW-17M-W | Water | Vanadium | 8.02 | J | 3.13 | 10.0 | 20.0 | ug/L |
| Q2814-03 | TW-17M-W | Water | Zinc | 39.8 | | 8.33 | 7.50 | 20.0 | ug/L |
| **Client ID : TW-518R-S** | | | | | | | | | |
| Q2814-17 | TW-518R-S | Water | Aluminum | 233000 | D | 28.4 | 200 | 250 | ug/L |
| Q2814-17 | TW-518R-S | Water | Arsenic | 304 | D | 12.8 | 37.5 | 50.0 | ug/L |
| Q2814-17 | TW-518R-S | Water | Barium | 890 | D | 36.4 | 62.5 | 250 | ug/L |
| Q2814-17 | TW-518R-S | Water | Beryllium | 15.9 | D | 1.40 | 3.75 | 15.0 | ug/L |
| Q2814-17 | TW-518R-S | Water | Cadmium | 43.3 | D | 1.25 | 3.75 | 15.0 | ug/L |
| Q2814-17 | TW-518R-S | Water | Calcium | 50900 | D | 585 | 1250 | 5000 | ug/L |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Hit Summary Sheet
**SW-846**

**SDG No.:** Q2814 **Order ID:** Q2814

**Client:** First Environment, Inc. **Project ID:** USACE018-44 DOD

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | LOD | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| Q2814-17 | TW-518R-S | Water | Chromium | 476 | D | 5.30 | 12.5 | 25.0 | ug/L |
| Q2814-17 | TW-518R-S | Water | Cobalt | 152 | D | 5.65 | 18.8 | 75.0 | ug/L |
| Q2814-17 | TW-518R-S | Water | Copper | 1300 | D | 11.5 | 40.0 | 50.0 | ug/L |
| Q2814-17 | TW-518R-S | Water | Iron | 339000 | D | 58.5 | 200 | 250 | ug/L |
| Q2814-17 | TW-518R-S | Water | Lead | 892 | D | 5.75 | 24.0 | 30.0 | ug/L |
| Q2814-17 | TW-518R-S | Water | Magnesium | 56700 | D | 610 | 1250 | 5000 | ug/L |
| Q2814-17 | TW-518R-S | Water | Manganese | 1190 | D | 14.9 | 37.5 | 50.0 | ug/L |
| Q2814-17 | TW-518R-S | Water | Mercury | 0.28 | | 0.076 | 0.16 | 0.20 | ug/L |
| Q2814-17 | TW-518R-S | Water | Nickel | 288 | D | 7.65 | 25.0 | 100 | ug/L |
| Q2814-17 | TW-518R-S | Water | Potassium | 46100 | D | 2300 | 4000 | 5000 | ug/L |
| Q2814-17 | TW-518R-S | Water | Silver | 23.1 | JD | 4.05 | 12.5 | 25.0 | ug/L |
| Q2814-17 | TW-518R-S | Water | Sodium | 373000 | D | 2170 | 2500 | 5000 | ug/L |
| Q2814-17 | TW-518R-S | Water | Vanadium | 552 | D | 15.7 | 50.0 | 100 | ug/L |
| Q2814-17 | TW-518R-S | Water | Zinc | 3920 | D | 41.7 | 37.5 | 100 | ug/L |
| **Client ID :** | **TW-84SB-E** | | | | | | | | |
| Q2814-22 | TW-84SB-E | Water | Aluminum | 19.9 | J | 5.67 | 40.0 | 50.0 | ug/L |
| Q2814-22 | TW-84SB-E | Water | Barium | 27.5 | J | 7.28 | 12.5 | 50.0 | ug/L |
| Q2814-22 | TW-84SB-E | Water | Calcium | 20700 | | 117 | 250 | 1000 | ug/L |
| Q2814-22 | TW-84SB-E | Water | Copper | 5.24 | J | 2.30 | 8.00 | 10.0 | ug/L |
| Q2814-22 | TW-84SB-E | Water | Iron | 17.5 | J | 11.7 | 40.0 | 50.0 | ug/L |
| Q2814-22 | TW-84SB-E | Water | Magnesium | 11800 | | 122 | 250 | 1000 | ug/L |
| Q2814-22 | TW-84SB-E | Water | Manganese | 4.05 | J | 2.97 | 7.50 | 10.0 | ug/L |
| Q2814-22 | TW-84SB-E | Water | Potassium | 12600 | | 459 | 800 | 1000 | ug/L |
| Q2814-22 | TW-84SB-E | Water | Sodium | 65400 | | 434 | 500 | 1000 | ug/L |
| Q2814-22 | TW-84SB-E | Water | Zinc | 11.9 | J | 8.33 | 7.50 | 20.0 | ug/L |
| **Client ID :** | **TW-17M-W** | | | | | | | | |
| Q2814-23 | TW-17M-W | Water | Aluminum | 274 | | 5.67 | 40.0 | 50.0 | ug/L |
| Q2814-23 | TW-17M-W | Water | Calcium | 18400 | | 117 | 250 | 1000 | ug/L |
| Q2814-23 | TW-17M-W | Water | Copper | 52.2 | | 2.30 | 8.00 | 10.0 | ug/L |
| Q2814-23 | TW-17M-W | Water | Iron | 53.7 | | 11.7 | 40.0 | 50.0 | ug/L |
| Q2814-23 | TW-17M-W | Water | Lead | 4.30 | J | 1.15 | 4.80 | 6.00 | ug/L |
| Q2814-23 | TW-17M-W | Water | Magnesium | 6790 | | 122 | 250 | 1000 | ug/L |
| Q2814-23 | TW-17M-W | Water | Manganese | 8.68 | J | 2.97 | 7.50 | 10.0 | ug/L |
| Q2814-23 | TW-17M-W | Water | Potassium | 4370 | | 459 | 800 | 1000 | ug/L |
| Q2814-23 | TW-17M-W | Water | Sodium | 43000 | | 434 | 500 | 1000 | ug/L |
| Q2814-23 | TW-17M-W | Water | Zinc | 11.9 | J | 8.33 | 7.50 | 20.0 | ug/L |

# SAMPLE DATA

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | TW-84SB-E | SDG No.: | Q2814 |
| Lab Sample ID: | Q2814-01 | Matrix: | Water |
| Level (low/med): | low | % Solid: | 0 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 461 | | 1 | 5.67 | 40.0 | 50.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:02 | 6010D | SW3010 |
| 7440-36-0 | Antimony | 6.25 | UN | 1 | 3.38 | 6.25 | 25.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:02 | 6010D | SW3010 |
| 7440-38-2 | Arsenic | 7.50 | U | 1 | 2.56 | 7.50 | 10.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:02 | 6010D | SW3010 |
| 7440-39-3 | Barium | 31.3 | JN | 1 | 7.28 | 12.5 | 50.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:02 | 6010D | SW3010 |
| 7440-41-7 | Beryllium | 0.75 | UN | 1 | 0.28 | 0.75 | 3.00 | ug/L | 08/13/25 10:30 | 08/14/25 15:02 | 6010D | SW3010 |
| 7440-43-9 | Cadmium | 0.75 | U | 1 | 0.25 | 0.75 | 3.00 | ug/L | 08/13/25 10:30 | 08/14/25 15:02 | 6010D | SW3010 |
| 7440-70-2 | Calcium | 20500 | | 1 | 117 | 250 | 1000 | ug/L | 08/13/25 10:30 | 08/14/25 15:02 | 6010D | SW3010 |
| 7440-47-3 | Chromium | 1.87 | J | 1 | 1.06 | 2.50 | 5.00 | ug/L | 08/13/25 10:30 | 08/14/25 15:02 | 6010D | SW3010 |
| 7440-48-4 | Cobalt | 3.75 | U | 1 | 1.13 | 3.75 | 15.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:02 | 6010D | SW3010 |
| 7440-50-8 | Copper | 3.36 | J | 1 | 2.30 | 8.00 | 10.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:02 | 6010D | SW3010 |
| 7439-89-6 | Iron | 1040 | | 1 | 11.7 | 40.0 | 50.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:02 | 6010D | SW3010 |
| 7439-92-1 | Lead | 3.82 | J | 1 | 1.15 | 4.80 | 6.00 | ug/L | 08/13/25 10:30 | 08/14/25 15:02 | 6010D | SW3010 |
| 7439-95-4 | Magnesium | 11500 | | 1 | 122 | 250 | 1000 | ug/L | 08/13/25 10:30 | 08/14/25 15:02 | 6010D | SW3010 |
| 7439-96-5 | Manganese | 19.4 | | 1 | 2.97 | 7.50 | 10.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:02 | 6010D | SW3010 |
| 7439-97-6 | Mercury | 0.16 | U | 1 | 0.076 | 0.16 | 0.20 | ug/L | 08/12/25 11:30 | 08/12/25 14:50 | 7470A | |
| 7440-02-0 | Nickel | 5.00 | U | 1 | 1.53 | 5.00 | 20.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:02 | 6010D | SW3010 |
| 7440-09-7 | Potassium | 13600 | | 1 | 459 | 800 | 1000 | ug/L | 08/13/25 10:30 | 08/14/25 15:02 | 6010D | SW3010 |
| 7782-49-2 | Selenium | 8.00 | U | 1 | 4.82 | 8.00 | 10.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:02 | 6010D | SW3010 |
| 7440-22-4 | Silver | 2.50 | U | 1 | 0.81 | 2.50 | 5.00 | ug/L | 08/13/25 10:30 | 08/14/25 15:02 | 6010D | SW3010 |
| 7440-23-5 | Sodium | 65600 | | 1 | 434 | 500 | 1000 | ug/L | 08/13/25 10:30 | 08/14/25 15:02 | 6010D | SW3010 |
| 7440-28-0 | Thallium | 10.0 | U | 1 | 2.19 | 10.0 | 20.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:02 | 6010D | SW3010 |
| 7440-62-2 | Vanadium | 10.0 | U | 1 | 3.13 | 10.0 | 20.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:02 | 6010D | SW3010 |
| 7440-66-6 | Zinc | 16.4 | JN | 1 | 8.33 | 7.50 | 20.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:02 | 6010D | SW3010 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Colorless | Clarity Before: | Clear | Texture: | |
| Color After: | Colorless | Clarity After: | Clear | Artifacts: | |
| Comments: | METALS-TAL | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | TW-17M-W | SDG No.: | Q2814 |
| Lab Sample ID: | Q2814-03 | Matrix: | Water |
| Level (low/med): | low | % Solid: | 0 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 2750 | | 1 | 5.67 | 40.0 | 50.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:06 | 6010D | SW3010 |
| 7440-36-0 | Antimony | 6.25 | UN | 1 | 3.38 | 6.25 | 25.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:06 | 6010D | SW3010 |
| 7440-38-2 | Arsenic | 6.27 | J | 1 | 2.56 | 7.50 | 10.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:06 | 6010D | SW3010 |
| 7440-39-3 | Barium | 18.6 | JN | 1 | 7.28 | 12.5 | 50.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:06 | 6010D | SW3010 |
| 7440-41-7 | Beryllium | 0.75 | UN | 1 | 0.28 | 0.75 | 3.00 | ug/L | 08/13/25 10:30 | 08/14/25 15:06 | 6010D | SW3010 |
| 7440-43-9 | Cadmium | 0.75 | U | 1 | 0.25 | 0.75 | 3.00 | ug/L | 08/13/25 10:30 | 08/14/25 15:06 | 6010D | SW3010 |
| 7440-70-2 | Calcium | 18400 | | 1 | 117 | 250 | 1000 | ug/L | 08/13/25 10:30 | 08/14/25 15:06 | 6010D | SW3010 |
| 7440-47-3 | Chromium | 4.23 | J | 1 | 1.06 | 2.50 | 5.00 | ug/L | 08/13/25 10:30 | 08/14/25 15:06 | 6010D | SW3010 |
| 7440-48-4 | Cobalt | 3.75 | U | 1 | 1.13 | 3.75 | 15.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:06 | 6010D | SW3010 |
| 7440-50-8 | Copper | 7.20 | J | 1 | 2.30 | 8.00 | 10.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:06 | 6010D | SW3010 |
| 7439-89-6 | Iron | 1770 | | 1 | 11.7 | 40.0 | 50.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:06 | 6010D | SW3010 |
| 7439-92-1 | Lead | 20.9 | | 1 | 1.15 | 4.80 | 6.00 | ug/L | 08/13/25 10:30 | 08/14/25 15:06 | 6010D | SW3010 |
| 7439-95-4 | Magnesium | 6810 | | 1 | 122 | 250 | 1000 | ug/L | 08/13/25 10:30 | 08/14/25 15:06 | 6010D | SW3010 |
| 7439-96-5 | Manganese | 102 | | 1 | 2.97 | 7.50 | 10.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:06 | 6010D | SW3010 |
| 7439-97-6 | Mercury | 0.14 | J | 1 | 0.076 | 0.16 | 0.20 | ug/L | 08/12/25 11:30 | 08/12/25 14:52 | 7470A | |
| 7440-02-0 | Nickel | 1.74 | J | 1 | 1.53 | 5.00 | 20.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:06 | 6010D | SW3010 |
| 7440-09-7 | Potassium | 4990 | | 1 | 459 | 800 | 1000 | ug/L | 08/13/25 10:30 | 08/14/25 15:06 | 6010D | SW3010 |
| 7782-49-2 | Selenium | 8.00 | U | 1 | 4.82 | 8.00 | 10.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:06 | 6010D | SW3010 |
| 7440-22-4 | Silver | 2.50 | U | 1 | 0.81 | 2.50 | 5.00 | ug/L | 08/13/25 10:30 | 08/14/25 15:06 | 6010D | SW3010 |
| 7440-23-5 | Sodium | 43400 | | 1 | 434 | 500 | 1000 | ug/L | 08/13/25 10:30 | 08/14/25 15:06 | 6010D | SW3010 |
| 7440-28-0 | Thallium | 10.0 | U | 1 | 2.19 | 10.0 | 20.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:06 | 6010D | SW3010 |
| 7440-62-2 | Vanadium | 8.02 | J | 1 | 3.13 | 10.0 | 20.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:06 | 6010D | SW3010 |
| 7440-66-6 | Zinc | 39.8 | N | 1 | 8.33 | 7.50 | 20.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:06 | 6010D | SW3010 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Colorless | Clarity Before: | Clear | Texture: | |
| Color After: | Colorless | Clarity After: | Clear | Artifacts: | |
| Comments: | METALS-TAL | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/04/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | FB | SDG No.: | Q2814 |
| Lab Sample ID: | Q2814-16 | Matrix: | Water |
| Level (low/med): | low | % Solid: | 0 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 40.0 | U | 1 | 5.67 | 40.0 | 50.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:10 | 6010D | SW3010 |
| 7440-36-0 | Antimony | 6.25 | UN | 1 | 3.38 | 6.25 | 25.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:10 | 6010D | SW3010 |
| 7440-38-2 | Arsenic | 7.50 | U | 1 | 2.56 | 7.50 | 10.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:10 | 6010D | SW3010 |
| 7440-39-3 | Barium | 12.5 | UN | 1 | 7.28 | 12.5 | 50.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:10 | 6010D | SW3010 |
| 7440-41-7 | Beryllium | 0.75 | UN | 1 | 0.28 | 0.75 | 3.00 | ug/L | 08/13/25 10:30 | 08/14/25 15:10 | 6010D | SW3010 |
| 7440-43-9 | Cadmium | 0.75 | U | 1 | 0.25 | 0.75 | 3.00 | ug/L | 08/13/25 10:30 | 08/14/25 15:10 | 6010D | SW3010 |
| 7440-70-2 | Calcium | 250 | U | 1 | 117 | 250 | 1000 | ug/L | 08/13/25 10:30 | 08/14/25 15:10 | 6010D | SW3010 |
| 7440-47-3 | Chromium | 2.50 | U | 1 | 1.06 | 2.50 | 5.00 | ug/L | 08/13/25 10:30 | 08/14/25 15:10 | 6010D | SW3010 |
| 7440-48-4 | Cobalt | 3.75 | U | 1 | 1.13 | 3.75 | 15.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:10 | 6010D | SW3010 |
| 7440-50-8 | Copper | 8.00 | U | 1 | 2.30 | 8.00 | 10.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:10 | 6010D | SW3010 |
| 7439-89-6 | Iron | 40.0 | U | 1 | 11.7 | 40.0 | 50.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:10 | 6010D | SW3010 |
| 7439-92-1 | Lead | 4.80 | U | 1 | 1.15 | 4.80 | 6.00 | ug/L | 08/13/25 10:30 | 08/14/25 15:10 | 6010D | SW3010 |
| 7439-95-4 | Magnesium | 250 | U | 1 | 122 | 250 | 1000 | ug/L | 08/13/25 10:30 | 08/14/25 15:10 | 6010D | SW3010 |
| 7439-96-5 | Manganese | 7.50 | U | 1 | 2.97 | 7.50 | 10.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:10 | 6010D | SW3010 |
| 7439-97-6 | Mercury | 0.16 | U | 1 | 0.076 | 0.16 | 0.20 | ug/L | 08/12/25 11:30 | 08/12/25 14:54 | 7470A | |
| 7440-02-0 | Nickel | 5.00 | U | 1 | 1.53 | 5.00 | 20.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:10 | 6010D | SW3010 |
| 7440-09-7 | Potassium | 800 | U | 1 | 459 | 800 | 1000 | ug/L | 08/13/25 10:30 | 08/14/25 15:10 | 6010D | SW3010 |
| 7782-49-2 | Selenium | 8.00 | U | 1 | 4.82 | 8.00 | 10.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:10 | 6010D | SW3010 |
| 7440-22-4 | Silver | 2.50 | U | 1 | 0.81 | 2.50 | 5.00 | ug/L | 08/13/25 10:30 | 08/14/25 15:10 | 6010D | SW3010 |
| 7440-23-5 | Sodium | 500 | U | 1 | 434 | 500 | 1000 | ug/L | 08/13/25 10:30 | 08/14/25 15:10 | 6010D | SW3010 |
| 7440-28-0 | Thallium | 10.0 | U | 1 | 2.19 | 10.0 | 20.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:10 | 6010D | SW3010 |
| 7440-62-2 | Vanadium | 10.0 | U | 1 | 3.13 | 10.0 | 20.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:10 | 6010D | SW3010 |
| 7440-66-6 | Zinc | 7.50 | UN | 1 | 8.33 | 7.50 | 20.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:10 | 6010D | SW3010 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Colorless | Clarity Before: | Clear | Texture: | |
| Color After: | Colorless | Clarity After: | Clear | Artifacts: | |
| Comments: | METALS-TAL | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | TW-518R-S | SDG No.: | Q2814 |
| Lab Sample ID: | Q2814-17 | Matrix: | Water |
| Level (low/med): | low | % Solid: | 0 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 233000 | D | 5 | 28.4 | 200 | 250 | ug/L | 08/13/25 10:30 | 08/14/25 15:15 | 6010D | SW3010 |
| 7440-36-0 | Antimony | 31.3 | UDN | 5 | 16.9 | 31.3 | 125 | ug/L | 08/13/25 10:30 | 08/14/25 15:15 | 6010D | SW3010 |
| 7440-38-2 | Arsenic | 304 | D | 5 | 12.8 | 37.5 | 50.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:15 | 6010D | SW3010 |
| 7440-39-3 | Barium | 890 | DN | 5 | 36.4 | 62.5 | 250 | ug/L | 08/13/25 10:30 | 08/14/25 15:15 | 6010D | SW3010 |
| 7440-41-7 | Beryllium | 15.9 | DN | 5 | 1.40 | 3.75 | 15.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:15 | 6010D | SW3010 |
| 7440-43-9 | Cadmium | 43.3 | D | 5 | 1.25 | 3.75 | 15.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:15 | 6010D | SW3010 |
| 7440-70-2 | Calcium | 50900 | D | 5 | 585 | 1250 | 5000 | ug/L | 08/13/25 10:30 | 08/14/25 15:15 | 6010D | SW3010 |
| 7440-47-3 | Chromium | 476 | D | 5 | 5.30 | 12.5 | 25.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:15 | 6010D | SW3010 |
| 7440-48-4 | Cobalt | 152 | D | 5 | 5.65 | 18.8 | 75.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:15 | 6010D | SW3010 |
| 7440-50-8 | Copper | 1300 | D | 5 | 11.5 | 40.0 | 50.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:15 | 6010D | SW3010 |
| 7439-89-6 | Iron | 339000 | D | 5 | 58.5 | 200 | 250 | ug/L | 08/13/25 10:30 | 08/14/25 15:15 | 6010D | SW3010 |
| 7439-92-1 | Lead | 892 | D | 5 | 5.75 | 24.0 | 30.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:15 | 6010D | SW3010 |
| 7439-95-4 | Magnesium | 56700 | D | 5 | 610 | 1250 | 5000 | ug/L | 08/13/25 10:30 | 08/14/25 15:15 | 6010D | SW3010 |
| 7439-96-5 | Manganese | 1190 | D | 5 | 14.9 | 37.5 | 50.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:15 | 6010D | SW3010 |
| 7439-97-6 | Mercury | 0.28 | | 1 | 0.076 | 0.16 | 0.20 | ug/L | 08/12/25 11:30 | 08/12/25 15:01 | 7470A | |
| 7440-02-0 | Nickel | 288 | D | 5 | 7.65 | 25.0 | 100 | ug/L | 08/13/25 10:30 | 08/14/25 15:15 | 6010D | SW3010 |
| 7440-09-7 | Potassium | 46100 | D | 5 | 2300 | 4000 | 5000 | ug/L | 08/13/25 10:30 | 08/14/25 15:15 | 6010D | SW3010 |
| 7782-49-2 | Selenium | 40.0 | UD | 5 | 24.1 | 40.0 | 50.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:15 | 6010D | SW3010 |
| 7440-22-4 | Silver | 23.1 | JD | 5 | 4.05 | 12.5 | 25.0 | ug/L | 08/13/25 10:30 | 08/14/25 15:15 | 6010D | SW3010 |
| 7440-23-5 | Sodium | 373000 | D | 5 | 2170 | 2500 | 5000 | ug/L | 08/13/25 10:30 | 08/14/25 15:15 | 6010D | SW3010 |
| 7440-28-0 | Thallium | 50.0 | UD | 5 | 10.9 | 50.0 | 100 | ug/L | 08/13/25 10:30 | 08/14/25 15:15 | 6010D | SW3010 |
| 7440-62-2 | Vanadium | 552 | D | 5 | 15.7 | 50.0 | 100 | ug/L | 08/13/25 10:30 | 08/14/25 15:15 | 6010D | SW3010 |
| 7440-66-6 | Zinc | 3920 | DN | 5 | 41.7 | 37.5 | 100 | ug/L | 08/13/25 10:30 | 08/14/25 15:15 | 6010D | SW3010 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Colorless | Clarity Before: | Clear | Texture: | |
| Color After: | Colorless | Clarity After: | Clear | Artifacts: | |
| Comments: | METALS-TAL | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | TW-84SB-E | SDG No.: | Q2814 |
| Lab Sample ID: | Q2814-22 | Matrix: | Water |
| Level (low/med): | low | % Solid: | 0 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 19.9 | J | 1 | 5.67 | 40.0 | 50.0 | ug/L | 08/13/25 10:30 | 08/20/25 16:47 | 6010D | SW3010 |
| 7440-36-0 | Antimony | 6.25 | UN | 1 | 3.38 | 6.25 | 25.0 | ug/L | 08/13/25 10:30 | 08/20/25 16:47 | 6010D | SW3010 |
| 7440-38-2 | Arsenic | 7.50 | U | 1 | 2.56 | 7.50 | 10.0 | ug/L | 08/13/25 10:30 | 08/20/25 16:47 | 6010D | SW3010 |
| 7440-39-3 | Barium | 27.5 | JN | 1 | 7.28 | 12.5 | 50.0 | ug/L | 08/13/25 10:30 | 08/20/25 16:47 | 6010D | SW3010 |
| 7440-41-7 | Beryllium | 0.75 | UN | 1 | 0.28 | 0.75 | 3.00 | ug/L | 08/13/25 10:30 | 08/20/25 16:47 | 6010D | SW3010 |
| 7440-43-9 | Cadmium | 0.75 | U | 1 | 0.25 | 0.75 | 3.00 | ug/L | 08/13/25 10:30 | 08/20/25 16:47 | 6010D | SW3010 |
| 7440-70-2 | Calcium | 20700 | | 1 | 117 | 250 | 1000 | ug/L | 08/13/25 10:30 | 08/20/25 16:47 | 6010D | SW3010 |
| 7440-47-3 | Chromium | 2.50 | U | 1 | 1.06 | 2.50 | 5.00 | ug/L | 08/13/25 10:30 | 08/20/25 16:47 | 6010D | SW3010 |
| 7440-48-4 | Cobalt | 3.75 | U | 1 | 1.13 | 3.75 | 15.0 | ug/L | 08/13/25 10:30 | 08/20/25 16:47 | 6010D | SW3010 |
| 7440-50-8 | Copper | 5.24 | J | 1 | 2.30 | 8.00 | 10.0 | ug/L | 08/13/25 10:30 | 08/20/25 16:47 | 6010D | SW3010 |
| 7439-89-6 | Iron | 17.5 | J | 1 | 11.7 | 40.0 | 50.0 | ug/L | 08/13/25 10:30 | 08/20/25 16:47 | 6010D | SW3010 |
| 7439-92-1 | Lead | 4.80 | U | 1 | 1.15 | 4.80 | 6.00 | ug/L | 08/13/25 10:30 | 08/20/25 16:47 | 6010D | SW3010 |
| 7439-95-4 | Magnesium | 11800 | | 1 | 122 | 250 | 1000 | ug/L | 08/13/25 10:30 | 08/20/25 16:47 | 6010D | SW3010 |
| 7439-96-5 | Manganese | 4.05 | J | 1 | 2.97 | 7.50 | 10.0 | ug/L | 08/13/25 10:30 | 08/20/25 16:47 | 6010D | SW3010 |
| 7439-97-6 | Mercury | 0.16 | U | 1 | 0.076 | 0.16 | 0.20 | ug/L | 08/14/25 10:30 | 08/15/25 12:27 | 7470A | |
| 7440-02-0 | Nickel | 5.00 | U | 1 | 1.53 | 5.00 | 20.0 | ug/L | 08/13/25 10:30 | 08/20/25 16:47 | 6010D | SW3010 |
| 7440-09-7 | Potassium | 12600 | | 1 | 459 | 800 | 1000 | ug/L | 08/13/25 10:30 | 08/20/25 16:47 | 6010D | SW3010 |
| 7782-49-2 | Selenium | 8.00 | U | 1 | 4.82 | 8.00 | 10.0 | ug/L | 08/13/25 10:30 | 08/20/25 16:47 | 6010D | SW3010 |
| 7440-22-4 | Silver | 2.50 | U | 1 | 0.81 | 2.50 | 5.00 | ug/L | 08/13/25 10:30 | 08/20/25 16:47 | 6010D | SW3010 |
| 7440-23-5 | Sodium | 65400 | | 1 | 434 | 500 | 1000 | ug/L | 08/13/25 10:30 | 08/20/25 16:47 | 6010D | SW3010 |
| 7440-28-0 | Thallium | 10.0 | U | 1 | 2.19 | 10.0 | 20.0 | ug/L | 08/13/25 10:30 | 08/20/25 16:47 | 6010D | SW3010 |
| 7440-62-2 | Vanadium | 10.0 | U | 1 | 3.13 | 10.0 | 20.0 | ug/L | 08/13/25 10:30 | 08/20/25 16:47 | 6010D | SW3010 |
| 7440-66-6 | Zinc | 11.9 | JN | 1 | 8.33 | 7.50 | 20.0 | ug/L | 08/13/25 10:30 | 08/20/25 16:47 | 6010D | SW3010 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Colorless | Clarity Before: | Clear | Texture: | |
| Color After: | Colorless | Clarity After: | Clear | Artifacts: | |
| Comments: | DISSOLVED METALS-TAL | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | TW-17M-W | SDG No.: | Q2814 |
| Lab Sample ID: | Q2814-23 | Matrix: | Water |
| Level (low/med): | low | % Solid: | 0 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 274 | | 1 | 5.67 | 40.0 | 50.0 | ug/L | 08/13/25 10:30 | 08/21/25 17:01 | 6010D | SW3010 |
| 7440-36-0 | Antimony | 6.25 | UN | 1 | 3.38 | 6.25 | 25.0 | ug/L | 08/13/25 10:30 | 08/21/25 17:01 | 6010D | SW3010 |
| 7440-38-2 | Arsenic | 7.50 | U | 1 | 2.56 | 7.50 | 10.0 | ug/L | 08/13/25 10:30 | 08/21/25 17:01 | 6010D | SW3010 |
| 7440-39-3 | Barium | 12.5 | UN | 1 | 7.28 | 12.5 | 50.0 | ug/L | 08/13/25 10:30 | 08/21/25 17:01 | 6010D | SW3010 |
| 7440-41-7 | Beryllium | 0.75 | UN | 1 | 0.28 | 0.75 | 3.00 | ug/L | 08/13/25 10:30 | 08/21/25 17:01 | 6010D | SW3010 |
| 7440-43-9 | Cadmium | 0.75 | U | 1 | 0.25 | 0.75 | 3.00 | ug/L | 08/13/25 10:30 | 08/21/25 17:01 | 6010D | SW3010 |
| 7440-70-2 | Calcium | 18400 | | 1 | 117 | 250 | 1000 | ug/L | 08/13/25 10:30 | 08/21/25 17:01 | 6010D | SW3010 |
| 7440-47-3 | Chromium | 2.50 | U | 1 | 1.06 | 2.50 | 5.00 | ug/L | 08/13/25 10:30 | 08/21/25 17:01 | 6010D | SW3010 |
| 7440-48-4 | Cobalt | 3.75 | U | 1 | 1.13 | 3.75 | 15.0 | ug/L | 08/13/25 10:30 | 08/21/25 17:01 | 6010D | SW3010 |
| 7440-50-8 | Copper | 52.2 | | 1 | 2.30 | 8.00 | 10.0 | ug/L | 08/13/25 10:30 | 08/21/25 17:01 | 6010D | SW3010 |
| 7439-89-6 | Iron | 53.7 | | 1 | 11.7 | 40.0 | 50.0 | ug/L | 08/13/25 10:30 | 08/21/25 17:01 | 6010D | SW3010 |
| 7439-92-1 | Lead | 4.30 | J | 1 | 1.15 | 4.80 | 6.00 | ug/L | 08/13/25 10:30 | 08/21/25 17:01 | 6010D | SW3010 |
| 7439-95-4 | Magnesium | 6790 | | 1 | 122 | 250 | 1000 | ug/L | 08/13/25 10:30 | 08/21/25 17:01 | 6010D | SW3010 |
| 7439-96-5 | Manganese | 8.68 | J | 1 | 2.97 | 7.50 | 10.0 | ug/L | 08/13/25 10:30 | 08/21/25 17:01 | 6010D | SW3010 |
| 7439-97-6 | Mercury | 0.16 | U | 1 | 0.076 | 0.16 | 0.20 | ug/L | 08/14/25 10:30 | 08/15/25 12:29 | 7470A | |
| 7440-02-0 | Nickel | 5.00 | U | 1 | 1.53 | 5.00 | 20.0 | ug/L | 08/13/25 10:30 | 08/21/25 17:01 | 6010D | SW3010 |
| 7440-09-7 | Potassium | 4370 | | 1 | 459 | 800 | 1000 | ug/L | 08/13/25 10:30 | 08/21/25 17:01 | 6010D | SW3010 |
| 7782-49-2 | Selenium | 8.00 | U | 1 | 4.82 | 8.00 | 10.0 | ug/L | 08/13/25 10:30 | 08/21/25 17:01 | 6010D | SW3010 |
| 7440-22-4 | Silver | 2.50 | U | 1 | 0.81 | 2.50 | 5.00 | ug/L | 08/13/25 10:30 | 08/21/25 17:01 | 6010D | SW3010 |
| 7440-23-5 | Sodium | 43000 | | 1 | 434 | 500 | 1000 | ug/L | 08/13/25 10:30 | 08/21/25 17:01 | 6010D | SW3010 |
| 7440-28-0 | Thallium | 10.0 | U | 1 | 2.19 | 10.0 | 20.0 | ug/L | 08/13/25 10:30 | 08/21/25 17:01 | 6010D | SW3010 |
| 7440-62-2 | Vanadium | 10.0 | U | 1 | 3.13 | 10.0 | 20.0 | ug/L | 08/13/25 10:30 | 08/21/25 17:01 | 6010D | SW3010 |
| 7440-66-6 | Zinc | 11.9 | JN | 1 | 8.33 | 7.50 | 20.0 | ug/L | 08/13/25 10:30 | 08/21/25 17:01 | 6010D | SW3010 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Colorless | Clarity Before: | Clear | Texture: | |
| Color After: | Colorless | Clarity After: | Clear | Artifacts: | |

Comments: DISSOLVED METALS-TAL

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

# METAL CALIBRATION DATA

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** PLASMA-PURE

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICV10 | Mercury | 4.14 | 4.0 | 104 | 90 - 110 | CV | 08/12/2025 | 14:21 | LB136788 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** PLASMA-PURE

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV29 | Mercury | 4.93 | 5.0 | 99 | 90 - 110 | CV | 08/12/2025 | 14:26 | LB136788 |
| CCV30 | Mercury | 4.98 | 5.0 | 100 | 90 - 110 | CV | 08/12/2025 | 14:56 | LB136788 |
| CCV31 | Mercury | 4.91 | 5.0 | 98 | 90 - 110 | CV | 08/12/2025 | 15:24 | LB136788 |
| CCV32 | Mercury | 4.78 | 5.0 | 96 | 90 - 110 | CV | 08/12/2025 | 15:35 | LB136788 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** PLASMA-PURE

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICV18 | Mercury | 4.08 | 4.0 | 102 | 90 - 110 | CV | 08/15/2025 | 11:40 | LB136836 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** PLASMA-PURE

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV54 | Mercury | 5.24 | 5.0 | 105 | 90 - 110 | CV | 08/15/2025 | 12:11 | LB136836 |
| CCV55 | Mercury | 4.83 | 5.0 | 96 | 90 - 110 | CV | 08/15/2025 | 12:38 | LB136836 |
| CCV56 | Mercury | 5.09 | 5.0 | 102 | 90 - 110 | CV | 08/15/2025 | 13:09 | LB136836 |
| CCV57 | Mercury | 5.18 | 5.0 | 104 | 90 - 110 | CV | 08/15/2025 | 13:15 | LB136836 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICV01 | Aluminum | 8030 | 8000 | 100 | 90 - 110 | P | 08/14/2025 | 12:05 | LB136837 |
| | Antimony | 4100 | 4000 | 102 | 90 - 110 | P | 08/14/2025 | 12:05 | LB136837 |
| | Arsenic | 3980 | 4000 | 100 | 90 - 110 | P | 08/14/2025 | 12:05 | LB136837 |
| | Barium | 8040 | 8000 | 100 | 90 - 110 | P | 08/14/2025 | 12:05 | LB136837 |
| | Beryllium | 202 | 200 | 101 | 90 - 110 | P | 08/14/2025 | 12:05 | LB136837 |
| | Cadmium | 1980 | 2000 | 99 | 90 - 110 | P | 08/14/2025 | 12:05 | LB136837 |
| | Calcium | 20100 | 20000 | 100 | 90 - 110 | P | 08/14/2025 | 12:05 | LB136837 |
| | Chromium | 820 | 800 | 102 | 90 - 110 | P | 08/14/2025 | 12:05 | LB136837 |
| | Cobalt | 2010 | 2000 | 101 | 90 - 110 | P | 08/14/2025 | 12:05 | LB136837 |
| | Copper | 1030 | 1000 | 102 | 90 - 110 | P | 08/14/2025 | 12:05 | LB136837 |
| | Iron | 4050 | 4000 | 101 | 90 - 110 | P | 08/14/2025 | 12:05 | LB136837 |
| | Lead | 3890 | 4000 | 97 | 90 - 110 | P | 08/14/2025 | 12:05 | LB136837 |
| | Magnesium | 20100 | 20000 | 100 | 90 - 110 | P | 08/14/2025 | 12:05 | LB136837 |
| | Manganese | 2020 | 2000 | 101 | 90 - 110 | P | 08/14/2025 | 12:05 | LB136837 |
| | Nickel | 2010 | 2000 | 100 | 90 - 110 | P | 08/14/2025 | 12:05 | LB136837 |
| | Potassium | 19800 | 20000 | 99 | 90 - 110 | P | 08/14/2025 | 12:05 | LB136837 |
| | Selenium | 3970 | 4000 | 99 | 90 - 110 | P | 08/14/2025 | 12:05 | LB136837 |
| | Silver | 1070 | 1000 | 107 | 90 - 110 | P | 08/14/2025 | 12:05 | LB136837 |
| | Sodium | 19700 | 20000 | 98 | 90 - 110 | P | 08/14/2025 | 12:05 | LB136837 |
| | Thallium | 3830 | 4000 | 96 | 90 - 110 | P | 08/14/2025 | 12:05 | LB136837 |
| | Vanadium | 2020 | 2000 | 101 | 90 - 110 | P | 08/14/2025 | 12:05 | LB136837 |
| | Zinc | 2000 | 2000 | 100 | 90 - 110 | P | 08/14/2025 | 12:05 | LB136837 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| LLICV01 | Aluminum | 90.2 | 100 | 90 | 80 - 120 | P | 08/14/2025 | 12:09 | LB136837 |
| | Antimony | 53.2 | 50.0 | 106 | 80 - 120 | P | 08/14/2025 | 12:09 | LB136837 |
| | Arsenic | 21.4 | 20.0 | 107 | 80 - 120 | P | 08/14/2025 | 12:09 | LB136837 |
| | Barium | 97.9 | 100 | 98 | 80 - 120 | P | 08/14/2025 | 12:09 | LB136837 |
| | Beryllium | 6.22 | 6.0 | 104 | 80 - 120 | P | 08/14/2025 | 12:09 | LB136837 |
| | Cadmium | 5.85 | 6.0 | 97 | 80 - 120 | P | 08/14/2025 | 12:09 | LB136837 |
| | Calcium | 2090 | 2000 | 105 | 80 - 120 | P | 08/14/2025 | 12:09 | LB136837 |
| | Chromium | 10.7 | 10.0 | 107 | 80 - 120 | P | 08/14/2025 | 12:09 | LB136837 |
| | Cobalt | 29.9 | 30.0 | 100 | 80 - 120 | P | 08/14/2025 | 12:09 | LB136837 |
| | Copper | 21.6 | 20.0 | 108 | 80 - 120 | P | 08/14/2025 | 12:09 | LB136837 |
| | Iron | 112 | 100 | 112 | 80 - 120 | P | 08/14/2025 | 12:09 | LB136837 |
| | Lead | 12.2 | 12.0 | 101 | 80 - 120 | P | 08/14/2025 | 12:09 | LB136837 |
| | Magnesium | 2200 | 2000 | 110 | 80 - 120 | P | 08/14/2025 | 12:09 | LB136837 |
| | Manganese | 21.6 | 20.0 | 108 | 80 - 120 | P | 08/14/2025 | 12:09 | LB136837 |
| | Nickel | 40.2 | 40.0 | 100 | 80 - 120 | P | 08/14/2025 | 12:09 | LB136837 |
| | Potassium | 2030 | 2000 | 101 | 80 - 120 | P | 08/14/2025 | 12:09 | LB136837 |
| | Selenium | 19.6 | 20.0 | 98 | 80 - 120 | P | 08/14/2025 | 12:09 | LB136837 |
| | Silver | 10.5 | 10.0 | 105 | 80 - 120 | P | 08/14/2025 | 12:09 | LB136837 |
| | Sodium | 1920 | 2000 | 96 | 80 - 120 | P | 08/14/2025 | 12:09 | LB136837 |
| | Thallium | 41.7 | 40.0 | 104 | 80 - 120 | P | 08/14/2025 | 12:09 | LB136837 |
| | Vanadium | 39.4 | 40.0 | 99 | 80 - 120 | P | 08/14/2025 | 12:09 | LB136837 |
| | Zinc | 42.9 | 40.0 | 107 | 80 - 120 | P | 08/14/2025 | 12:09 | LB136837 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV01 | Aluminum | 10100 | 10000 | 101 | 90 - 110 | P | 08/14/2025 | 12:50 | LB136837 |
| | Antimony | 5100 | 5000 | 102 | 90 - 110 | P | 08/14/2025 | 12:50 | LB136837 |
| | Arsenic | 5070 | 5000 | 102 | 90 - 110 | P | 08/14/2025 | 12:50 | LB136837 |
| | Barium | 9910 | 10000 | 99 | 90 - 110 | P | 08/14/2025 | 12:50 | LB136837 |
| | Beryllium | 250 | 250 | 100 | 90 - 110 | P | 08/14/2025 | 12:50 | LB136837 |
| | Cadmium | 2490 | 2500 | 100 | 90 - 110 | P | 08/14/2025 | 12:50 | LB136837 |
| | Calcium | 25000 | 25000 | 100 | 90 - 110 | P | 08/14/2025 | 12:50 | LB136837 |
| | Chromium | 1020 | 1000 | 102 | 90 - 110 | P | 08/14/2025 | 12:50 | LB136837 |
| | Cobalt | 2490 | 2500 | 100 | 90 - 110 | P | 08/14/2025 | 12:50 | LB136837 |
| | Copper | 1270 | 1250 | 101 | 90 - 110 | P | 08/14/2025 | 12:50 | LB136837 |
| | Iron | 5010 | 5000 | 100 | 90 - 110 | P | 08/14/2025 | 12:50 | LB136837 |
| | Lead | 4960 | 5000 | 99 | 90 - 110 | P | 08/14/2025 | 12:50 | LB136837 |
| | Magnesium | 24900 | 25000 | 100 | 90 - 110 | P | 08/14/2025 | 12:50 | LB136837 |
| | Manganese | 2470 | 2500 | 99 | 90 - 110 | P | 08/14/2025 | 12:50 | LB136837 |
| | Nickel | 2490 | 2500 | 100 | 90 - 110 | P | 08/14/2025 | 12:50 | LB136837 |
| | Potassium | 25100 | 25000 | 100 | 90 - 110 | P | 08/14/2025 | 12:50 | LB136837 |
| | Selenium | 5140 | 5000 | 103 | 90 - 110 | P | 08/14/2025 | 12:50 | LB136837 |
| | Silver | 1270 | 1250 | 102 | 90 - 110 | P | 08/14/2025 | 12:50 | LB136837 |
| | Sodium | 24900 | 25000 | 100 | 90 - 110 | P | 08/14/2025 | 12:50 | LB136837 |
| | Thallium | 5280 | 5000 | 106 | 90 - 110 | P | 08/14/2025 | 12:50 | LB136837 |
| | Vanadium | 2510 | 2500 | 101 | 90 - 110 | P | 08/14/2025 | 12:50 | LB136837 |
| | Zinc | 2550 | 2500 | 102 | 90 - 110 | P | 08/14/2025 | 12:50 | LB136837 |
| CCV02 | Aluminum | 9980 | 10000 | 100 | 90 - 110 | P | 08/14/2025 | 13:42 | LB136837 |
| | Antimony | 5140 | 5000 | 103 | 90 - 110 | P | 08/14/2025 | 13:42 | LB136837 |
| | Arsenic | 5090 | 5000 | 102 | 90 - 110 | P | 08/14/2025 | 13:42 | LB136837 |
| | Barium | 9920 | 10000 | 99 | 90 - 110 | P | 08/14/2025 | 13:42 | LB136837 |
| | Beryllium | 233 | 250 | 93 | 90 - 110 | P | 08/14/2025 | 13:42 | LB136837 |
| | Cadmium | 2460 | 2500 | 98 | 90 - 110 | P | 08/14/2025 | 13:42 | LB136837 |
| | Calcium | 24600 | 25000 | 99 | 90 - 110 | P | 08/14/2025 | 13:42 | LB136837 |
| | Chromium | 1020 | 1000 | 102 | 90 - 110 | P | 08/14/2025 | 13:42 | LB136837 |
| | Cobalt | 2480 | 2500 | 99 | 90 - 110 | P | 08/14/2025 | 13:42 | LB136837 |
| | Copper | 1260 | 1250 | 101 | 90 - 110 | P | 08/14/2025 | 13:42 | LB136837 |
| | Iron | 5260 | 5000 | 105 | 90 - 110 | P | 08/14/2025 | 13:42 | LB136837 |
| | Lead | 4890 | 5000 | 98 | 90 - 110 | P | 08/14/2025 | 13:42 | LB136837 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV02 | Magnesium | 24400 | 25000 | 98 | 90 - 110 | P | 08/14/2025 | 13:42 | LB136837 |
| | Manganese | 2430 | 2500 | 97 | 90 - 110 | P | 08/14/2025 | 13:42 | LB136837 |
| | Nickel | 2480 | 2500 | 99 | 90 - 110 | P | 08/14/2025 | 13:42 | LB136837 |
| | Potassium | 26700 | 25000 | 107 | 90 - 110 | P | 08/14/2025 | 13:42 | LB136837 |
| | Selenium | 5140 | 5000 | 103 | 90 - 110 | P | 08/14/2025 | 13:42 | LB136837 |
| | Silver | 1260 | 1250 | 101 | 90 - 110 | P | 08/14/2025 | 13:42 | LB136837 |
| | Sodium | 25000 | 25000 | 100 | 90 - 110 | P | 08/14/2025 | 13:42 | LB136837 |
| | Thallium | 5040 | 5000 | 101 | 90 - 110 | P | 08/14/2025 | 13:42 | LB136837 |
| | Vanadium | 2500 | 2500 | 100 | 90 - 110 | P | 08/14/2025 | 13:42 | LB136837 |
| | Zinc | 2580 | 2500 | 103 | 90 - 110 | P | 08/14/2025 | 13:42 | LB136837 |
| CCV03 | Aluminum | 9770 | 10000 | 98 | 90 - 110 | P | 08/14/2025 | 14:41 | LB136837 |
| | Antimony | 5050 | 5000 | 101 | 90 - 110 | P | 08/14/2025 | 14:41 | LB136837 |
| | Arsenic | 4980 | 5000 | 100 | 90 - 110 | P | 08/14/2025 | 14:41 | LB136837 |
| | Barium | 9880 | 10000 | 99 | 90 - 110 | P | 08/14/2025 | 14:41 | LB136837 |
| | Beryllium | 237 | 250 | 95 | 90 - 110 | P | 08/14/2025 | 14:41 | LB136837 |
| | Cadmium | 2400 | 2500 | 96 | 90 - 110 | P | 08/14/2025 | 14:41 | LB136837 |
| | Calcium | 24200 | 25000 | 97 | 90 - 110 | P | 08/14/2025 | 14:41 | LB136837 |
| | Chromium | 984 | 1000 | 98 | 90 - 110 | P | 08/14/2025 | 14:41 | LB136837 |
| | Cobalt | 2410 | 2500 | 96 | 90 - 110 | P | 08/14/2025 | 14:41 | LB136837 |
| | Copper | 1240 | 1250 | 99 | 90 - 110 | P | 08/14/2025 | 14:41 | LB136837 |
| | Iron | 5010 | 5000 | 100 | 90 - 110 | P | 08/14/2025 | 14:41 | LB136837 |
| | Lead | 4790 | 5000 | 96 | 90 - 110 | P | 08/14/2025 | 14:41 | LB136837 |
| | Magnesium | 24000 | 25000 | 96 | 90 - 110 | P | 08/14/2025 | 14:41 | LB136837 |
| | Manganese | 2410 | 2500 | 96 | 90 - 110 | P | 08/14/2025 | 14:41 | LB136837 |
| | Nickel | 2420 | 2500 | 97 | 90 - 110 | P | 08/14/2025 | 14:41 | LB136837 |
| | Potassium | 25400 | 25000 | 102 | 90 - 110 | P | 08/14/2025 | 14:41 | LB136837 |
| | Selenium | 5000 | 5000 | 100 | 90 - 110 | P | 08/14/2025 | 14:41 | LB136837 |
| | Silver | 1240 | 1250 | 99 | 90 - 110 | P | 08/14/2025 | 14:41 | LB136837 |
| | Sodium | 24300 | 25000 | 97 | 90 - 110 | P | 08/14/2025 | 14:41 | LB136837 |
| | Thallium | 4710 | 5000 | 94 | 90 - 110 | P | 08/14/2025 | 14:41 | LB136837 |
| | Vanadium | 2460 | 2500 | 98 | 90 - 110 | P | 08/14/2025 | 14:41 | LB136837 |
| | Zinc | 2520 | 2500 | 101 | 90 - 110 | P | 08/14/2025 | 14:41 | LB136837 |
| CCV04 | Aluminum | 9870 | 10000 | 99 | 90 - 110 | P | 08/14/2025 | 15:58 | LB136837 |
| | Antimony | 5180 | 5000 | 104 | 90 - 110 | P | 08/14/2025 | 15:58 | LB136837 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV04 | Arsenic | 5090 | 5000 | 102 | 90 - 110 | P | 08/14/2025 | 15:58 | LB136837 |
| | Barium | 9790 | 10000 | 98 | 90 - 110 | P | 08/14/2025 | 15:58 | LB136837 |
| | Beryllium | 232 | 250 | 93 | 90 - 110 | P | 08/14/2025 | 15:58 | LB136837 |
| | Cadmium | 2410 | 2500 | 96 | 90 - 110 | P | 08/14/2025 | 15:58 | LB136837 |
| | Calcium | 24200 | 25000 | 97 | 90 - 110 | P | 08/14/2025 | 15:58 | LB136837 |
| | Chromium | 1000 | 1000 | 100 | 90 - 110 | P | 08/14/2025 | 15:58 | LB136837 |
| | Cobalt | 2430 | 2500 | 97 | 90 - 110 | P | 08/14/2025 | 15:58 | LB136837 |
| | Copper | 1260 | 1250 | 100 | 90 - 110 | P | 08/14/2025 | 15:58 | LB136837 |
| | Iron | 5210 | 5000 | 104 | 90 - 110 | P | 08/14/2025 | 15:58 | LB136837 |
| | Lead | 4810 | 5000 | 96 | 90 - 110 | P | 08/14/2025 | 15:58 | LB136837 |
| | Magnesium | 24000 | 25000 | 96 | 90 - 110 | P | 08/14/2025 | 15:58 | LB136837 |
| | Manganese | 2410 | 2500 | 96 | 90 - 110 | P | 08/14/2025 | 15:58 | LB136837 |
| | Nickel | 2440 | 2500 | 98 | 90 - 110 | P | 08/14/2025 | 15:58 | LB136837 |
| | Potassium | 26500 | 25000 | 106 | 90 - 110 | P | 08/14/2025 | 15:58 | LB136837 |
| | Selenium | 5210 | 5000 | 104 | 90 - 110 | P | 08/14/2025 | 15:58 | LB136837 |
| | Silver | 1260 | 1250 | 101 | 90 - 110 | P | 08/14/2025 | 15:58 | LB136837 |
| | Sodium | 25100 | 25000 | 100 | 90 - 110 | P | 08/14/2025 | 15:58 | LB136837 |
| | Thallium | 5210 | 5000 | 104 | 90 - 110 | P | 08/14/2025 | 15:58 | LB136837 |
| | Vanadium | 2470 | 2500 | 99 | 90 - 110 | P | 08/14/2025 | 15:58 | LB136837 |
| | Zinc | 2580 | 2500 | 103 | 90 - 110 | P | 08/14/2025 | 15:58 | LB136837 |
| CCV05 | Aluminum | 9710 | 10000 | 97 | 90 - 110 | P | 08/14/2025 | 16:50 | LB136837 |
| | Antimony | 5230 | 5000 | 105 | 90 - 110 | P | 08/14/2025 | 16:50 | LB136837 |
| | Arsenic | 5110 | 5000 | 102 | 90 - 110 | P | 08/14/2025 | 16:50 | LB136837 |
| | Barium | 9710 | 10000 | 97 | 90 - 110 | P | 08/14/2025 | 16:50 | LB136837 |
| | Beryllium | 228 | 250 | 91 | 90 - 110 | P | 08/14/2025 | 16:50 | LB136837 |
| | Cadmium | 2390 | 2500 | 96 | 90 - 110 | P | 08/14/2025 | 16:50 | LB136837 |
| | Calcium | 23800 | 25000 | 95 | 90 - 110 | P | 08/14/2025 | 16:50 | LB136837 |
| | Chromium | 985 | 1000 | 98 | 90 - 110 | P | 08/14/2025 | 16:50 | LB136837 |
| | Cobalt | 2410 | 2500 | 96 | 90 - 110 | P | 08/14/2025 | 16:50 | LB136837 |
| | Copper | 1260 | 1250 | 100 | 90 - 110 | P | 08/14/2025 | 16:50 | LB136837 |
| | Iron | 5160 | 5000 | 103 | 90 - 110 | P | 08/14/2025 | 16:50 | LB136837 |
| | Lead | 4770 | 5000 | 96 | 90 - 110 | P | 08/14/2025 | 16:50 | LB136837 |
| | Magnesium | 23500 | 25000 | 94 | 90 - 110 | P | 08/14/2025 | 16:50 | LB136837 |
| | Manganese | 2360 | 2500 | 94 | 90 - 110 | P | 08/14/2025 | 16:50 | LB136837 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV05 | Nickel | 2430 | 2500 | 97 | 90 - 110 | P | 08/14/2025 | 16:50 | LB136837 |
| | Potassium | 26500 | 25000 | 106 | 90 - 110 | P | 08/14/2025 | 16:50 | LB136837 |
| | Selenium | 5230 | 5000 | 104 | 90 - 110 | P | 08/14/2025 | 16:50 | LB136837 |
| | Silver | 1250 | 1250 | 100 | 90 - 110 | P | 08/14/2025 | 16:50 | LB136837 |
| | Sodium | 23300 | 25000 | 93 | 90 - 110 | P | 08/14/2025 | 16:50 | LB136837 |
| | Thallium | 4710 | 5000 | 94 | 90 - 110 | P | 08/14/2025 | 16:50 | LB136837 |
| | Vanadium | 2450 | 2500 | 98 | 90 - 110 | P | 08/14/2025 | 16:50 | LB136837 |
| | Zinc | 2590 | 2500 | 104 | 90 - 110 | P | 08/14/2025 | 16:50 | LB136837 |
| CCV06 | Aluminum | 9730 | 10000 | 97 | 90 - 110 | P | 08/14/2025 | 17:54 | LB136837 |
| | Antimony | 5260 | 5000 | 105 | 90 - 110 | P | 08/14/2025 | 17:54 | LB136837 |
| | Arsenic | 5150 | 5000 | 103 | 90 - 110 | P | 08/14/2025 | 17:54 | LB136837 |
| | Barium | 9970 | 10000 | 100 | 90 - 110 | P | 08/14/2025 | 17:54 | LB136837 |
| | Beryllium | 243 | 250 | 97 | 90 - 110 | P | 08/14/2025 | 17:54 | LB136837 |
| | Cadmium | 2380 | 2500 | 95 | 90 - 110 | P | 08/14/2025 | 17:54 | LB136837 |
| | Calcium | 24000 | 25000 | 96 | 90 - 110 | P | 08/14/2025 | 17:54 | LB136837 |
| | Chromium | 984 | 1000 | 98 | 90 - 110 | P | 08/14/2025 | 17:54 | LB136837 |
| | Cobalt | 2410 | 2500 | 96 | 90 - 110 | P | 08/14/2025 | 17:54 | LB136837 |
| | Copper | 1260 | 1250 | 100 | 90 - 110 | P | 08/14/2025 | 17:54 | LB136837 |
| | Iron | 5310 | 5000 | 106 | 90 - 110 | P | 08/14/2025 | 17:54 | LB136837 |
| | Lead | 4750 | 5000 | 95 | 90 - 110 | P | 08/14/2025 | 17:54 | LB136837 |
| | Magnesium | 23400 | 25000 | 94 | 90 - 110 | P | 08/14/2025 | 17:54 | LB136837 |
| | Manganese | 2400 | 2500 | 96 | 90 - 110 | P | 08/14/2025 | 17:54 | LB136837 |
| | Nickel | 2430 | 2500 | 97 | 90 - 110 | P | 08/14/2025 | 17:54 | LB136837 |
| | Potassium | 26900 | 25000 | 108 | 90 - 110 | P | 08/14/2025 | 17:54 | LB136837 |
| | Selenium | 5260 | 5000 | 105 | 90 - 110 | P | 08/14/2025 | 17:54 | LB136837 |
| | Silver | 1250 | 1250 | 100 | 90 - 110 | P | 08/14/2025 | 17:54 | LB136837 |
| | Sodium | 25000 | 25000 | 100 | 90 - 110 | P | 08/14/2025 | 17:54 | LB136837 |
| | Thallium | 5000 | 5000 | 100 | 90 - 110 | P | 08/14/2025 | 17:54 | LB136837 |
| | Vanadium | 2470 | 2500 | 99 | 90 - 110 | P | 08/14/2025 | 17:54 | LB136837 |
| | Zinc | 2570 | 2500 | 103 | 90 - 110 | P | 08/14/2025 | 17:54 | LB136837 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICV01 | Aluminum | 7800 | 8000 | 98 | 90 - 110 | P | 08/20/2025 | 13:04 | LB136898 |
| | Antimony | 4060 | 4000 | 102 | 90 - 110 | P | 08/20/2025 | 13:04 | LB136898 |
| | Arsenic | 3950 | 4000 | 99 | 90 - 110 | P | 08/20/2025 | 13:04 | LB136898 |
| | Barium | 7740 | 8000 | 97 | 90 - 110 | P | 08/20/2025 | 13:04 | LB136898 |
| | Beryllium | 217 | 200 | 109 | 90 - 110 | P | 08/20/2025 | 13:04 | LB136898 |
| | Cadmium | 1960 | 2000 | 98 | 90 - 110 | P | 08/20/2025 | 13:04 | LB136898 |
| | Calcium | 19400 | 20000 | 97 | 90 - 110 | P | 08/20/2025 | 13:04 | LB136898 |
| | Chromium | 809 | 800 | 101 | 90 - 110 | P | 08/20/2025 | 13:04 | LB136898 |
| | Cobalt | 1970 | 2000 | 99 | 90 - 110 | P | 08/20/2025 | 13:04 | LB136898 |
| | Copper | 1010 | 1000 | 101 | 90 - 110 | P | 08/20/2025 | 13:04 | LB136898 |
| | Iron | 3970 | 4000 | 99 | 90 - 110 | P | 08/20/2025 | 13:04 | LB136898 |
| | Lead | 3970 | 4000 | 99 | 90 - 110 | P | 08/20/2025 | 13:04 | LB136898 |
| | Magnesium | 19400 | 20000 | 97 | 90 - 110 | P | 08/20/2025 | 13:04 | LB136898 |
| | Manganese | 1950 | 2000 | 97 | 90 - 110 | P | 08/20/2025 | 13:04 | LB136898 |
| | Nickel | 1970 | 2000 | 98 | 90 - 110 | P | 08/20/2025 | 13:04 | LB136898 |
| | Potassium | 19600 | 20000 | 98 | 90 - 110 | P | 08/20/2025 | 13:04 | LB136898 |
| | Selenium | 3990 | 4000 | 100 | 90 - 110 | P | 08/20/2025 | 13:04 | LB136898 |
| | Silver | 1010 | 1000 | 101 | 90 - 110 | P | 08/20/2025 | 13:04 | LB136898 |
| | Sodium | 18900 | 20000 | 94 | 90 - 110 | P | 08/20/2025 | 13:04 | LB136898 |
| | Thallium | 3920 | 4000 | 98 | 90 - 110 | P | 08/20/2025 | 13:04 | LB136898 |
| | Vanadium | 1940 | 2000 | 97 | 90 - 110 | P | 08/20/2025 | 13:04 | LB136898 |
| | Zinc | 2010 | 2000 | 101 | 90 - 110 | P | 08/20/2025 | 13:04 | LB136898 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| LLICV01 | Aluminum | 105 | 100 | 105 | 80 - 120 | P | 08/20/2025 | 13:17 | LB136898 |
| | Antimony | 49.3 | 50.0 | 98 | 80 - 120 | P | 08/20/2025 | 13:17 | LB136898 |
| | Arsenic | 20.0 | 20.0 | 100 | 80 - 120 | P | 08/20/2025 | 13:17 | LB136898 |
| | Barium | 97.7 | 100 | 98 | 80 - 120 | P | 08/20/2025 | 13:17 | LB136898 |
| | Beryllium | 6.15 | 6.0 | 103 | 80 - 120 | P | 08/20/2025 | 13:17 | LB136898 |
| | Cadmium | 5.60 | 6.0 | 93 | 80 - 120 | P | 08/20/2025 | 13:17 | LB136898 |
| | Calcium | 2050 | 2000 | 102 | 80 - 120 | P | 08/20/2025 | 13:17 | LB136898 |
| | Chromium | 9.70 | 10.0 | 97 | 80 - 120 | P | 08/20/2025 | 13:17 | LB136898 |
| | Cobalt | 28.7 | 30.0 | 96 | 80 - 120 | P | 08/20/2025 | 13:17 | LB136898 |
| | Copper | 20.8 | 20.0 | 104 | 80 - 120 | P | 08/20/2025 | 13:17 | LB136898 |
| | Iron | 103 | 100 | 103 | 80 - 120 | P | 08/20/2025 | 13:17 | LB136898 |
| | Lead | 12.0 | 12.0 | 100 | 80 - 120 | P | 08/20/2025 | 13:17 | LB136898 |
| | Magnesium | 2160 | 2000 | 108 | 80 - 120 | P | 08/20/2025 | 13:17 | LB136898 |
| | Manganese | 21.9 | 20.0 | 109 | 80 - 120 | P | 08/20/2025 | 13:17 | LB136898 |
| | Nickel | 39.1 | 40.0 | 98 | 80 - 120 | P | 08/20/2025 | 13:17 | LB136898 |
| | Potassium | 1870 | 2000 | 94 | 80 - 120 | P | 08/20/2025 | 13:17 | LB136898 |
| | Selenium | 21.2 | 20.0 | 106 | 80 - 120 | P | 08/20/2025 | 13:17 | LB136898 |
| | Silver | 10.4 | 10.0 | 104 | 80 - 120 | P | 08/20/2025 | 13:17 | LB136898 |
| | Sodium | 1910 | 2000 | 96 | 80 - 120 | P | 08/20/2025 | 13:17 | LB136898 |
| | Thallium | 41.1 | 40.0 | 103 | 80 - 120 | P | 08/20/2025 | 13:17 | LB136898 |
| | Vanadium | 42.6 | 40.0 | 107 | 80 - 120 | P | 08/20/2025 | 13:17 | LB136898 |
| | Zinc | 41.2 | 40.0 | 103 | 80 - 120 | P | 08/20/2025 | 13:17 | LB136898 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV01 | Aluminum | 9920 | 10000 | 99 | 90 - 110 | P | 08/20/2025 | 13:47 | LB136898 |
| | Antimony | 4980 | 5000 | 100 | 90 - 110 | P | 08/20/2025 | 13:47 | LB136898 |
| | Arsenic | 4980 | 5000 | 100 | 90 - 110 | P | 08/20/2025 | 13:47 | LB136898 |
| | Barium | 9810 | 10000 | 98 | 90 - 110 | P | 08/20/2025 | 13:47 | LB136898 |
| | Beryllium | 246 | 250 | 98 | 90 - 110 | P | 08/20/2025 | 13:47 | LB136898 |
| | Cadmium | 2470 | 2500 | 99 | 90 - 110 | P | 08/20/2025 | 13:47 | LB136898 |
| | Calcium | 24800 | 25000 | 99 | 90 - 110 | P | 08/20/2025 | 13:47 | LB136898 |
| | Chromium | 1010 | 1000 | 101 | 90 - 110 | P | 08/20/2025 | 13:47 | LB136898 |
| | Cobalt | 2460 | 2500 | 98 | 90 - 110 | P | 08/20/2025 | 13:47 | LB136898 |
| | Copper | 1250 | 1250 | 100 | 90 - 110 | P | 08/20/2025 | 13:47 | LB136898 |
| | Iron | 5020 | 5000 | 100 | 90 - 110 | P | 08/20/2025 | 13:47 | LB136898 |
| | Lead | 4900 | 5000 | 98 | 90 - 110 | P | 08/20/2025 | 13:47 | LB136898 |
| | Magnesium | 24700 | 25000 | 99 | 90 - 110 | P | 08/20/2025 | 13:47 | LB136898 |
| | Manganese | 2470 | 2500 | 99 | 90 - 110 | P | 08/20/2025 | 13:47 | LB136898 |
| | Nickel | 2460 | 2500 | 98 | 90 - 110 | P | 08/20/2025 | 13:47 | LB136898 |
| | Potassium | 24800 | 25000 | 99 | 90 - 110 | P | 08/20/2025 | 13:47 | LB136898 |
| | Selenium | 5010 | 5000 | 100 | 90 - 110 | P | 08/20/2025 | 13:47 | LB136898 |
| | Silver | 1240 | 1250 | 100 | 90 - 110 | P | 08/20/2025 | 13:47 | LB136898 |
| | Sodium | 25000 | 25000 | 100 | 90 - 110 | P | 08/20/2025 | 13:47 | LB136898 |
| | Thallium | 4970 | 5000 | 100 | 90 - 110 | P | 08/20/2025 | 13:47 | LB136898 |
| | Vanadium | 2480 | 2500 | 99 | 90 - 110 | P | 08/20/2025 | 13:47 | LB136898 |
| | Zinc | 2520 | 2500 | 101 | 90 - 110 | P | 08/20/2025 | 13:47 | LB136898 |
| CCV02 | Aluminum | 9850 | 10000 | 98 | 90 - 110 | P | 08/20/2025 | 14:39 | LB136898 |
| | Antimony | 4990 | 5000 | 100 | 90 - 110 | P | 08/20/2025 | 14:39 | LB136898 |
| | Arsenic | 4960 | 5000 | 99 | 90 - 110 | P | 08/20/2025 | 14:39 | LB136898 |
| | Barium | 9760 | 10000 | 98 | 90 - 110 | P | 08/20/2025 | 14:39 | LB136898 |
| | Beryllium | 243 | 250 | 97 | 90 - 110 | P | 08/20/2025 | 14:39 | LB136898 |
| | Cadmium | 2450 | 2500 | 98 | 90 - 110 | P | 08/20/2025 | 14:39 | LB136898 |
| | Calcium | 24500 | 25000 | 98 | 90 - 110 | P | 08/20/2025 | 14:39 | LB136898 |
| | Chromium | 1000 | 1000 | 100 | 90 - 110 | P | 08/20/2025 | 14:39 | LB136898 |
| | Cobalt | 2440 | 2500 | 98 | 90 - 110 | P | 08/20/2025 | 14:39 | LB136898 |
| | Copper | 1240 | 1250 | 100 | 90 - 110 | P | 08/20/2025 | 14:39 | LB136898 |
| | Iron | 5060 | 5000 | 101 | 90 - 110 | P | 08/20/2025 | 14:39 | LB136898 |
| | Lead | 4860 | 5000 | 97 | 90 - 110 | P | 08/20/2025 | 14:39 | LB136898 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV02 | Magnesium | 24200 | 25000 | 97 | 90 - 110 | P | 08/20/2025 | 14:39 | LB136898 |
| | Manganese | 2440 | 2500 | 98 | 90 - 110 | P | 08/20/2025 | 14:39 | LB136898 |
| | Nickel | 2450 | 2500 | 98 | 90 - 110 | P | 08/20/2025 | 14:39 | LB136898 |
| | Potassium | 25300 | 25000 | 101 | 90 - 110 | P | 08/20/2025 | 14:39 | LB136898 |
| | Selenium | 5010 | 5000 | 100 | 90 - 110 | P | 08/20/2025 | 14:39 | LB136898 |
| | Silver | 1250 | 1250 | 100 | 90 - 110 | P | 08/20/2025 | 14:39 | LB136898 |
| | Sodium | 25200 | 25000 | 101 | 90 - 110 | P | 08/20/2025 | 14:39 | LB136898 |
| | Thallium | 5050 | 5000 | 101 | 90 - 110 | P | 08/20/2025 | 14:39 | LB136898 |
| | Vanadium | 2460 | 2500 | 98 | 90 - 110 | P | 08/20/2025 | 14:39 | LB136898 |
| | Zinc | 2510 | 2500 | 100 | 90 - 110 | P | 08/20/2025 | 14:39 | LB136898 |
| CCV03 | Aluminum | 9770 | 10000 | 98 | 90 - 110 | P | 08/20/2025 | 15:45 | LB136898 |
| | Antimony | 5030 | 5000 | 101 | 90 - 110 | P | 08/20/2025 | 15:45 | LB136898 |
| | Arsenic | 5010 | 5000 | 100 | 90 - 110 | P | 08/20/2025 | 15:45 | LB136898 |
| | Barium | 9560 | 10000 | 96 | 90 - 110 | P | 08/20/2025 | 15:45 | LB136898 |
| | Beryllium | 251 | 250 | 100 | 90 - 110 | P | 08/20/2025 | 15:45 | LB136898 |
| | Cadmium | 2470 | 2500 | 99 | 90 - 110 | P | 08/20/2025 | 15:45 | LB136898 |
| | Calcium | 24100 | 25000 | 96 | 90 - 110 | P | 08/20/2025 | 15:45 | LB136898 |
| | Chromium | 1020 | 1000 | 102 | 90 - 110 | P | 08/20/2025 | 15:45 | LB136898 |
| | Cobalt | 2460 | 2500 | 98 | 90 - 110 | P | 08/20/2025 | 15:45 | LB136898 |
| | Copper | 1250 | 1250 | 100 | 90 - 110 | P | 08/20/2025 | 15:45 | LB136898 |
| | Iron | 4950 | 5000 | 99 | 90 - 110 | P | 08/20/2025 | 15:45 | LB136898 |
| | Lead | 4900 | 5000 | 98 | 90 - 110 | P | 08/20/2025 | 15:45 | LB136898 |
| | Magnesium | 24100 | 25000 | 96 | 90 - 110 | P | 08/20/2025 | 15:45 | LB136898 |
| | Manganese | 2390 | 2500 | 96 | 90 - 110 | P | 08/20/2025 | 15:45 | LB136898 |
| | Nickel | 2470 | 2500 | 99 | 90 - 110 | P | 08/20/2025 | 15:45 | LB136898 |
| | Potassium | 24500 | 25000 | 98 | 90 - 110 | P | 08/20/2025 | 15:45 | LB136898 |
| | Selenium | 5050 | 5000 | 101 | 90 - 110 | P | 08/20/2025 | 15:45 | LB136898 |
| | Silver | 1260 | 1250 | 101 | 90 - 110 | P | 08/20/2025 | 15:45 | LB136898 |
| | Sodium | 22900 | 25000 | 92 | 90 - 110 | P | 08/20/2025 | 15:45 | LB136898 |
| | Thallium | 4780 | 5000 | 96 | 90 - 110 | P | 08/20/2025 | 15:45 | LB136898 |
| | Vanadium | 2440 | 2500 | 98 | 90 - 110 | P | 08/20/2025 | 15:45 | LB136898 |
| | Zinc | 2530 | 2500 | 101 | 90 - 110 | P | 08/20/2025 | 15:45 | LB136898 |
| CCV04 | Aluminum | 9870 | 10000 | 99 | 90 - 110 | P | 08/20/2025 | 16:35 | LB136898 |
| | Antimony | 5050 | 5000 | 101 | 90 - 110 | P | 08/20/2025 | 16:35 | LB136898 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV04 | Arsenic | 5050 | 5000 | 101 | 90 - 110 | P | 08/20/2025 | 16:35 | LB136898 |
| | Barium | 9770 | 10000 | 98 | 90 - 110 | P | 08/20/2025 | 16:35 | LB136898 |
| | Beryllium | 247 | 250 | 99 | 90 - 110 | P | 08/20/2025 | 16:35 | LB136898 |
| | Cadmium | 2480 | 2500 | 99 | 90 - 110 | P | 08/20/2025 | 16:35 | LB136898 |
| | Calcium | 24600 | 25000 | 98 | 90 - 110 | P | 08/20/2025 | 16:35 | LB136898 |
| | Chromium | 1010 | 1000 | 101 | 90 - 110 | P | 08/20/2025 | 16:35 | LB136898 |
| | Cobalt | 2480 | 2500 | 99 | 90 - 110 | P | 08/20/2025 | 16:35 | LB136898 |
| | Copper | 1260 | 1250 | 100 | 90 - 110 | P | 08/20/2025 | 16:35 | LB136898 |
| | Iron | 4980 | 5000 | 100 | 90 - 110 | P | 08/20/2025 | 16:35 | LB136898 |
| | Lead | 4930 | 5000 | 99 | 90 - 110 | P | 08/20/2025 | 16:35 | LB136898 |
| | Magnesium | 24500 | 25000 | 98 | 90 - 110 | P | 08/20/2025 | 16:35 | LB136898 |
| | Manganese | 2430 | 2500 | 97 | 90 - 110 | P | 08/20/2025 | 16:35 | LB136898 |
| | Nickel | 2480 | 2500 | 99 | 90 - 110 | P | 08/20/2025 | 16:35 | LB136898 |
| | Potassium | 24800 | 25000 | 99 | 90 - 110 | P | 08/20/2025 | 16:35 | LB136898 |
| | Selenium | 5090 | 5000 | 102 | 90 - 110 | P | 08/20/2025 | 16:35 | LB136898 |
| | Silver | 1250 | 1250 | 100 | 90 - 110 | P | 08/20/2025 | 16:35 | LB136898 |
| | Sodium | 23800 | 25000 | 95 | 90 - 110 | P | 08/20/2025 | 16:35 | LB136898 |
| | Thallium | 5150 | 5000 | 103 | 90 - 110 | P | 08/20/2025 | 16:35 | LB136898 |
| | Vanadium | 2470 | 2500 | 99 | 90 - 110 | P | 08/20/2025 | 16:35 | LB136898 |
| | Zinc | 2530 | 2500 | 101 | 90 - 110 | P | 08/20/2025 | 16:35 | LB136898 |
| CCV05 | Aluminum | 9860 | 10000 | 99 | 90 - 110 | P | 08/20/2025 | 17:09 | LB136898 |
| | Antimony | 4990 | 5000 | 100 | 90 - 110 | P | 08/20/2025 | 17:09 | LB136898 |
| | Arsenic | 4990 | 5000 | 100 | 90 - 110 | P | 08/20/2025 | 17:09 | LB136898 |
| | Barium | 9690 | 10000 | 97 | 90 - 110 | P | 08/20/2025 | 17:09 | LB136898 |
| | Beryllium | 251 | 250 | 101 | 90 - 110 | P | 08/20/2025 | 17:09 | LB136898 |
| | Cadmium | 2480 | 2500 | 99 | 90 - 110 | P | 08/20/2025 | 17:09 | LB136898 |
| | Calcium | 24500 | 25000 | 98 | 90 - 110 | P | 08/20/2025 | 17:09 | LB136898 |
| | Chromium | 1010 | 1000 | 102 | 90 - 110 | P | 08/20/2025 | 17:09 | LB136898 |
| | Cobalt | 2470 | 2500 | 99 | 90 - 110 | P | 08/20/2025 | 17:09 | LB136898 |
| | Copper | 1250 | 1250 | 100 | 90 - 110 | P | 08/20/2025 | 17:09 | LB136898 |
| | Iron | 4930 | 5000 | 98 | 90 - 110 | P | 08/20/2025 | 17:09 | LB136898 |
| | Lead | 4920 | 5000 | 98 | 90 - 110 | P | 08/20/2025 | 17:09 | LB136898 |
| | Magnesium | 24500 | 25000 | 98 | 90 - 110 | P | 08/20/2025 | 17:09 | LB136898 |
| | Manganese | 2420 | 2500 | 97 | 90 - 110 | P | 08/20/2025 | 17:09 | LB136898 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV05 | Nickel | 2480 | 2500 | 99 | 90 - 110 | P | 08/20/2025 | 17:09 | LB136898 |
| | Potassium | 24600 | 25000 | 98 | 90 - 110 | P | 08/20/2025 | 17:09 | LB136898 |
| | Selenium | 5020 | 5000 | 100 | 90 - 110 | P | 08/20/2025 | 17:09 | LB136898 |
| | Silver | 1250 | 1250 | 100 | 90 - 110 | P | 08/20/2025 | 17:09 | LB136898 |
| | Sodium | 23400 | 25000 | 94 | 90 - 110 | P | 08/20/2025 | 17:09 | LB136898 |
| | Thallium | 5030 | 5000 | 101 | 90 - 110 | P | 08/20/2025 | 17:09 | LB136898 |
| | Vanadium | 2460 | 2500 | 99 | 90 - 110 | P | 08/20/2025 | 17:09 | LB136898 |
| | Zinc | 2540 | 2500 | 102 | 90 - 110 | P | 08/20/2025 | 17:09 | LB136898 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICV01 | Aluminum | 7870 | 8000 | 98 | 90 - 110 | P | 08/21/2025 | 14:24 | LB136917 |
| | Antimony | 4050 | 4000 | 101 | 90 - 110 | P | 08/21/2025 | 14:24 | LB136917 |
| | Arsenic | 3870 | 4000 | 97 | 90 - 110 | P | 08/21/2025 | 14:24 | LB136917 |
| | Barium | 8020 | 8000 | 100 | 90 - 110 | P | 08/21/2025 | 14:24 | LB136917 |
| | Beryllium | 194 | 200 | 97 | 90 - 110 | P | 08/21/2025 | 14:24 | LB136917 |
| | Cadmium | 1910 | 2000 | 96 | 90 - 110 | P | 08/21/2025 | 14:24 | LB136917 |
| | Calcium | 19700 | 20000 | 98 | 90 - 110 | P | 08/21/2025 | 14:24 | LB136917 |
| | Chromium | 789 | 800 | 99 | 90 - 110 | P | 08/21/2025 | 14:24 | LB136917 |
| | Cobalt | 1950 | 2000 | 97 | 90 - 110 | P | 08/21/2025 | 14:24 | LB136917 |
| | Copper | 1000 | 1000 | 100 | 90 - 110 | P | 08/21/2025 | 14:24 | LB136917 |
| | Iron | 4100 | 4000 | 103 | 90 - 110 | P | 08/21/2025 | 14:24 | LB136917 |
| | Lead | 3760 | 4000 | 94 | 90 - 110 | P | 08/21/2025 | 14:24 | LB136917 |
| | Magnesium | 19600 | 20000 | 98 | 90 - 110 | P | 08/21/2025 | 14:24 | LB136917 |
| | Manganese | 2000 | 2000 | 100 | 90 - 110 | P | 08/21/2025 | 14:24 | LB136917 |
| | Nickel | 1940 | 2000 | 97 | 90 - 110 | P | 08/21/2025 | 14:24 | LB136917 |
| | Potassium | 20300 | 20000 | 102 | 90 - 110 | P | 08/21/2025 | 14:24 | LB136917 |
| | Selenium | 3900 | 4000 | 98 | 90 - 110 | P | 08/21/2025 | 14:24 | LB136917 |
| | Silver | 982 | 1000 | 98 | 90 - 110 | P | 08/21/2025 | 14:24 | LB136917 |
| | Sodium | 21000 | 20000 | 105 | 90 - 110 | P | 08/21/2025 | 14:24 | LB136917 |
| | Thallium | 3830 | 4000 | 96 | 90 - 110 | P | 08/21/2025 | 14:24 | LB136917 |
| | Vanadium | 2010 | 2000 | 100 | 90 - 110 | P | 08/21/2025 | 14:24 | LB136917 |
| | Zinc | 1980 | 2000 | 99 | 90 - 110 | P | 08/21/2025 | 14:24 | LB136917 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| LLICV01 | Aluminum | 107 | 100 | 107 | 80 - 120 | P | 08/21/2025 | 14:33 | LB136917 |
| | Antimony | 48.9 | 50.0 | 98 | 80 - 120 | P | 08/21/2025 | 14:33 | LB136917 |
| | Arsenic | 20.4 | 20.0 | 102 | 80 - 120 | P | 08/21/2025 | 14:33 | LB136917 |
| | Barium | 100 | 100 | 100 | 80 - 120 | P | 08/21/2025 | 14:33 | LB136917 |
| | Beryllium | 6.11 | 6.0 | 102 | 80 - 120 | P | 08/21/2025 | 14:33 | LB136917 |
| | Cadmium | 5.74 | 6.0 | 96 | 80 - 120 | P | 08/21/2025 | 14:33 | LB136917 |
| | Calcium | 2070 | 2000 | 103 | 80 - 120 | P | 08/21/2025 | 14:33 | LB136917 |
| | Chromium | 9.77 | 10.0 | 98 | 80 - 120 | P | 08/21/2025 | 14:33 | LB136917 |
| | Cobalt | 29.5 | 30.0 | 98 | 80 - 120 | P | 08/21/2025 | 14:33 | LB136917 |
| | Copper | 21.4 | 20.0 | 107 | 80 - 120 | P | 08/21/2025 | 14:33 | LB136917 |
| | Iron | 102 | 100 | 102 | 80 - 120 | P | 08/21/2025 | 14:33 | LB136917 |
| | Lead | 12.6 | 12.0 | 105 | 80 - 120 | P | 08/21/2025 | 14:33 | LB136917 |
| | Magnesium | 2180 | 2000 | 109 | 80 - 120 | P | 08/21/2025 | 14:33 | LB136917 |
| | Manganese | 22.3 | 20.0 | 111 | 80 - 120 | P | 08/21/2025 | 14:33 | LB136917 |
| | Nickel | 39.6 | 40.0 | 99 | 80 - 120 | P | 08/21/2025 | 14:33 | LB136917 |
| | Potassium | 1950 | 2000 | 98 | 80 - 120 | P | 08/21/2025 | 14:33 | LB136917 |
| | Selenium | 20.5 | 20.0 | 102 | 80 - 120 | P | 08/21/2025 | 14:33 | LB136917 |
| | Silver | 9.84 | 10.0 | 98 | 80 - 120 | P | 08/21/2025 | 14:33 | LB136917 |
| | Sodium | 2110 | 2000 | 105 | 80 - 120 | P | 08/21/2025 | 14:33 | LB136917 |
| | Thallium | 39.9 | 40.0 | 100 | 80 - 120 | P | 08/21/2025 | 14:33 | LB136917 |
| | Vanadium | 40.1 | 40.0 | 100 | 80 - 120 | P | 08/21/2025 | 14:33 | LB136917 |
| | Zinc | 41.4 | 40.0 | 104 | 80 - 120 | P | 08/21/2025 | 14:33 | LB136917 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV01 | Aluminum | 9890 | 10000 | 99 | 90 - 110 | P | 08/21/2025 | 15:03 | LB136917 |
| | Antimony | 4930 | 5000 | 99 | 90 - 110 | P | 08/21/2025 | 15:03 | LB136917 |
| | Arsenic | 4950 | 5000 | 99 | 90 - 110 | P | 08/21/2025 | 15:03 | LB136917 |
| | Barium | 9930 | 10000 | 99 | 90 - 110 | P | 08/21/2025 | 15:03 | LB136917 |
| | Beryllium | 244 | 250 | 98 | 90 - 110 | P | 08/21/2025 | 15:03 | LB136917 |
| | Cadmium | 2480 | 2500 | 99 | 90 - 110 | P | 08/21/2025 | 15:03 | LB136917 |
| | Calcium | 24800 | 25000 | 99 | 90 - 110 | P | 08/21/2025 | 15:03 | LB136917 |
| | Chromium | 994 | 1000 | 99 | 90 - 110 | P | 08/21/2025 | 15:03 | LB136917 |
| | Cobalt | 2470 | 2500 | 99 | 90 - 110 | P | 08/21/2025 | 15:03 | LB136917 |
| | Copper | 1250 | 1250 | 100 | 90 - 110 | P | 08/21/2025 | 15:03 | LB136917 |
| | Iron | 5000 | 5000 | 100 | 90 - 110 | P | 08/21/2025 | 15:03 | LB136917 |
| | Lead | 4910 | 5000 | 98 | 90 - 110 | P | 08/21/2025 | 15:03 | LB136917 |
| | Magnesium | 24600 | 25000 | 98 | 90 - 110 | P | 08/21/2025 | 15:03 | LB136917 |
| | Manganese | 2480 | 2500 | 99 | 90 - 110 | P | 08/21/2025 | 15:03 | LB136917 |
| | Nickel | 2470 | 2500 | 99 | 90 - 110 | P | 08/21/2025 | 15:03 | LB136917 |
| | Potassium | 24800 | 25000 | 99 | 90 - 110 | P | 08/21/2025 | 15:03 | LB136917 |
| | Selenium | 4960 | 5000 | 99 | 90 - 110 | P | 08/21/2025 | 15:03 | LB136917 |
| | Silver | 1240 | 1250 | 99 | 90 - 110 | P | 08/21/2025 | 15:03 | LB136917 |
| | Sodium | 25200 | 25000 | 101 | 90 - 110 | P | 08/21/2025 | 15:03 | LB136917 |
| | Thallium | 5160 | 5000 | 103 | 90 - 110 | P | 08/21/2025 | 15:03 | LB136917 |
| | Vanadium | 2470 | 2500 | 99 | 90 - 110 | P | 08/21/2025 | 15:03 | LB136917 |
| | Zinc | 2500 | 2500 | 100 | 90 - 110 | P | 08/21/2025 | 15:03 | LB136917 |
| CCV02 | Aluminum | 9950 | 10000 | 100 | 90 - 110 | P | 08/21/2025 | 16:23 | LB136917 |
| | Antimony | 5140 | 5000 | 103 | 90 - 110 | P | 08/21/2025 | 16:23 | LB136917 |
| | Arsenic | 5080 | 5000 | 102 | 90 - 110 | P | 08/21/2025 | 16:23 | LB136917 |
| | Barium | 10100 | 10000 | 101 | 90 - 110 | P | 08/21/2025 | 16:23 | LB136917 |
| | Beryllium | 232 | 250 | 93 | 90 - 110 | P | 08/21/2025 | 16:23 | LB136917 |
| | Cadmium | 2460 | 2500 | 98 | 90 - 110 | P | 08/21/2025 | 16:23 | LB136917 |
| | Calcium | 24900 | 25000 | 100 | 90 - 110 | P | 08/21/2025 | 16:23 | LB136917 |
| | Chromium | 984 | 1000 | 98 | 90 - 110 | P | 08/21/2025 | 16:23 | LB136917 |
| | Cobalt | 2480 | 2500 | 99 | 90 - 110 | P | 08/21/2025 | 16:23 | LB136917 |
| | Copper | 1260 | 1250 | 101 | 90 - 110 | P | 08/21/2025 | 16:23 | LB136917 |
| | Iron | 5300 | 5000 | 106 | 90 - 110 | P | 08/21/2025 | 16:23 | LB136917 |
| | Lead | 4890 | 5000 | 98 | 90 - 110 | P | 08/21/2025 | 16:23 | LB136917 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV02 | Magnesium | 24400 | 25000 | 98 | 90 - 110 | P | 08/21/2025 | 16:23 | LB136917 |
| | Manganese | 2510 | 2500 | 100 | 90 - 110 | P | 08/21/2025 | 16:23 | LB136917 |
| | Nickel | 2470 | 2500 | 99 | 90 - 110 | P | 08/21/2025 | 16:23 | LB136917 |
| | Potassium | 25400 | 25000 | 101 | 90 - 110 | P | 08/21/2025 | 16:23 | LB136917 |
| | Selenium | 5140 | 5000 | 103 | 90 - 110 | P | 08/21/2025 | 16:23 | LB136917 |
| | Silver | 1250 | 1250 | 100 | 90 - 110 | P | 08/21/2025 | 16:23 | LB136917 |
| | Sodium | 27100 | 25000 | 108 | 90 - 110 | P | 08/21/2025 | 16:23 | LB136917 |
| | Thallium | 5030 | 5000 | 100 | 90 - 110 | P | 08/21/2025 | 16:23 | LB136917 |
| | Vanadium | 2520 | 2500 | 101 | 90 - 110 | P | 08/21/2025 | 16:23 | LB136917 |
| | Zinc | 2530 | 2500 | 101 | 90 - 110 | P | 08/21/2025 | 16:23 | LB136917 |
| CCV03 | Aluminum | 9870 | 10000 | 99 | 90 - 110 | P | 08/21/2025 | 17:14 | LB136917 |
| | Antimony | 5070 | 5000 | 101 | 90 - 110 | P | 08/21/2025 | 17:14 | LB136917 |
| | Arsenic | 5040 | 5000 | 101 | 90 - 110 | P | 08/21/2025 | 17:14 | LB136917 |
| | Barium | 9820 | 10000 | 98 | 90 - 110 | P | 08/21/2025 | 17:14 | LB136917 |
| | Beryllium | 243 | 250 | 97 | 90 - 110 | P | 08/21/2025 | 17:14 | LB136917 |
| | Cadmium | 2490 | 2500 | 100 | 90 - 110 | P | 08/21/2025 | 17:14 | LB136917 |
| | Calcium | 24700 | 25000 | 99 | 90 - 110 | P | 08/21/2025 | 17:14 | LB136917 |
| | Chromium | 997 | 1000 | 100 | 90 - 110 | P | 08/21/2025 | 17:14 | LB136917 |
| | Cobalt | 2500 | 2500 | 100 | 90 - 110 | P | 08/21/2025 | 17:14 | LB136917 |
| | Copper | 1270 | 1250 | 101 | 90 - 110 | P | 08/21/2025 | 17:14 | LB136917 |
| | Iron | 5060 | 5000 | 101 | 90 - 110 | P | 08/21/2025 | 17:14 | LB136917 |
| | Lead | 4950 | 5000 | 99 | 90 - 110 | P | 08/21/2025 | 17:14 | LB136917 |
| | Magnesium | 24500 | 25000 | 98 | 90 - 110 | P | 08/21/2025 | 17:14 | LB136917 |
| | Manganese | 2470 | 2500 | 99 | 90 - 110 | P | 08/21/2025 | 17:14 | LB136917 |
| | Nickel | 2490 | 2500 | 100 | 90 - 110 | P | 08/21/2025 | 17:14 | LB136917 |
| | Potassium | 24100 | 25000 | 96 | 90 - 110 | P | 08/21/2025 | 17:14 | LB136917 |
| | Selenium | 5070 | 5000 | 101 | 90 - 110 | P | 08/21/2025 | 17:14 | LB136917 |
| | Silver | 1250 | 1250 | 100 | 90 - 110 | P | 08/21/2025 | 17:14 | LB136917 |
| | Sodium | 24200 | 25000 | 97 | 90 - 110 | P | 08/21/2025 | 17:14 | LB136917 |
| | Thallium | 4970 | 5000 | 99 | 90 - 110 | P | 08/21/2025 | 17:14 | LB136917 |
| | Vanadium | 2490 | 2500 | 100 | 90 - 110 | P | 08/21/2025 | 17:14 | LB136917 |
| | Zinc | 2520 | 2500 | 101 | 90 - 110 | P | 08/21/2025 | 17:14 | LB136917 |
| CCV04 | Aluminum | 10000 | 10000 | 100 | 90 - 110 | P | 08/21/2025 | 18:04 | LB136917 |
| | Antimony | 5070 | 5000 | 102 | 90 - 110 | P | 08/21/2025 | 18:04 | LB136917 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV04 | Arsenic | 5060 | 5000 | 101 | 90 - 110 | P | 08/21/2025 | 18:04 | LB136917 |
| | Barium | 10100 | 10000 | 101 | 90 - 110 | P | 08/21/2025 | 18:04 | LB136917 |
| | Beryllium | 246 | 250 | 99 | 90 - 110 | P | 08/21/2025 | 18:04 | LB136917 |
| | Cadmium | 2520 | 2500 | 101 | 90 - 110 | P | 08/21/2025 | 18:04 | LB136917 |
| | Calcium | 25300 | 25000 | 101 | 90 - 110 | P | 08/21/2025 | 18:04 | LB136917 |
| | Chromium | 1000 | 1000 | 100 | 90 - 110 | P | 08/21/2025 | 18:04 | LB136917 |
| | Cobalt | 2530 | 2500 | 101 | 90 - 110 | P | 08/21/2025 | 18:04 | LB136917 |
| | Copper | 1280 | 1250 | 102 | 90 - 110 | P | 08/21/2025 | 18:04 | LB136917 |
| | Iron | 5160 | 5000 | 103 | 90 - 110 | P | 08/21/2025 | 18:04 | LB136917 |
| | Lead | 5010 | 5000 | 100 | 90 - 110 | P | 08/21/2025 | 18:04 | LB136917 |
| | Magnesium | 24900 | 25000 | 100 | 90 - 110 | P | 08/21/2025 | 18:04 | LB136917 |
| | Manganese | 2540 | 2500 | 102 | 90 - 110 | P | 08/21/2025 | 18:04 | LB136917 |
| | Nickel | 2520 | 2500 | 101 | 90 - 110 | P | 08/21/2025 | 18:04 | LB136917 |
| | Potassium | 24700 | 25000 | 99 | 90 - 110 | P | 08/21/2025 | 18:04 | LB136917 |
| | Selenium | 5060 | 5000 | 101 | 90 - 110 | P | 08/21/2025 | 18:04 | LB136917 |
| | Silver | 1260 | 1250 | 101 | 90 - 110 | P | 08/21/2025 | 18:04 | LB136917 |
| | Sodium | 25200 | 25000 | 101 | 90 - 110 | P | 08/21/2025 | 18:04 | LB136917 |
| | Thallium | 4880 | 5000 | 98 | 90 - 110 | P | 08/21/2025 | 18:04 | LB136917 |
| | Vanadium | 2540 | 2500 | 102 | 90 - 110 | P | 08/21/2025 | 18:04 | LB136917 |
| | Zinc | 2550 | 2500 | 102 | 90 - 110 | P | 08/21/2025 | 18:04 | LB136917 |
| CCV05 | Aluminum | 9970 | 10000 | 100 | 90 - 110 | P | 08/21/2025 | 18:52 | LB136917 |
| | Antimony | 5050 | 5000 | 101 | 90 - 110 | P | 08/21/2025 | 18:52 | LB136917 |
| | Arsenic | 5040 | 5000 | 101 | 90 - 110 | P | 08/21/2025 | 18:52 | LB136917 |
| | Barium | 10100 | 10000 | 101 | 90 - 110 | P | 08/21/2025 | 18:52 | LB136917 |
| | Beryllium | 242 | 250 | 97 | 90 - 110 | P | 08/21/2025 | 18:52 | LB136917 |
| | Cadmium | 2500 | 2500 | 100 | 90 - 110 | P | 08/21/2025 | 18:52 | LB136917 |
| | Calcium | 25100 | 25000 | 100 | 90 - 110 | P | 08/21/2025 | 18:52 | LB136917 |
| | Chromium | 996 | 1000 | 100 | 90 - 110 | P | 08/21/2025 | 18:52 | LB136917 |
| | Cobalt | 2510 | 2500 | 100 | 90 - 110 | P | 08/21/2025 | 18:52 | LB136917 |
| | Copper | 1270 | 1250 | 101 | 90 - 110 | P | 08/21/2025 | 18:52 | LB136917 |
| | Iron | 5220 | 5000 | 104 | 90 - 110 | P | 08/21/2025 | 18:52 | LB136917 |
| | Lead | 4960 | 5000 | 99 | 90 - 110 | P | 08/21/2025 | 18:52 | LB136917 |
| | Magnesium | 24800 | 25000 | 99 | 90 - 110 | P | 08/21/2025 | 18:52 | LB136917 |
| | Manganese | 2530 | 2500 | 101 | 90 - 110 | P | 08/21/2025 | 18:52 | LB136917 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV05 | Nickel | 2500 | 2500 | 100 | 90 - 110 | P | 08/21/2025 | 18:52 | LB136917 |
| | Potassium | 24900 | 25000 | 100 | 90 - 110 | P | 08/21/2025 | 18:52 | LB136917 |
| | Selenium | 5070 | 5000 | 101 | 90 - 110 | P | 08/21/2025 | 18:52 | LB136917 |
| | Silver | 1250 | 1250 | 100 | 90 - 110 | P | 08/21/2025 | 18:52 | LB136917 |
| | Sodium | 25400 | 25000 | 102 | 90 - 110 | P | 08/21/2025 | 18:52 | LB136917 |
| | Thallium | 5070 | 5000 | 101 | 90 - 110 | P | 08/21/2025 | 18:52 | LB136917 |
| | Vanadium | 2520 | 2500 | 101 | 90 - 110 | P | 08/21/2025 | 18:52 | LB136917 |
| | Zinc | 2520 | 2500 | 101 | 90 - 110 | P | 08/21/2025 | 18:52 | LB136917 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 2b -
## CRDL STANDARD FOR AA & ICP

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Initial Calibration Source:**

**Continuing Calibration Source:**

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CRA | Mercury | 0.21 | 0.2 | 106 | 70 - 130 | CV | 08/12/2025 | 14:30 | LB136788 |
| CRI01 | Aluminum | 105 | 100 | 105 | 65 - 135 | P | 08/14/2025 | 12:23 | LB136837 |
| | Antimony | 52.8 | 50.0 | 106 | 65 - 135 | P | 08/14/2025 | 12:23 | LB136837 |
| | Arsenic | 21.1 | 20.0 | 105 | 65 - 135 | P | 08/14/2025 | 12:23 | LB136837 |
| | Barium | 96.4 | 100 | 96 | 65 - 135 | P | 08/14/2025 | 12:23 | LB136837 |
| | Beryllium | 6.27 | 6.0 | 104 | 65 - 135 | P | 08/14/2025 | 12:23 | LB136837 |
| | Cadmium | 5.92 | 6.0 | 99 | 65 - 135 | P | 08/14/2025 | 12:23 | LB136837 |
| | Calcium | 2070 | 2000 | 104 | 65 - 135 | P | 08/14/2025 | 12:23 | LB136837 |
| | Chromium | 10.4 | 10.0 | 104 | 65 - 135 | P | 08/14/2025 | 12:23 | LB136837 |
| | Cobalt | 29.9 | 30.0 | 100 | 65 - 135 | P | 08/14/2025 | 12:23 | LB136837 |
| | Copper | 21.4 | 20.0 | 107 | 65 - 135 | P | 08/14/2025 | 12:23 | LB136837 |
| | Iron | 106 | 100 | 106 | 65 - 135 | P | 08/14/2025 | 12:23 | LB136837 |
| | Lead | 12.4 | 12.0 | 103 | 65 - 135 | P | 08/14/2025 | 12:23 | LB136837 |
| | Magnesium | 2180 | 2000 | 109 | 65 - 135 | P | 08/14/2025 | 12:23 | LB136837 |
| | Manganese | 20.7 | 20.0 | 104 | 65 - 135 | P | 08/14/2025 | 12:23 | LB136837 |
| | Nickel | 40.2 | 40.0 | 100 | 65 - 135 | P | 08/14/2025 | 12:23 | LB136837 |
| | Potassium | 1930 | 2000 | 96 | 65 - 135 | P | 08/14/2025 | 12:23 | LB136837 |
| | Selenium | 17.9 | 20.0 | 89 | 65 - 135 | P | 08/14/2025 | 12:23 | LB136837 |
| | Silver | 11.0 | 10.0 | 110 | 65 - 135 | P | 08/14/2025 | 12:23 | LB136837 |
| | Sodium | 1830 | 2000 | 92 | 65 - 135 | P | 08/14/2025 | 12:23 | LB136837 |
| | Thallium | 41.3 | 40.0 | 103 | 65 - 135 | P | 08/14/2025 | 12:23 | LB136837 |
| | Vanadium | 36.7 | 40.0 | 92 | 65 - 135 | P | 08/14/2025 | 12:23 | LB136837 |
| | Zinc | 43.0 | 40.0 | 108 | 65 - 135 | P | 08/14/2025 | 12:23 | LB136837 |
| CRA | Mercury | 0.19 | 0.2 | 94 | 70 - 130 | CV | 08/15/2025 | 12:16 | LB136836 |
| CRI01 | Aluminum | 98.0 | 100 | 98 | 65 - 135 | P | 08/20/2025 | 13:26 | LB136898 |
| | Antimony | 50.6 | 50.0 | 101 | 65 - 135 | P | 08/20/2025 | 13:26 | LB136898 |
| | Arsenic | 21.4 | 20.0 | 107 | 65 - 135 | P | 08/20/2025 | 13:26 | LB136898 |
| | Barium | 98.2 | 100 | 98 | 65 - 135 | P | 08/20/2025 | 13:26 | LB136898 |
| | Beryllium | 6.30 | 6.0 | 105 | 65 - 135 | P | 08/20/2025 | 13:26 | LB136898 |
| | Cadmium | 5.72 | 6.0 | 95 | 65 - 135 | P | 08/20/2025 | 13:26 | LB136898 |
| | Calcium | 2050 | 2000 | 103 | 65 - 135 | P | 08/20/2025 | 13:26 | LB136898 |
| | Chromium | 9.89 | 10.0 | 99 | 65 - 135 | P | 08/20/2025 | 13:26 | LB136898 |
| | Cobalt | 29.1 | 30.0 | 97 | 65 - 135 | P | 08/20/2025 | 13:26 | LB136898 |
| | Copper | 20.9 | 20.0 | 104 | 65 - 135 | P | 08/20/2025 | 13:26 | LB136898 |
| | Iron | 95.2 | 100 | 95 | 65 - 135 | P | 08/20/2025 | 13:26 | LB136898 |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 2b -

## CRDL STANDARD FOR AA & ICP

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Initial Calibration Source:**

**Continuing Calibration Source:**

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CRI01 | Lead | 12.4 | 12.0 | 104 | 65 - 135 | P | 08/20/2025 | 13:26 | LB136898 |
| | Magnesium | 2160 | 2000 | 108 | 65 - 135 | P | 08/20/2025 | 13:26 | LB136898 |
| | Manganese | 21.9 | 20.0 | 109 | 65 - 135 | P | 08/20/2025 | 13:26 | LB136898 |
| | Nickel | 39.4 | 40.0 | 98 | 65 - 135 | P | 08/20/2025 | 13:26 | LB136898 |
| | Potassium | 1830 | 2000 | 92 | 65 - 135 | P | 08/20/2025 | 13:26 | LB136898 |
| | Selenium | 21.8 | 20.0 | 109 | 65 - 135 | P | 08/20/2025 | 13:26 | LB136898 |
| | Silver | 9.95 | 10.0 | 100 | 65 - 135 | P | 08/20/2025 | 13:26 | LB136898 |
| | Sodium | 1910 | 2000 | 96 | 65 - 135 | P | 08/20/2025 | 13:26 | LB136898 |
| | Thallium | 43.3 | 40.0 | 108 | 65 - 135 | P | 08/20/2025 | 13:26 | LB136898 |
| | Vanadium | 42.6 | 40.0 | 107 | 65 - 135 | P | 08/20/2025 | 13:26 | LB136898 |
| | Zinc | 41.5 | 40.0 | 104 | 65 - 135 | P | 08/20/2025 | 13:26 | LB136898 |
| CRI01 | Aluminum | 109 | 100 | 109 | 65 - 135 | P | 08/21/2025 | 14:41 | LB136917 |
| | Antimony | 49.0 | 50.0 | 98 | 65 - 135 | P | 08/21/2025 | 14:41 | LB136917 |
| | Arsenic | 20.9 | 20.0 | 105 | 65 - 135 | P | 08/21/2025 | 14:41 | LB136917 |
| | Barium | 98.6 | 100 | 99 | 65 - 135 | P | 08/21/2025 | 14:41 | LB136917 |
| | Beryllium | 6.07 | 6.0 | 101 | 65 - 135 | P | 08/21/2025 | 14:41 | LB136917 |
| | Cadmium | 5.66 | 6.0 | 94 | 65 - 135 | P | 08/21/2025 | 14:41 | LB136917 |
| | Calcium | 2050 | 2000 | 102 | 65 - 135 | P | 08/21/2025 | 14:41 | LB136917 |
| | Chromium | 9.92 | 10.0 | 99 | 65 - 135 | P | 08/21/2025 | 14:41 | LB136917 |
| | Cobalt | 29.2 | 30.0 | 98 | 65 - 135 | P | 08/21/2025 | 14:41 | LB136917 |
| | Copper | 21.3 | 20.0 | 106 | 65 - 135 | P | 08/21/2025 | 14:41 | LB136917 |
| | Iron | 101 | 100 | 101 | 65 - 135 | P | 08/21/2025 | 14:41 | LB136917 |
| | Lead | 12.3 | 12.0 | 103 | 65 - 135 | P | 08/21/2025 | 14:41 | LB136917 |
| | Magnesium | 2170 | 2000 | 109 | 65 - 135 | P | 08/21/2025 | 14:41 | LB136917 |
| | Manganese | 21.4 | 20.0 | 107 | 65 - 135 | P | 08/21/2025 | 14:41 | LB136917 |
| | Nickel | 39.2 | 40.0 | 98 | 65 - 135 | P | 08/21/2025 | 14:41 | LB136917 |
| | Potassium | 1900 | 2000 | 95 | 65 - 135 | P | 08/21/2025 | 14:41 | LB136917 |
| | Selenium | 19.8 | 20.0 | 99 | 65 - 135 | P | 08/21/2025 | 14:41 | LB136917 |
| | Silver | 9.88 | 10.0 | 99 | 65 - 135 | P | 08/21/2025 | 14:41 | LB136917 |
| | Sodium | 2030 | 2000 | 102 | 65 - 135 | P | 08/21/2025 | 14:41 | LB136917 |
| | Thallium | 41.5 | 40.0 | 104 | 65 - 135 | P | 08/21/2025 | 14:41 | LB136917 |
| | Vanadium | 40.6 | 40.0 | 102 | 65 - 135 | P | 08/21/2025 | 14:41 | LB136917 |
| | Zinc | 41.0 | 40.0 | 102 | 65 - 135 | P | 08/21/2025 | 14:41 | LB136917 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| **ICB10** | Mercury | 0.076 | +/-0.2 | U | 0.16 | 0.20 | CV | 08/12/2025 | 14:23 | LB136788 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| **CCB29** | Mercury | 0.076 | +/-0.2 | U | 0.16 | 0.20 | CV | 08/12/2025 | 14:28 | LB136788 |
| **CCB30** | Mercury | 0.076 | +/-0.2 | U | 0.16 | 0.20 | CV | 08/12/2025 | 14:59 | LB136788 |
| **CCB31** | Mercury | 0.076 | +/-0.2 | U | 0.16 | 0.20 | CV | 08/12/2025 | 15:26 | LB136788 |
| **CCB32** | Mercury | 0.076 | +/-0.2 | U | 0.16 | 0.20 | CV | 08/12/2025 | 15:38 | LB136788 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| **ICB18** | Mercury | 0.076 | +/-0.2 | U | 0.16 | 0.20 | CV | 08/15/2025 | 11:45 | LB136836 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| **CCB54** | Mercury | 0.076 | +/-0.2 | U | 0.16 | 0.20 | CV | 08/15/2025 | 12:13 | LB136836 |
| **CCB55** | Mercury | 0.076 | +/-0.2 | U | 0.16 | 0.20 | CV | 08/15/2025 | 12:41 | LB136836 |
| **CCB56** | Mercury | 0.076 | +/-0.2 | U | 0.16 | 0.20 | CV | 08/15/2025 | 13:11 | LB136836 |
| **CCB57** | Mercury | 0.076 | +/-0.2 | U | 0.16 | 0.20 | CV | 08/15/2025 | 13:18 | LB136836 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| ICB01 | Aluminum | 11.3 | +/-50 | U | 80.0 | 100 | P | 08/14/2025 | 12:13 | LB136837 |
| | Antimony | 6.76 | +/-25 | U | 12.5 | 50.0 | P | 08/14/2025 | 12:13 | LB136837 |
| | Arsenic | 5.12 | +/-10 | U | 15.0 | 20.0 | P | 08/14/2025 | 12:13 | LB136837 |
| | Barium | 14.6 | +/-50 | U | 25.0 | 100 | P | 08/14/2025 | 12:13 | LB136837 |
| | Beryllium | 0.56 | +/-3 | U | 1.50 | 6.00 | P | 08/14/2025 | 12:13 | LB136837 |
| | Cadmium | 0.50 | +/-3 | U | 1.50 | 6.00 | P | 08/14/2025 | 12:13 | LB136837 |
| | Calcium | 234 | +/-1000 | U | 500 | 2000 | P | 08/14/2025 | 12:13 | LB136837 |
| | Chromium | 2.12 | +/-5 | U | 5.00 | 10.0 | P | 08/14/2025 | 12:13 | LB136837 |
| | Cobalt | 2.26 | +/-15 | U | 7.50 | 30.0 | P | 08/14/2025 | 12:13 | LB136837 |
| | Copper | 4.60 | +/-10 | U | 16.0 | 20.0 | P | 08/14/2025 | 12:13 | LB136837 |
| | Iron | 23.4 | +/-50 | U | 80.0 | 100 | P | 08/14/2025 | 12:13 | LB136837 |
| | Lead | 2.30 | +/-6 | U | 9.60 | 12.0 | P | 08/14/2025 | 12:13 | LB136837 |
| | Magnesium | 244 | +/-1000 | U | 500 | 2000 | P | 08/14/2025 | 12:13 | LB136837 |
| | Manganese | 5.94 | +/-10 | U | 15.0 | 20.0 | P | 08/14/2025 | 12:13 | LB136837 |
| | Nickel | 3.06 | +/-20 | U | 10.0 | 40.0 | P | 08/14/2025 | 12:13 | LB136837 |
| | Potassium | 918 | +/-1000 | U | 1600 | 2000 | P | 08/14/2025 | 12:13 | LB136837 |
| | Selenium | 9.64 | +/-10 | U | 16.0 | 20.0 | P | 08/14/2025 | 12:13 | LB136837 |
| | Silver | 1.62 | +/-5 | U | 5.00 | 10.0 | P | 08/14/2025 | 12:13 | LB136837 |
| | Sodium | 868 | +/-1000 | U | 1000 | 2000 | P | 08/14/2025 | 12:13 | LB136837 |
| | Thallium | 4.38 | +/-20 | U | 20.0 | 40.0 | P | 08/14/2025 | 12:13 | LB136837 |
| | Vanadium | 6.26 | +/-20 | U | 20.0 | 40.0 | P | 08/14/2025 | 12:13 | LB136837 |
| | Zinc | 16.7 | +/-20 | U | 15.0 | 40.0 | P | 08/14/2025 | 12:13 | LB136837 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| CCB01 | Aluminum | 11.3 | +/-50 | U | 80.0 | 100 | P | 08/14/2025 | 12:54 | LB136837 |
| | Antimony | 6.76 | +/-25 | U | 12.5 | 50.0 | P | 08/14/2025 | 12:54 | LB136837 |
| | Arsenic | 5.12 | +/-10 | U | 15.0 | 20.0 | P | 08/14/2025 | 12:54 | LB136837 |
| | Barium | 14.6 | +/-50 | U | 25.0 | 100 | P | 08/14/2025 | 12:54 | LB136837 |
| | Beryllium | 0.56 | +/-3 | U | 1.50 | 6.00 | P | 08/14/2025 | 12:54 | LB136837 |
| | Cadmium | 0.50 | +/-3 | U | 1.50 | 6.00 | P | 08/14/2025 | 12:54 | LB136837 |
| | Calcium | 234 | +/-1000 | U | 500 | 2000 | P | 08/14/2025 | 12:54 | LB136837 |
| | Chromium | 2.12 | +/-5 | U | 5.00 | 10.0 | P | 08/14/2025 | 12:54 | LB136837 |
| | Cobalt | 2.26 | +/-15 | U | 7.50 | 30.0 | P | 08/14/2025 | 12:54 | LB136837 |
| | Copper | 4.60 | +/-10 | U | 16.0 | 20.0 | P | 08/14/2025 | 12:54 | LB136837 |
| | Iron | 23.4 | +/-50 | U | 80.0 | 100 | P | 08/14/2025 | 12:54 | LB136837 |
| | Lead | 2.30 | +/-6 | U | 9.60 | 12.0 | P | 08/14/2025 | 12:54 | LB136837 |
| | Magnesium | 244 | +/-1000 | U | 500 | 2000 | P | 08/14/2025 | 12:54 | LB136837 |
| | Manganese | 5.94 | +/-10 | U | 15.0 | 20.0 | P | 08/14/2025 | 12:54 | LB136837 |
| | Nickel | 3.06 | +/-20 | U | 10.0 | 40.0 | P | 08/14/2025 | 12:54 | LB136837 |
| | Potassium | 918 | +/-1000 | U | 1600 | 2000 | P | 08/14/2025 | 12:54 | LB136837 |
| | Selenium | 9.64 | +/-10 | U | 16.0 | 20.0 | P | 08/14/2025 | 12:54 | LB136837 |
| | Silver | 1.62 | +/-5 | U | 5.00 | 10.0 | P | 08/14/2025 | 12:54 | LB136837 |
| | Sodium | 868 | +/-1000 | U | 1000 | 2000 | P | 08/14/2025 | 12:54 | LB136837 |
| | Thallium | 4.38 | +/-20 | U | 20.0 | 40.0 | P | 08/14/2025 | 12:54 | LB136837 |
| | Vanadium | 6.26 | +/-20 | U | 20.0 | 40.0 | P | 08/14/2025 | 12:54 | LB136837 |
| | Zinc | 16.7 | +/-20 | U | 15.0 | 40.0 | P | 08/14/2025 | 12:54 | LB136837 |
| CCB02 | Aluminum | 11.3 | +/-50 | U | 80.0 | 100 | P | 08/14/2025 | 13:46 | LB136837 |
| | Antimony | 6.76 | +/-25 | U | 12.5 | 50.0 | P | 08/14/2025 | 13:46 | LB136837 |
| | Arsenic | 5.12 | +/-10 | U | 15.0 | 20.0 | P | 08/14/2025 | 13:46 | LB136837 |
| | Barium | 14.6 | +/-50 | U | 25.0 | 100 | P | 08/14/2025 | 13:46 | LB136837 |
| | Beryllium | 0.56 | +/-3 | U | 1.50 | 6.00 | P | 08/14/2025 | 13:46 | LB136837 |
| | Cadmium | 0.50 | +/-3 | U | 1.50 | 6.00 | P | 08/14/2025 | 13:46 | LB136837 |
| | Calcium | 234 | +/-1000 | U | 500 | 2000 | P | 08/14/2025 | 13:46 | LB136837 |
| | Chromium | 2.12 | +/-5 | U | 5.00 | 10.0 | P | 08/14/2025 | 13:46 | LB136837 |
| | Cobalt | 2.26 | +/-15 | U | 7.50 | 30.0 | P | 08/14/2025 | 13:46 | LB136837 |
| | Copper | 4.60 | +/-10 | U | 16.0 | 20.0 | P | 08/14/2025 | 13:46 | LB136837 |
| | Iron | 23.4 | +/-50 | U | 80.0 | 100 | P | 08/14/2025 | 13:46 | LB136837 |
| | Lead | 2.30 | +/-6 | U | 9.60 | 12.0 | P | 08/14/2025 | 13:46 | LB136837 |
| | Magnesium | 244 | +/-1000 | U | 500 | 2000 | P | 08/14/2025 | 13:46 | LB136837 |
| | Manganese | 5.94 | +/-10 | U | 15.0 | 20.0 | P | 08/14/2025 | 13:46 | LB136837 |
| | Nickel | 3.06 | +/-20 | U | 10.0 | 40.0 | P | 08/14/2025 | 13:46 | LB136837 |
| | Potassium | 918 | +/-1000 | U | 1600 | 2000 | P | 08/14/2025 | 13:46 | LB136837 |
| | Selenium | 9.64 | +/-10 | U | 16.0 | 20.0 | P | 08/14/2025 | 13:46 | LB136837 |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| **CCB02** | Silver | 1.62 | +/-5 | U | 5.00 | 10.0 | P | 08/14/2025 | 13:46 | LB136837 |
| | Sodium | 868 | +/-1000 | U | 1000 | 2000 | P | 08/14/2025 | 13:46 | LB136837 |
| | Thallium | 4.38 | +/-20 | U | 20.0 | 40.0 | P | 08/14/2025 | 13:46 | LB136837 |
| | Vanadium | 6.26 | +/-20 | U | 20.0 | 40.0 | P | 08/14/2025 | 13:46 | LB136837 |
| | Zinc | 16.7 | +/-20 | U | 15.0 | 40.0 | P | 08/14/2025 | 13:46 | LB136837 |
| **CCB03** | Aluminum | 11.3 | +/-50 | U | 80.0 | 100 | P | 08/14/2025 | 14:45 | LB136837 |
| | Antimony | 6.76 | +/-25 | U | 12.5 | 50.0 | P | 08/14/2025 | 14:45 | LB136837 |
| | Arsenic | 5.12 | +/-10 | U | 15.0 | 20.0 | P | 08/14/2025 | 14:45 | LB136837 |
| | Barium | 14.6 | +/-50 | U | 25.0 | 100 | P | 08/14/2025 | 14:45 | LB136837 |
| | Beryllium | 0.56 | +/-3 | U | 1.50 | 6.00 | P | 08/14/2025 | 14:45 | LB136837 |
| | Cadmium | 0.50 | +/-3 | U | 1.50 | 6.00 | P | 08/14/2025 | 14:45 | LB136837 |
| | Calcium | 234 | +/-1000 | U | 500 | 2000 | P | 08/14/2025 | 14:45 | LB136837 |
| | Chromium | 2.12 | +/-5 | U | 5.00 | 10.0 | P | 08/14/2025 | 14:45 | LB136837 |
| | Cobalt | 2.26 | +/-15 | U | 7.50 | 30.0 | P | 08/14/2025 | 14:45 | LB136837 |
| | Copper | 4.60 | +/-10 | U | 16.0 | 20.0 | P | 08/14/2025 | 14:45 | LB136837 |
| | Iron | 23.4 | +/-50 | U | 80.0 | 100 | P | 08/14/2025 | 14:45 | LB136837 |
| | Lead | 2.30 | +/-6 | U | 9.60 | 12.0 | P | 08/14/2025 | 14:45 | LB136837 |
| | Magnesium | 244 | +/-1000 | U | 500 | 2000 | P | 08/14/2025 | 14:45 | LB136837 |
| | Manganese | 5.94 | +/-10 | U | 15.0 | 20.0 | P | 08/14/2025 | 14:45 | LB136837 |
| | Nickel | 3.06 | +/-20 | U | 10.0 | 40.0 | P | 08/14/2025 | 14:45 | LB136837 |
| | Potassium | 918 | +/-1000 | U | 1600 | 2000 | P | 08/14/2025 | 14:45 | LB136837 |
| | Selenium | 9.64 | +/-10 | U | 16.0 | 20.0 | P | 08/14/2025 | 14:45 | LB136837 |
| | Silver | 1.62 | +/-5 | U | 5.00 | 10.0 | P | 08/14/2025 | 14:45 | LB136837 |
| | Sodium | 868 | +/-1000 | U | 1000 | 2000 | P | 08/14/2025 | 14:45 | LB136837 |
| | Thallium | 4.38 | +/-20 | U | 20.0 | 40.0 | P | 08/14/2025 | 14:45 | LB136837 |
| | Vanadium | 6.26 | +/-20 | U | 20.0 | 40.0 | P | 08/14/2025 | 14:45 | LB136837 |
| | Zinc | 16.7 | +/-20 | U | 15.0 | 40.0 | P | 08/14/2025 | 14:45 | LB136837 |
| **CCB04** | Aluminum | 11.3 | +/-50 | U | 80.0 | 100 | P | 08/14/2025 | 16:02 | LB136837 |
| | Antimony | 6.76 | +/-25 | U | 12.5 | 50.0 | P | 08/14/2025 | 16:02 | LB136837 |
| | Arsenic | 5.12 | +/-10 | U | 15.0 | 20.0 | P | 08/14/2025 | 16:02 | LB136837 |
| | Barium | 14.6 | +/-50 | U | 25.0 | 100 | P | 08/14/2025 | 16:02 | LB136837 |
| | Beryllium | 0.56 | +/-3 | U | 1.50 | 6.00 | P | 08/14/2025 | 16:02 | LB136837 |
| | Cadmium | 0.50 | +/-3 | U | 1.50 | 6.00 | P | 08/14/2025 | 16:02 | LB136837 |
| | Calcium | 234 | +/-1000 | U | 500 | 2000 | P | 08/14/2025 | 16:02 | LB136837 |
| | Chromium | 2.12 | +/-5 | U | 5.00 | 10.0 | P | 08/14/2025 | 16:02 | LB136837 |
| | Cobalt | 2.26 | +/-15 | U | 7.50 | 30.0 | P | 08/14/2025 | 16:02 | LB136837 |
| | Copper | 4.60 | +/-10 | U | 16.0 | 20.0 | P | 08/14/2025 | 16:02 | LB136837 |
| | Iron | 23.4 | +/-50 | U | 80.0 | 100 | P | 08/14/2025 | 16:02 | LB136837 |
| | Lead | 2.30 | +/-6 | U | 9.60 | 12.0 | P | 08/14/2025 | 16:02 | LB136837 |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| CCB04 | Magnesium | 244 | +/-1000 | U | 500 | 2000 | P | 08/14/2025 | 16:02 | LB136837 |
| | Manganese | 5.94 | +/-10 | U | 15.0 | 20.0 | P | 08/14/2025 | 16:02 | LB136837 |
| | Nickel | 3.06 | +/-20 | U | 10.0 | 40.0 | P | 08/14/2025 | 16:02 | LB136837 |
| | Potassium | 918 | +/-1000 | U | 1600 | 2000 | P | 08/14/2025 | 16:02 | LB136837 |
| | Selenium | 9.64 | +/-10 | U | 16.0 | 20.0 | P | 08/14/2025 | 16:02 | LB136837 |
| | Silver | 1.62 | +/-5 | U | 5.00 | 10.0 | P | 08/14/2025 | 16:02 | LB136837 |
| | Sodium | 868 | +/-1000 | U | 1000 | 2000 | P | 08/14/2025 | 16:02 | LB136837 |
| | Thallium | 4.38 | +/-20 | U | 20.0 | 40.0 | P | 08/14/2025 | 16:02 | LB136837 |
| | Vanadium | 6.26 | +/-20 | U | 20.0 | 40.0 | P | 08/14/2025 | 16:02 | LB136837 |
| | Zinc | 16.7 | +/-20 | U | 15.0 | 40.0 | P | 08/14/2025 | 16:02 | LB136837 |
| CCB05 | Aluminum | 11.3 | +/-50 | U | 80.0 | 100 | P | 08/14/2025 | 17:00 | LB136837 |
| | Antimony | 6.76 | +/-25 | U | 12.5 | 50.0 | P | 08/14/2025 | 17:00 | LB136837 |
| | Arsenic | 5.12 | +/-10 | U | 15.0 | 20.0 | P | 08/14/2025 | 17:00 | LB136837 |
| | Barium | 14.6 | +/-50 | U | 25.0 | 100 | P | 08/14/2025 | 17:00 | LB136837 |
| | Beryllium | 0.56 | +/-3 | U | 1.50 | 6.00 | P | 08/14/2025 | 17:00 | LB136837 |
| | Cadmium | 0.50 | +/-3 | U | 1.50 | 6.00 | P | 08/14/2025 | 17:00 | LB136837 |
| | Calcium | 234 | +/-1000 | U | 500 | 2000 | P | 08/14/2025 | 17:00 | LB136837 |
| | Chromium | 2.12 | +/-5 | U | 5.00 | 10.0 | P | 08/14/2025 | 17:00 | LB136837 |
| | Cobalt | 2.26 | +/-15 | U | 7.50 | 30.0 | P | 08/14/2025 | 17:00 | LB136837 |
| | Copper | 4.60 | +/-10 | U | 16.0 | 20.0 | P | 08/14/2025 | 17:00 | LB136837 |
| | Iron | 23.4 | +/-50 | U | 80.0 | 100 | P | 08/14/2025 | 17:00 | LB136837 |
| | Lead | 2.30 | +/-6 | U | 9.60 | 12.0 | P | 08/14/2025 | 17:00 | LB136837 |
| | Magnesium | 244 | +/-1000 | U | 500 | 2000 | P | 08/14/2025 | 17:00 | LB136837 |
| | Manganese | 5.94 | +/-10 | U | 15.0 | 20.0 | P | 08/14/2025 | 17:00 | LB136837 |
| | Nickel | 3.06 | +/-20 | U | 10.0 | 40.0 | P | 08/14/2025 | 17:00 | LB136837 |
| | Potassium | 918 | +/-1000 | U | 1600 | 2000 | P | 08/14/2025 | 17:00 | LB136837 |
| | Selenium | 9.64 | +/-10 | U | 16.0 | 20.0 | P | 08/14/2025 | 17:00 | LB136837 |
| | Silver | 1.62 | +/-5 | U | 5.00 | 10.0 | P | 08/14/2025 | 17:00 | LB136837 |
| | Sodium | 868 | +/-1000 | U | 1000 | 2000 | P | 08/14/2025 | 17:00 | LB136837 |
| | Thallium | 4.38 | +/-20 | U | 20.0 | 40.0 | P | 08/14/2025 | 17:00 | LB136837 |
| | Vanadium | 6.26 | +/-20 | U | 20.0 | 40.0 | P | 08/14/2025 | 17:00 | LB136837 |
| | Zinc | 16.7 | +/-20 | U | 15.0 | 40.0 | P | 08/14/2025 | 17:00 | LB136837 |
| CCB06 | Aluminum | 11.3 | +/-50 | U | 80.0 | 100 | P | 08/14/2025 | 18:05 | LB136837 |
| | Antimony | 6.76 | +/-25 | U | 12.5 | 50.0 | P | 08/14/2025 | 18:05 | LB136837 |
| | Arsenic | 5.12 | +/-10 | U | 15.0 | 20.0 | P | 08/14/2025 | 18:05 | LB136837 |
| | Barium | 14.6 | +/-50 | U | 25.0 | 100 | P | 08/14/2025 | 18:05 | LB136837 |
| | Beryllium | 0.56 | +/-3 | U | 1.50 | 6.00 | P | 08/14/2025 | 18:05 | LB136837 |
| | Cadmium | 0.50 | +/-3 | U | 1.50 | 6.00 | P | 08/14/2025 | 18:05 | LB136837 |
| | Calcium | 234 | +/-1000 | U | 500 | 2000 | P | 08/14/2025 | 18:05 | LB136837 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| CCB06 | Chromium | 2.12 | +/-5 | U | 5.00 | 10.0 | P | 08/14/2025 | 18:05 | LB136837 |
| | Cobalt | 2.26 | +/-15 | U | 7.50 | 30.0 | P | 08/14/2025 | 18:05 | LB136837 |
| | Copper | 4.60 | +/-10 | U | 16.0 | 20.0 | P | 08/14/2025 | 18:05 | LB136837 |
| | Iron | 23.4 | +/-50 | U | 80.0 | 100 | P | 08/14/2025 | 18:05 | LB136837 |
| | Lead | 2.30 | +/-6 | U | 9.60 | 12.0 | P | 08/14/2025 | 18:05 | LB136837 |
| | Magnesium | 244 | +/-1000 | U | 500 | 2000 | P | 08/14/2025 | 18:05 | LB136837 |
| | Manganese | 5.94 | +/-10 | U | 15.0 | 20.0 | P | 08/14/2025 | 18:05 | LB136837 |
| | Nickel | 3.06 | +/-20 | U | 10.0 | 40.0 | P | 08/14/2025 | 18:05 | LB136837 |
| | Potassium | 918 | +/-1000 | U | 1600 | 2000 | P | 08/14/2025 | 18:05 | LB136837 |
| | Selenium | 9.64 | +/-10 | U | 16.0 | 20.0 | P | 08/14/2025 | 18:05 | LB136837 |
| | Silver | 1.62 | +/-5 | U | 5.00 | 10.0 | P | 08/14/2025 | 18:05 | LB136837 |
| | Sodium | 868 | +/-1000 | U | 1000 | 2000 | P | 08/14/2025 | 18:05 | LB136837 |
| | Thallium | 4.38 | +/-20 | U | 20.0 | 40.0 | P | 08/14/2025 | 18:05 | LB136837 |
| | Vanadium | 6.26 | +/-20 | U | 20.0 | 40.0 | P | 08/14/2025 | 18:05 | LB136837 |
| | Zinc | 16.7 | +/-20 | U | 15.0 | 40.0 | P | 08/14/2025 | 18:05 | LB136837 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| ICB01 | Aluminum | 11.3 | +/-50 | U | 80.0 | 100 | P | 08/20/2025 | 13:21 | LB136898 |
| | Antimony | 6.76 | +/-25 | U | 12.5 | 50.0 | P | 08/20/2025 | 13:21 | LB136898 |
| | Arsenic | 5.12 | +/-10 | U | 15.0 | 20.0 | P | 08/20/2025 | 13:21 | LB136898 |
| | Barium | 14.6 | +/-50 | U | 25.0 | 100 | P | 08/20/2025 | 13:21 | LB136898 |
| | Beryllium | 0.56 | +/-3 | U | 1.50 | 6.00 | P | 08/20/2025 | 13:21 | LB136898 |
| | Cadmium | 0.50 | +/-3 | U | 1.50 | 6.00 | P | 08/20/2025 | 13:21 | LB136898 |
| | Calcium | 234 | +/-1000 | U | 500 | 2000 | P | 08/20/2025 | 13:21 | LB136898 |
| | Chromium | 2.12 | +/-5 | U | 5.00 | 10.0 | P | 08/20/2025 | 13:21 | LB136898 |
| | Cobalt | 2.26 | +/-15 | U | 7.50 | 30.0 | P | 08/20/2025 | 13:21 | LB136898 |
| | Copper | 4.60 | +/-10 | U | 16.0 | 20.0 | P | 08/20/2025 | 13:21 | LB136898 |
| | Iron | 23.4 | +/-50 | U | 80.0 | 100 | P | 08/20/2025 | 13:21 | LB136898 |
| | Lead | 2.30 | +/-6 | U | 9.60 | 12.0 | P | 08/20/2025 | 13:21 | LB136898 |
| | Magnesium | 244 | +/-1000 | U | 500 | 2000 | P | 08/20/2025 | 13:21 | LB136898 |
| | Manganese | 5.94 | +/-10 | U | 15.0 | 20.0 | P | 08/20/2025 | 13:21 | LB136898 |
| | Nickel | 3.06 | +/-20 | U | 10.0 | 40.0 | P | 08/20/2025 | 13:21 | LB136898 |
| | Potassium | 918 | +/-1000 | U | 1600 | 2000 | P | 08/20/2025 | 13:21 | LB136898 |
| | Selenium | 9.64 | +/-10 | U | 16.0 | 20.0 | P | 08/20/2025 | 13:21 | LB136898 |
| | Silver | 1.62 | +/-5 | U | 5.00 | 10.0 | P | 08/20/2025 | 13:21 | LB136898 |
| | Sodium | 868 | +/-1000 | U | 1000 | 2000 | P | 08/20/2025 | 13:21 | LB136898 |
| | Thallium | 4.38 | +/-20 | U | 20.0 | 40.0 | P | 08/20/2025 | 13:21 | LB136898 |
| | Vanadium | 6.26 | +/-20 | U | 20.0 | 40.0 | P | 08/20/2025 | 13:21 | LB136898 |
| | Zinc | 16.7 | +/-20 | U | 15.0 | 40.0 | P | 08/20/2025 | 13:21 | LB136898 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| CCB01 | Aluminum | 11.3 | +/-50 | U | 80.0 | 100 | P | 08/20/2025 | 13:51 | LB136898 |
| | Antimony | 6.76 | +/-25 | U | 12.5 | 50.0 | P | 08/20/2025 | 13:51 | LB136898 |
| | Arsenic | 5.12 | +/-10 | U | 15.0 | 20.0 | P | 08/20/2025 | 13:51 | LB136898 |
| | Barium | 14.6 | +/-50 | U | 25.0 | 100 | P | 08/20/2025 | 13:51 | LB136898 |
| | Beryllium | 0.56 | +/-3 | U | 1.50 | 6.00 | P | 08/20/2025 | 13:51 | LB136898 |
| | Cadmium | 0.50 | +/-3 | U | 1.50 | 6.00 | P | 08/20/2025 | 13:51 | LB136898 |
| | Calcium | 234 | +/-1000 | U | 500 | 2000 | P | 08/20/2025 | 13:51 | LB136898 |
| | Chromium | 2.12 | +/-5 | U | 5.00 | 10.0 | P | 08/20/2025 | 13:51 | LB136898 |
| | Cobalt | 2.26 | +/-15 | U | 7.50 | 30.0 | P | 08/20/2025 | 13:51 | LB136898 |
| | Copper | 4.60 | +/-10 | U | 16.0 | 20.0 | P | 08/20/2025 | 13:51 | LB136898 |
| | Iron | 23.4 | +/-50 | U | 80.0 | 100 | P | 08/20/2025 | 13:51 | LB136898 |
| | Lead | 2.30 | +/-6 | U | 9.60 | 12.0 | P | 08/20/2025 | 13:51 | LB136898 |
| | Magnesium | 244 | +/-1000 | U | 500 | 2000 | P | 08/20/2025 | 13:51 | LB136898 |
| | Manganese | 5.94 | +/-10 | U | 15.0 | 20.0 | P | 08/20/2025 | 13:51 | LB136898 |
| | Nickel | 3.06 | +/-20 | U | 10.0 | 40.0 | P | 08/20/2025 | 13:51 | LB136898 |
| | Potassium | 918 | +/-1000 | U | 1600 | 2000 | P | 08/20/2025 | 13:51 | LB136898 |
| | Selenium | 9.64 | +/-10 | U | 16.0 | 20.0 | P | 08/20/2025 | 13:51 | LB136898 |
| | Silver | 1.62 | +/-5 | U | 5.00 | 10.0 | P | 08/20/2025 | 13:51 | LB136898 |
| | Sodium | 868 | +/-1000 | U | 1000 | 2000 | P | 08/20/2025 | 13:51 | LB136898 |
| | Thallium | 4.38 | +/-20 | U | 20.0 | 40.0 | P | 08/20/2025 | 13:51 | LB136898 |
| | Vanadium | 6.26 | +/-20 | U | 20.0 | 40.0 | P | 08/20/2025 | 13:51 | LB136898 |
| | Zinc | 16.7 | +/-20 | U | 15.0 | 40.0 | P | 08/20/2025 | 13:51 | LB136898 |
| CCB02 | Aluminum | 11.3 | +/-50 | U | 80.0 | 100 | P | 08/20/2025 | 14:43 | LB136898 |
| | Antimony | 6.76 | +/-25 | U | 12.5 | 50.0 | P | 08/20/2025 | 14:43 | LB136898 |
| | Arsenic | 5.12 | +/-10 | U | 15.0 | 20.0 | P | 08/20/2025 | 14:43 | LB136898 |
| | Barium | 14.6 | +/-50 | U | 25.0 | 100 | P | 08/20/2025 | 14:43 | LB136898 |
| | Beryllium | 0.56 | +/-3 | U | 1.50 | 6.00 | P | 08/20/2025 | 14:43 | LB136898 |
| | Cadmium | 0.50 | +/-3 | U | 1.50 | 6.00 | P | 08/20/2025 | 14:43 | LB136898 |
| | Calcium | 234 | +/-1000 | U | 500 | 2000 | P | 08/20/2025 | 14:43 | LB136898 |
| | Chromium | 2.12 | +/-5 | U | 5.00 | 10.0 | P | 08/20/2025 | 14:43 | LB136898 |
| | Cobalt | 2.26 | +/-15 | U | 7.50 | 30.0 | P | 08/20/2025 | 14:43 | LB136898 |
| | Copper | 4.60 | +/-10 | U | 16.0 | 20.0 | P | 08/20/2025 | 14:43 | LB136898 |
| | Iron | 23.4 | +/-50 | U | 80.0 | 100 | P | 08/20/2025 | 14:43 | LB136898 |
| | Lead | 2.30 | +/-6 | U | 9.60 | 12.0 | P | 08/20/2025 | 14:43 | LB136898 |
| | Magnesium | 244 | +/-1000 | U | 500 | 2000 | P | 08/20/2025 | 14:43 | LB136898 |
| | Manganese | 5.94 | +/-10 | U | 15.0 | 20.0 | P | 08/20/2025 | 14:43 | LB136898 |
| | Nickel | 3.06 | +/-20 | U | 10.0 | 40.0 | P | 08/20/2025 | 14:43 | LB136898 |
| | Potassium | 918 | +/-1000 | U | 1600 | 2000 | P | 08/20/2025 | 14:43 | LB136898 |
| | Selenium | 9.64 | +/-10 | U | 16.0 | 20.0 | P | 08/20/2025 | 14:43 | LB136898 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| CCB02 | Silver | 1.62 | +/-5 | U | 5.00 | 10.0 | P | 08/20/2025 | 14:43 | LB136898 |
| | Sodium | 868 | +/-1000 | U | 1000 | 2000 | P | 08/20/2025 | 14:43 | LB136898 |
| | Thallium | 4.38 | +/-20 | U | 20.0 | 40.0 | P | 08/20/2025 | 14:43 | LB136898 |
| | Vanadium | 6.26 | +/-20 | U | 20.0 | 40.0 | P | 08/20/2025 | 14:43 | LB136898 |
| | Zinc | 16.7 | +/-20 | U | 15.0 | 40.0 | P | 08/20/2025 | 14:43 | LB136898 |
| CCB03 | Aluminum | 11.3 | +/-50 | U | 80.0 | 100 | P | 08/20/2025 | 15:49 | LB136898 |
| | Antimony | 6.76 | +/-25 | U | 12.5 | 50.0 | P | 08/20/2025 | 15:49 | LB136898 |
| | Arsenic | 5.12 | +/-10 | U | 15.0 | 20.0 | P | 08/20/2025 | 15:49 | LB136898 |
| | Barium | 14.6 | +/-50 | U | 25.0 | 100 | P | 08/20/2025 | 15:49 | LB136898 |
| | Beryllium | 0.56 | +/-3 | U | 1.50 | 6.00 | P | 08/20/2025 | 15:49 | LB136898 |
| | Cadmium | 0.50 | +/-3 | U | 1.50 | 6.00 | P | 08/20/2025 | 15:49 | LB136898 |
| | Calcium | 234 | +/-1000 | U | 500 | 2000 | P | 08/20/2025 | 15:49 | LB136898 |
| | Chromium | 2.12 | +/-5 | U | 5.00 | 10.0 | P | 08/20/2025 | 15:49 | LB136898 |
| | Cobalt | 2.26 | +/-15 | U | 7.50 | 30.0 | P | 08/20/2025 | 15:49 | LB136898 |
| | Copper | 4.60 | +/-10 | U | 16.0 | 20.0 | P | 08/20/2025 | 15:49 | LB136898 |
| | Iron | 23.4 | +/-50 | U | 80.0 | 100 | P | 08/20/2025 | 15:49 | LB136898 |
| | Lead | 2.30 | +/-6 | U | 9.60 | 12.0 | P | 08/20/2025 | 15:49 | LB136898 |
| | Magnesium | 244 | +/-1000 | U | 500 | 2000 | P | 08/20/2025 | 15:49 | LB136898 |
| | Manganese | 5.94 | +/-10 | U | 15.0 | 20.0 | P | 08/20/2025 | 15:49 | LB136898 |
| | Nickel | 3.06 | +/-20 | U | 10.0 | 40.0 | P | 08/20/2025 | 15:49 | LB136898 |
| | Potassium | 918 | +/-1000 | U | 1600 | 2000 | P | 08/20/2025 | 15:49 | LB136898 |
| | Selenium | 9.64 | +/-10 | U | 16.0 | 20.0 | P | 08/20/2025 | 15:49 | LB136898 |
| | Silver | 1.62 | +/-5 | U | 5.00 | 10.0 | P | 08/20/2025 | 15:49 | LB136898 |
| | Sodium | 868 | +/-1000 | U | 1000 | 2000 | P | 08/20/2025 | 15:49 | LB136898 |
| | Thallium | 4.38 | +/-20 | U | 20.0 | 40.0 | P | 08/20/2025 | 15:49 | LB136898 |
| | Vanadium | 6.26 | +/-20 | U | 20.0 | 40.0 | P | 08/20/2025 | 15:49 | LB136898 |
| | Zinc | 16.7 | +/-20 | U | 15.0 | 40.0 | P | 08/20/2025 | 15:49 | LB136898 |
| CCB04 | Aluminum | 11.3 | +/-50 | U | 80.0 | 100 | P | 08/20/2025 | 16:39 | LB136898 |
| | Antimony | 6.76 | +/-25 | U | 12.5 | 50.0 | P | 08/20/2025 | 16:39 | LB136898 |
| | Arsenic | 5.12 | +/-10 | U | 15.0 | 20.0 | P | 08/20/2025 | 16:39 | LB136898 |
| | Barium | 14.6 | +/-50 | U | 25.0 | 100 | P | 08/20/2025 | 16:39 | LB136898 |
| | Beryllium | 0.56 | +/-3 | U | 1.50 | 6.00 | P | 08/20/2025 | 16:39 | LB136898 |
| | Cadmium | 0.50 | +/-3 | U | 1.50 | 6.00 | P | 08/20/2025 | 16:39 | LB136898 |
| | Calcium | 234 | +/-1000 | U | 500 | 2000 | P | 08/20/2025 | 16:39 | LB136898 |
| | Chromium | 2.12 | +/-5 | U | 5.00 | 10.0 | P | 08/20/2025 | 16:39 | LB136898 |
| | Cobalt | 2.26 | +/-15 | U | 7.50 | 30.0 | P | 08/20/2025 | 16:39 | LB136898 |
| | Copper | 4.60 | +/-10 | U | 16.0 | 20.0 | P | 08/20/2025 | 16:39 | LB136898 |
| | Iron | 23.4 | +/-50 | U | 80.0 | 100 | P | 08/20/2025 | 16:39 | LB136898 |
| | Lead | 2.30 | +/-6 | U | 9.60 | 12.0 | P | 08/20/2025 | 16:39 | LB136898 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| **CCB04** | Magnesium | 244 | +/-1000 | U | 500 | 2000 | P | 08/20/2025 | 16:39 | LB136898 |
| | Manganese | 5.94 | +/-10 | U | 15.0 | 20.0 | P | 08/20/2025 | 16:39 | LB136898 |
| | Nickel | 3.06 | +/-20 | U | 10.0 | 40.0 | P | 08/20/2025 | 16:39 | LB136898 |
| | Potassium | 918 | +/-1000 | U | 1600 | 2000 | P | 08/20/2025 | 16:39 | LB136898 |
| | Selenium | 9.64 | +/-10 | U | 16.0 | 20.0 | P | 08/20/2025 | 16:39 | LB136898 |
| | Silver | 1.62 | +/-5 | U | 5.00 | 10.0 | P | 08/20/2025 | 16:39 | LB136898 |
| | Sodium | 868 | +/-1000 | U | 1000 | 2000 | P | 08/20/2025 | 16:39 | LB136898 |
| | Thallium | 4.38 | +/-20 | U | 20.0 | 40.0 | P | 08/20/2025 | 16:39 | LB136898 |
| | Vanadium | 6.26 | +/-20 | U | 20.0 | 40.0 | P | 08/20/2025 | 16:39 | LB136898 |
| | Zinc | 16.7 | +/-20 | U | 15.0 | 40.0 | P | 08/20/2025 | 16:39 | LB136898 |
| **CCB05** | Aluminum | 11.3 | +/-50 | U | 80.0 | 100 | P | 08/20/2025 | 17:13 | LB136898 |
| | Antimony | 6.76 | +/-25 | U | 12.5 | 50.0 | P | 08/20/2025 | 17:13 | LB136898 |
| | Arsenic | 5.12 | +/-10 | U | 15.0 | 20.0 | P | 08/20/2025 | 17:13 | LB136898 |
| | Barium | 14.6 | +/-50 | U | 25.0 | 100 | P | 08/20/2025 | 17:13 | LB136898 |
| | Beryllium | 0.56 | +/-3 | U | 1.50 | 6.00 | P | 08/20/2025 | 17:13 | LB136898 |
| | Cadmium | 0.50 | +/-3 | U | 1.50 | 6.00 | P | 08/20/2025 | 17:13 | LB136898 |
| | Calcium | 234 | +/-1000 | U | 500 | 2000 | P | 08/20/2025 | 17:13 | LB136898 |
| | Chromium | 2.12 | +/-5 | U | 5.00 | 10.0 | P | 08/20/2025 | 17:13 | LB136898 |
| | Cobalt | 2.26 | +/-15 | U | 7.50 | 30.0 | P | 08/20/2025 | 17:13 | LB136898 |
| | Copper | 4.60 | +/-10 | U | 16.0 | 20.0 | P | 08/20/2025 | 17:13 | LB136898 |
| | Iron | 23.4 | +/-50 | U | 80.0 | 100 | P | 08/20/2025 | 17:13 | LB136898 |
| | Lead | 2.30 | +/-6 | U | 9.60 | 12.0 | P | 08/20/2025 | 17:13 | LB136898 |
| | Magnesium | 244 | +/-1000 | U | 500 | 2000 | P | 08/20/2025 | 17:13 | LB136898 |
| | Manganese | 5.94 | +/-10 | U | 15.0 | 20.0 | P | 08/20/2025 | 17:13 | LB136898 |
| | Nickel | 3.06 | +/-20 | U | 10.0 | 40.0 | P | 08/20/2025 | 17:13 | LB136898 |
| | Potassium | 918 | +/-1000 | U | 1600 | 2000 | P | 08/20/2025 | 17:13 | LB136898 |
| | Selenium | 9.64 | +/-10 | U | 16.0 | 20.0 | P | 08/20/2025 | 17:13 | LB136898 |
| | Silver | 1.62 | +/-5 | U | 5.00 | 10.0 | P | 08/20/2025 | 17:13 | LB136898 |
| | Sodium | 868 | +/-1000 | U | 1000 | 2000 | P | 08/20/2025 | 17:13 | LB136898 |
| | Thallium | 4.38 | +/-20 | U | 20.0 | 40.0 | P | 08/20/2025 | 17:13 | LB136898 |
| | Vanadium | 6.26 | +/-20 | U | 20.0 | 40.0 | P | 08/20/2025 | 17:13 | LB136898 |
| | Zinc | 16.7 | +/-20 | U | 15.0 | 40.0 | P | 08/20/2025 | 17:13 | LB136898 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| ICB01 | Aluminum | 11.3 | +/-50 | U | 80.0 | 100 | P | 08/21/2025 | 14:37 | LB136917 |
| | Antimony | 6.76 | +/-25 | U | 12.5 | 50.0 | P | 08/21/2025 | 14:37 | LB136917 |
| | Arsenic | 5.12 | +/-10 | U | 15.0 | 20.0 | P | 08/21/2025 | 14:37 | LB136917 |
| | Barium | 14.6 | +/-50 | U | 25.0 | 100 | P | 08/21/2025 | 14:37 | LB136917 |
| | Beryllium | 0.56 | +/-3 | U | 1.50 | 6.00 | P | 08/21/2025 | 14:37 | LB136917 |
| | Cadmium | 0.50 | +/-3 | U | 1.50 | 6.00 | P | 08/21/2025 | 14:37 | LB136917 |
| | Calcium | 234 | +/-1000 | U | 500 | 2000 | P | 08/21/2025 | 14:37 | LB136917 |
| | Chromium | 2.12 | +/-5 | U | 5.00 | 10.0 | P | 08/21/2025 | 14:37 | LB136917 |
| | Cobalt | 2.26 | +/-15 | U | 7.50 | 30.0 | P | 08/21/2025 | 14:37 | LB136917 |
| | Copper | 4.60 | +/-10 | U | 16.0 | 20.0 | P | 08/21/2025 | 14:37 | LB136917 |
| | Iron | 23.4 | +/-50 | U | 80.0 | 100 | P | 08/21/2025 | 14:37 | LB136917 |
| | Lead | 2.30 | +/-6 | U | 9.60 | 12.0 | P | 08/21/2025 | 14:37 | LB136917 |
| | Magnesium | 244 | +/-1000 | U | 500 | 2000 | P | 08/21/2025 | 14:37 | LB136917 |
| | Manganese | 5.94 | +/-10 | U | 15.0 | 20.0 | P | 08/21/2025 | 14:37 | LB136917 |
| | Nickel | 3.06 | +/-20 | U | 10.0 | 40.0 | P | 08/21/2025 | 14:37 | LB136917 |
| | Potassium | 918 | +/-1000 | U | 1600 | 2000 | P | 08/21/2025 | 14:37 | LB136917 |
| | Selenium | 9.64 | +/-10 | U | 16.0 | 20.0 | P | 08/21/2025 | 14:37 | LB136917 |
| | Silver | 1.62 | +/-5 | U | 5.00 | 10.0 | P | 08/21/2025 | 14:37 | LB136917 |
| | Sodium | 868 | +/-1000 | U | 1000 | 2000 | P | 08/21/2025 | 14:37 | LB136917 |
| | Thallium | 4.38 | +/-20 | U | 20.0 | 40.0 | P | 08/21/2025 | 14:37 | LB136917 |
| | Vanadium | 6.26 | +/-20 | U | 20.0 | 40.0 | P | 08/21/2025 | 14:37 | LB136917 |
| | Zinc | 16.7 | +/-20 | U | 15.0 | 40.0 | P | 08/21/2025 | 14:37 | LB136917 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| CCB01 | Aluminum | 11.3 | +/-50 | U | 80.0 | 100 | P | 08/21/2025 | 15:07 | LB136917 |
| | Antimony | 6.76 | +/-25 | U | 12.5 | 50.0 | P | 08/21/2025 | 15:07 | LB136917 |
| | Arsenic | 5.12 | +/-10 | U | 15.0 | 20.0 | P | 08/21/2025 | 15:07 | LB136917 |
| | Barium | 14.6 | +/-50 | U | 25.0 | 100 | P | 08/21/2025 | 15:07 | LB136917 |
| | Beryllium | 0.56 | +/-3 | U | 1.50 | 6.00 | P | 08/21/2025 | 15:07 | LB136917 |
| | Cadmium | 0.50 | +/-3 | U | 1.50 | 6.00 | P | 08/21/2025 | 15:07 | LB136917 |
| | Calcium | 234 | +/-1000 | U | 500 | 2000 | P | 08/21/2025 | 15:07 | LB136917 |
| | Chromium | 2.12 | +/-5 | U | 5.00 | 10.0 | P | 08/21/2025 | 15:07 | LB136917 |
| | Cobalt | 2.26 | +/-15 | U | 7.50 | 30.0 | P | 08/21/2025 | 15:07 | LB136917 |
| | Copper | 4.60 | +/-10 | U | 16.0 | 20.0 | P | 08/21/2025 | 15:07 | LB136917 |
| | Iron | 23.4 | +/-50 | U | 80.0 | 100 | P | 08/21/2025 | 15:07 | LB136917 |
| | Lead | 2.30 | +/-6 | U | 9.60 | 12.0 | P | 08/21/2025 | 15:07 | LB136917 |
| | Magnesium | 244 | +/-1000 | U | 500 | 2000 | P | 08/21/2025 | 15:07 | LB136917 |
| | Manganese | 5.94 | +/-10 | U | 15.0 | 20.0 | P | 08/21/2025 | 15:07 | LB136917 |
| | Nickel | 3.06 | +/-20 | U | 10.0 | 40.0 | P | 08/21/2025 | 15:07 | LB136917 |
| | Potassium | 918 | +/-1000 | U | 1600 | 2000 | P | 08/21/2025 | 15:07 | LB136917 |
| | Selenium | 9.64 | +/-10 | U | 16.0 | 20.0 | P | 08/21/2025 | 15:07 | LB136917 |
| | Silver | 1.62 | +/-5 | U | 5.00 | 10.0 | P | 08/21/2025 | 15:07 | LB136917 |
| | Sodium | 868 | +/-1000 | U | 1000 | 2000 | P | 08/21/2025 | 15:07 | LB136917 |
| | Thallium | 4.38 | +/-20 | U | 20.0 | 40.0 | P | 08/21/2025 | 15:07 | LB136917 |
| | Vanadium | 6.26 | +/-20 | U | 20.0 | 40.0 | P | 08/21/2025 | 15:07 | LB136917 |
| | Zinc | 16.7 | +/-20 | U | 15.0 | 40.0 | P | 08/21/2025 | 15:07 | LB136917 |
| CCB02 | Aluminum | 11.3 | +/-50 | U | 80.0 | 100 | P | 08/21/2025 | 16:27 | LB136917 |
| | Antimony | 6.76 | +/-25 | U | 12.5 | 50.0 | P | 08/21/2025 | 16:27 | LB136917 |
| | Arsenic | 5.12 | +/-10 | U | 15.0 | 20.0 | P | 08/21/2025 | 16:27 | LB136917 |
| | Barium | 14.6 | +/-50 | U | 25.0 | 100 | P | 08/21/2025 | 16:27 | LB136917 |
| | Beryllium | 0.56 | +/-3 | U | 1.50 | 6.00 | P | 08/21/2025 | 16:27 | LB136917 |
| | Cadmium | 0.50 | +/-3 | U | 1.50 | 6.00 | P | 08/21/2025 | 16:27 | LB136917 |
| | Calcium | 234 | +/-1000 | U | 500 | 2000 | P | 08/21/2025 | 16:27 | LB136917 |
| | Chromium | 2.12 | +/-5 | U | 5.00 | 10.0 | P | 08/21/2025 | 16:27 | LB136917 |
| | Cobalt | 2.26 | +/-15 | U | 7.50 | 30.0 | P | 08/21/2025 | 16:27 | LB136917 |
| | Copper | 4.60 | +/-10 | U | 16.0 | 20.0 | P | 08/21/2025 | 16:27 | LB136917 |
| | Iron | 23.4 | +/-50 | U | 80.0 | 100 | P | 08/21/2025 | 16:27 | LB136917 |
| | Lead | 2.30 | +/-6 | U | 9.60 | 12.0 | P | 08/21/2025 | 16:27 | LB136917 |
| | Magnesium | 244 | +/-1000 | U | 500 | 2000 | P | 08/21/2025 | 16:27 | LB136917 |
| | Manganese | 5.94 | +/-10 | U | 15.0 | 20.0 | P | 08/21/2025 | 16:27 | LB136917 |
| | Nickel | 3.06 | +/-20 | U | 10.0 | 40.0 | P | 08/21/2025 | 16:27 | LB136917 |
| | Potassium | 918 | +/-1000 | U | 1600 | 2000 | P | 08/21/2025 | 16:27 | LB136917 |
| | Selenium | 9.64 | +/-10 | U | 16.0 | 20.0 | P | 08/21/2025 | 16:27 | LB136917 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| **CCB02** | Silver | 1.62 | +/-5 | U | 5.00 | 10.0 | P | 08/21/2025 | 16:27 | LB136917 |
| | Sodium | 868 | +/-1000 | U | 1000 | 2000 | P | 08/21/2025 | 16:27 | LB136917 |
| | Thallium | 4.38 | +/-20 | U | 20.0 | 40.0 | P | 08/21/2025 | 16:27 | LB136917 |
| | Vanadium | 6.26 | +/-20 | U | 20.0 | 40.0 | P | 08/21/2025 | 16:27 | LB136917 |
| | Zinc | 16.7 | +/-20 | U | 15.0 | 40.0 | P | 08/21/2025 | 16:27 | LB136917 |
| **CCB03** | Aluminum | 11.3 | +/-50 | U | 80.0 | 100 | P | 08/21/2025 | 17:18 | LB136917 |
| | Antimony | 6.76 | +/-25 | U | 12.5 | 50.0 | P | 08/21/2025 | 17:18 | LB136917 |
| | Arsenic | 5.12 | +/-10 | U | 15.0 | 20.0 | P | 08/21/2025 | 17:18 | LB136917 |
| | Barium | 14.6 | +/-50 | U | 25.0 | 100 | P | 08/21/2025 | 17:18 | LB136917 |
| | Beryllium | 0.56 | +/-3 | U | 1.50 | 6.00 | P | 08/21/2025 | 17:18 | LB136917 |
| | Cadmium | 0.50 | +/-3 | U | 1.50 | 6.00 | P | 08/21/2025 | 17:18 | LB136917 |
| | Calcium | 234 | +/-1000 | U | 500 | 2000 | P | 08/21/2025 | 17:18 | LB136917 |
| | Chromium | 2.12 | +/-5 | U | 5.00 | 10.0 | P | 08/21/2025 | 17:18 | LB136917 |
| | Cobalt | 2.26 | +/-15 | U | 7.50 | 30.0 | P | 08/21/2025 | 17:18 | LB136917 |
| | Copper | 4.60 | +/-10 | U | 16.0 | 20.0 | P | 08/21/2025 | 17:18 | LB136917 |
| | Iron | 23.4 | +/-50 | U | 80.0 | 100 | P | 08/21/2025 | 17:18 | LB136917 |
| | Lead | 2.30 | +/-6 | U | 9.60 | 12.0 | P | 08/21/2025 | 17:18 | LB136917 |
| | Magnesium | 244 | +/-1000 | U | 500 | 2000 | P | 08/21/2025 | 17:18 | LB136917 |
| | Manganese | 5.94 | +/-10 | U | 15.0 | 20.0 | P | 08/21/2025 | 17:18 | LB136917 |
| | Nickel | 3.06 | +/-20 | U | 10.0 | 40.0 | P | 08/21/2025 | 17:18 | LB136917 |
| | Potassium | 918 | +/-1000 | U | 1600 | 2000 | P | 08/21/2025 | 17:18 | LB136917 |
| | Selenium | 9.64 | +/-10 | U | 16.0 | 20.0 | P | 08/21/2025 | 17:18 | LB136917 |
| | Silver | 1.62 | +/-5 | U | 5.00 | 10.0 | P | 08/21/2025 | 17:18 | LB136917 |
| | Sodium | 868 | +/-1000 | U | 1000 | 2000 | P | 08/21/2025 | 17:18 | LB136917 |
| | Thallium | 4.38 | +/-20 | U | 20.0 | 40.0 | P | 08/21/2025 | 17:18 | LB136917 |
| | Vanadium | 6.26 | +/-20 | U | 20.0 | 40.0 | P | 08/21/2025 | 17:18 | LB136917 |
| | Zinc | 16.7 | +/-20 | U | 15.0 | 40.0 | P | 08/21/2025 | 17:18 | LB136917 |
| **CCB04** | Aluminum | 11.3 | +/-50 | U | 80.0 | 100 | P | 08/21/2025 | 18:08 | LB136917 |
| | Antimony | 6.76 | +/-25 | U | 12.5 | 50.0 | P | 08/21/2025 | 18:08 | LB136917 |
| | Arsenic | 5.12 | +/-10 | U | 15.0 | 20.0 | P | 08/21/2025 | 18:08 | LB136917 |
| | Barium | 14.6 | +/-50 | U | 25.0 | 100 | P | 08/21/2025 | 18:08 | LB136917 |
| | Beryllium | 0.56 | +/-3 | U | 1.50 | 6.00 | P | 08/21/2025 | 18:08 | LB136917 |
| | Cadmium | 0.50 | +/-3 | U | 1.50 | 6.00 | P | 08/21/2025 | 18:08 | LB136917 |
| | Calcium | 234 | +/-1000 | U | 500 | 2000 | P | 08/21/2025 | 18:08 | LB136917 |
| | Chromium | 2.12 | +/-5 | U | 5.00 | 10.0 | P | 08/21/2025 | 18:08 | LB136917 |
| | Cobalt | 2.26 | +/-15 | U | 7.50 | 30.0 | P | 08/21/2025 | 18:08 | LB136917 |
| | Copper | 4.60 | +/-10 | U | 16.0 | 20.0 | P | 08/21/2025 | 18:08 | LB136917 |
| | Iron | 23.4 | +/-50 | U | 80.0 | 100 | P | 08/21/2025 | 18:08 | LB136917 |
| | Lead | 2.30 | +/-6 | U | 9.60 | 12.0 | P | 08/21/2025 | 18:08 | LB136917 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| CCB04 | Magnesium | 244 | +/-1000 | U | 500 | 2000 | P | 08/21/2025 | 18:08 | LB136917 |
| | Manganese | 5.94 | +/-10 | U | 15.0 | 20.0 | P | 08/21/2025 | 18:08 | LB136917 |
| | Nickel | 3.06 | +/-20 | U | 10.0 | 40.0 | P | 08/21/2025 | 18:08 | LB136917 |
| | Potassium | 918 | +/-1000 | U | 1600 | 2000 | P | 08/21/2025 | 18:08 | LB136917 |
| | Selenium | 9.64 | +/-10 | U | 16.0 | 20.0 | P | 08/21/2025 | 18:08 | LB136917 |
| | Silver | 1.62 | +/-5 | U | 5.00 | 10.0 | P | 08/21/2025 | 18:08 | LB136917 |
| | Sodium | 868 | +/-1000 | U | 1000 | 2000 | P | 08/21/2025 | 18:08 | LB136917 |
| | Thallium | 4.38 | +/-20 | U | 20.0 | 40.0 | P | 08/21/2025 | 18:08 | LB136917 |
| | Vanadium | 6.26 | +/-20 | U | 20.0 | 40.0 | P | 08/21/2025 | 18:08 | LB136917 |
| | Zinc | 16.7 | +/-20 | U | 15.0 | 40.0 | P | 08/21/2025 | 18:08 | LB136917 |
| CCB05 | Aluminum | 11.3 | +/-50 | U | 80.0 | 100 | P | 08/21/2025 | 18:57 | LB136917 |
| | Antimony | 6.76 | +/-25 | U | 12.5 | 50.0 | P | 08/21/2025 | 18:57 | LB136917 |
| | Arsenic | 5.12 | +/-10 | U | 15.0 | 20.0 | P | 08/21/2025 | 18:57 | LB136917 |
| | Barium | 14.6 | +/-50 | U | 25.0 | 100 | P | 08/21/2025 | 18:57 | LB136917 |
| | Beryllium | 0.56 | +/-3 | U | 1.50 | 6.00 | P | 08/21/2025 | 18:57 | LB136917 |
| | Cadmium | 0.50 | +/-3 | U | 1.50 | 6.00 | P | 08/21/2025 | 18:57 | LB136917 |
| | Calcium | 234 | +/-1000 | U | 500 | 2000 | P | 08/21/2025 | 18:57 | LB136917 |
| | Chromium | 2.12 | +/-5 | U | 5.00 | 10.0 | P | 08/21/2025 | 18:57 | LB136917 |
| | Cobalt | 2.26 | +/-15 | U | 7.50 | 30.0 | P | 08/21/2025 | 18:57 | LB136917 |
| | Copper | 4.60 | +/-10 | U | 16.0 | 20.0 | P | 08/21/2025 | 18:57 | LB136917 |
| | Iron | 23.4 | +/-50 | U | 80.0 | 100 | P | 08/21/2025 | 18:57 | LB136917 |
| | Lead | 2.30 | +/-6 | U | 9.60 | 12.0 | P | 08/21/2025 | 18:57 | LB136917 |
| | Magnesium | 244 | +/-1000 | U | 500 | 2000 | P | 08/21/2025 | 18:57 | LB136917 |
| | Manganese | 5.94 | +/-10 | U | 15.0 | 20.0 | P | 08/21/2025 | 18:57 | LB136917 |
| | Nickel | 3.06 | +/-20 | U | 10.0 | 40.0 | P | 08/21/2025 | 18:57 | LB136917 |
| | Potassium | 918 | +/-1000 | U | 1600 | 2000 | P | 08/21/2025 | 18:57 | LB136917 |
| | Selenium | 9.64 | +/-10 | U | 16.0 | 20.0 | P | 08/21/2025 | 18:57 | LB136917 |
| | Silver | 1.62 | +/-5 | U | 5.00 | 10.0 | P | 08/21/2025 | 18:57 | LB136917 |
| | Sodium | 868 | +/-1000 | U | 1000 | 2000 | P | 08/21/2025 | 18:57 | LB136917 |
| | Thallium | 4.38 | +/-20 | U | 20.0 | 40.0 | P | 08/21/2025 | 18:57 | LB136917 |
| | Vanadium | 6.26 | +/-20 | U | 20.0 | 40.0 | P | 08/21/2025 | 18:57 | LB136917 |
| | Zinc | 16.7 | +/-20 | U | 15.0 | 40.0 | P | 08/21/2025 | 18:57 | LB136917 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals
## - 3b -
## PREPARATION BLANK SUMMARY

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Instrument:** CV1

| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | LOD ug/L | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| **PB169202BL** | | **WATER** | | **Batch Number:** | | **PB169202** | | **Prep Date:** | **08/12/2025** | |
| | Mercury | 0.076 | <0.2 | U | 0.16 | 0.20 | CV | 08/12/2025 | 14:37 | LB136788 |

| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | LOD ug/L | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| **PB169249BL** | | **WATER** | | **Batch Number:** | | **PB169249** | | **Prep Date:** | **08/14/2025** | |
| | Mercury | 0.076 | <0.2 | U | 0.16 | 0.20 | CV | 08/15/2025 | 12:22 | LB136836 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals
## - 3b -
## PREPARATION BLANK SUMMARY

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Instrument:** P4

| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | LOD ug/L | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| **PB169232BL** | | **WATER** | | **Batch Number:** | | **PB169232** | | **Prep Date:** | **08/13/2025** | |
| | Aluminum | 5.67 | <25 | U | 40.0 | 50.0 | P | 08/14/2025 | 13:11 | LB136837 |
| | Antimony | 3.38 | <12.5 | U | 6.25 | 25.0 | P | 08/14/2025 | 13:11 | LB136837 |
| | Arsenic | 2.56 | <5 | U | 7.50 | 10.0 | P | 08/14/2025 | 13:11 | LB136837 |
| | Barium | 7.28 | <25 | U | 12.5 | 50.0 | P | 08/14/2025 | 13:11 | LB136837 |
| | Beryllium | 0.28 | <1.5 | U | 0.75 | 3.00 | P | 08/14/2025 | 13:11 | LB136837 |
| | Cadmium | 0.25 | <1.5 | U | 0.75 | 3.00 | P | 08/14/2025 | 13:11 | LB136837 |
| | Calcium | 117 | <500 | U | 250 | 1000 | P | 08/14/2025 | 13:11 | LB136837 |
| | Chromium | 1.06 | <2.5 | U | 2.50 | 5.00 | P | 08/14/2025 | 13:11 | LB136837 |
| | Cobalt | 1.13 | <7.5 | U | 3.75 | 15.0 | P | 08/14/2025 | 13:11 | LB136837 |
| | Copper | 2.30 | <5 | U | 8.00 | 10.0 | P | 08/14/2025 | 13:11 | LB136837 |
| | Iron | 11.7 | <25 | U | 40.0 | 50.0 | P | 08/14/2025 | 13:11 | LB136837 |
| | Lead | 1.15 | <3 | U | 4.80 | 6.00 | P | 08/14/2025 | 13:11 | LB136837 |
| | Magnesium | 122 | <500 | U | 250 | 1000 | P | 08/14/2025 | 13:11 | LB136837 |
| | Manganese | 2.97 | <5 | U | 7.50 | 10.0 | P | 08/14/2025 | 13:11 | LB136837 |
| | Nickel | 1.53 | <10 | U | 5.00 | 20.0 | P | 08/14/2025 | 13:11 | LB136837 |
| | Potassium | 459 | <500 | U | 800 | 1000 | P | 08/14/2025 | 13:11 | LB136837 |
| | Selenium | 4.82 | <5 | U | 8.00 | 10.0 | P | 08/14/2025 | 13:11 | LB136837 |
| | Silver | 0.81 | <2.5 | U | 2.50 | 5.00 | P | 08/14/2025 | 13:11 | LB136837 |
| | Sodium | 434 | <500 | U | 500 | 1000 | P | 08/14/2025 | 13:11 | LB136837 |
| | Thallium | 2.19 | <10 | U | 10.0 | 20.0 | P | 08/14/2025 | 13:11 | LB136837 |
| | Vanadium | 3.13 | <10 | U | 10.0 | 20.0 | P | 08/14/2025 | 13:11 | LB136837 |
| | Zinc | 8.33 | <10 | U | 7.50 | 20.0 | P | 08/14/2025 | 13:11 | LB136837 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**ICS Source:** EPA **Instrument ID:** P4

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Low Limit (ug/L) | High Limit (ug/L) | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **ICSA01** | Aluminum | 251000 | 255000 | 98 | 216000 | 294000 | 08/14/2025 | 12:27 | LB136837 |
| | Antimony | -1.10 | | | -50 | 50 | 08/14/2025 | 12:27 | LB136837 |
| | Arsenic | 7.57 | | | -20 | 20 | 08/14/2025 | 12:27 | LB136837 |
| | Barium | 0.097 | 6.0 | 2 | -94 | 106 | 08/14/2025 | 12:27 | LB136837 |
| | Beryllium | 1.36 | | | -6 | 6 | 08/14/2025 | 12:27 | LB136837 |
| | Cadmium | 2.91 | 1.0 | 291 | -5 | 7 | 08/14/2025 | 12:27 | LB136837 |
| | Calcium | 237000 | 245000 | 97 | 208000 | 282000 | 08/14/2025 | 12:27 | LB136837 |
| | Chromium | 60.3 | 52.0 | 116 | 42 | 62 | 08/14/2025 | 12:27 | LB136837 |
| | Cobalt | 1.84 | | | -30 | 30 | 08/14/2025 | 12:27 | LB136837 |
| | Copper | 7.21 | 2.0 | 360 | -18 | 22 | 08/14/2025 | 12:27 | LB136837 |
| | Iron | 99800 | 101000 | 99 | 85600 | 116500 | 08/14/2025 | 12:27 | LB136837 |
| | Lead | -5.21 | | | -12 | 12 | 08/14/2025 | 12:27 | LB136837 |
| | Magnesium | 251000 | 255000 | 98 | 216000 | 294000 | 08/14/2025 | 12:27 | LB136837 |
| | Manganese | 7.95 | 7.0 | 114 | -13 | 27 | 08/14/2025 | 12:27 | LB136837 |
| | Nickel | 5.40 | 2.0 | 270 | -38 | 42 | 08/14/2025 | 12:27 | LB136837 |
| | Potassium | 130 | | | 0 | 0 | 08/14/2025 | 12:27 | LB136837 |
| | Selenium | -3.06 | | | -20 | 20 | 08/14/2025 | 12:27 | LB136837 |
| | Silver | 1.48 | | | -10 | 10 | 08/14/2025 | 12:27 | LB136837 |
| | Sodium | 111 | | | 0 | 0 | 08/14/2025 | 12:27 | LB136837 |
| | Thallium | -3.36 | | | -40 | 40 | 08/14/2025 | 12:27 | LB136837 |
| | Vanadium | 2.16 | | | -40 | 40 | 08/14/2025 | 12:27 | LB136837 |
| | Zinc | 3.33 | | | -40 | 40 | 08/14/2025 | 12:27 | LB136837 |
| **ICSAB01** | Aluminum | 249000 | 247000 | 101 | 209000 | 285000 | 08/14/2025 | 12:38 | LB136837 |
| | Antimony | 593 | 618 | 96 | 525 | 711 | 08/14/2025 | 12:38 | LB136837 |
| | Arsenic | 110 | 104 | 106 | 88.4 | 120 | 08/14/2025 | 12:38 | LB136837 |
| | Barium | 485 | 537 | 90 | 437 | 637 | 08/14/2025 | 12:38 | LB136837 |
| | Beryllium | 496 | 495 | 100 | 420 | 570 | 08/14/2025 | 12:38 | LB136837 |
| | Cadmium | 989 | 972 | 102 | 826 | 1120 | 08/14/2025 | 12:38 | LB136837 |
| | Calcium | 236000 | 235000 | 100 | 199000 | 271000 | 08/14/2025 | 12:38 | LB136837 |
| | Chromium | 566 | 542 | 104 | 460 | 624 | 08/14/2025 | 12:38 | LB136837 |
| | Cobalt | 494 | 476 | 104 | 404 | 548 | 08/14/2025 | 12:38 | LB136837 |
| | Copper | 490 | 511 | 96 | 434 | 588 | 08/14/2025 | 12:38 | LB136837 |
| | Iron | 98600 | 99300 | 99 | 84400 | 114500 | 08/14/2025 | 12:38 | LB136837 |
| | Lead | 42.6 | 49.0 | 87 | 37 | 61 | 08/14/2025 | 12:38 | LB136837 |
| | Magnesium | 252000 | 248000 | 102 | 210000 | 286000 | 08/14/2025 | 12:38 | LB136837 |
| | Manganese | 487 | 507 | 96 | 430 | 584 | 08/14/2025 | 12:38 | LB136837 |
| | Nickel | 987 | 954 | 104 | 810 | 1100 | 08/14/2025 | 12:38 | LB136837 |
| | Potassium | -0.28 | | | 0 | 0 | 08/14/2025 | 12:38 | LB136837 |
| | Selenium | 46.6 | 46.0 | 101 | 26 | 66 | 08/14/2025 | 12:38 | LB136837 |
| | Silver | 216 | 201 | 108 | 170 | 232 | 08/14/2025 | 12:38 | LB136837 |
| | Sodium | -6.45 | | | 0 | 0 | 08/14/2025 | 12:38 | LB136837 |
| | Thallium | 109 | 108 | 101 | 68 | 148 | 08/14/2025 | 12:38 | LB136837 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**ICS Source:** EPA **Instrument ID:** P4

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Low Limit (ug/L) | High Limit (ug/L) | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **ICSAB01** | Vanadium | 479 | 491 | 98 | 417 | 565 | 08/14/2025 | 12:38 | LB136837 |
| | Zinc | 1040 | 952 | 109 | 809 | 1095 | 08/14/2025 | 12:38 | LB136837 |
| **ICSA01** | Aluminum | 247000 | 255000 | 97 | 216000 | 294000 | 08/20/2025 | 13:30 | LB136898 |
| | Antimony | -1.47 | | | -50 | 50 | 08/20/2025 | 13:30 | LB136898 |
| | Arsenic | 10.7 | | | -20 | 20 | 08/20/2025 | 13:30 | LB136898 |
| | Barium | 1.81 | 6.0 | 30 | -94 | 106 | 08/20/2025 | 13:30 | LB136898 |
| | Beryllium | 1.50 | | | -6 | 6 | 08/20/2025 | 13:30 | LB136898 |
| | Cadmium | 2.34 | 1.0 | 234 | -5 | 7 | 08/20/2025 | 13:30 | LB136898 |
| | Calcium | 233000 | 245000 | 95 | 208000 | 282000 | 08/20/2025 | 13:30 | LB136898 |
| | Chromium | 60.0 | 52.0 | 115 | 42 | 62 | 08/20/2025 | 13:30 | LB136898 |
| | Cobalt | 1.69 | | | -30 | 30 | 08/20/2025 | 13:30 | LB136898 |
| | Copper | 4.70 | 2.0 | 235 | -18 | 22 | 08/20/2025 | 13:30 | LB136898 |
| | Iron | 99200 | 101000 | 98 | 85600 | 116500 | 08/20/2025 | 13:30 | LB136898 |
| | Lead | -3.40 | | | -12 | 12 | 08/20/2025 | 13:30 | LB136898 |
| | Magnesium | 249000 | 255000 | 98 | 216000 | 294000 | 08/20/2025 | 13:30 | LB136898 |
| | Manganese | 8.90 | 7.0 | 127 | -13 | 27 | 08/20/2025 | 13:30 | LB136898 |
| | Nickel | 6.20 | 2.0 | 310 | -38 | 42 | 08/20/2025 | 13:30 | LB136898 |
| | Potassium | 84.7 | | | 0 | 0 | 08/20/2025 | 13:30 | LB136898 |
| | Selenium | -0.17 | | | -20 | 20 | 08/20/2025 | 13:30 | LB136898 |
| | Silver | 2.09 | | | -10 | 10 | 08/20/2025 | 13:30 | LB136898 |
| | Sodium | 74.1 | | | 0 | 0 | 08/20/2025 | 13:30 | LB136898 |
| | Thallium | -3.61 | | | -40 | 40 | 08/20/2025 | 13:30 | LB136898 |
| | Vanadium | 5.01 | | | -40 | 40 | 08/20/2025 | 13:30 | LB136898 |
| | Zinc | 1.99 | | | -40 | 40 | 08/20/2025 | 13:30 | LB136898 |
| **ICSAB01** | Aluminum | 250000 | 247000 | 101 | 209000 | 285000 | 08/20/2025 | 13:34 | LB136898 |
| | Antimony | 587 | 618 | 95 | 525 | 711 | 08/20/2025 | 13:34 | LB136898 |
| | Arsenic | 109 | 104 | 105 | 88.4 | 120 | 08/20/2025 | 13:34 | LB136898 |
| | Barium | 475 | 537 | 88 | 437 | 637 | 08/20/2025 | 13:34 | LB136898 |
| | Beryllium | 482 | 495 | 97 | 420 | 570 | 08/20/2025 | 13:34 | LB136898 |
| | Cadmium | 963 | 972 | 99 | 826 | 1120 | 08/20/2025 | 13:34 | LB136898 |
| | Calcium | 236000 | 235000 | 100 | 199000 | 271000 | 08/20/2025 | 13:34 | LB136898 |
| | Chromium | 553 | 542 | 102 | 460 | 624 | 08/20/2025 | 13:34 | LB136898 |
| | Cobalt | 484 | 476 | 102 | 404 | 548 | 08/20/2025 | 13:34 | LB136898 |
| | Copper | 475 | 511 | 93 | 434 | 588 | 08/20/2025 | 13:34 | LB136898 |
| | Iron | 101000 | 99300 | 102 | 84400 | 114500 | 08/20/2025 | 13:34 | LB136898 |
| | Lead | 38.4 | 49.0 | 78 | 37 | 61 | 08/20/2025 | 13:34 | LB136898 |
| | Magnesium | 251000 | 248000 | 101 | 210000 | 286000 | 08/20/2025 | 13:34 | LB136898 |
| | Manganese | 476 | 507 | 94 | 430 | 584 | 08/20/2025 | 13:34 | LB136898 |
| | Nickel | 964 | 954 | 101 | 810 | 1100 | 08/20/2025 | 13:34 | LB136898 |
| | Potassium | -189 | | | 0 | 0 | 08/20/2025 | 13:34 | LB136898 |
| | Selenium | 47.4 | 46.0 | 103 | 26 | 66 | 08/20/2025 | 13:34 | LB136898 |
| | Silver | 212 | 201 | 106 | 170 | 232 | 08/20/2025 | 13:34 | LB136898 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**ICS Source:** EPA **Instrument ID:** P4

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Low Limit (ug/L) | High Limit (ug/L) | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **ICSAB01** | Sodium | 27.1 | | | 0 | 0 | 08/20/2025 | 13:34 | LB136898 |
| | Thallium | 99.0 | 108 | 92 | 68 | 148 | 08/20/2025 | 13:34 | LB136898 |
| | Vanadium | 475 | 491 | 97 | 417 | 565 | 08/20/2025 | 13:34 | LB136898 |
| | Zinc | 1020 | 952 | 107 | 809 | 1095 | 08/20/2025 | 13:34 | LB136898 |
| **ICSA01** | Aluminum | 243000 | 255000 | 95 | 216000 | 294000 | 08/21/2025 | 14:45 | LB136917 |
| | Antimony | -2.55 | | | -50 | 50 | 08/21/2025 | 14:45 | LB136917 |
| | Arsenic | 12.2 | | | -20 | 20 | 08/21/2025 | 14:45 | LB136917 |
| | Barium | 0.25 | 6.0 | 4 | -94 | 106 | 08/21/2025 | 14:45 | LB136917 |
| | Beryllium | 1.47 | | | -6 | 6 | 08/21/2025 | 14:45 | LB136917 |
| | Cadmium | 1.73 | 1.0 | 173 | -5 | 7 | 08/21/2025 | 14:45 | LB136917 |
| | Calcium | 232000 | 245000 | 95 | 208000 | 282000 | 08/21/2025 | 14:45 | LB136917 |
| | Chromium | 58.4 | 52.0 | 112 | 42 | 62 | 08/21/2025 | 14:45 | LB136917 |
| | Cobalt | 2.10 | | | -30 | 30 | 08/21/2025 | 14:45 | LB136917 |
| | Copper | 10.1 | 2.0 | 502 | -18 | 22 | 08/21/2025 | 14:45 | LB136917 |
| | Iron | 101000 | 101000 | 100 | 85600 | 116500 | 08/21/2025 | 14:45 | LB136917 |
| | Lead | -7.00 | | | -12 | 12 | 08/21/2025 | 14:45 | LB136917 |
| | Magnesium | 244000 | 255000 | 96 | 216000 | 294000 | 08/21/2025 | 14:45 | LB136917 |
| | Manganese | 7.12 | 7.0 | 102 | -13 | 27 | 08/21/2025 | 14:45 | LB136917 |
| | Nickel | 5.85 | 2.0 | 292 | -38 | 42 | 08/21/2025 | 14:45 | LB136917 |
| | Potassium | 285 | | | 0 | 0 | 08/21/2025 | 14:45 | LB136917 |
| | Selenium | 1.49 | | | -20 | 20 | 08/21/2025 | 14:45 | LB136917 |
| | Silver | 3.43 | | | -10 | 10 | 08/21/2025 | 14:45 | LB136917 |
| | Sodium | 109 | | | 0 | 0 | 08/21/2025 | 14:45 | LB136917 |
| | Thallium | -3.56 | | | -40 | 40 | 08/21/2025 | 14:45 | LB136917 |
| | Vanadium | 4.50 | | | -40 | 40 | 08/21/2025 | 14:45 | LB136917 |
| | Zinc | 1.65 | | | -40 | 40 | 08/21/2025 | 14:45 | LB136917 |
| **ICSAB01** | Aluminum | 248000 | 247000 | 100 | 209000 | 285000 | 08/21/2025 | 14:50 | LB136917 |
| | Antimony | 585 | 618 | 95 | 525 | 711 | 08/21/2025 | 14:50 | LB136917 |
| | Arsenic | 107 | 104 | 103 | 88.4 | 120 | 08/21/2025 | 14:50 | LB136917 |
| | Barium | 478 | 537 | 89 | 437 | 637 | 08/21/2025 | 14:50 | LB136917 |
| | Beryllium | 470 | 495 | 95 | 420 | 570 | 08/21/2025 | 14:50 | LB136917 |
| | Cadmium | 960 | 972 | 99 | 826 | 1120 | 08/21/2025 | 14:50 | LB136917 |
| | Calcium | 236000 | 235000 | 100 | 199000 | 271000 | 08/21/2025 | 14:50 | LB136917 |
| | Chromium | 540 | 542 | 100 | 460 | 624 | 08/21/2025 | 14:50 | LB136917 |
| | Cobalt | 484 | 476 | 102 | 404 | 548 | 08/21/2025 | 14:50 | LB136917 |
| | Copper | 478 | 511 | 94 | 434 | 588 | 08/21/2025 | 14:50 | LB136917 |
| | Iron | 102000 | 99300 | 103 | 84400 | 114500 | 08/21/2025 | 14:50 | LB136917 |
| | Lead | 37.1 | 49.0 | 76 | 37 | 61 | 08/21/2025 | 14:50 | LB136917 |
| | Magnesium | 249000 | 248000 | 100 | 210000 | 286000 | 08/21/2025 | 14:50 | LB136917 |
| | Manganese | 479 | 507 | 94 | 430 | 584 | 08/21/2025 | 14:50 | LB136917 |
| | Nickel | 960 | 954 | 101 | 810 | 1100 | 08/21/2025 | 14:50 | LB136917 |
| | Potassium | -28.4 | | | 0 | 0 | 08/21/2025 | 14:50 | LB136917 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals
## - 4 -
## INTERFERENCE CHECK SAMPLE

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**ICS Source:** EPA **Instrument ID:** P4

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Low Limit (ug/L) | High Limit (ug/L) | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICSAB01 | Selenium | 48.5 | 46.0 | 105 | 26 | 66 | 08/21/2025 | 14:50 | LB136917 |
| | Silver | 210 | 201 | 104 | 170 | 232 | 08/21/2025 | 14:50 | LB136917 |
| | Sodium | 70.2 | | | 0 | 0 | 08/21/2025 | 14:50 | LB136917 |
| | Thallium | 96.0 | 108 | 89 | 68 | 148 | 08/21/2025 | 14:50 | LB136917 |
| | Vanadium | 470 | 491 | 96 | 417 | 565 | 08/21/2025 | 14:50 | LB136917 |
| | Zinc | 1010 | 952 | 106 | 809 | 1095 | 08/21/2025 | 14:50 | LB136917 |

# METAL QC DATA

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# metals
## - 5a -
## MATRIX SPIKE SUMMARY

**client:** First Environment, Inc. **level:** low **sdg no.:** Q2814

**contract:** FIRS02 **lab code:** ACE

**matrix:** Water **sample id:** Q2821-08 **client id:** DM-COMPMS

**Percent Solids for Sample:** NA **Spiked ID:** Q2821-08MS **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | 82 - 119 | 3.70 | | 0.20 | U | 4.0 | 92 | | CV |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# metals
## - 5a -
## MATRIX SPIKE DUPLICATE SUMMARY

**client:** First Environment, Inc. **level:** low **sdg no.:** Q2814

**contract:** FIRS02 **lab code:** ACE

**matrix:** Water **sample id:** Q2821-08 **client id:** DM-COMPMSD

**Percent Solids for Sample:** NA **Spiked ID:** Q2821-08MSD **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit %R | MSD Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | 82 - 119 | 3.82 | | 0.20 | U | 4.0 | 96 | | CV |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# metals
## - 5a -
## MATRIX SPIKE SUMMARY

**client:** First Environment, Inc. **level:** low **sdg no.:** Q2814

**contract:** FIRS02 **lab code:** ACE

**matrix:** Water **sample id:** Q2837-01 **client id:** TW-WTS-13MS

**Percent Solids for Sample:** NA **Spiked ID:** Q2837-01MS **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ug/L | 86 - 115 | 1410 | | 468 | | 1000 | 94 | | P |
| Antimony | ug/L | 88 - 113 | 436 | | 25.0 | U | 400 | 109 | | P |
| Arsenic | ug/L | 87 - 113 | 430 | | 10.0 | U | 400 | 108 | | P |
| Barium | ug/L | 88 - 113 | 320 | | 239 | | 100 | 81 | N | P |
| Beryllium | ug/L | 89 - 112 | 85.3 | | 3.00 | U | 100 | 85 | N | P |
| Cadmium | ug/L | 88 - 113 | 94.9 | | 3.00 | U | 100 | 95 | | P |
| Calcium | ug/L | 87 - 113 | 249000 | | 265000 | | 500 | -3173 | | P |
| Chromium | ug/L | 90 - 113 | 222 | | 28.5 | | 200 | 97 | | P |
| Cobalt | ug/L | 89 - 114 | 98.5 | | 1.99 | J | 100 | 97 | | P |
| Copper | ug/L | 86 - 114 | 158 | | 13.7 | | 150 | 96 | | P |
| Iron | ug/L | 87 - 115 | 4340 | | 2840 | | 1500 | 100 | | P |
| Lead | ug/L | 86 - 113 | 444 | | 1.79 | J | 500 | 88 | | P |
| Magnesium | ug/L | 85 - 113 | 1100 | | 252 | J | 1000 | 85 | | P |
| Manganese | ug/L | 90 - 114 | 101 | | 3.47 | J | 100 | 98 | | P |
| Nickel | ug/L | 88 - 113 | 264 | | 23.9 | | 250 | 96 | | P |
| Potassium | ug/L | 86 - 114 | 221000 | | 228000 | | 5000 | -122 | | P |
| Selenium | ug/L | 83 - 114 | 1080 | | 10.0 | U | 1000 | 108 | | P |
| Silver | ug/L | 84 - 115 | 34.0 | | 5.00 | U | 37.5 | 91 | | P |
| Sodium | ug/L | 87 - 115 | 115000 | | 119000 | | 1500 | -253 | | P |
| Thallium | ug/L | 85 - 114 | 859 | | 20.0 | U | 1000 | 86 | | P |
| Vanadium | ug/L | 90 - 111 | 149 | | 3.33 | J | 150 | 97 | | P |
| Zinc | ug/L | 87 - 115 | 117 | | 20.0 | U | 100 | 117 | N | P |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# metals
## - 5a -
## MATRIX SPIKE DUPLICATE SUMMARY

**client:** First Environment, Inc. **level:** low **sdg no.:** Q2814

**contract:** FIRS02 **lab code:** ACE

**matrix:** Water **sample id:** Q2837-01 **client id:** TW-WTS-13MSD

**Percent Solids for Sample:** NA **Spiked ID:** Q2837-01MSD **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit %R | MSD Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ug/L | 86 - 115 | 1450 | | 468 | | 1000 | 98 | | P |
| Antimony | ug/L | 88 - 113 | 457 | | 25.0 | U | 400 | 114 | N | P |
| Arsenic | ug/L | 87 - 113 | 448 | | 10.0 | U | 400 | 112 | | P |
| Barium | ug/L | 88 - 113 | 336 | | 239 | | 100 | 98 | | P |
| Beryllium | ug/L | 89 - 112 | 86.2 | | 3.00 | U | 100 | 86 | N | P |
| Cadmium | ug/L | 88 - 113 | 96.7 | | 3.00 | U | 100 | 97 | | P |
| Calcium | ug/L | 87 - 113 | 258000 | | 265000 | | 500 | -1371 | | P |
| Chromium | ug/L | 90 - 113 | 226 | | 28.5 | | 200 | 99 | | P |
| Cobalt | ug/L | 89 - 114 | 101 | | 1.99 | J | 100 | 99 | | P |
| Copper | ug/L | 86 - 114 | 164 | | 13.7 | | 150 | 100 | | P |
| Iron | ug/L | 87 - 115 | 4570 | | 2840 | | 1500 | 115 | | P |
| Lead | ug/L | 86 - 113 | 451 | | 1.79 | J | 500 | 90 | | P |
| Magnesium | ug/L | 85 - 113 | 1130 | | 252 | J | 1000 | 88 | | P |
| Manganese | ug/L | 90 - 114 | 99.7 | | 3.47 | J | 100 | 96 | | P |
| Nickel | ug/L | 88 - 113 | 270 | | 23.9 | | 250 | 99 | | P |
| Potassium | ug/L | 86 - 114 | 232000 | | 228000 | | 5000 | 89 | | P |
| Selenium | ug/L | 83 - 114 | 1130 | | 10.0 | U | 1000 | 113 | | P |
| Silver | ug/L | 84 - 115 | 35.2 | | 5.00 | U | 37.5 | 94 | | P |
| Sodium | ug/L | 87 - 115 | 121000 | | 119000 | | 1500 | 153 | | P |
| Thallium | ug/L | 85 - 114 | 886 | | 20.0 | U | 1000 | 89 | | P |
| Vanadium | ug/L | 90 - 111 | 153 | | 3.33 | J | 150 | 100 | | P |
| Zinc | ug/L | 87 - 115 | 120 | | 20.0 | U | 100 | 120 | N | P |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# metals
## - 5a -
## MATRIX SPIKE SUMMARY

**client:** First Environment, Inc. **level:** low **sdg no.:** Q2814

**contract:** FIRS02 **lab code:** ACE

**matrix:** Water **sample id:** Q2842-03 **client id:** MW-17B-55.5-081225MS

**Percent Solids for Sample:** NA **Spiked ID:** Q2842-04 **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | 82 - 119 | 3.75 | | 0.20 | U | 4.0 | 94 | | CV |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# metals
## - 5a -
## MATRIX SPIKE DUPLICATE SUMMARY

**client:** First Environment, Inc. **level:** low **sdg no.:** Q2814

**contract:** FIRS02 **lab code:** ACE

**matrix:** Water **sample id:** Q2842-03 **client id:** MW-17B-55.5-081225MSD

**Percent Solids for Sample:** NA **Spiked ID:** Q2842-05 **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit %R | MSD Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | 82 - 119 | 3.89 | | 0.20 | U | 4.0 | 97 | | CV |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals
## - 5b -
## POST DIGEST SPIKE SUMMARY

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Matrix:** Water **Level:** LOW **Client ID:** TW-WTS-13A

**Sample ID:** Q2837-01 **Spiked ID:** Q2837-01A

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | ug/L | 88 - 113 | 448 | | 25.0 | U | 400 | 112 | | P |
| Barium | ug/L | 88 - 113 | 319 | | 239 | | 100 | 81 | N | P |
| Beryllium | ug/L | 89 - 112 | 81.5 | | 3.00 | U | 100 | 82 | N | P |
| Zinc | ug/L | 87 - 115 | 116 | | 20.0 | U | 100 | 116 | N | P |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 6 -
## DUPLICATE SAMPLE SUMMARY

**Client:** First Environment, Inc. **Level:** LOW **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Matrix:** Water **Sample ID:** Q2821-08 **Client ID:** DM-COMPDUP

**Percent Solids for Sample:** NA **Duplicate ID** Q2821-08DUP **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | 20 | 0.20 | U | 0.20 | U | | | CV |

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 6 -
## DUPLICATE SAMPLE SUMMARY

**Client:** First Environment, Inc. **Level:** LOW **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Matrix:** Water **Sample ID:** Q2821-08MS **Client ID:** DM-COMPMSD

**Percent Solids for Sample:** NA **Duplicate ID** Q2821-08MSD **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | 20 | 3.70 | | 3.82 | | 3 | | CV |

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 6 -
## DUPLICATE SAMPLE SUMMARY

**Client:** First Environment, Inc. **Level:** LOW **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Matrix:** Water **Sample ID:** Q2837-01 **Client ID:** TW-WTS-13DUP

**Percent Solids for Sample:** NA **Duplicate ID** Q2837-01DUP **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ug/L | 20 | 468 | | 451 | | 4 | | P |
| Antimony | ug/L | 20 | 25.0 | U | 25.0 | U | | | P |
| Arsenic | ug/L | 20 | 10.0 | U | 10.0 | U | | | P |
| Barium | ug/L | 20 | 239 | | 226 | | 6 | | P |
| Beryllium | ug/L | 20 | 3.00 | U | 3.00 | U | | | P |
| Cadmium | ug/L | 20 | 3.00 | U | 3.00 | U | | | P |
| Calcium | ug/L | 20 | 265000 | | 253000 | | 5 | | P |
| Chromium | ug/L | 20 | 28.5 | | 27.0 | | 5 | | P |
| Cobalt | ug/L | 20 | 1.99 | J | 1.89 | J | 5 | | P |
| Copper | ug/L | 20 | 13.7 | | 12.9 | | 6 | | P |
| Iron | ug/L | 20 | 2840 | | 2750 | | 3 | | P |
| Lead | ug/L | 20 | 1.79 | J | 1.81 | J | 1 | | P |
| Magnesium | ug/L | 20 | 252 | J | 237 | J | 6 | | P |
| Manganese | ug/L | 20 | 3.47 | J | 3.25 | J | 7 | | P |
| Nickel | ug/L | 20 | 23.9 | | 22.6 | | 6 | | P |
| Potassium | ug/L | 20 | 228000 | | 217000 | | 5 | | P |
| Selenium | ug/L | 20 | 10.0 | U | 10.0 | U | | | P |
| Silver | ug/L | 20 | 5.00 | U | 5.00 | U | | | P |
| Sodium | ug/L | 20 | 119000 | | 112000 | | 6 | | P |
| Thallium | ug/L | 20 | 20.0 | U | 20.0 | U | | | P |
| Vanadium | ug/L | 20 | 3.33 | J | 3.38 | J | 1 | | P |
| Zinc | ug/L | 20 | 20.0 | U | 20.0 | U | | | P |

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** First Environment, Inc. **Level:** LOW **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Matrix:** Water **Sample ID:** Q2837-01MS **Client ID:** TW-WTS-13MSD

**Percent Solids for Sample:** NA **Duplicate ID** Q2837-01MSD **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | ug/L | 20 | 1410 | | 1450 | | 3 | | P |
| Antimony | ug/L | 20 | 436 | | 457 | | 5 | | P |
| Arsenic | ug/L | 20 | 430 | | 448 | | 4 | | P |
| Barium | ug/L | 20 | 320 | | 336 | | 5 | | P |
| Beryllium | ug/L | 20 | 85.3 | | 86.2 | | 1 | | P |
| Cadmium | ug/L | 20 | 94.9 | | 96.7 | | 2 | | P |
| Calcium | ug/L | 20 | 249000 | | 258000 | | 4 | | P |
| Chromium | ug/L | 20 | 222 | | 226 | | 2 | | P |
| Cobalt | ug/L | 20 | 98.5 | | 101 | | 3 | | P |
| Copper | ug/L | 20 | 158 | | 164 | | 4 | | P |
| Iron | ug/L | 20 | 4340 | | 4570 | | 5 | | P |
| Lead | ug/L | 20 | 444 | | 451 | | 2 | | P |
| Magnesium | ug/L | 20 | 1100 | | 1130 | | 3 | | P |
| Manganese | ug/L | 20 | 101 | | 99.7 | | 1 | | P |
| Nickel | ug/L | 20 | 264 | | 270 | | 2 | | P |
| Potassium | ug/L | 20 | 221000 | | 232000 | | 5 | | P |
| Selenium | ug/L | 20 | 1080 | | 1130 | | 5 | | P |
| Silver | ug/L | 20 | 34.0 | | 35.2 | | 3 | | P |
| Sodium | ug/L | 20 | 115000 | | 121000 | | 5 | | P |
| Thallium | ug/L | 20 | 859 | | 886 | | 3 | | P |
| Vanadium | ug/L | 20 | 149 | | 153 | | 3 | | P |
| Zinc | ug/L | 20 | 117 | | 120 | | 3 | | P |

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 6 -
## DUPLICATE SAMPLE SUMMARY

**Client:** First Environment, Inc. **Level:** LOW **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Matrix:** Water **Sample ID:** Q2842-03 **Client ID:** MW-17B-55.5-081225DUP

**Percent Solids for Sample:** NA **Duplicate ID** Q2842-03DUP **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | 20 | 0.20 | U | 0.20 | U | | | CV |

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## - 6 -
## DUPLICATE SAMPLE SUMMARY

**Client:** First Environment, Inc. **Level:** LOW **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Matrix:** Water **Sample ID:** Q2842-04 **Client ID:** MW-17B-55.5-081225MSD

**Percent Solids for Sample:** NA **Duplicate ID** Q2842-05 **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | 20 | 3.75 | | 3.89 | | 4 | | CV |

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922



## LABORATORY CONTROL SAMPLE SUMMARY

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB169202BS | | | | | | | |
| Mercury | ug/L | 4.0 | 4.14 | | 104 | 82 - 119 | CV |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922



## LABORATORY CONTROL SAMPLE SUMMARY

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB169232BS | | | | | | | |
| Aluminum | ug/L | 1000 | 1020 | | 102 | 86 - 115 | P |
| Antimony | ug/L | 400 | 414 | | 104 | 88 - 113 | P |
| Arsenic | ug/L | 400 | 400 | | 100 | 87 - 113 | P |
| Barium | ug/L | 100 | 97.5 | | 98 | 88 - 113 | P |
| Beryllium | ug/L | 100 | 102 | | 102 | 89 - 112 | P |
| Cadmium | ug/L | 100 | 97.0 | | 97 | 88 - 113 | P |
| Calcium | ug/L | 500 | 530 | J | 106 | 87 - 113 | P |
| Chromium | ug/L | 200 | 210 | | 105 | 90 - 113 | P |
| Cobalt | ug/L | 100 | 99.9 | | 100 | 89 - 114 | P |
| Copper | ug/L | 150 | 158 | | 105 | 86 - 114 | P |
| Iron | ug/L | 1500 | 1520 | | 101 | 87 - 115 | P |
| Lead | ug/L | 500 | 488 | | 98 | 86 - 113 | P |
| Magnesium | ug/L | 1000 | 1030 | | 103 | 85 - 113 | P |
| Manganese | ug/L | 100 | 103 | | 103 | 90 - 114 | P |
| Nickel | ug/L | 250 | 251 | | 100 | 88 - 113 | P |
| Potassium | ug/L | 5000 | 4910 | | 98 | 86 - 114 | P |
| Selenium | ug/L | 1000 | 1010 | | 101 | 83 - 114 | P |
| Silver | ug/L | 37.5 | 38.8 | | 104 | 84 - 115 | P |
| Sodium | ug/L | 1500 | 1400 | | 93 | 87 - 115 | P |
| Thallium | ug/L | 1000 | 1070 | | 107 | 85 - 114 | P |
| Vanadium | ug/L | 150 | 154 | | 103 | 90 - 111 | P |
| Zinc | ug/L | 100 | 106 | | 106 | 87 - 115 | P |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922



## LABORATORY CONTROL SAMPLE SUMMARY

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB169249BS | | | | | | | |
| Mercury | ug/L | 4.0 | 4.19 | | 105 | 82 - 119 | CV |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## -9 -

## ICP SERIAL DILUTIONS

SAMPLE NO.

DM-COMPL

**Lab Name:** Alliance **Contract:** FIRS02

**Lab Code:** ACE **Lb No.:** lb136788 **Lab Sample ID :** Q2821-08L **SDG No.:** Q2814

**Matrix (soil/water):** Water **Level (low/med):** LOW

**Concentration Units:** ug/L

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | M |
|---|---|---|---|---|---|---|---|
| Mercury | 0.20 | U | 0.40 | J | 100.0 | | CV |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## -9 -

## ICP SERIAL DILUTIONS

SAMPLE NO.

TW-WTS-13L

**Lab Name:** Alliance **Contract:** FIRS02

**Lab Code:** ACE **Lb No.:** lb136837 **Lab Sample ID :** Q2837-01L **SDG No.:** Q2814

**Matrix (soil/water):** Water **Level (low/med):** LOW

**Concentration Units:** ug/L

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | M |
|---|---|---|---|---|---|---|---|
| Aluminum | 468 | | 512 | | 9 | | P |
| Antimony | 25.0 | U | 125 | U | | | P |
| Arsenic | 10.0 | U | 50.0 | U | | | P |
| Barium | 239 | | 218 | J | 9 | | P |
| Beryllium | 3.00 | U | 15.0 | U | | | P |
| Cadmium | 3.00 | U | 15.0 | U | | | P |
| Calcium | 265000 | | 272000 | | 3 | | P |
| Chromium | 28.5 | | 28.0 | | 1 | | P |
| Cobalt | 1.99 | J | 75.0 | U | 100.0 | | P |
| Copper | 13.7 | | 13.9 | J | 2 | | P |
| Iron | 2840 | | 2730 | | 4 | | P |
| Lead | 1.79 | J | 30.0 | U | 100.0 | | P |
| Magnesium | 252 | J | 5000 | U | 100.0 | | P |
| Manganese | 3.47 | J | 50.0 | U | 100.0 | | P |
| Nickel | 23.9 | | 24.6 | J | 3 | | P |
| Potassium | 228000 | | 211000 | | 7 | | P |
| Selenium | 10.0 | U | 50.0 | U | | | P |
| Silver | 5.00 | U | 25.0 | U | | | P |
| Sodium | 119000 | | 104000 | | 13 | | P |
| Thallium | 20.0 | U | 100 | U | | | P |
| Vanadium | 3.33 | J | 100 | U | 100.0 | | P |
| Zinc | 20.0 | U | 100 | U | | | P |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals

## -9 -

## ICP SERIAL DILUTIONS

SAMPLE NO.

MW-17B-55.5-081225L

**Lab Name:** Alliance **Contract:** FIRS02

**Lab Code:** ACE **Lb No.:** lb136836 **Lab Sample ID :** Q2842-03L **SDG No.:** Q2814

**Matrix (soil/water):** Water **Level (low/med):** LOW

**Concentration Units:** ug/L

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | M |
|---|---|---|---|---|---|---|---|
| Mercury | 0.20 | U | 1.00 | U | | | CV |

# METAL PREPARATION & INSTRUMENT DATA

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Al | Ca | Fe | Mg | Ag |
|---|---|---|---|---|---|---|
| Aluminum | 396.100 | 0.0000000 | -0.0002060 | 0.0000000 | 0.0000000 | 0.0000000 |
| Antimony | 206.833 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Arsenic | 193.759 | 0.0000000 | 0.0000000 | -0.0000440 | 0.0000000 | 0.0000000 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Beryllium | 234.861 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000000 | 0.0000930 | 0.0000000 | 0.0000000 |
| Calcium | 373.690 | 0.0000000 | 0.0000000 | -0.0075970 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cobalt | 228.616 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper | 224.700 | 0.0000000 | 0.0000000 | 0.0007850 | 0.0000000 | 0.0000000 |
| Iron | 240.488 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | -0.0000920 | 0.0000000 | 0.0000380 | 0.0000000 | 0.0000000 |
| Magnesium | 279.079 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 257.610 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Nickel | 231.604 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Potassium | 766.490 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | -0.0001440 | 0.0000000 | 0.0000000 |
| Silver | 328.068 | 0.0000000 | 0.0000000 | -0.0001490 | 0.0000000 | 0.0000000 |
| Sodium | 589.592 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.856 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Vanadium | 292.402 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 213.800 | 0.0000000 | 0.0000000 | 0.0001050 | 0.0000000 | 0.0000000 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: As | Ba | Be | Cd | Co |
|---|---|---|---|---|---|---|
| Aluminum | 396.100 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Antimony | 206.833 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Arsenic | 193.759 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Beryllium | 234.861 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0002870 |
| Calcium | 373.690 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cobalt | 228.616 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper | 224.700 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0009530 |
| Iron | 240.488 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0039600 |
| Lead | 220.353 | 0.0000000 | 0.0003170 | 0.0000000 | 0.0000000 | 0.0000000 |
| Magnesium | 279.079 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 257.610 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Nickel | 231.604 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Potassium | 766.490 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0003570 |
| Silver | 328.068 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Sodium | 589.592 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.856 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0054900 |
| Vanadium | 292.402 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 213.800 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Cr | Cu | K | Mn | Mo |
|---|---|---|---|---|---|---|
| Aluminum | 396.100 | 0.0000000 | 0.0000000 | 0.0000590 | 0.0000000 | 0.0396900 |
| Antimony | 206.833 | 0.0122000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Arsenic | 193.759 | -0.0029000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0004900 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Beryllium | 234.861 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0000710 | -0.0003400 |
| Cadmium | 226.502 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Calcium | 373.690 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000070 | 0.0002200 | 0.0000000 |
| Cobalt | 228.616 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0007860 |
| Copper | 224.700 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0006510 | 0.0020500 |
| Iron | 240.488 | 0.0000000 | 0.0000000 | 0.0000730 | 0.0000000 | -0.0015250 |
| Lead | 220.353 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0001400 | -0.0008600 |
| Magnesium | 279.079 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 257.610 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Nickel | 231.604 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Potassium | 766.490 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0007460 | 0.0000000 |
| Silver | 328.068 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0000120 |
| Sodium | 589.592 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.856 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0017400 | -0.0100400 |
| Vanadium | 292.402 | -0.0025100 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0072000 |
| Zinc | 213.800 | 0.0000000 | 0.0009010 | 0.0000000 | 0.0000000 | 0.0000000 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Na | Ni | Pb | Sb | Se |
|---|---|---|---|---|---|---|
| Aluminum | 396.100 | 0.0000000 | 0.0000000 | 0.0012800 | 0.0000000 | 0.0000000 |
| Antimony | 206.833 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Arsenic | 193.759 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Beryllium | 234.861 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Calcium | 373.690 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cobalt | 228.616 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper | 224.700 | 0.0000000 | -0.0047000 | 0.0036100 | 0.0000000 | 0.0000000 |
| Iron | 240.488 | 0.0000000 | -0.0017000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | 0.0000000 | 0.0006580 | 0.0000000 | 0.0000000 | 0.0001290 |
| Magnesium | 279.079 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 257.610 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Nickel | 231.604 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Potassium | 766.490 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | 0.0003330 | 0.0000000 | 0.0000000 |
| Silver | 328.068 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Sodium | 589.592 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.856 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Vanadium | 292.402 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 213.800 | 0.0000000 | 0.0067600 | 0.0000000 | 0.0000000 | 0.0000000 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

# Metals
## - 11 -
## ICP INTERELEMENT CORRECTION FACTORS

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE

**Instrument ID:** **Date:**

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte | Wave-Length (nm) | ICP Interelement Correction Factors For: Sn | Ti | Tl | V | Zn |
|---|---|---|---|---|---|---|
| Aluminum | 396.100 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Antimony | 206.833 | -0.0035600 | -0.0007970 | 0.0000000 | -0.0018900 | 0.0000000 |
| Arsenic | 193.759 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Barium | 493.409 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Beryllium | 234.861 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium | 226.502 | 0.0000000 | 0.0000630 | 0.0001280 | 0.0000000 | 0.0000000 |
| Calcium | 373.690 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium | 267.716 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0001110 | 0.0000000 |
| Cobalt | 228.616 | 0.0000000 | 0.0018800 | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper | 224.700 | 0.0000000 | 0.0003840 | 0.0000000 | 0.0000000 | 0.0000000 |
| Iron | 240.488 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead | 220.353 | 0.0000000 | -0.0003610 | 0.0000000 | 0.0000000 | 0.0000000 |
| Magnesium | 279.079 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 257.610 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Nickel | 231.604 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Potassium | 766.490 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium | 196.090 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Silver | 328.068 | 0.0000000 | -0.0007420 | 0.0000000 | 0.0000000 | 0.0000000 |
| Sodium | 589.592 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium | 190.856 | 0.0000000 | -0.0039700 | 0.0000000 | -0.0115600 | 0.0000000 |
| Vanadium | 292.402 | 0.0000000 | 0.0005320 | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc | 213.800 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

# METAL PREPARATION & ANALYICAL SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals
## - 13 -
## SAMPLE PREPARATION SUMMARY

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE **Method:**

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(mL) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB169202** | | | | | | |
| PB169202BL | PB169202BL | MB | WATER | 08/12/2025 | 30.0 | 30.0 | |
| PB169202BS | PB169202BS | LCS | WATER | 08/12/2025 | 30.0 | 30.0 | |
| Q2814-01 | TW-84SB-E | SAM | WATER | 08/12/2025 | 30.0 | 30.0 | |
| Q2814-03 | TW-17M-W | SAM | WATER | 08/12/2025 | 30.0 | 30.0 | |
| Q2814-16 | FB | SAM | WATER | 08/12/2025 | 30.0 | 30.0 | |
| Q2814-17 | TW-518R-S | SAM | WATER | 08/12/2025 | 30.0 | 30.0 | |
| Q2821-08DUP | DM-COMPDUP | DUP | WATER | 08/12/2025 | 30.0 | 30.0 | |
| Q2821-08MS | DM-COMPMS | MS | WATER | 08/12/2025 | 30.0 | 30.0 | |
| Q2821-08MSD | DM-COMPMSD | MSD | WATER | 08/12/2025 | 30.0 | 30.0 | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals
## - 13 -
## SAMPLE PREPARATION SUMMARY

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE **Method:**

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(mL) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB169232** | | | | | | |
| PB169232BL | PB169232BL | MB | WATER | 08/13/2025 | 50.0 | 25.0 | |
| PB169232BS | PB169232BS | LCS | WATER | 08/13/2025 | 50.0 | 25.0 | |
| Q2814-01 | TW-84SB-E | SAM | WATER | 08/13/2025 | 50.0 | 25.0 | |
| Q2814-03 | TW-17M-W | SAM | WATER | 08/13/2025 | 50.0 | 25.0 | |
| Q2814-16 | FB | SAM | WATER | 08/13/2025 | 50.0 | 25.0 | |
| Q2814-17 | TW-518R-S | SAM | WATER | 08/13/2025 | 50.0 | 25.0 | |
| Q2814-22 | TW-84SB-E | SAM | WATER | 08/13/2025 | 50.0 | 25.0 | |
| Q2814-23 | TW-17M-W | SAM | WATER | 08/13/2025 | 50.0 | 25.0 | |
| Q2837-01DUP | TW-WTS-13DUP | DUP | WATER | 08/13/2025 | 50.0 | 25.0 | |
| Q2837-01MS | TW-WTS-13MS | MS | WATER | 08/13/2025 | 50.0 | 25.0 | |
| Q2837-01MSD | TW-WTS-13MSD | MSD | WATER | 08/13/2025 | 50.0 | 25.0 | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals
## - 13 -
## SAMPLE PREPARATION SUMMARY

**Client:** First Environment, Inc. **SDG No.:** Q2814

**Contract:** FIRS02 **Lab Code:** ACE **Method:**

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(mL) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB169249** | | | | | | |
| PB169249BL | PB169249BL | MB | WATER | 08/14/2025 | 30.0 | 30.0 | |
| PB169249BS | PB169249BS | LCS | WATER | 08/14/2025 | 30.0 | 30.0 | |
| Q2814-22 | TW-84SB-E | SAM | WATER | 08/14/2025 | 30.0 | 30.0 | |
| Q2814-23 | TW-17M-W | SAM | WATER | 08/14/2025 | 30.0 | 30.0 | |
| Q2842-03DUP | MW-17B-55.5-081225DUP | DUP | WATER | 08/14/2025 | 30.0 | 30.0 | |
| Q2842-04 | MW-17B-55.5-081225MS | MS | WATER | 08/14/2025 | 30.0 | 30.0 | |
| Q2842-05 | MW-17B-55.5-081225MSD | MSD | WATER | 08/14/2025 | 30.0 | 30.0 | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

**metals**
**- 14 -**
**ANALYSIS RUN LOG**

**Client:** First Environment, Inc. **Contract:** FIRS02

**Lab code:** ACE **Sdg no.:** Q2814

**Instrument id number:** **Method:** **Run number:** LB136788

**Start date:** 08/12/2025 **End date:** 08/12/2025

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1407 | HG |
| S0.2 | S0.2 | 1 | 1409 | HG |
| S2.5 | S2.5 | 1 | 1411 | HG |
| S5 | S5 | 1 | 1414 | HG |
| S7.5 | S7.5 | 1 | 1416 | HG |
| S10 | S10 | 1 | 1418 | HG |
| ICV10 | ICV10 | 1 | 1421 | HG |
| ICB10 | ICB10 | 1 | 1423 | HG |
| CCV29 | CCV29 | 1 | 1426 | HG |
| CCB29 | CCB29 | 1 | 1428 | HG |
| CRA | CRA | 1 | 1430 | HG |
| PB169202BL | PB169202BL | 1 | 1437 | HG |
| PB169202BS | PB169202BS | 1 | 1442 | HG |
| Q2814-01 | TW-84SB-E | 1 | 1450 | HG |
| Q2814-03 | TW-17M-W | 1 | 1452 | HG |
| Q2814-16 | FB | 1 | 1454 | HG |
| CCV30 | CCV30 | 1 | 1456 | HG |
| CCB30 | CCB30 | 1 | 1459 | HG |
| Q2814-17 | TW-518R-S | 1 | 1501 | HG |
| Q2821-08DUP | DM-COMPDUP | 1 | 1517 | HG |
| Q2821-08MS | DM-COMPMS | 1 | 1519 | HG |
| Q2821-08MSD | DM-COMPMSD | 1 | 1522 | HG |
| CCV31 | CCV31 | 1 | 1524 | HG |
| CCB31 | CCB31 | 1 | 1526 | HG |
| Q2821-08L | DM-COMPL | 5 | 1529 | HG |
| CCV32 | CCV32 | 1 | 1535 | HG |
| CCB32 | CCB32 | 1 | 1538 | HG |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

**metals**
**- 14 -**
**ANALYSIS RUN LOG**

**Client:** First Environment, Inc. **Contract:** FIRS02

**Lab code:** ACE **Sdg no.:** Q2814

**Instrument id number:** **Method:** **Run number:** LB136836

**Start date:** 08/15/2025 **End date:** 08/15/2025

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1125 | HG |
| S0.2 | S0.2 | 1 | 1128 | HG |
| S2.5 | S2.5 | 1 | 1130 | HG |
| S5 | S5 | 1 | 1132 | HG |
| S7.5 | S7.5 | 1 | 1135 | HG |
| S10 | S10 | 1 | 1137 | HG |
| ICV18 | ICV18 | 1 | 1140 | HG |
| ICB18 | ICB18 | 1 | 1145 | HG |
| CCV54 | CCV54 | 1 | 1211 | HG |
| CCB54 | CCB54 | 1 | 1213 | HG |
| CRA | CRA | 1 | 1216 | HG |
| PB169249BL | PB169249BL | 1 | 1222 | HG |
| PB169249BS | PB169249BS | 1 | 1225 | HG |
| Q2814-22 | TW-84SB-E | 1 | 1227 | HG |
| Q2814-23 | TW-17M-W | 1 | 1229 | HG |
| CCV55 | CCV55 | 1 | 1238 | HG |
| CCB55 | CCB55 | 1 | 1241 | HG |
| Q2842-03DUP | MW-17B-55.5-081225DUP | 1 | 1245 | HG |
| Q2842-04 | MW-17B-55.5-081225MS | 1 | 1248 | HG |
| Q2842-05 | MW-17B-55.5-081225MSD | 1 | 1250 | HG |
| Q2842-03L | MW-17B-55.5-081225L | 5 | 1304 | HG |
| CCV56 | CCV56 | 1 | 1309 | HG |
| CCB56 | CCB56 | 1 | 1311 | HG |
| CCV57 | CCV57 | 1 | 1315 | HG |
| CCB57 | CCB57 | 1 | 1318 | HG |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

**metals**
**- 14 -**
**ANALYSIS RUN LOG**

**Client:** First Environment, Inc. **Contract:** FIRS02

**Lab code:** ACE **Sdg no.:** Q2814

**Instrument id number:** **Method:** **Run number:** LB136837

**Start date:** 08/14/2025 **End date:** 08/14/2025

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1139 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S1 | S1 | 1 | 1144 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S2 | S2 | 1 | 1148 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S3 | S3 | 1 | 1152 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S4 | S4 | 1 | 1156 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S5 | S5 | 1 | 1200 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICV01 | ICV01 | 1 | 1205 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| LLICV01 | LLICV01 | 1 | 1209 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICB01 | ICB01 | 1 | 1213 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CRI01 | CRI01 | 1 | 1223 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICSA01 | ICSA01 | 1 | 1227 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICSAB01 | ICSAB01 | 1 | 1238 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV01 | CCV01 | 1 | 1250 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB01 | CCB01 | 1 | 1254 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| PB169232BL | PB169232BL | 1 | 1311 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| PB169232BS | PB169232BS | 1 | 1315 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV02 | CCV02 | 1 | 1342 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB02 | CCB02 | 1 | 1346 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV03 | CCV03 | 1 | 1441 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB03 | CCB03 | 1 | 1445 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2814-01 | TW-84SB-E | 1 | 1502 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2814-03 | TW-17M-W | 1 | 1506 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2814-16 | FB | 1 | 1510 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2814-17 | TW-518R-S | 5 | 1515 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV04 | CCV04 | 1 | 1558 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB04 | CCB04 | 1 | 1602 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2837-01DUP | TW-WTS-13DUP | 1 | 1636 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2837-01L | TW-WTS-13L | 5 | 1641 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2837-01MS | TW-WTS-13MS | 1 | 1645 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV05 | CCV05 | 1 | 1650 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB05 | CCB05 | 1 | 1700 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2837-01MSD | TW-WTS-13MSD | 1 | 1704 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2837-01A | TW-WTS-13A | 1 | 1709 | Ba,Be,Sb,Zn |
| CCV06 | CCV06 | 1 | 1754 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB06 | CCB06 | 1 | 1805 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

**metals**
**- 14 -**
**ANALYSIS RUN LOG**

**Client:** First Environment, Inc. **Contract:** FIRS02

**Lab code:** ACE **Sdg no.:** Q2814

**Instrument id number:** **Method:** **Run number:** LB136898

**Start date:** 08/20/2025 **End date:** 08/20/2025

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1238 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S1 | S1 | 1 | 1243 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S2 | S2 | 1 | 1247 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S3 | S3 | 1 | 1251 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S4 | S4 | 1 | 1255 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S5 | S5 | 1 | 1259 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICV01 | ICV01 | 1 | 1304 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| LLICV01 | LLICV01 | 1 | 1317 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICB01 | ICB01 | 1 | 1321 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CRI01 | CRI01 | 1 | 1326 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICSA01 | ICSA01 | 1 | 1330 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICSAB01 | ICSAB01 | 1 | 1334 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV01 | CCV01 | 1 | 1347 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB01 | CCB01 | 1 | 1351 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV02 | CCV02 | 1 | 1439 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB02 | CCB02 | 1 | 1443 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV03 | CCV03 | 1 | 1545 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB03 | CCB03 | 1 | 1549 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV04 | CCV04 | 1 | 1635 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB04 | CCB04 | 1 | 1639 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2814-22 | TW-84SB-E | 1 | 1647 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV05 | CCV05 | 1 | 1709 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB05 | CCB05 | 1 | 1713 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

**metals**
**- 14 -**
**ANALYSIS RUN LOG**

**Client:** First Environment, Inc. **Contract:** FIRS02

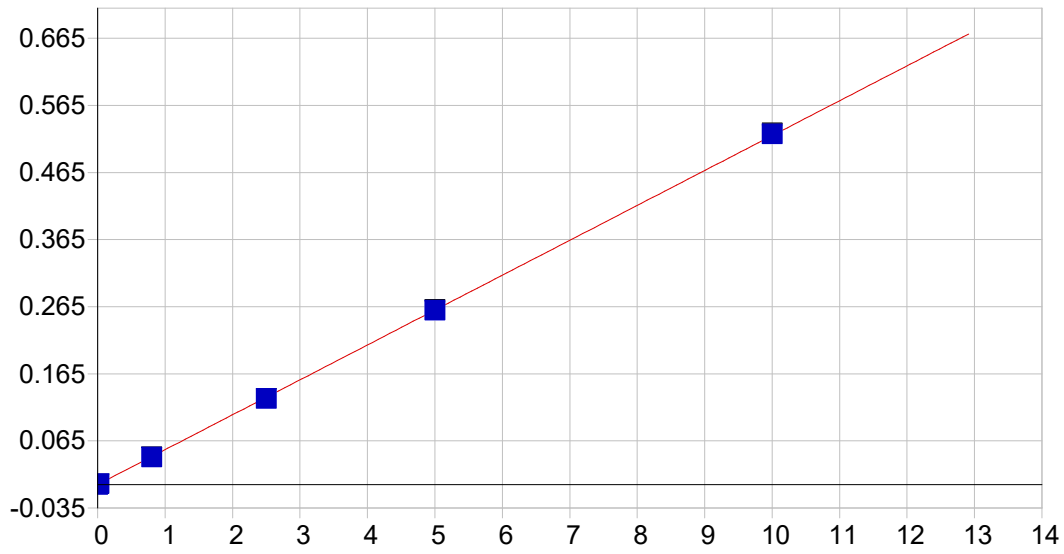
**Lab code:** ACE **Sdg no.:** Q2814

**Instrument id number:** **Method:** **Run number:** LB136917

**Start date:** 08/21/2025 **End date:** 08/21/2025

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1358 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S1 | S1 | 1 | 1403 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S2 | S2 | 1 | 1407 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S3 | S3 | 1 | 1411 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S4 | S4 | 1 | 1415 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S5 | S5 | 1 | 1419 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICV01 | ICV01 | 1 | 1424 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| LLICV01 | LLICV01 | 1 | 1433 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICB01 | ICB01 | 1 | 1437 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CRI01 | CRI01 | 1 | 1441 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICSA01 | ICSA01 | 1 | 1445 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICSAB01 | ICSAB01 | 1 | 1450 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV01 | CCV01 | 1 | 1503 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB01 | CCB01 | 1 | 1507 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV02 | CCV02 | 1 | 1623 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB02 | CCB02 | 1 | 1627 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| Q2814-23 | TW-17M-W | 1 | 1701 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV03 | CCV03 | 1 | 1714 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB03 | CCB03 | 1 | 1718 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV04 | CCV04 | 1 | 1804 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB04 | CCB04 | 1 | 1808 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV05 | CCV05 | 1 | 1852 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB05 | CCB05 | 1 | 1857 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |

# METAL
# RAW DATA

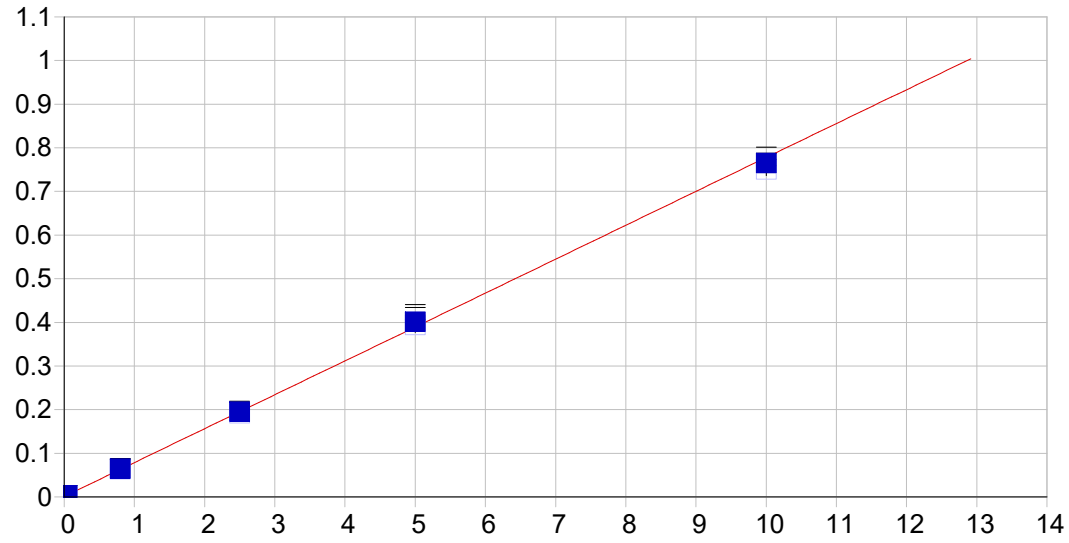



**As 189.042 {479}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000098 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.052011 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999965 | Status: | OK. |
| Std Error of Est: | 0.000010 | | |
| Predicted MDL: | 0.002142 | | |
| Predicted MQL: | 0.007141 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | -.00010 | .000 | 1 |
| S1 | .02000 | .02235 | .002 | 11.8 | .00106 | .000 | 1 |
| S3 | 2.5000 | 2.4617 | -.038 | -1.53 | .12780 | .000 | 1 |
| S4 | 5.0000 | 4.9945 | -.005 | -.109 | .25939 | .001 | 1 |
| S5 | 10.000 | 10.052 | .052 | .518 | .52214 | .001 | 1 |
| S2 | .80000 | .78961 | -.010 | -1.30 | .04093 | .000 | 1 |

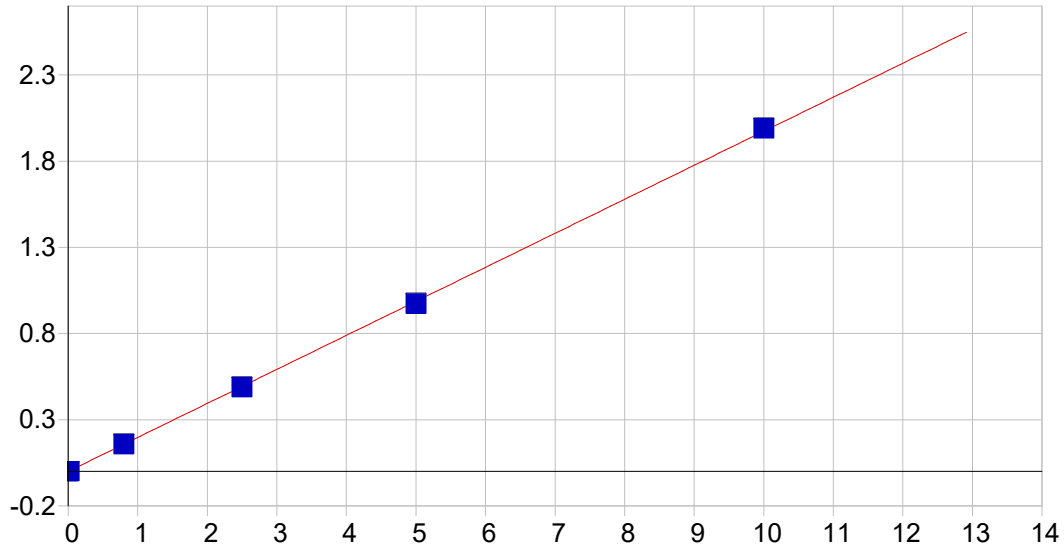



**Tl 190.856 {477}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000925 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.077690 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999778 | Status: | OK. |
| Std Error of Est: | 0.000053 | | |
| Predicted MDL: | 0.001540 | | |
| Predicted MQL: | 0.005133 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00092 | .000 | 1 |
| S1 | .04000 | .04304 | .003 | 7.60 | .00407 | .000 | 1 |
| S3 | 2.5000 | 2.5002 | .000 | .008 | .19162 | .001 | 1 |
| S4 | 5.0000 | 5.1491 | .149 | 2.98 | .39387 | .017 | 1 |
| S5 | 10.000 | 9.8313 | -.169 | -1.69 | .75055 | .014 | 1 |
| S2 | .80000 | .81652 | .017 | 2.07 | .06323 | .001 | 1 |

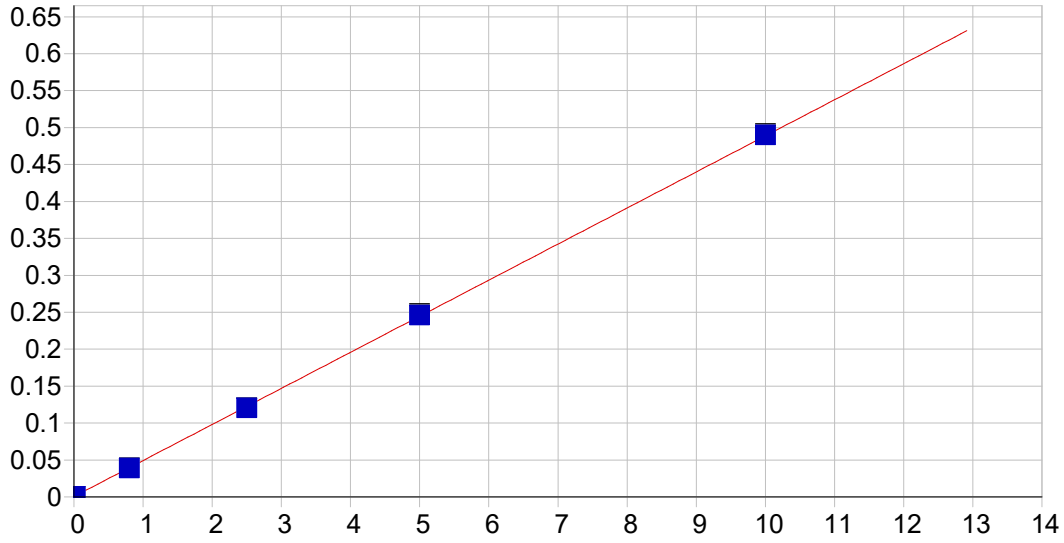



**Pb 220.353 {453}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000064 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.197351 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999950 | Status: | OK. |
| Std Error of Est: | 0.000036 | | |
| Predicted MDL: | 0.001273 | | |
| Predicted MQL: | 0.004245 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00006 | .000 | 1 |
| S1 | .01200 | .01288 | .001 | 7.36 | .00256 | .000 | 1 |
| S3 | 2.5000 | 2.4785 | -.022 | -.862 | .48868 | .000 | 1 |
| S4 | 5.0000 | 4.9357 | -.064 | -1.29 | .97312 | .002 | 1 |
| S5 | 10.000 | 10.087 | .087 | .869 | 1.9887 | .002 | 1 |
| S2 | .80000 | .79800 | -.002 | -.249 | .15739 | .000 | 1 |

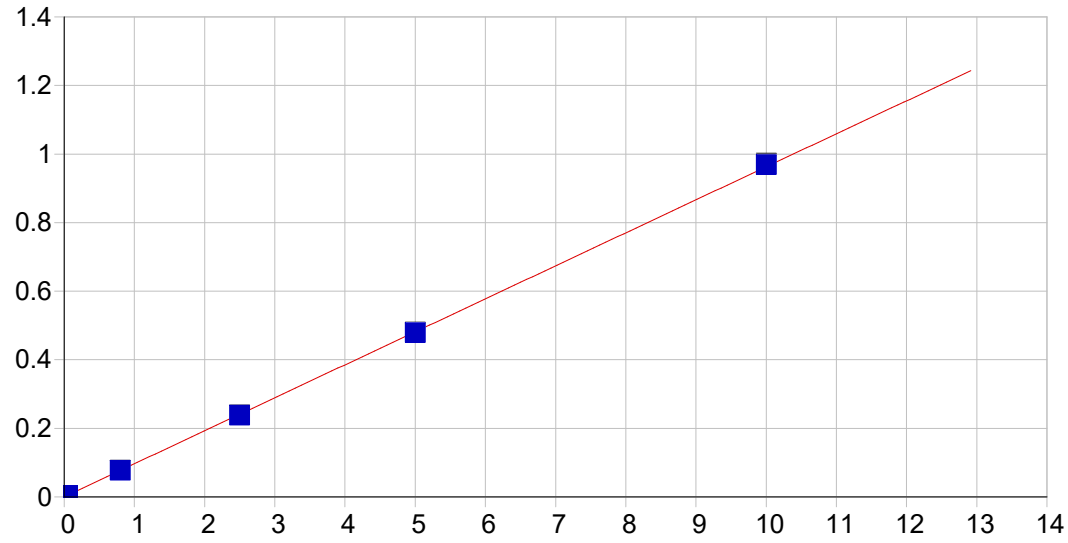



**Se 196.090 {472}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000440 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.048834 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999957 | Status: | OK. |
| Std Error of Est: | 0.000011 | | |
| Predicted MDL: | 0.002861 | | |
| Predicted MQL: | 0.009537 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00044 | .000 | 1 |
| S1 | .02000 | .01717 | -.003 | -14.2 | .00128 | .000 | 1 |
| S3 | 2.5000 | 2.4569 | -.043 | -1.72 | .12039 | .000 | 1 |
| S4 | 5.0000 | 5.0295 | .029 | .589 | .24598 | .002 | 1 |
| S5 | 10.000 | 10.028 | .028 | .280 | .49001 | .001 | 1 |
| S2 | .80000 | .78845 | -.012 | -1.44 | .03893 | .000 | 1 |

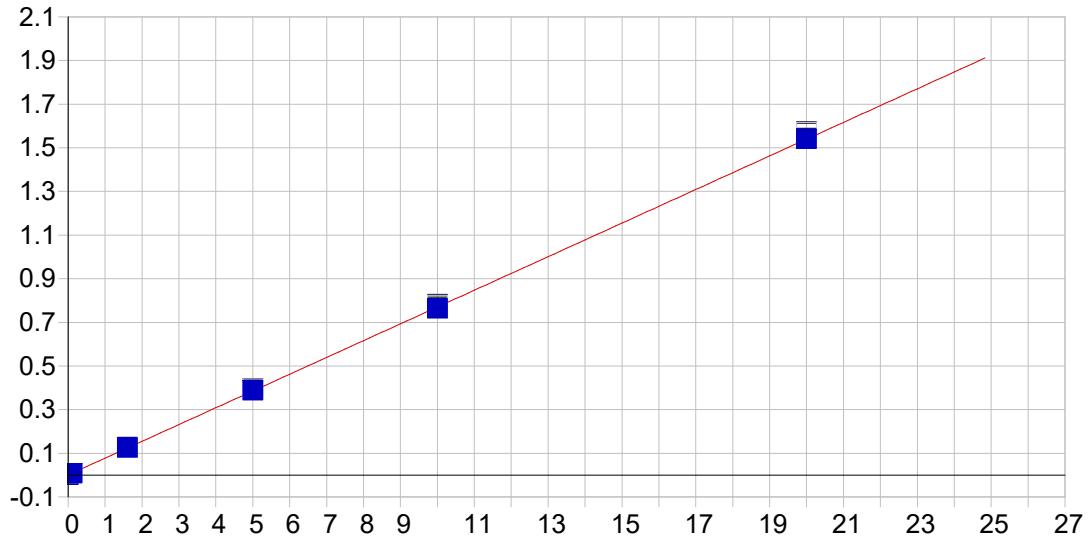



**Sb 206.833 {463}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000407 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.096227 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999972 | Status: | OK. |
| Std Error of Est: | 0.000027 | | |
| Predicted MDL: | 0.001839 | | |
| Predicted MQL: | 0.006130 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00041 | .000 | 1 |
| S1 | .05000 | .05263 | .003 | 5.25 | .00548 | .000 | 1 |
| S3 | 2.5000 | 2.4689 | -.031 | -1.24 | .23863 | .000 | 1 |
| S4 | 5.0000 | 4.9718 | -.028 | -.563 | .48014 | .001 | 1 |
| S5 | 10.000 | 10.059 | .059 | .595 | .97101 | .002 | 1 |
| S2 | .80000 | .79719 | -.003 | -.352 | .07733 | .000 | 1 |

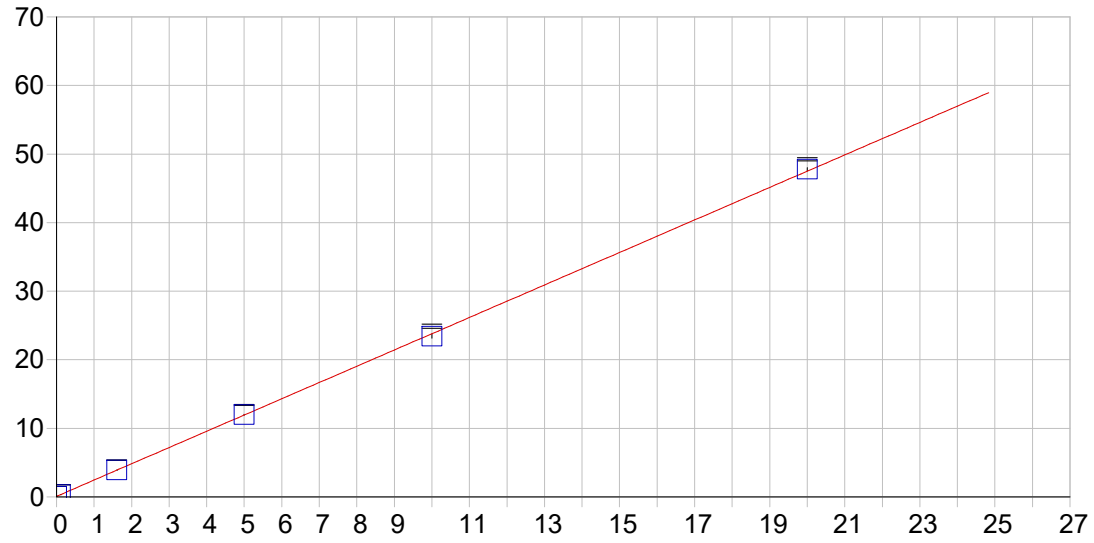



**Al 396.152 { 85}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000669 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.076953 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999982 | Status: | OK. |
| Std Error of Est: | 0.000034 | | |
| Predicted MDL: | 0.010545 | | |
| Predicted MQL: | 0.035152 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00067 | .001 | 1 |
| S1 | .10000 | .10317 | .003 | 3.17 | .00921 | .000 | 1 |
| S3 | 5.0000 | 5.0448 | .045 | .896 | .39635 | .001 | 1 |
| S4 | 10.000 | 9.9226 | -.077 | -.774 | .77917 | .003 | 1 |
| S5 | 20.000 | 20.010 | .010 | .050 | 1.5704 | .003 | 1 |
| S2 | 1.6000 | 1.6194 | .019 | 1.21 | .12767 | .000 | 1 |

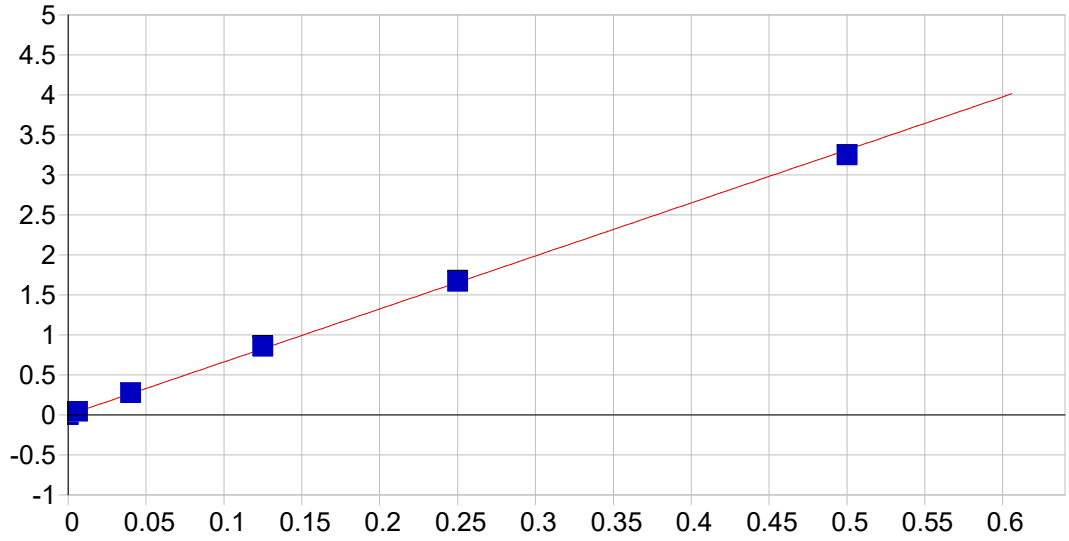



**Ba 493.409 { 68}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.092174 | Re-Slope: | 1.000000 |
| A1 (Gain): | 2.370512 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999954 | Status: | OK. |
| Std Error of Est: | 0.001690 | | |
| Predicted MDL: | 0.001007 | | |
| Predicted MQL: | 0.003355 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .09217 | .002 | 1 |
| S1 | .10000 | .10276 | .003 | 2.76 | .33576 | .001 | 1 |
| S3 | 5.0000 | 5.0161 | .016 | .323 | 11.983 | .069 | 1 |
| S4 | 10.000 | 9.8449 | -.155 | -1.55 | 23.430 | .304 | 1 |
| S5 | 20.000 | 20.127 | .127 | .637 | 47.804 | .239 | 1 |
| S2 | 1.6000 | 1.6088 | .009 | .551 | 3.9059 | .007 | 1 |

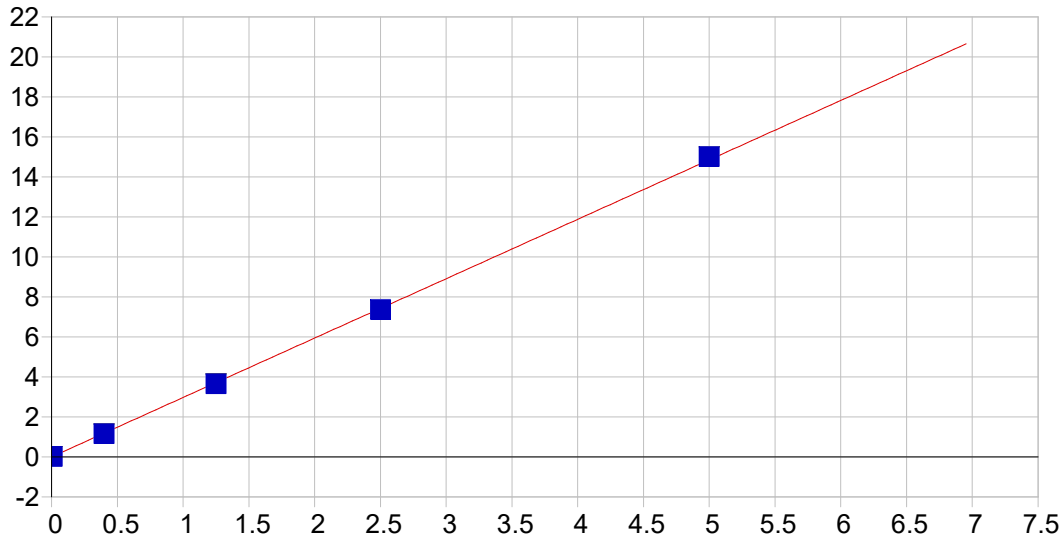



**Be 234.861 {144}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000681 | Re-Slope: | 1.000000 |
| A1 (Gain): | 6.626094 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999701 | Status: | OK. |
| Std Error of Est: | 0.000464 | | |
| Predicted MDL: | 0.000069 | | |
| Predicted MQL: | 0.000231 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | -.00069 | .000 | 1 |
| S1 | .00600 | .00674 | .001 | 12.3 | .04366 | .001 | 1 |
| S3 | .12500 | .12958 | .005 | 3.66 | .85421 | .010 | 1 |
| S4 | .25000 | .25194 | .002 | .776 | 1.6613 | .013 | 1 |
| S5 | .50000 | .49074 | -.009 | -1.85 | 3.2362 | .002 | 1 |
| S2 | .04000 | .04200 | .002 | 5.01 | .27646 | .001 | 1 |

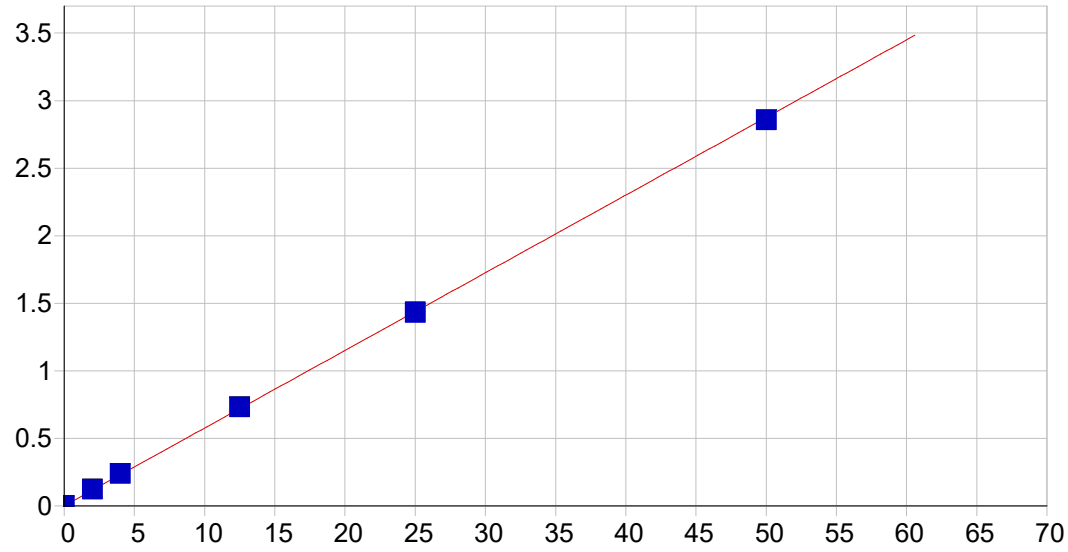



**Cd 226.502 {449}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000432 | Re-Slope: | 1.000000 |
| A1 (Gain): | 2.970490 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999931 | Status: | OK. |
| Std Error of Est: | 0.000317 | | |
| Predicted MDL: | 0.000072 | | |
| Predicted MQL: | 0.000241 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00043 | .000 | 1 |
| S1 | .00600 | .00582 | -.000 | -3.00 | .01692 | .000 | 1 |
| S3 | 1.2500 | 1.2296 | -.020 | -1.63 | 3.6546 | .008 | 1 |
| S4 | 2.5000 | 2.4802 | -.020 | -.793 | 7.3718 | .011 | 1 |
| S5 | 5.0000 | 5.0506 | .051 | 1.01 | 15.012 | .010 | 1 |
| S2 | .40000 | .38977 | -.010 | -2.56 | 1.1582 | .002 | 1 |

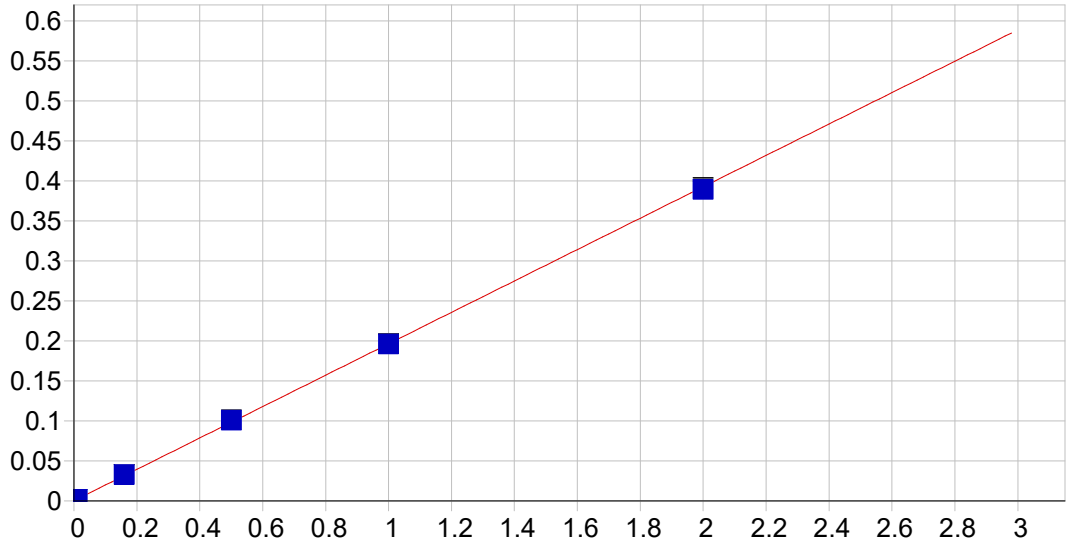



**Ca 373.690 { 90}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.001331 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.057478 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999905 | Status: | OK. |
| Std Error of Est: | 0.000418 | | |
| Predicted MDL: | 0.011076 | | |
| Predicted MQL: | 0.036920 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00019 | -.000 | .000 | .00132 | .000 | 1 |
| S2 | 4.0000 | 4.1265 | .127 | 3.16 | .23852 | .001 | 1 |
| S3 | 12.500 | 12.709 | .209 | 1.67 | .73183 | .002 | 1 |
| S4 | 25.000 | 24.858 | -.142 | -.566 | 1.4301 | .006 | 1 |
| S5 | 50.000 | 49.684 | -.316 | -.631 | 2.8571 | .002 | 1 |
| S1 | 2.0000 | 2.1215 | .121 | 6.07 | .12327 | .001 | 1 |

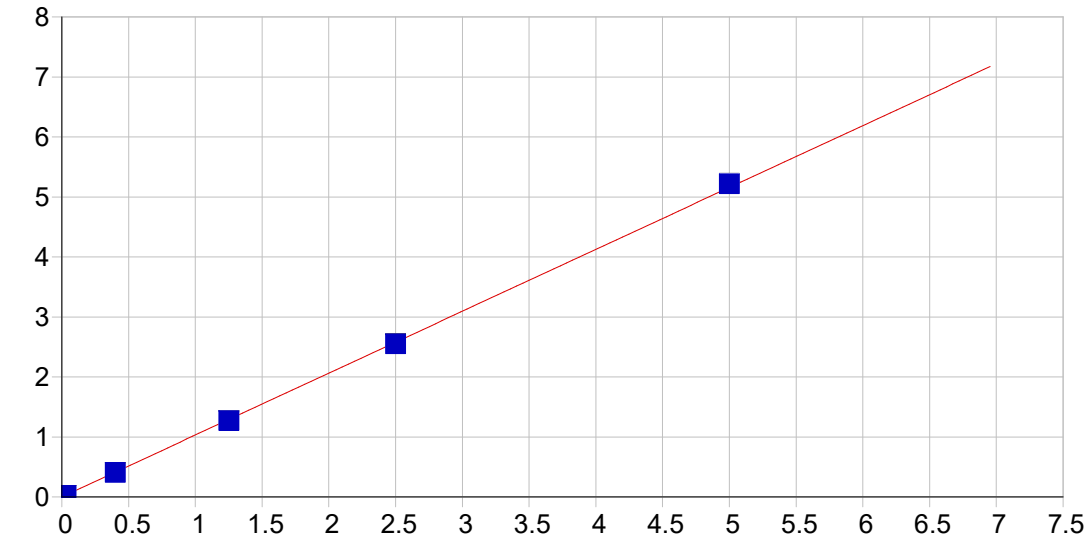



**Cr 267.716 {126}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000191 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.196225 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999899 | Status: | OK. |
| Std Error of Est: | 0.000021 | | |
| Predicted MDL: | 0.000333 | | |
| Predicted MQL: | 0.001111 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00019 | .000 | 1 |
| S1 | .01000 | .01028 | .000 | 2.84 | .00221 | .000 | 1 |
| S3 | .50000 | .51318 | .013 | 2.64 | .10093 | .000 | 1 |
| S4 | 1.0000 | .99745 | -.003 | -.255 | .19599 | .001 | 1 |
| S5 | 2.0000 | 1.9830 | -.017 | -.851 | .38946 | .002 | 1 |
| S2 | .16000 | .16611 | .006 | 3.82 | .03280 | .000 | 1 |

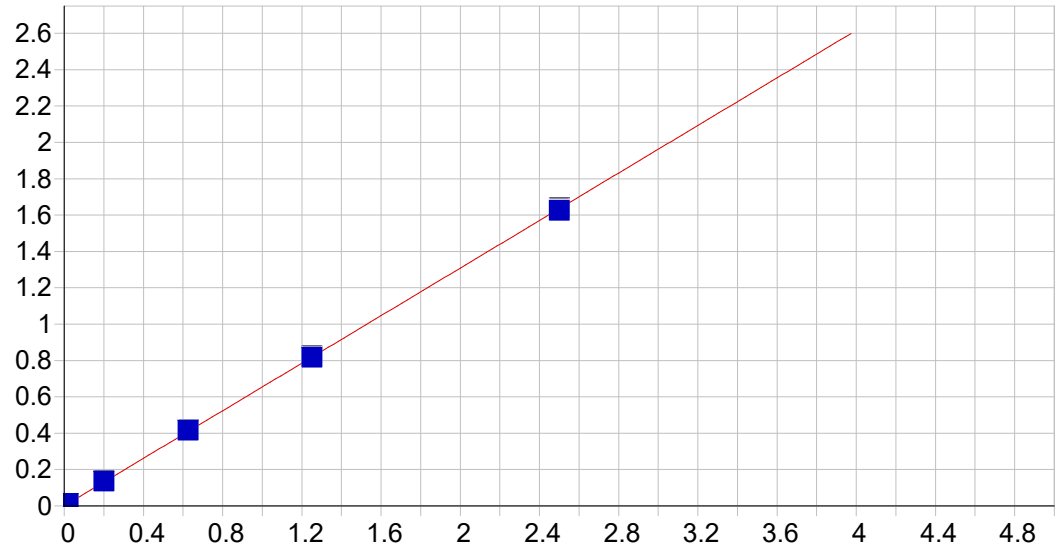



**Co 228.616 {448}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000207 | Re-Slope: | 1.000000 |
| A1 (Gain): | 1.031345 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999918 | Status: | OK. |
| Std Error of Est: | 0.000269 | | |
| Predicted MDL: | 0.000185 | | |
| Predicted MQL: | 0.000616 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00021 | .000 | 1 |
| S1 | .03000 | .03008 | .000 | .260 | .03110 | .000 | 1 |
| S3 | 1.2500 | 1.2290 | -.021 | -1.68 | 1.2700 | .001 | 1 |
| S4 | 2.5000 | 2.4694 | -.031 | -1.23 | 2.5513 | .003 | 1 |
| S5 | 5.0000 | 5.0582 | .058 | 1.16 | 5.2257 | .002 | 1 |
| S2 | .40000 | .39332 | -.007 | -1.67 | .40655 | .000 | 1 |

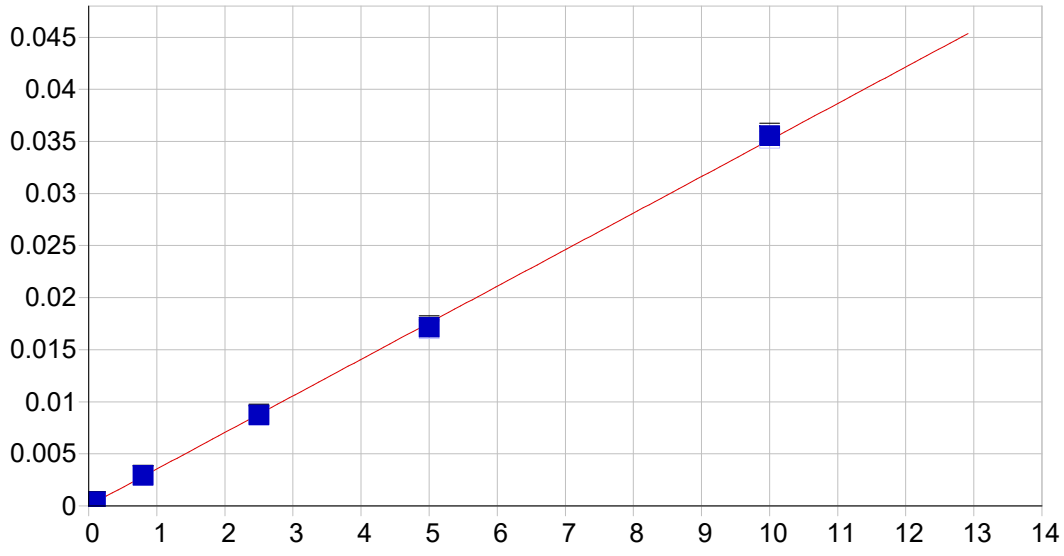



**Cu 224.700 {450}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000464 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.654030 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999939 | Status: | OK. |
| Std Error of Est: | 0.000085 | | |
| Predicted MDL: | 0.000408 | | |
| Predicted MQL: | 0.001360 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00046 | .000 | 1 |
| S1 | .02000 | .02161 | .002 | 8.03 | .01474 | .000 | 1 |
| S3 | .62500 | .63340 | .008 | 1.34 | .41813 | .000 | 1 |
| S4 | 1.2500 | 1.2485 | -.002 | -.123 | .82381 | .002 | 1 |
| S5 | 2.5000 | 2.4848 | -.015 | -.610 | 1.6392 | .001 | 1 |
| S2 | .20000 | .20676 | .007 | 3.38 | .13678 | .000 | 1 |

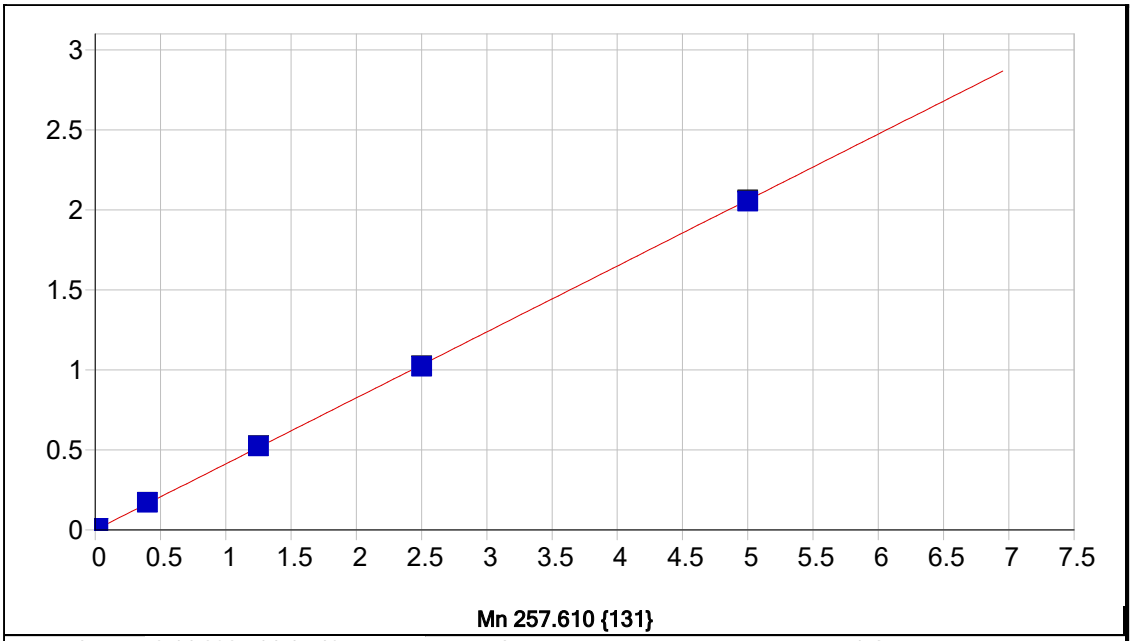



**Fe 240.488 {140}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000029 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.003510 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999843 | Status: | OK. |
| Std Error of Est: | 0.000003 | | |
| Predicted MDL: | 0.006149 | | |
| Predicted MQL: | 0.020497 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00003 | .000 | 1 |
| S1 | .10000 | .10135 | .001 | 1.35 | .00038 | .000 | 1 |
| S3 | 2.5000 | 2.4798 | -.020 | -.806 | .00866 | .000 | 1 |
| S4 | 5.0000 | 4.8722 | -.128 | -2.56 | .01698 | .000 | 1 |
| S5 | 10.000 | 10.122 | .122 | 1.22 | .03526 | .000 | 1 |
| S2 | .80000 | .82443 | .024 | 3.05 | .00290 | .000 | 1 |

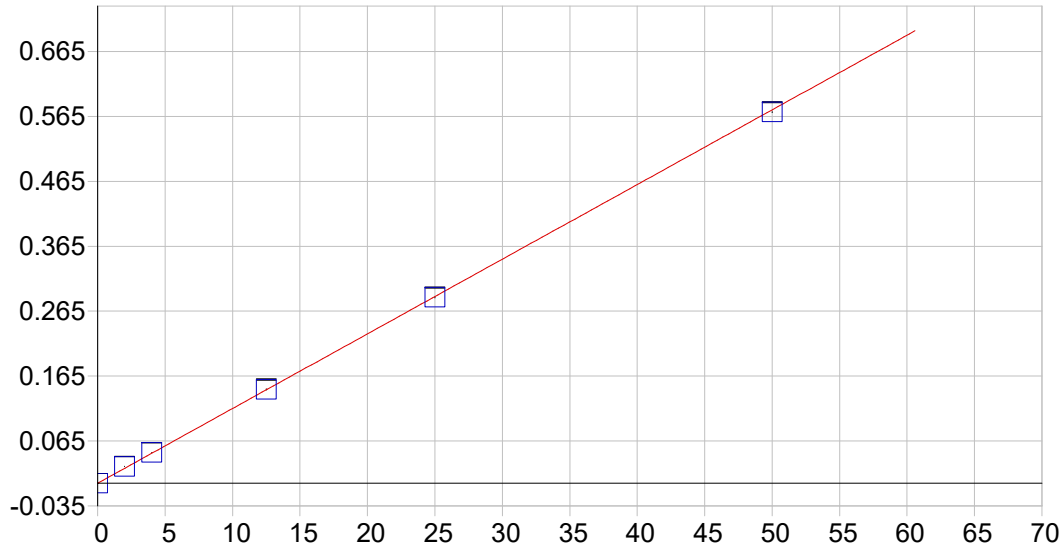



**Mn 257.610 {131}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000311 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.412280 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999924 | Status: | OK. |
| Std Error of Est: | 0.000084 | | |
| Predicted MDL: | 0.000559 | | |
| Predicted MQL: | 0.001864 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00031 | .000 | 1 |
| S1 | .02000 | .02224 | .002 | 11.2 | .00948 | .000 | 1 |
| S3 | 1.2500 | 1.2691 | .019 | 1.53 | .52365 | .005 | 1 |
| S4 | 2.5000 | 2.4805 | -.020 | -.781 | 1.0232 | .002 | 1 |
| S5 | 5.0000 | 4.9823 | -.018 | -.353 | 2.0548 | .006 | 1 |
| S2 | .40000 | .41583 | .016 | 3.96 | .17178 | .001 | 1 |

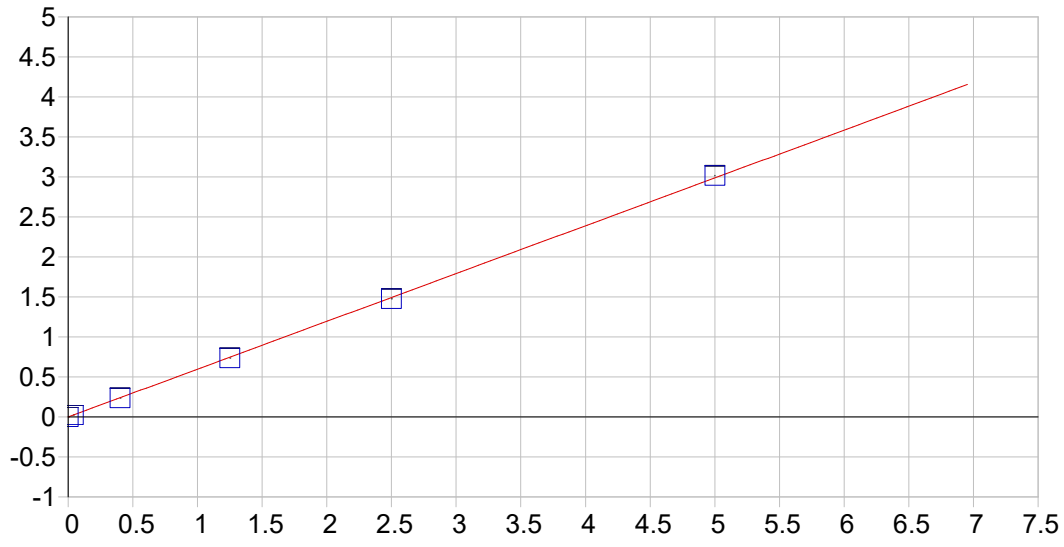



**Mg 279.079 {121}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000036 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.011502 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999814 | Status: | OK. |
| Std Error of Est: | 0.000117 | | |
| Predicted MDL: | 0.026016 | | |
| Predicted MQL: | 0.086722 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00028 | -.000 | .000 | -.00004 | .000 | 1 |
| S2 | 4.0000 | 4.0966 | .097 | 2.42 | .04708 | .000 | 1 |
| S3 | 12.500 | 12.569 | .069 | .554 | .14454 | .001 | 1 |
| S4 | 25.000 | 24.891 | -.109 | -.437 | .28627 | .001 | 1 |
| S5 | 50.000 | 49.700 | -.300 | -.601 | .57163 | .001 | 1 |
| S1 | 2.0000 | 2.2438 | .244 | 12.2 | .02577 | .000 | 1 |

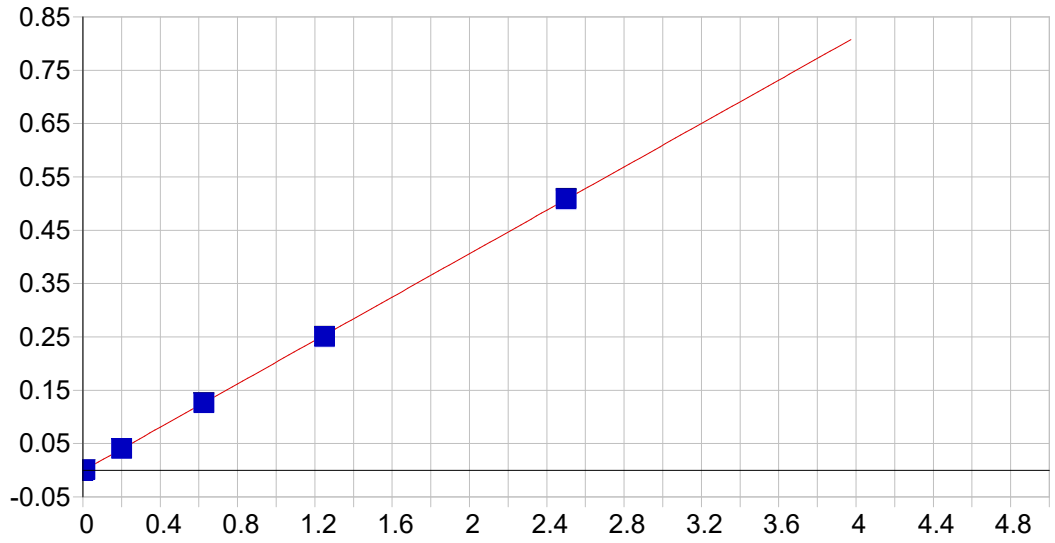



**Ni 231.604 {446}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000502 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.597490 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999946 | Status: | OK. |
| Std Error of Est: | 0.000146 | | |
| Predicted MDL: | 0.000339 | | |
| Predicted MQL: | 0.001131 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00050 | .000 | 1 |
| S1 | .04000 | .04015 | .000 | .375 | .02349 | .000 | 1 |
| S3 | 1.2500 | 1.2333 | -.017 | -1.34 | .73638 | .001 | 1 |
| S4 | 2.5000 | 2.4734 | -.027 | -1.06 | 1.4774 | .000 | 1 |
| S5 | 5.0000 | 5.0472 | .047 | .944 | 3.0151 | .004 | 1 |
| S2 | .40000 | .39591 | -.004 | -1.02 | .23605 | .001 | 1 |

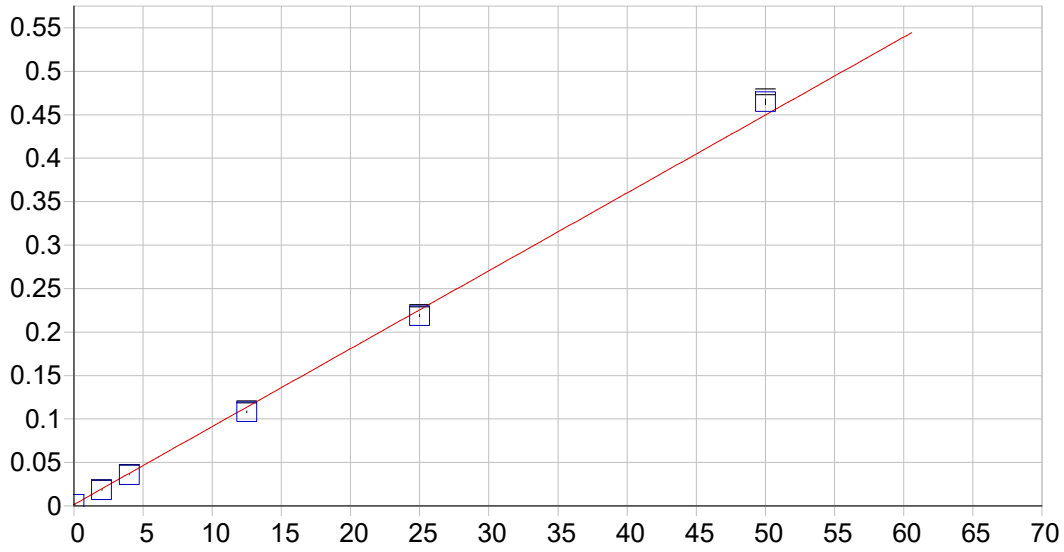



**Ag 328.068 {103}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000803 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.203404 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999976 | Status: | OK. |
| Std Error of Est: | 0.000012 | | |
| Predicted MDL: | 0.000506 | | |
| Predicted MQL: | 0.001687 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | -.00080 | .000 | 1 |
| S1 | .01000 | .01027 | .000 | 2.68 | .00127 | .000 | 1 |
| S3 | .62500 | .62622 | .001 | .195 | .12596 | .000 | 1 |
| S4 | 1.2500 | 1.2373 | -.013 | -1.02 | .24963 | .000 | 1 |
| S5 | 2.5000 | 2.5079 | .008 | .315 | .50684 | .001 | 1 |
| S2 | .20000 | .20338 | .003 | 1.69 | .04037 | .000 | 1 |

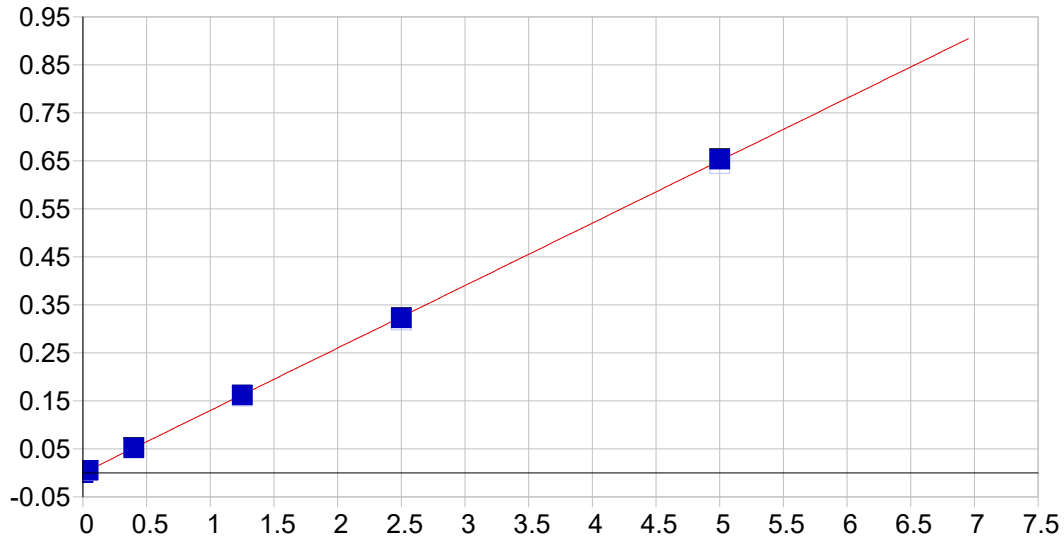



**Na 589.592 { 57}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.001660 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.008960 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999308 | Status: | OK. |
| Std Error of Est: | 0.000176 | | |
| Predicted MDL: | 0.017023 | | |
| Predicted MQL: | 0.056743 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00032 | .000 | .000 | .00166 | .000 | 1 |
| S2 | 4.0000 | 3.8074 | -.193 | -4.81 | .03577 | .000 | 1 |
| S3 | 12.500 | 11.893 | -.607 | -4.86 | .10822 | .001 | 1 |
| S4 | 25.000 | 24.228 | -.772 | -3.09 | .21874 | .001 | 1 |
| S5 | 50.000 | 51.704 | 1.70 | 3.41 | .46492 | .003 | 1 |
| S1 | 2.0000 | 1.8681 | -.132 | -6.59 | .01840 | .000 | 1 |

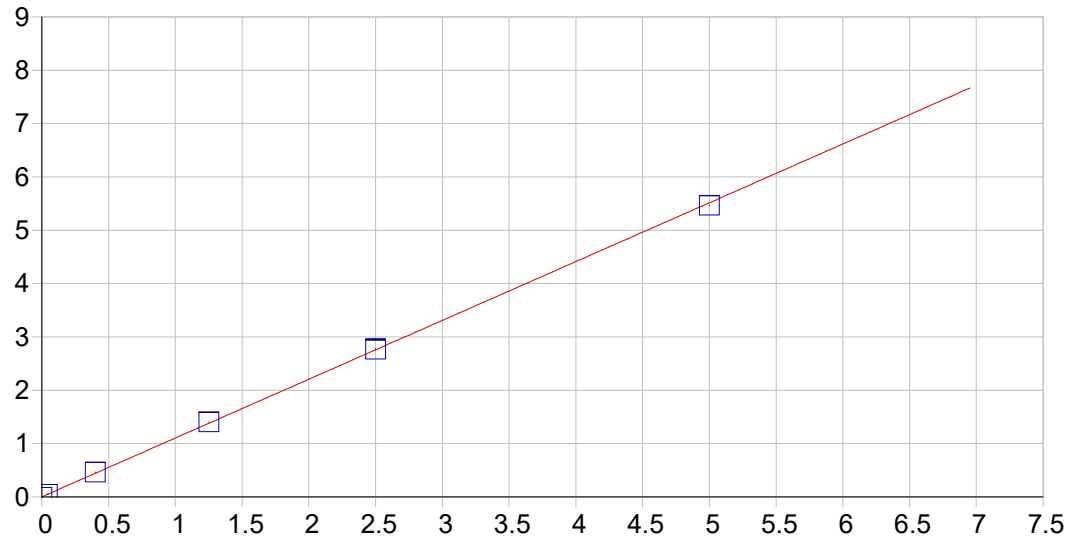



**V 292.402 {115}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000056 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.130168 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999982 | Status: | OK. |
| Std Error of Est: | 0.000018 | | |
| Predicted MDL: | 0.002687 | | |
| Predicted MQL: | 0.008958 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00006 | .000 | 1 |
| S1 | .04000 | .04005 | .000 | .117 | .00496 | .000 | 1 |
| S3 | 1.2500 | 1.2436 | -.006 | -.514 | .15945 | .000 | 1 |
| S4 | 2.5000 | 2.4804 | -.020 | -.786 | .31806 | .001 | 1 |
| S5 | 5.0000 | 5.0236 | .024 | .472 | .64436 | .001 | 1 |
| S2 | .40000 | .40244 | .002 | .609 | .05157 | .000 | 1 |

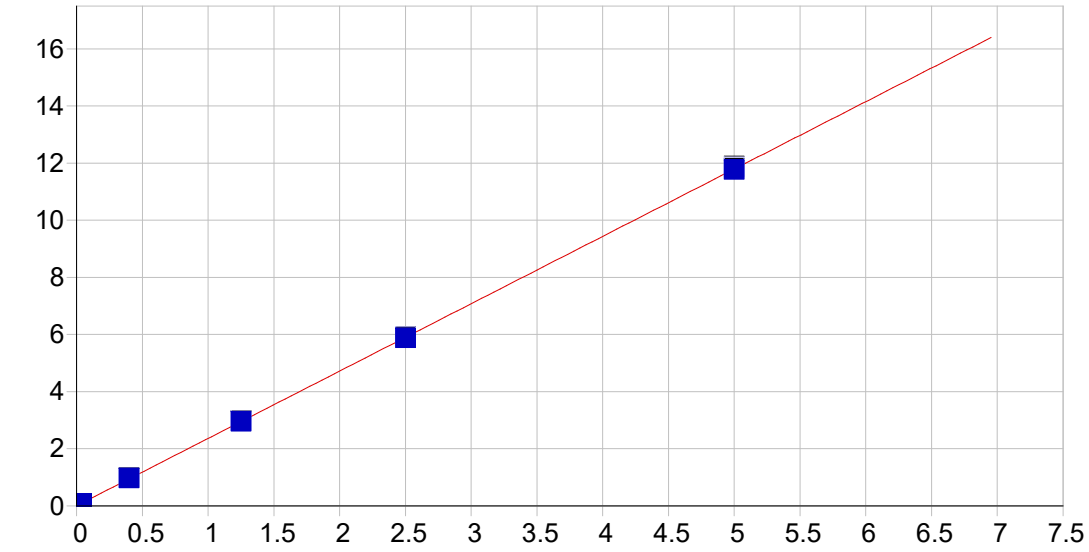



**Zn 206.200 {464}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.001601 | Re-Slope: | 1.000000 |
| A1 (Gain): | 1.102627 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999908 | Status: | OK. |
| Std Error of Est: | 0.000351 | | |
| Predicted MDL: | 0.000146 | | |
| Predicted MQL: | 0.000487 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00160 | .000 | 1 |
| S1 | .04000 | .04264 | .003 | 6.61 | .04862 | .000 | 1 |
| S3 | 1.2500 | 1.2696 | .020 | 1.57 | 1.4015 | .003 | 1 |
| S4 | 2.5000 | 2.5071 | .007 | .285 | 2.7660 | .012 | 1 |
| S5 | 5.0000 | 4.9533 | -.047 | -.934 | 5.4633 | .004 | 1 |
| S2 | .40000 | .41731 | .017 | 4.33 | .46173 | .000 | 1 |

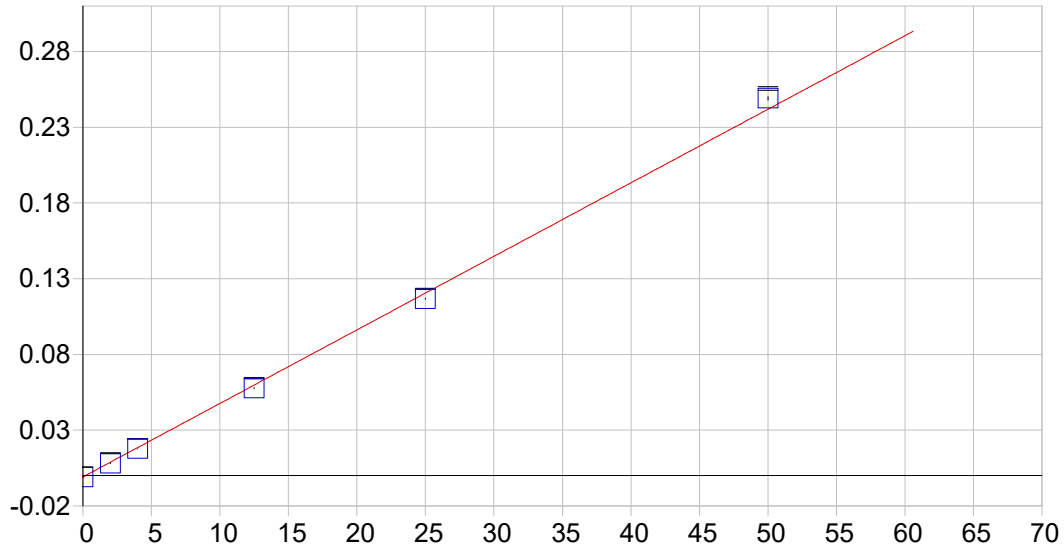



**Zn 213.856 {158}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.004582 | Re-Slope: | 1.000000 |
| A1 (Gain): | 2.358031 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999982 | Status: | OK. |
| Std Error of Est: | 0.000334 | | |
| Predicted MDL: | 0.000239 | | |
| Predicted MQL: | 0.000797 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00458 | .000 | 1 |
| S1 | .04000 | .04198 | .002 | 4.95 | .10423 | .000 | 1 |
| S3 | 1.2500 | 1.2520 | .002 | .158 | 2.9773 | .012 | 1 |
| S4 | 2.5000 | 2.4938 | -.006 | -.248 | 5.9260 | .005 | 1 |
| S5 | 5.0000 | 4.9931 | -.007 | -.138 | 11.860 | .040 | 1 |
| S2 | .40000 | .40914 | .009 | 2.29 | .97591 | .002 | 1 |

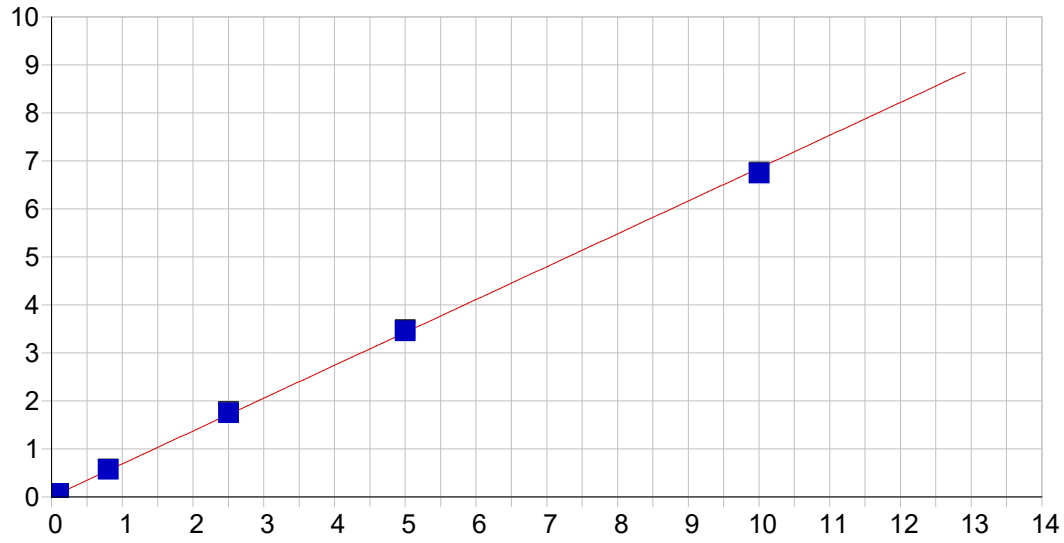



**K 766.490 { 44}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000883 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.004855 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999474 | Status: | OK. |
| Std Error of Est: | 0.000083 | | |
| Predicted MDL: | 0.037550 | | |
| Predicted MQL: | 0.125166 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00029 | .000 | .000 | -.00088 | .000 | 1 |
| S2 | 4.0000 | 3.8305 | -.170 | -4.24 | .01771 | .000 | 1 |
| S3 | 12.500 | 12.074 | -.426 | -3.40 | .05774 | .000 | 1 |
| S4 | 25.000 | 24.239 | -.761 | -3.05 | .11679 | .000 | 1 |
| S5 | 50.000 | 51.491 | 1.49 | 2.98 | .24910 | .001 | 1 |
| S1 | 2.0000 | 1.8658 | -.134 | -6.71 | .00818 | .000 | 1 |

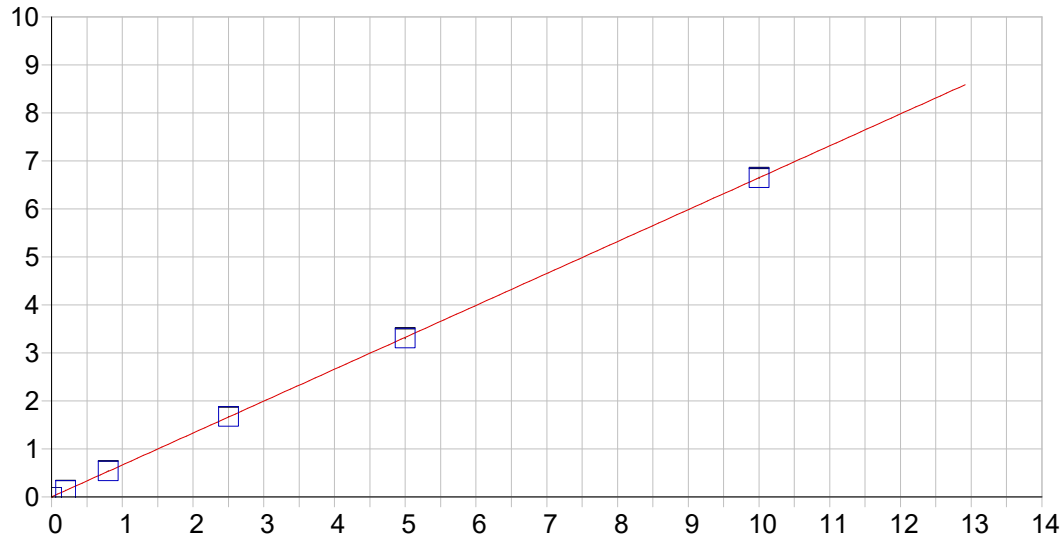



**B 249.678 {135}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.004322 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.684450 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999842 | Status: | OK. |
| Std Error of Est: | 0.000637 | | |
| Predicted MDL: | 0.000728 | | |
| Predicted MQL: | 0.002427 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00001 | -.000 | .000 | .00431 | .000 | 1 |
| S1 | .10000 | .10735 | .007 | 7.35 | .07739 | .000 | 1 |
| S3 | 2.5000 | 2.5574 | .057 | 2.29 | 1.7485 | .020 | 1 |
| S4 | 5.0000 | 5.0492 | .049 | .985 | 3.4479 | .023 | 1 |
| S5 | 10.000 | 9.8537 | -.146 | -1.46 | 6.7240 | .019 | 1 |
| S2 | .80000 | .83234 | .032 | 4.04 | .57204 | .003 | 1 |

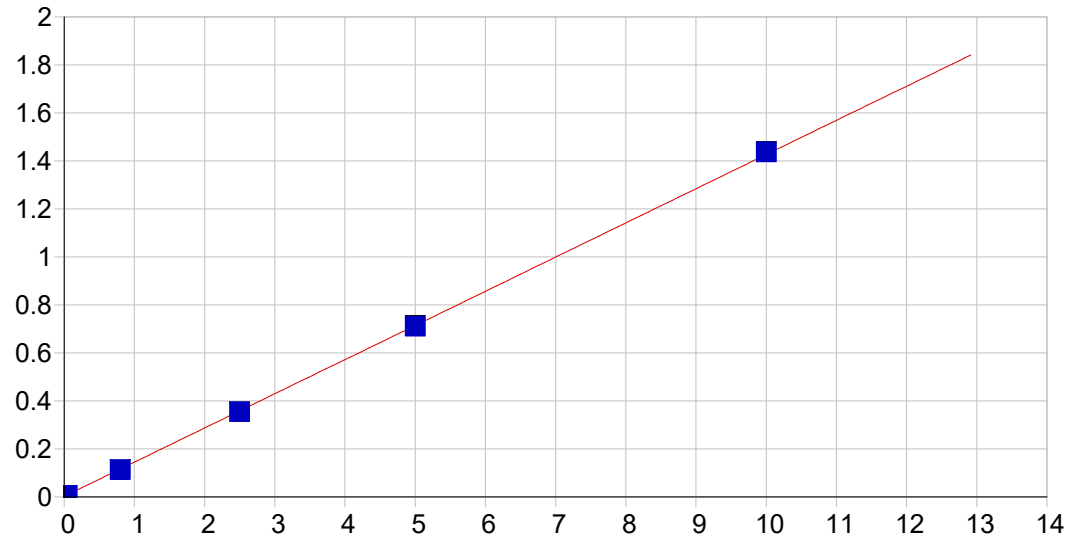



**Mo 202.030 {467}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000387 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.664891 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999983 | Status: | OK. |
| Std Error of Est: | 0.000290 | | |
| Predicted MDL: | 0.000254 | | |
| Predicted MQL: | 0.000848 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00001 | -.000 | .000 | .00038 | .000 | 1 |
| S1 | .20000 | .20442 | .004 | 2.21 | .13630 | .000 | 1 |
| S3 | 2.5000 | 2.5129 | .013 | .517 | 1.6712 | .003 | 1 |
| S4 | 5.0000 | 4.9698 | -.030 | -.604 | 3.3048 | .013 | 1 |
| S5 | 10.000 | 9.9977 | -.002 | -.023 | 6.6477 | .013 | 1 |
| S2 | .80000 | .81517 | .015 | 1.90 | .54239 | .001 | 1 |

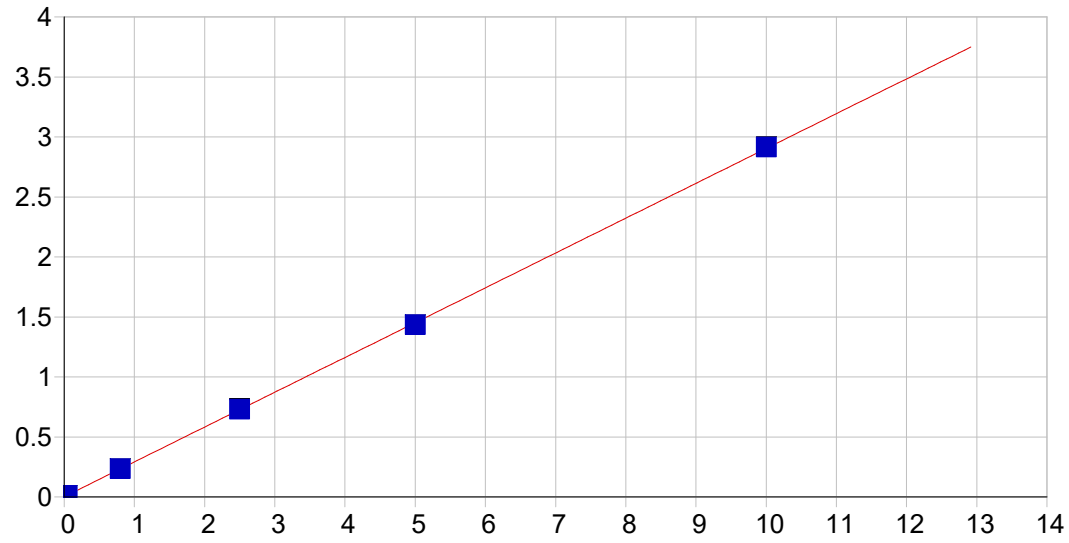



**Sn 189.989 {478}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.002432 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.142395 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999958 | Status: | OK. |
| Std Error of Est: | 0.000043 | | |
| Predicted MDL: | 0.000636 | | |
| Predicted MQL: | 0.002121 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00243 | .000 | 1 |
| S1 | .04000 | .03983 | -.000 | -.425 | .00810 | .000 | 1 |
| S3 | 2.5000 | 2.4738 | -.026 | -1.05 | .35432 | .001 | 1 |
| S4 | 5.0000 | 4.9753 | -.025 | -.494 | .71016 | .003 | 1 |
| S5 | 10.000 | 10.073 | .073 | .730 | 1.4353 | .002 | 1 |
| S2 | .80000 | .77810 | -.022 | -2.74 | .11311 | .000 | 1 |

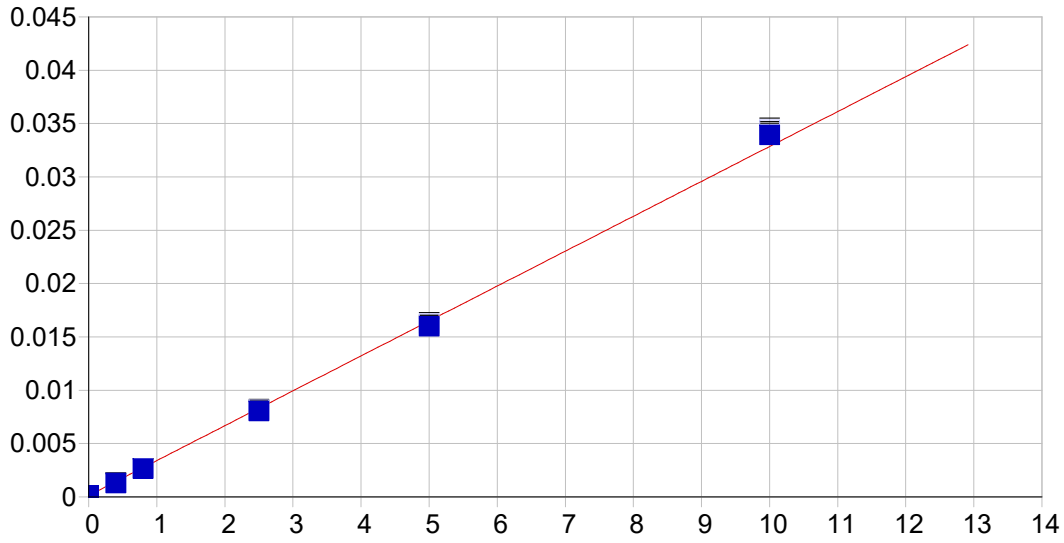



**Ti 336.121 {100}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.001294 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.290182 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999973 | Status: | OK. |
| Std Error of Est: | 0.000070 | | |
| Predicted MDL: | 0.001570 | | |
| Predicted MQL: | 0.005233 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00129 | .000 | 1 |
| S1 | .04000 | .04053 | .001 | 1.33 | .01305 | .000 | 1 |
| S3 | 2.5000 | 2.5094 | .009 | .376 | .72922 | .006 | 1 |
| S4 | 5.0000 | 4.9413 | -.059 | -1.17 | 1.4346 | .003 | 1 |
| S5 | 10.000 | 10.041 | .041 | .410 | 2.9140 | .005 | 1 |
| S2 | .80000 | .80782 | .008 | .978 | .23563 | .001 | 1 |

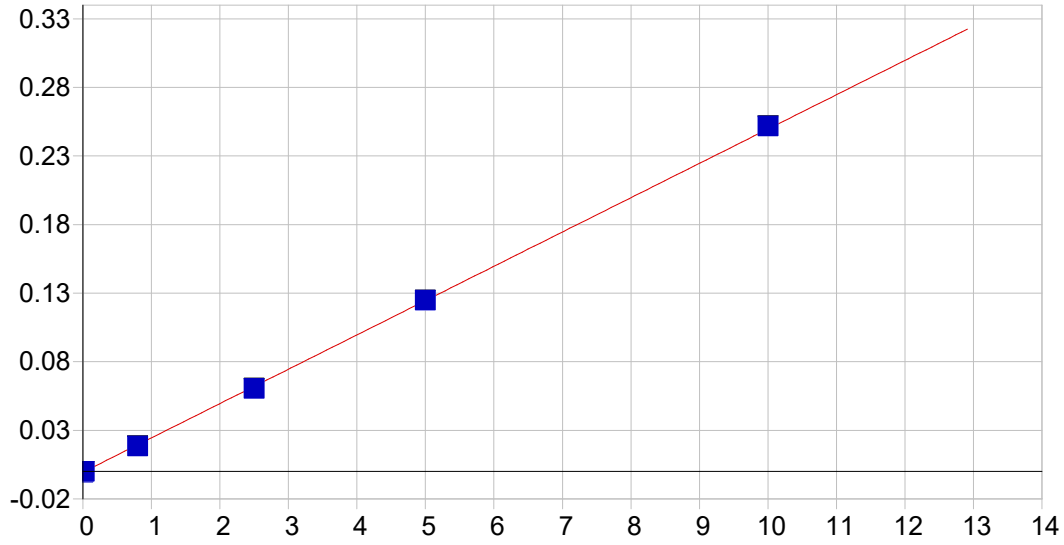



**Si 288.158 {117}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000131 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.003272 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999312 | Status: | OK. |
| Std Error of Est: | 0.000013 | | |
| Predicted MDL: | 0.011804 | | |
| Predicted MQL: | 0.039348 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00008 | .000 | .000 | .00013 | .000 | 1 |
| S1 | .40000 | .35060 | -.049 | -12.4 | .00128 | .000 | 1 |
| S3 | 2.5000 | 2.4137 | -.086 | -3.45 | .00815 | .000 | 1 |
| S4 | 5.0000 | 4.8429 | -.157 | -3.14 | .01622 | .000 | 1 |
| S5 | 10.000 | 10.329 | .329 | 3.29 | .03442 | .000 | 1 |
| S2 | .80000 | .76336 | -.037 | -4.58 | .00267 | .000 | 1 |

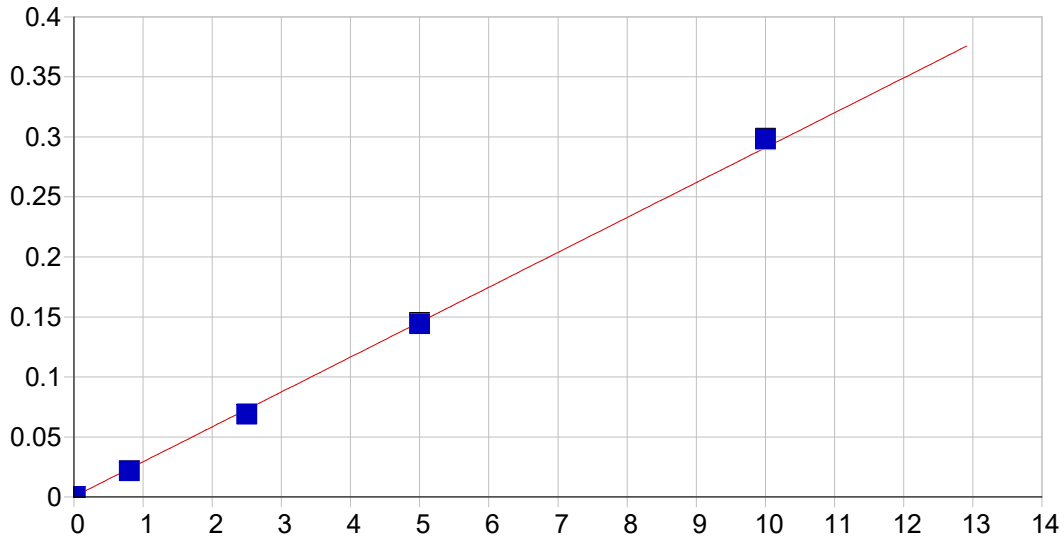



**P 177.495 {490}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000528 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.025020 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999897 | Status: | OK. |
| Std Error of Est: | 0.000008 | | |
| Predicted MDL: | 0.002641 | | |
| Predicted MQL: | 0.008804 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00053 | .000 | 1 |
| S1 | .02000 | .01961 | -.000 | -1.96 | -.00004 | .000 | 1 |
| S3 | 2.5000 | 2.4403 | -.060 | -2.39 | .06052 | .000 | 1 |
| S4 | 5.0000 | 5.0083 | .008 | .165 | .12476 | .000 | 1 |
| S5 | 10.000 | 10.087 | .087 | .874 | .25182 | .000 | 1 |
| S2 | .80000 | .76450 | -.035 | -4.44 | .01860 | .000 | 1 |

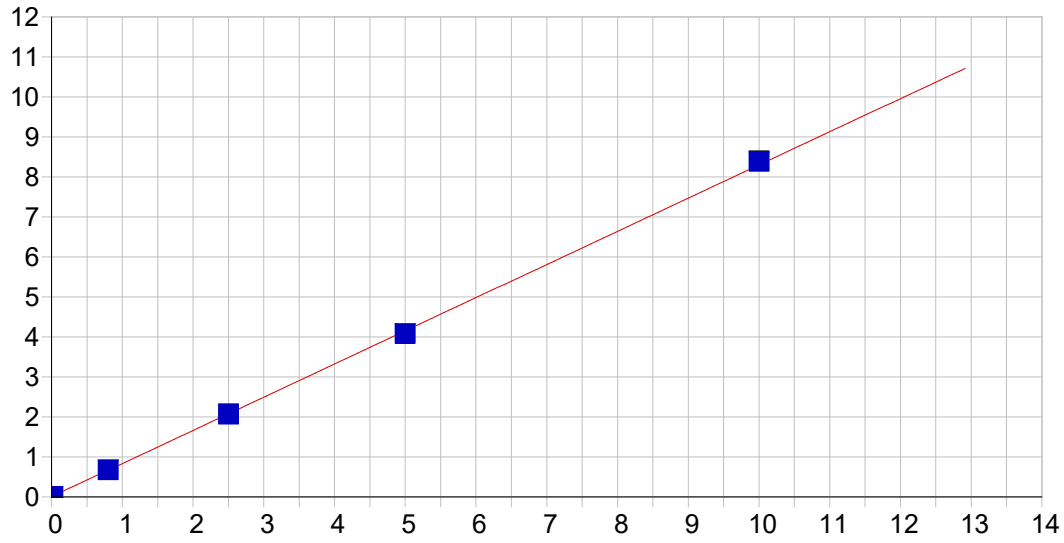



**S 182.034 {485}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000215 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.029079 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999484 | Status: | OK. |
| Std Error of Est: | 0.000022 | | |
| Predicted MDL: | 0.002820 | | |
| Predicted MQL: | 0.009399 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00022 | .000 | 1 |
| S1 | .02000 | .02134 | .001 | 6.69 | .00081 | .000 | 1 |
| S3 | 2.5000 | 2.3615 | -.138 | -5.54 | .06870 | .000 | 1 |
| S4 | 5.0000 | 4.9542 | -.046 | -.916 | .14390 | .001 | 1 |
| S5 | 10.000 | 10.244 | .244 | 2.44 | .29735 | .001 | 1 |
| S2 | .80000 | .73885 | -.061 | -7.64 | .02164 | .000 | 1 |

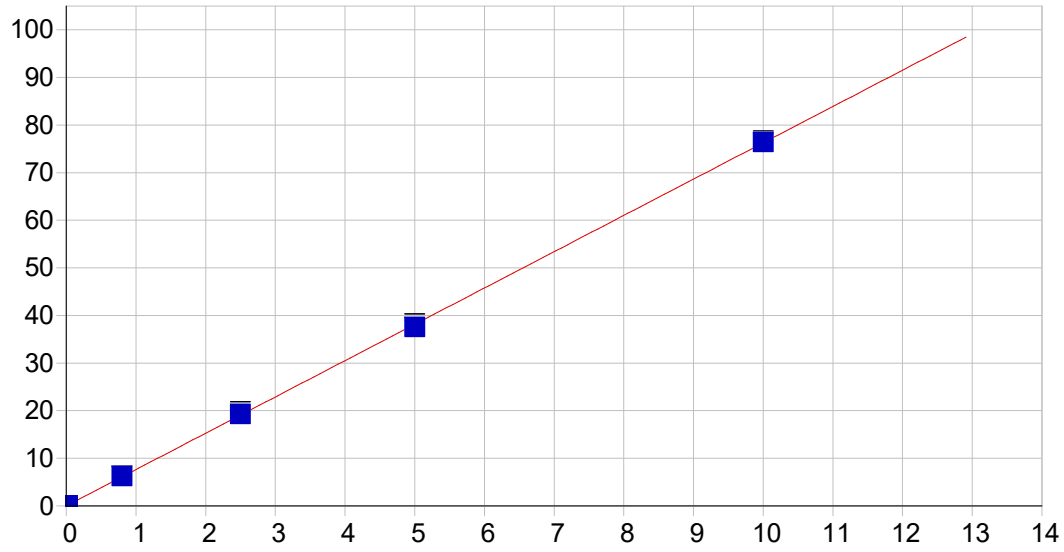



**Li 670.784 { 50}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.005393 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.829297 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999922 | Status: | OK. |
| Std Error of Est: | 0.000243 | | |
| Predicted MDL: | 0.001826 | | |
| Predicted MQL: | 0.006086 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00539 | .000 | 1 |
| S5 | 10.000 | 10.100 | .100 | .997 | 8.3876 | .011 | 1 |
| S4 | 5.0000 | 4.9088 | -.091 | -1.82 | 4.0795 | .003 | 1 |
| S3 | 2.5000 | 2.4829 | -.017 | -.685 | 2.0661 | .009 | 1 |
| S1 | .02000 | .02022 | .000 | 1.12 | .02246 | .001 | 1 |
| S2 | .80000 | .80847 | .008 | 1.06 | .67639 | .002 | 1 |

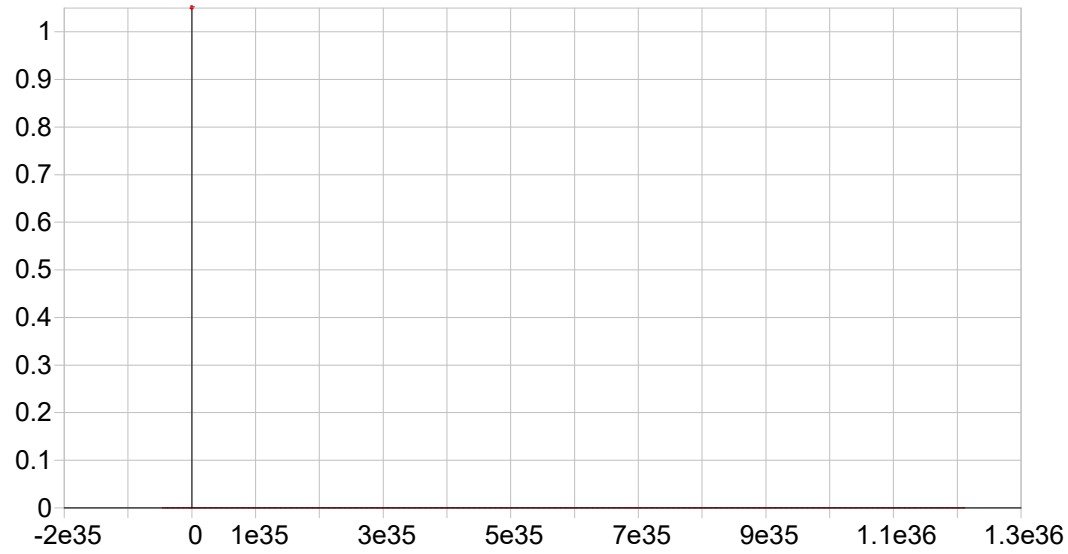



**Sr 407.771 { 83}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.001208 | Re-Slope: | 1.000000 |
| A1 (Gain): | 7.627087 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999937 | Status: | OK. |
| Std Error of Est: | 0.002006 | | |
| Predicted MDL: | 0.000102 | | |
| Predicted MQL: | 0.000341 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00120 | .000 | 1 |
| S1 | .02000 | .02067 | .001 | 3.33 | .15957 | .001 | 1 |
| S3 | 2.5000 | 2.5325 | .033 | 1.30 | 19.335 | .476 | 1 |
| S4 | 5.0000 | 4.9243 | -.076 | -1.51 | 37.596 | .665 | 1 |
| S5 | 10.000 | 10.019 | .019 | .192 | 76.492 | .193 | 1 |
| S2 | .80000 | .82333 | .023 | 2.92 | 6.2867 | .013 | 1 |

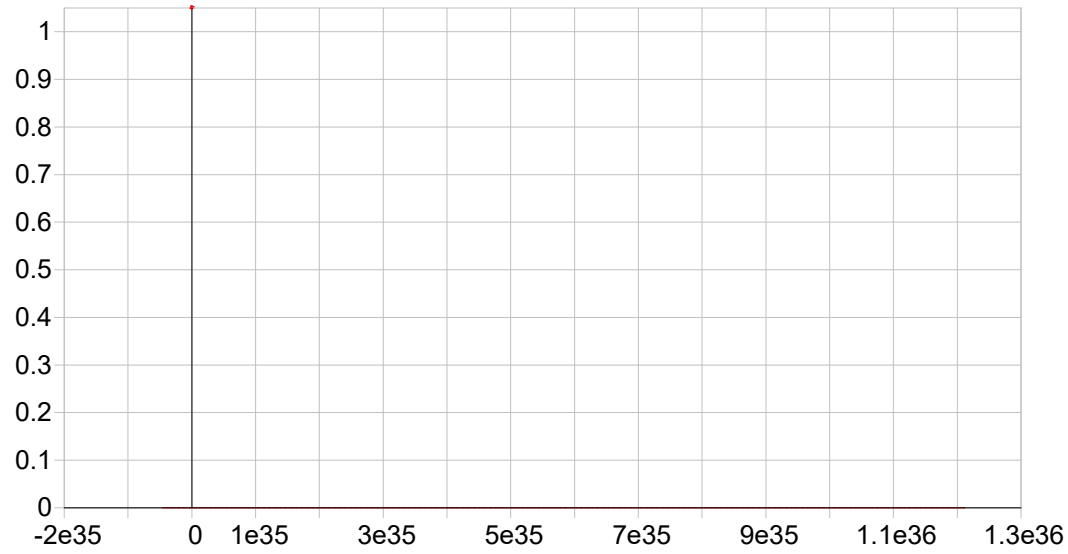



**Y 224.306 {450}***

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/14/2025 14:45:49 | 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 |
|---|---|---|---|---|---|---|---|



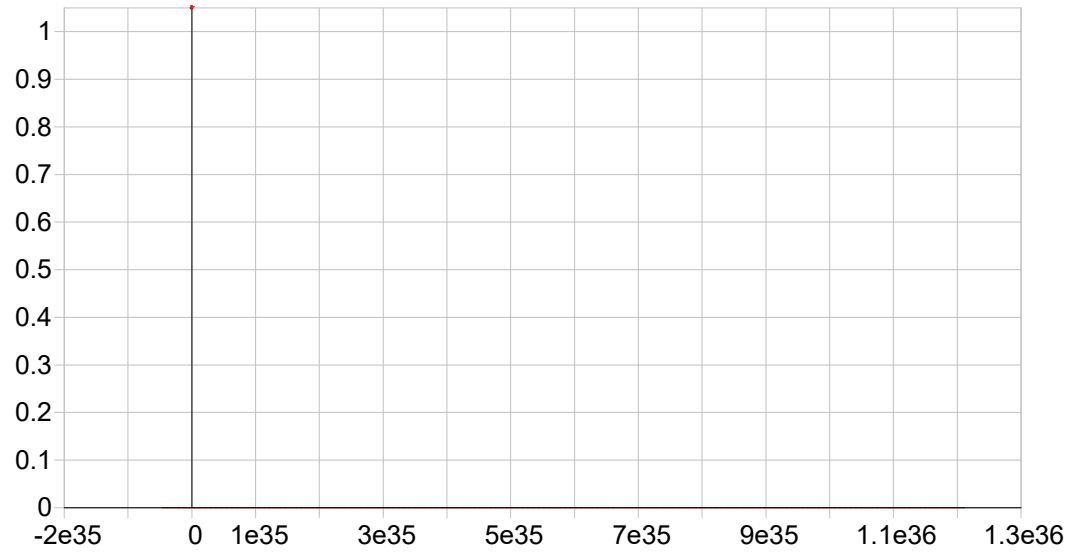

**Y 360.073 { 94}***

| | | | | | |
|---|---|---|---|---|---|
| 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 |

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

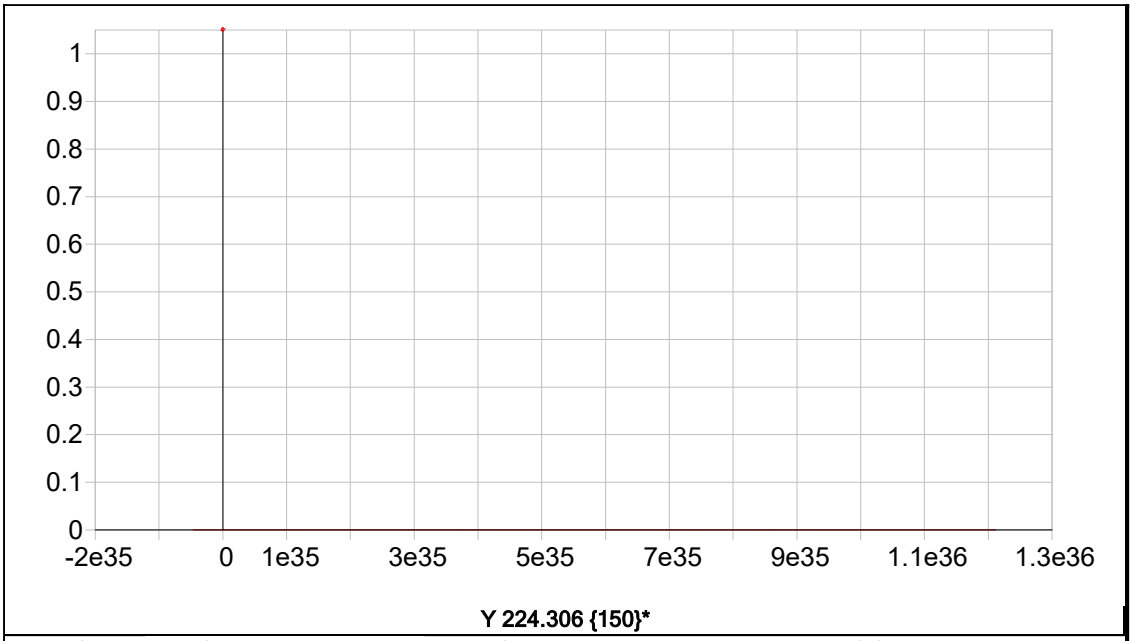
| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|




**Y 371.030 { 91}***

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

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

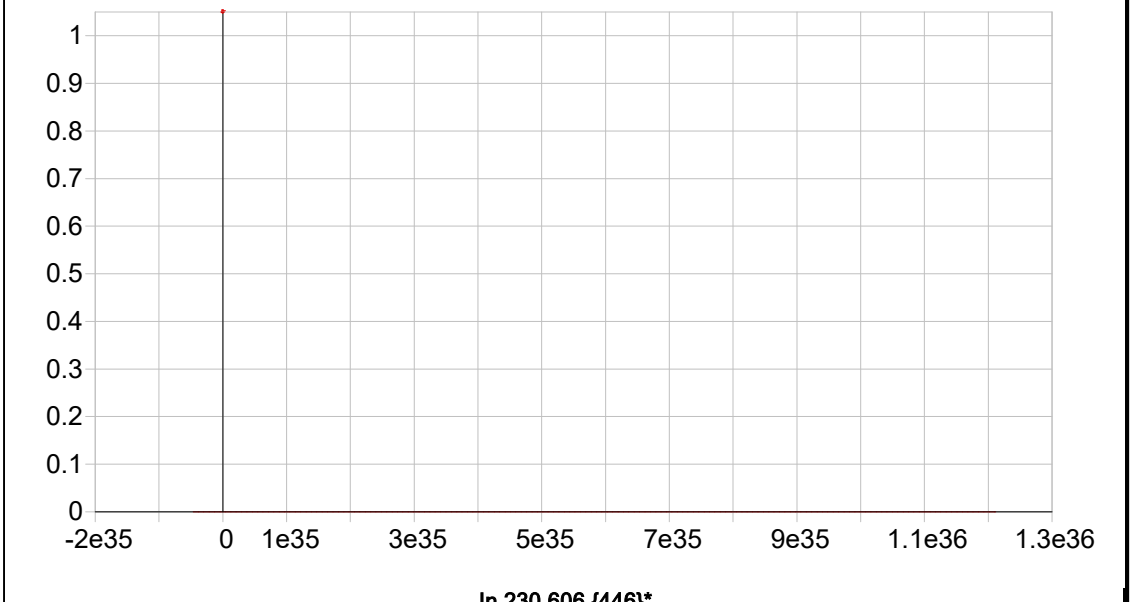



**Y 224.306 {150}***

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

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

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




**In 230.606 {446}***

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

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 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:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: S0 Acquired: 8/14/2025 11:39:38 Type: Cal
Method: 6010-200.7 NEW(v98) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | **-.00010** | **.00092** | **.00006** | **.00044** | **.00041** | **.00067** | **.09217** | **-.00069** |
| Stddev | .00008 | .00006 | .00025 | .00010 | .00001 | .00071 | .00217 | .00034 |
| %RSD | 82.743 | 6.0141 | 392.83 | 23.561 | 2.5983 | 105.73 | 2.3551 | 49.222 |
| #1 | -.00016 | .00086 | .00032 | .00034 | .00040 | -.00002 | .09020 | -.00081 |
| #2 | -.00012 | .00097 | .00004 | .00043 | .00041 | .00062 | .09181 | -.00095 |
| #3 | -.00001 | .00094 | -.00018 | .00055 | .00042 | .00140 | .09449 | -.00031 |

| Elem | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **-.00043** | **.00132** | **.00019** | **.00021** | **.00046** | **.00003** | **.00031** | **-.00004** |
| Stddev | .00015 | .00044 | .00004 | .00012 | .00029 | .00001 | .00014 | .00007 |
| %RSD | 35.161 | 33.043 | 19.229 | 58.755 | 62.292 | 17.887 | 46.311 | 185.71 |
| #1 | -.00030 | .00085 | .00018 | .00032 | .00023 | .00003 | .00047 | -.00012 |
| #2 | -.00039 | .00138 | .00016 | .00008 | .00079 | .00002 | .00019 | -.00002 |
| #3 | -.00060 | .00172 | .00023 | .00023 | .00037 | .00003 | .00027 | .00002 |

| Elem | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **-.00050** | **-.00080** | **.00166** | **-.00006** | **.00458** | **-.00088** | **.00431** | **.00038** |
| Stddev | .00020 | .00004 | .00001 | .00016 | .00041 | .00007 | .00022 | .00010 |
| %RSD | 40.314 | 5.3714 | .35490 | 293.44 | 8.9721 | 8.1041 | 5.0453 | 25.341 |
| #1 | -.00037 | -.00085 | .00167 | .00012 | .00495 | -.00086 | .00406 | .00039 |
| #2 | -.00073 | -.00077 | .00166 | -.00010 | .00464 | -.00096 | .00441 | .00048 |
| #3 | -.00041 | -.00078 | .00167 | -.00019 | .00414 | -.00082 | .00447 | .00028 |

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.00243** | **.00129** | **.00013** | **-.00053** | **.00022** | **.00539** | **.00120** |
| Stddev | .00005 | .00027 | .00004 | .00001 | .00008 | .00039 | .00042 |
| %RSD | 2.0118 | 20.966 | 30.954 | 1.0589 | 36.349 | 7.2658 | 35.121 |
| #1 | .00238 | .00152 | .00017 | -.00053 | .00020 | .00499 | .00126 |
| #2 | .00246 | .00137 | .00014 | -.00052 | .00030 | .00541 | .00159 |
| #3 | .00246 | .00099 | .00009 | -.00053 | .00014 | .00578 | .00075 |

Sample Name: S0 Acquired: 8/14/2025 11:39:38 Type: Cal
Method: 6010-200.7 NEW(v98) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | **5873.8** | **102370.** | **10448.** | **4601.8** | **7553.2** |
| Stddev | 14.7 | 125. | 9. | .9 | 12.9 |
| %RSD | .25033 | .12241 | .08768 | .01941 | .17094 |
| #1 | 5856.9 | 102510. | 10454. | 4601.2 | 7539.8 |
| #2 | 5881.1 | 102260. | 10452. | 4602.8 | 7554.2 |
| #3 | 5883.5 | 102340. | 10437. | 4601.5 | 7565.6 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: S1 Acquired: 8/14/2025 11:44:04 Type: Cal
Method: 6010-200.7 NEW(v98) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | **.00106** | **.00407** | **.00256** | **.00128** | **.00548** | **.00921** | **.33576** | **.04366** |
| Stddev | .00010 | .00004 | .00031 | .00006 | .00011 | .00006 | .00149 | .00065 |
| %RSD | 9.1189 | .98222 | 11.998 | 4.7054 | 2.0405 | .59984 | .44371 | 1.4824 |
| #1 | .00114 | .00403 | .00242 | .00132 | .00535 | .00927 | .33733 | .04436 |
| #2 | .00108 | .00406 | .00235 | .00121 | .00557 | .00916 | .33436 | .04308 |
| #3 | .00095 | .00411 | .00291 | .00130 | .00552 | .00919 | .33560 | .04354 |

| Elem | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.01692** | **.12327** | **.00221** | **.03110** | **.01474** | **.00038** | **.00948** | **.02577** |
| Stddev | .00013 | .00080 | .00002 | .00006 | .00003 | .00000 | .00017 | .00021 |
| %RSD | .76453 | .65252 | .87164 | .18291 | .22380 | 1.1418 | 1.7428 | .83200 |
| #1 | .01706 | .12342 | .00222 | .03104 | .01472 | .00038 | .00942 | .02583 |
| #2 | .01688 | .12240 | .00223 | .03110 | .01473 | .00038 | .00936 | .02553 |
| #3 | .01681 | .12399 | .00219 | .03115 | .01478 | .00038 | .00967 | .02595 |

| Elem | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.02349** | **.00127** | **.01840** | **.00496** | **.10423** | **.00818** | **.07739** | **.13630** |
| Stddev | .00005 | .00002 | .00015 | .00039 | .00014 | .00036 | .00040 | .00042 |
| %RSD | .22053 | 1.2817 | .82123 | 7.9099 | .13532 | 4.4397 | .51548 | .30848 |
| #1 | .02353 | .00128 | .01827 | .00461 | .10414 | .00829 | .07746 | .13618 |
| #2 | .02343 | .00125 | .01857 | .00489 | .10415 | .00847 | .07696 | .13595 |
| #3 | .02350 | .00126 | .01836 | .00539 | .10439 | .00777 | .07775 | .13677 |

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.00810** | **.01305** | **.00128** | **-.00004** | **.00081** | **.02246** | **.15957** |
| Stddev | .00007 | .00015 | .00004 | .00002 | .00002 | .00117 | .00067 |
| %RSD | .86407 | 1.1282 | 3.2698 | 49.817 | 2.9972 | 5.2296 | .41884 |
| #1 | .00815 | .01288 | .00133 | -.00003 | .00081 | .02119 | .16015 |
| #2 | .00802 | .01316 | .00124 | -.00002 | .00079 | .02350 | .15972 |
| #3 | .00813 | .01310 | .00128 | -.00006 | .00084 | .02268 | .15884 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: S1 Acquired: 8/14/2025 11:44:04 Type: Cal
Method: 6010-200.7 NEW(v98) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | 5777.7 | 101130. | 10306. | 4553.0 | 7295.6 |
| Stddev | 2.7 | 195. | 66. | 12.1 | 5.1 |
| %RSD | .04615 | .19315 | .64205 | .26678 | .06930 |
| #1 | 5777.4 | 101020. | 10271. | 4539.4 | 7295.7 |
| #2 | 5775.3 | 101360. | 10382. | 4562.8 | 7290.4 |
| #3 | 5780.6 | 101020. | 10265. | 4556.8 | 7300.5 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: S2 Acquired: 8/14/2025 11:48:27 Type: Cal
Method: 6010-200.7 NEW(v98) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | **.04093** | **.06323** | **.15739** | **.03893** | **.07733** | **.12767** | **3.9059** | **.27646** |
| Stddev | .00009 | .00073 | .00048 | .00007 | .00021 | .00009 | .0070 | .00116 |
| %RSD | .23064 | 1.1617 | .30196 | .17668 | .26737 | .07238 | .17838 | .41967 |
| #1 | .04086 | .06246 | .15763 | .03886 | .07709 | .12766 | 3.9067 | .27753 |
| #2 | .04103 | .06393 | .15684 | .03895 | .07748 | .12777 | 3.9124 | .27662 |
| #3 | .04089 | .06329 | .15770 | .03899 | .07741 | .12759 | 3.8986 | .27523 |

| Elem | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **1.1582** | **.23852** | **.03280** | **.40655** | **.13678** | **.00290** | **.17178** | **.04708** |
| Stddev | .0016 | .00099 | .00009 | .00033 | .00016 | .00003 | .00069 | .00015 |
| %RSD | .14088 | .41706 | .26689 | .08092 | .11862 | .99109 | .40448 | .32700 |
| #1 | 1.1597 | .23824 | .03271 | .40691 | .13669 | .00287 | .17254 | .04713 |
| #2 | 1.1564 | .23769 | .03280 | .40627 | .13668 | .00292 | .17164 | .04721 |
| #3 | 1.1583 | .23962 | .03288 | .40647 | .13697 | .00291 | .17117 | .04691 |

| Elem | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.23605** | **.04037** | **.03577** | **.05157** | **.97591** | **.01771** | **.57204** | **.54239** |
| Stddev | .00053 | .00002 | .00017 | .00039 | .00212 | .00007 | .00334 | .00103 |
| %RSD | .22533 | .04726 | .47056 | .75032 | .21680 | .41237 | .58439 | .18967 |
| #1 | .23665 | .04035 | .03559 | .05181 | .97725 | .01763 | .57493 | .54131 |
| #2 | .23566 | .04039 | .03581 | .05178 | .97702 | .01776 | .57281 | .54337 |
| #3 | .23584 | .04036 | .03592 | .05112 | .97347 | .01775 | .56838 | .54248 |

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.11311** | **.23563** | **.00267** | **.01860** | **.02164** | **.67639** | **6.2867** |
| Stddev | .00027 | .00075 | .00001 | .00009 | .00009 | .00248 | .0127 |
| %RSD | .24007 | .31702 | .46475 | .50101 | .40475 | .36626 | .20266 |
| #1 | .11316 | .23576 | .00268 | .01867 | .02167 | .67473 | 6.2845 |
| #2 | .11282 | .23629 | .00266 | .01849 | .02154 | .67924 | 6.3004 |
| #3 | .11335 | .23482 | .00267 | .01863 | .02171 | .67519 | 6.2752 |

Sample Name: S2 Acquired: 8/14/2025 11:48:27 Type: Cal
Method: 6010-200.7 NEW(v98) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | **5646.3** | **97642.** | **10343.** | **4387.6** | **7009.7** |
| Stddev | 11.7 | 140. | 70. | 12.1 | 9.7 |
| %RSD | .20799 | .14348 | .67809 | .27504 | .13906 |
| #1 | 5649.8 | 97564. | 10287. | 4380.8 | 7002.4 |
| #2 | 5633.2 | 97557. | 10321. | 4380.5 | 7006.0 |
| #3 | 5655.8 | 97803. | 10422. | 4401.5 | 7020.8 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: S3 Acquired: 8/14/2025 11:52:33 Type: Cal
Method: 6010-200.7 NEW(v98) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | **.12780** | **.19162** | **.48868** | **.12039** | **.23863** | **.39635** | **11.983** | **.85421** |
| Stddev | .00006 | .00142 | .00032 | .00025 | .00031 | .00073 | .069 | .00974 |
| %RSD | .04306 | .74181 | .06465 | .20976 | .12885 | .18356 | .57499 | 1.1399 |
| #1 | .12782 | .19189 | .48892 | .12050 | .23840 | .39677 | 11.974 | .84297 |
| #2 | .12784 | .19009 | .48833 | .12010 | .23852 | .39551 | 11.919 | .86007 |
| #3 | .12774 | .19289 | .48880 | .12057 | .23898 | .39676 | 12.056 | .85958 |

| Elem | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **3.6546** | **.73183** | **.10093** | **1.2700** | **.41813** | **.00866** | **.52365** | **.14454** |
| Stddev | .0078 | .00222 | .00010 | .0012 | .00032 | .00008 | .00465 | .00103 |
| %RSD | .21275 | .30336 | .09624 | .09789 | .07616 | .86616 | .88746 | .71154 |
| #1 | 3.6623 | .73020 | .10104 | 1.2713 | .41815 | .00873 | .51929 | .14340 |
| #2 | 3.6468 | .73093 | .10088 | 1.2688 | .41781 | .00858 | .52313 | .14482 |
| #3 | 3.6547 | .73436 | .10087 | 1.2698 | .41844 | .00866 | .52854 | .14540 |

| Elem | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.73638** | **.12596** | **.10822** | **.15945** | **2.9773** | **.05774** | **1.7485** | **1.6712** |
| Stddev | .00100 | .00020 | .00110 | .00039 | .0124 | .00049 | .0202 | .0034 |
| %RSD | .13623 | .15841 | 1.0204 | .24639 | .41516 | .84374 | 1.1563 | .20256 |
| #1 | .73662 | .12581 | .10924 | .15910 | 2.9633 | .05824 | 1.7252 | 1.6715 |
| #2 | .73528 | .12618 | .10704 | .15936 | 2.9817 | .05727 | 1.7607 | 1.6677 |
| #3 | .73725 | .12588 | .10836 | .15987 | 2.9869 | .05770 | 1.7597 | 1.6744 |

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.35432** | **.72922** | **.00815** | **.06052** | **.06870** | **2.0661** | **19.335** |
| Stddev | .00065 | .00552 | .00006 | .00016 | .00020 | .0086 | .476 |
| %RSD | .18409 | .75756 | .77932 | .27172 | .29039 | .41468 | 2.4605 |
| #1 | .35506 | .72599 | .00822 | .06039 | .06852 | 2.0593 | 18.786 |
| #2 | .35411 | .72606 | .00810 | .06045 | .06866 | 2.0633 | 19.612 |
| #3 | .35380 | .73560 | .00813 | .06070 | .06891 | 2.0757 | 19.607 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: S3 Acquired: 8/14/2025 11:52:33 Type: Cal
Method: 6010-200.7 NEW(v98) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | 5564.8 | 96063. | 10386. | 4315.7 | 6749.8 |
| Stddev | 8.2 | 84. | 114. | 19.4 | 17.4 |
| %RSD | .14736 | .08786 | 1.0991 | .45043 | .25709 |
| #1 | 5558.3 | 96091. | 10516. | 4336.6 | 6732.8 |
| #2 | 5562.0 | 95968. | 10303. | 4312.5 | 6749.2 |
| #3 | 5574.0 | 96130. | 10339. | 4298.2 | 6767.5 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: S4 Acquired: 8/14/2025 11:56:38 Type: Cal
Method: 6010-200.7 NEW(v98) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | **.25939** | **.39387** | **.97312** | **.24598** | **.48014** | **.77917** | **23.430** | **1.6613** |
| Stddev | .00099 | .01726 | .00214 | .00170 | .00086 | .00311 | .304 | .0133 |
| %RSD | .38239 | 4.3829 | .22029 | .69311 | .17977 | .39852 | 1.2963 | .80113 |
| #1 | .25826 | .37486 | .97065 | .24404 | .47917 | .77918 | 23.544 | 1.6612 |
| #2 | .26009 | .39820 | .97418 | .24666 | .48082 | .78227 | 23.660 | 1.6746 |
| #3 | .25983 | .40856 | .97453 | .24725 | .48043 | .77606 | 23.085 | 1.6480 |

| Elem | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **7.3718** | **1.4301** | **.19599** | **2.5513** | **.82381** | **.01698** | **1.0232** | **.28627** |
| Stddev | .0111 | .0059 | .00073 | .0025 | .00222 | .00017 | .0019 | .00084 |
| %RSD | .15011 | .41264 | .37258 | .09823 | .26887 | 1.0089 | .18661 | .29242 |
| #1 | 7.3590 | 1.4315 | .19632 | 2.5485 | .82129 | .01705 | 1.0252 | .28649 |
| #2 | 7.3777 | 1.4352 | .19651 | 2.5531 | .82546 | .01679 | 1.0215 | .28697 |
| #3 | 7.3786 | 1.4237 | .19516 | 2.5524 | .82467 | .01711 | 1.0228 | .28534 |

| Elem | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **1.4774** | **.24963** | **.21874** | **.31806** | **5.9260** | **.11679** | **3.4479** | **3.3048** |
| Stddev | .0005 | .00028 | .00122 | .00088 | .0045 | .00039 | .0227 | .0132 |
| %RSD | .03255 | .11051 | .55741 | .27586 | .07662 | .33689 | .65848 | .40055 |
| #1 | 1.4768 | .24987 | .21896 | .31907 | 5.9214 | .11702 | 3.4474 | 3.2907 |
| #2 | 1.4778 | .24933 | .21742 | .31746 | 5.9305 | .11634 | 3.4709 | 3.3067 |
| #3 | 1.4774 | .24969 | .21983 | .31766 | 5.9262 | .11702 | 3.4255 | 3.3169 |

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.71016** | **1.4346** | **.01622** | **.12476** | **.14390** | **4.0795** | **37.596** |
| Stddev | .00330 | .0025 | .00013 | .00008 | .00117 | .0035 | .665 |
| %RSD | .46461 | .17566 | .78059 | .06156 | .81427 | .08571 | 1.7683 |
| #1 | .70635 | 1.4375 | .01636 | .12473 | .14256 | 4.0807 | 37.196 |
| #2 | .71213 | 1.4328 | .01611 | .12470 | .14469 | 4.0823 | 38.363 |
| #3 | .71199 | 1.4336 | .01621 | .12484 | .14446 | 4.0756 | 37.228 |

Sample Name: S4 Acquired: 8/14/2025 11:56:38 Type: Cal
Method: 6010-200.7 NEW(v98) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | 5480.8 | 96876. | 10538. | 4265.9 | 6516.4 |
| Stddev | 15.2 | 235. | 90. | 5.0 | 15.4 |
| %RSD | .27733 | .24260 | .85745 | .11664 | .23645 |
| #1 | 5489.9 | 96811. | 10533. | 4260.9 | 6519.2 |
| #2 | 5489.2 | 96680. | 10451. | 4270.8 | 6530.3 |
| #3 | 5463.2 | 97137. | 10631. | 4265.9 | 6499.8 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: S5 Acquired: 8/14/2025 12:00:49 Type: Cal
Method: 6010-200.7 NEW(v98) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | **.52214** | **.75055** | **1.9887** | **.49001** | **.97101** | **1.5704** | **47.804** | **3.2362** |
| Stddev | .00132 | .01405 | .0017 | .00140 | .00235 | .0034 | .239 | .0019 |
| %RSD | .25354 | 1.8716 | .08687 | .28502 | .24250 | .21977 | .49959 | .05742 |
| #1 | .52239 | .75494 | 1.9872 | .49014 | .96946 | 1.5675 | 47.729 | 3.2382 |
| #2 | .52071 | .73483 | 1.9906 | .48856 | .96986 | 1.5742 | 48.072 | 3.2346 |
| #3 | .52332 | .76187 | 1.9883 | .49134 | .97372 | 1.5694 | 47.612 | 3.2357 |

| Elem | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **15.012** | **2.8571** | **.38946** | **5.2257** | **1.6392** | **.03526** | **2.0548** | **.57163** |
| Stddev | .010 | .0015 | .00205 | .0024 | .0008 | .00024 | .0064 | .00079 |
| %RSD | .06610 | .05408 | .52737 | .04678 | .05214 | .66742 | .30989 | .13849 |
| #1 | 15.004 | 2.8584 | .39109 | 5.2233 | 1.6388 | .03547 | 2.0615 | .57137 |
| #2 | 15.023 | 2.8575 | .39013 | 5.2282 | 1.6386 | .03531 | 2.0541 | .57100 |
| #3 | 15.009 | 2.8554 | .38715 | 5.2256 | 1.6402 | .03501 | 2.0488 | .57252 |

| Elem | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **3.0151** | **.50684** | **.46492** | **.64436** | **11.860** | **.24910** | **6.7240** | **6.6477** |
| Stddev | .0042 | .00054 | .00334 | .00101 | .040 | .00112 | .0188 | .0128 |
| %RSD | .14040 | .10744 | .71935 | .15665 | .33913 | .44979 | .27939 | .19220 |
| #1 | 3.0111 | .50745 | .46761 | .64322 | 11.898 | .25013 | 6.7181 | 6.6475 |
| #2 | 3.0195 | .50669 | .46597 | .64473 | 11.865 | .24927 | 6.7089 | 6.6351 |
| #3 | 3.0149 | .50639 | .46117 | .64514 | 11.818 | .24791 | 6.7451 | 6.6607 |

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **1.4353** | **2.9140** | **.03442** | **.25182** | **.29735** | **8.3876** | **76.492** |
| Stddev | .0015 | .0053 | .00017 | .00044 | .00095 | .0115 | .193 |
| %RSD | .10494 | .18051 | .48667 | .17560 | .31965 | .13657 | .25187 |
| #1 | 1.4336 | 2.9194 | .03427 | .25163 | .29687 | 8.4001 | 76.714 |
| #2 | 1.4361 | 2.9135 | .03460 | .25232 | .29674 | 8.3854 | 76.378 |
| #3 | 1.4362 | 2.9089 | .03439 | .25149 | .29845 | 8.3775 | 76.383 |

Sample Name: S5 Acquired: 8/14/2025 12:00:49 Type: Cal
Method: 6010-200.7 NEW(v98) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | 5419.0 | 95852. | 10776. | 4174.5 | 6287.6 |
| Stddev | 10.4 | 471. | 20. | 35.0 | 10.7 |
| %RSD | .19211 | .49106 | .18317 | .83884 | .17087 |
| #1 | 5429.8 | 95531. | 10755. | 4149.9 | 6299.6 |
| #2 | 5418.3 | 95633. | 10781. | 4159.1 | 6278.9 |
| #3 | 5409.0 | 96393. | 10794. | 4214.6 | 6284.3 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: ICV01 Acquired: 8/14/2025 12:05:00 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.983115** | **3.831936** | **3.889633** | **3.973990** | **4.099898** | **8.031750** |
| Stddev | .008305 | .078506 | .003423 | .010526 | .002386 | .017868 |
| %RSD | .2084992 | 2.048737 | .0880110 | .2648745 | .0581933 | .2224623 |
| #1 | 3.985177 | 3.863460 | 3.890532 | 3.972193 | 4.102547 | 8.017479 |
| #2 | 3.973973 | 3.742568 | 3.885849 | 3.964478 | 4.097919 | 8.025983 |
| #3 | 3.990194 | 3.889781 | 3.892516 | 3.985299 | 4.099227 | 8.051789 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.039274** | **.2024571** | **1.975279** | **20.09242** | **.8202612** | **2.012214** |
| Stddev | .066125 | .0008682 | .002011 | .05043 | .0028819 | .001880 |
| %RSD | .8225304 | .4288514 | .1018318 | .2509945 | .3513335 | .0934154 |
| #1 | 7.970977 | .2014557 | 1.975581 | 20.03584 | .8233503 | 2.014179 |
| #2 | 8.102990 | .2029162 | 1.973133 | 20.13262 | .8176451 | 2.010433 |
| #3 | 8.043855 | .2029994 | 1.977122 | 20.10881 | .8197884 | 2.012031 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.025120** | **4.049689** | **2.015337** | **20.07467** | **2.006392** | **1.072744** |
| Stddev | .000149 | .008283 | .005588 | .11584 | .002603 | .000733 |
| %RSD | .0145115 | .2045378 | .2772597 | .5770688 | .1297477 | .0683257 |
| #1 | 1.025104 | 4.050945 | 2.010583 | 19.98325 | 2.005540 | 1.073322 |
| #2 | 1.025276 | 4.057272 | 2.021492 | 20.03581 | 2.004322 | 1.072991 |
| #3 | 1.024980 | 4.040850 | 2.013937 | 20.20494 | 2.009315 | 1.071919 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **19.65383** | **2.018386** | **2.004004** | **19.84979** | **3.963730** | **4.091221** |
| Stddev | .05700 | .002018 | .008143 | .04590 | .017439 | .004505 |
| %RSD | .2900000 | .0999879 | .4063407 | .2312326 | .4399621 | .1101216 |
| #1 | 19.65307 | 2.016996 | 2.012098 | 19.85721 | 3.943829 | 4.094664 |
| #2 | 19.71120 | 2.020700 | 1.995813 | 19.89153 | 3.971025 | 4.086122 |
| #3 | 19.59721 | 2.017461 | 2.004100 | 19.80064 | 3.976338 | 4.092878 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: ICV01 Acquired: 8/14/2025 12:05:00 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.977435 | 4.028995 | 3.862312 | F .0036382 | F .0316200 | F .0036675 |
| Stddev | .010595 | .006326 | .014334 | .0034519 | .0021320 | .0015016 |
| %RSD | .2663762 | .1570066 | .3711203 | 94.88108 | 6.742691 | 40.94357 |
| #1 | 3.979647 | 4.021962 | 3.875033 | .0001522 | .0293724 | .0022505 |
| #2 | 3.965908 | 4.034219 | 3.865122 | .0037073 | .0318740 | .0035106 |
| #3 | 3.986748 | 4.030806 | 3.846782 | .0070550 | .0336137 | .0052415 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | F -.003413 |
| Stddev | .000037 |
| %RSD | 1.097482 |
| #1 | -.003428 |
| #2 | -.003370 |
| #3 | -.003441 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5531.259 | 97090.78 | 10825.54 | 4246.931 | 6667.203 |
| Stddev | 12.144 | 309.61 | 43.46 | 17.920 | 7.714 |
| %RSD | .2195540 | .3188877 | .4014562 | .4219617 | .1156933 |
| #1 | 5527.738 | 96887.24 | 10860.39 | 4228.270 | 6663.765 |
| #2 | 5521.264 | 97447.08 | 10839.39 | 4264.005 | 6661.807 |
| #3 | 5544.774 | 96938.02 | 10776.85 | 4248.518 | 6676.038 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: LLICV01 Acquired: 8/14/2025 12:09:05 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0213823** | **.0417178** | **.0121627** | **.0195805** | **.0531848** | **.0902064** |
| Stddev | .0009559 | .0009872 | .0009880 | .0018248 | .0007901 | .0030218 |
| %RSD | 4.470651 | 2.366357 | 8.123563 | 9.319634 | 1.485474 | 3.349888 |
| #1 | .0207778 | .0406249 | .0129021 | .0181910 | .0538751 | .0889016 |
| #2 | .0224844 | .0419835 | .0125453 | .0189035 | .0523231 | .0880563 |
| #3 | .0208849 | .0425449 | .0110405 | .0216471 | .0533563 | .0936614 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0978587** | **.0062208** | **.0058459** | **2.091367** | **.0107134** | **.0298686** |
| Stddev | .0008121 | .0000360 | .0000284 | .002960 | .0001968 | .0000713 |
| %RSD | .8298370 | .5793897 | .4864702 | .1415261 | 1.836751 | .2386857 |
| #1 | .0977667 | .0062343 | .0058376 | 2.087972 | .0105317 | .0298625 |
| #2 | .0970965 | .0062482 | .0058226 | 2.092727 | .0106862 | .0298006 |
| #3 | .0987128 | .0061800 | .0058776 | 2.093402 | .0109224 | .0299428 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0215755** | **.1121069** | **.0215660** | **2.198578** | **.0402091** | **.0104762** |
| Stddev | .0005207 | .0007384 | .0003913 | .038518 | .0003417 | .0003583 |
| %RSD | 2.413151 | .6586426 | 1.814491 | 1.751940 | .8497810 | 3.420063 |
| #1 | .0209786 | .1112680 | .0218595 | 2.155669 | .0402190 | .0107686 |
| #2 | .0219361 | .1126581 | .0217168 | 2.209895 | .0398626 | .0105833 |
| #3 | .0218117 | .1123947 | .0211217 | 2.230169 | .0405457 | .0100765 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.917047** | **.0394358** | **.0428785** | **2.025081** | F **.1226145** | **.2101118** |
| Stddev | .017376 | .0024628 | .0002496 | .012520 | .0010521 | .0001475 |
| %RSD | .9064074 | 6.245087 | .5822018 | .6182589 | .8580269 | .0702122 |
| #1 | 1.915372 | .0420531 | .0431567 | 2.036886 | .1220081 | .2102661 |
| #2 | 1.935200 | .0371640 | .0426740 | 2.026406 | .1238294 | .2100970 |
| #3 | 1.900568 | .0390903 | .0428050 | 2.011951 | .1220062 | .2099722 |

Sample Name: LLICV01 Acquired: 8/14/2025 12:09:05 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F .0247853 | .0403823 | .3934222 | .0165115 | .0208180 | F .0240415 |
| Stddev | .0005211 | .0009143 | .0126056 | .0022866 | .0016048 | .0012545 |
| %RSD | 2.102346 | 2.264021 | 3.204095 | 13.84849 | 7.708655 | 5.218282 |
| #1 | .0248003 | .0407973 | .3961154 | .0147891 | .0191474 | .0254868 |
| #2 | .0242569 | .0393342 | .3796876 | .0191058 | .0223477 | .0234035 |
| #3 | .0252988 | .0410156 | .4044636 | .0156396 | .0209588 | .0232341 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0201339 |
| Stddev | .0000982 |
| %RSD | .4875072 |
| #1 | .0202003 |
| #2 | .0201802 |
| #3 | .0200212 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5701.620 | 100508.9 | 10894.33 | 4336.273 | 7268.006 |
| Stddev | 14.008 | 97.0 | 60.80 | 9.371 | 15.336 |
| %RSD | .2456774 | .0965509 | .5580570 | .2161087 | .2110062 |
| #1 | 5685.677 | 100620.6 | 10964.48 | 4337.092 | 7250.526 |
| #2 | 5711.953 | 100461.2 | 10856.99 | 4345.207 | 7279.204 |
| #3 | 5707.230 | 100445.0 | 10861.52 | 4326.519 | 7274.286 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: ICB01 Acquired: 8/14/2025 12:13:21 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0002298** | **.0005026** | **.0004058** | **.0006011** | **.0022911** | **-.004473** | **-.001179** |
| Stddev | .0009218 | .0012439 | .0007915 | .0020429 | .0010671 | .008816 | .000719 |
| %RSD | 401.1543 | 247.5144 | 195.0551 | 339.8793 | 46.57637 | 197.1131 | 61.02428 |
| #1 | -.000113 | .0018840 | -.000373 | .0008550 | .0035123 | -.007412 | -.001742 |
| #2 | -.000472 | -.000529 | .001209 | .0025051 | .0015381 | .005438 | -.001426 |
| #3 | .001274 | .000152 | .000382 | -.001557 | .0018229 | -.011443 | -.000368 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000010** | **.0001187** | **.0216559** | **.0005406** | **.0001733** | **.0001837** | **.0231846** |
| Stddev | .000036 | .0000400 | .0031372 | .0002058 | .0000390 | .0006504 | .0013093 |
| %RSD | 356.8307 | 33.73577 | 14.48634 | 38.07890 | 22.53313 | 354.0824 | 5.647170 |
| #1 | -.000005 | .0001626 | .0251127 | .0003333 | .0001481 | -.000534 | .0246733 |
| #2 | -.000048 | .0000841 | .0189897 | .0005435 | .0001535 | .000351 | .0226688 |
| #3 | .000023 | .0001094 | .0208652 | .0007449 | .0002182 | .000734 | .0222118 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0008928** | **.0019572** | **.0010869** | **.0005929** | **.0138255** | **.0008757** | **.0032484** |
| Stddev | .0005819 | .0208712 | .0000973 | .0004128 | .0118668 | .0007327 | .0000452 |
| %RSD | 65.18051 | 1066.392 | 8.951284 | 69.62126 | 85.83296 | 83.67391 | 1.390545 |
| #1 | .0004154 | -.015581 | .0009949 | .0010453 | .0066060 | .0017186 | .0032971 |
| #2 | .0007220 | -.003589 | .0011887 | .0004971 | .0073491 | .0003908 | .0032403 |
| #3 | .0015411 | .025041 | .0010770 | .0002365 | .0275214 | .0005177 | .0032079 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0487387** | **.0129003** | **.0008296** | **-.013039** | **.0000832** | **.0059875** | **.0017213** |
| Stddev | .0200701 | .0006508 | .0001699 | .000272 | .0005810 | .0040532 | .0010652 |
| %RSD | 41.17899 | 5.044592 | 20.47887 | 2.088748 | 698.3645 | 67.69503 | 61.87944 |
| #1 | .0567178 | .0136449 | .0009170 | -.012725 | .0007438 | .0100363 | .0027054 |
| #2 | .0259061 | .0126152 | .0009381 | -.013181 | -.000146 | .0019299 | .0005904 |
| #3 | .0635921 | .0124406 | .0006338 | -.013212 | -.000348 | .0059961 | .0018683 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: ICB01 Acquired: 8/14/2025 12:13:21 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0044082 | .0009302 | .0002286 |
| Stddev | .0019912 | .0011768 | .0000429 |
| %RSD | 45.16973 | 126.5009 | 18.74714 |
| #1 | .0044665 | .0020707 | .0002150 |
| #2 | .0063696 | .0009998 | .0001942 |
| #3 | .0023886 | -.000280 | .0002766 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5670.487 | 100939.3 | 10862.56 | 4318.704 | 7325.825 |
| Stddev | 5.395 | 115.5 | 48.56 | 14.353 | 6.874 |
| %RSD | .0951460 | .1143978 | .4470516 | .3323393 | .0938274 |
| #1 | 5670.528 | 101004.8 | 10868.33 | 4302.481 | 7328.969 |
| #2 | 5675.862 | 101007.1 | 10907.98 | 4329.750 | 7317.942 |
| #3 | 5665.072 | 100806.0 | 10811.37 | 4323.880 | 7330.565 |

Sample Name: CRI01 Acquired: 8/14/2025 12:23:01 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0210861** | **.0412680** | **.0123628** | **.0178605** | **.0527549** | **.1053792** | **.0964454** |
| Stddev | .0008967 | .0006478 | .0010791 | .0018821 | .0019546 | .0041325 | .0007619 |
| %RSD | 4.252468 | 1.569614 | 8.728210 | 10.53755 | 3.705026 | 3.921587 | .7899380 |
| #1 | .0201121 | .0420157 | .0135174 | .0192618 | .0507190 | .1032425 | .0956782 |
| #2 | .0212692 | .0409092 | .0121911 | .0157213 | .0546165 | .1101427 | .0972018 |
| #3 | .0218772 | .0408789 | .0113799 | .0185984 | .0529291 | .1027525 | .0964561 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0062698** | **.0059237** | **2.069657** | **.0103718** | **.0298727** | **.0214296** | **.1061838** |
| Stddev | .0000211 | .0000456 | .010009 | .0000577 | .0000726 | .0002092 | .0004287 |
| %RSD | .3373891 | .7705565 | .4836190 | .5562377 | .2429351 | .9761585 | .4036983 |
| #1 | .0062818 | .0059700 | 2.062611 | .0103754 | .0297893 | .0214155 | .1065922 |
| #2 | .0062822 | .0059224 | 2.081114 | .0103123 | .0299067 | .0216455 | .1057374 |
| #3 | .0062454 | .0058788 | 2.065245 | .0104275 | .0299220 | .0212278 | .1062219 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0207229** | **2.181947** | **.0402143** | **.0110308** | **1.834180** | **.0367466** | **.0430272** |
| Stddev | .0003053 | .019185 | .0001315 | .0003101 | .007997 | .0011098 | .0001918 |
| %RSD | 1.473025 | .8792714 | .3271021 | 2.811667 | .4360097 | 3.020202 | .4457806 |
| #1 | .0209542 | 2.194871 | .0400666 | .0107255 | 1.840396 | .0366604 | .0431666 |
| #2 | .0203769 | 2.159903 | .0402571 | .0113456 | 1.825158 | .0378970 | .0428085 |
| #3 | .0208377 | 2.191067 | .0403190 | .0110213 | 1.836986 | .0356824 | .0431066 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.928746** | **.1058214** | **.2105935** | **.0336065** | **.0392938** | **.3742952** | **.0181968** |
| Stddev | .022942 | .0007276 | .0004305 | .0002983 | .0007069 | .0081726 | .0020823 |
| %RSD | 1.189481 | .6876127 | .2044318 | .8875180 | 1.798934 | 2.183451 | 11.44326 |
| #1 | 1.947335 | .1049941 | .2102959 | .0338008 | .0386869 | .3713029 | .0170968 |
| #2 | 1.903106 | .1061075 | .2110872 | .0332631 | .0400699 | .3680405 | .0168952 |
| #3 | 1.935797 | .1063624 | .2103975 | .0337555 | .0391246 | .3835421 | .0205984 |

Sample Name: CRI01 Acquired: 8/14/2025 12:23:01 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0205776 | .0205029 | .0200453 |
| Stddev | .0020253 | .0023570 | .0001262 |
| %RSD | 9.841978 | 11.49581 | .6296726 |
| #1 | .0182487 | .0225656 | .0199354 |
| #2 | .0215588 | .0179339 | .0201832 |
| #3 | .0219254 | .0210092 | .0200173 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5763.608 | 101503.7 | 11014.31 | 4361.004 | 7378.116 |
| Stddev | 8.529 | 242.2 | 38.21 | 15.591 | 16.080 |
| %RSD | .1479726 | .2385992 | .3469469 | .3575135 | .2179444 |
| #1 | 5753.943 | 101511.9 | 11048.28 | 4343.007 | 7359.981 |
| #2 | 5766.804 | 101257.5 | 10972.94 | 4369.616 | 7383.728 |
| #3 | 5770.076 | 101741.7 | 11021.70 | 4370.390 | 7390.637 |

Sample Name: ICSA01 Acquired: 8/14/2025 12:27:17 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0075727** | **-.003357** | **-.005206** | **-.003058** | **-.001095** | **250.5428** |
| Stddev | .0034473 | .001740 | .001174 | .001247 | .001496 | .4618 |
| %RSD | 45.52275 | 51.82516 | 22.55075 | 40.79227 | 136.6599 | .1843156 |
| #1 | .0037531 | -.004266 | -.006551 | -.002840 | -.001466 | 250.0878 |
| #2 | .0104529 | -.004454 | -.004390 | -.004399 | -.002370 | 250.5296 |
| #3 | .0085121 | -.001351 | -.004677 | -.001933 | .000552 | 251.0111 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000965** | **.0013551** | **.0029093** | **236.6456** | **.0603355** | **.0018407** |
| Stddev | .0004241 | .0000592 | .0000286 | .4593 | .0007318 | .0001227 |
| %RSD | 439.5010 | 4.372077 | .9818466 | .1940958 | 1.212856 | 6.664332 |
| #1 | .0005044 | .0012882 | .0028904 | 236.7561 | .0600622 | .0019757 |
| #2 | -.000342 | .0014011 | .0029422 | 236.1411 | .0597796 | .0017362 |
| #3 | .000127 | .0013759 | .0028953 | 237.0395 | .0611646 | .0018100 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0072050** | **99.78717** | **.0079467** | **251.4685** | **.0054012** | **.0014842** |
| Stddev | .0004738 | .33812 | .0002954 | .6477 | .0004339 | .0006806 |
| %RSD | 6.575834 | .3388378 | 3.717397 | .2575749 | 8.033482 | 45.85823 |
| #1 | .0072758 | 99.68795 | .0082821 | 251.8906 | .0056928 | .0011617 |
| #2 | .0076394 | 99.50976 | .0078329 | 250.7228 | .0056081 | .0022662 |
| #3 | .0066998 | 100.1638 | .0077252 | 251.7922 | .0049025 | .0010248 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1113047** | **.0021639** | **.0033253** | **.1302653** | **.0451729** | **.0010129** |
| Stddev | .0092092 | .0009880 | .0005992 | .0205773 | .0019586 | .0004228 |
| %RSD | 8.273872 | 45.65865 | 18.02090 | 15.79649 | 4.335866 | 41.74117 |
| #1 | .1218443 | .0030264 | .0026721 | .1274340 | .0435161 | .0005298 |
| #2 | .1072584 | .0010860 | .0038496 | .1112501 | .0446681 | .0013155 |
| #3 | .1048114 | .0023794 | .0034542 | .1521116 | .0473345 | .0011935 |

Sample Name: ICSA01 Acquired: 8/14/2025 12:27:17 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.017093 | -.004564 | .0259288 | .0015885 | -.008743 | F -.026673 |
| Stddev | .000544 | .000171 | .0061664 | .0029764 | .006692 | .000514 |
| %RSD | 3.181835 | 3.750525 | 23.78194 | 187.3786 | 76.54074 | 1.925892 |
| #1 | -.016469 | -.004487 | .0252165 | -.001818 | -.001766 | -.027220 |
| #2 | -.017470 | -.004445 | .0324205 | .003685 | -.015108 | -.026200 |
| #3 | -.017339 | -.004761 | .0201496 | .002898 | -.009357 | -.026598 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0028082 |
| Stddev | .0003299 |
| %RSD | 11.74692 |
| #1 | .0030898 |
| #2 | .0028895 |
| #3 | .0024452 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5005.005 | 88151.07 | 10554.21 | 3830.210 | 5782.522 |
| Stddev | 7.281 | 153.56 | 57.07 | 9.395 | 6.285 |
| %RSD | .1454652 | .1742002 | .5407174 | .2452904 | .1086967 |
| #1 | 4996.795 | 87990.46 | 10492.92 | 3832.753 | 5775.374 |
| #2 | 5007.545 | 88296.44 | 10563.90 | 3838.071 | 5787.186 |
| #3 | 5010.676 | 88166.30 | 10605.82 | 3819.805 | 5785.007 |

Sample Name: ICSAB01 Acquired: 8/14/2025 12:38:15 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1101404** | **.1089983** | **.0425643** | **.0466071** | **.5928043** | **248.9878** |
| Stddev | .0053416 | .0027981 | .0003732 | .0046662 | .0043643 | .3835 |
| %RSD | 4.849794 | 2.567076 | .8767128 | 10.01181 | .7362201 | .1540337 |
| #1 | .1085369 | .1105754 | .0429598 | .0412425 | .5929422 | 249.1322 |
| #2 | .1057842 | .1057676 | .0422185 | .0488550 | .5970980 | 248.5530 |
| #3 | .1161000 | .1106517 | .0425147 | .0497239 | .5883726 | 249.2782 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4853229** | **.4963325** | **.9886766** | **235.5356** | **.5661622** | **.4944547** |
| Stddev | .0023793 | .0022460 | .0004385 | .6697 | .0016814 | .0005784 |
| %RSD | .4902504 | .4525296 | .0443504 | .2843407 | .2969734 | .1169674 |
| #1 | .4880659 | .4944216 | .9882224 | 235.8099 | .5664830 | .4949519 |
| #2 | .4840862 | .4957694 | .9887099 | 234.7723 | .5676600 | .4945921 |
| #3 | .4838166 | .4988065 | .9890975 | 236.0247 | .5643435 | .4938200 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4903239** | **98.61986** | **.4865518** | **252.0626** | **.9866669** | **.2160691** |
| Stddev | .0001074 | .67082 | .0015308 | .7698 | .0007218 | .0004531 |
| %RSD | .0218982 | .6802094 | .3146245 | .3053883 | .0731513 | .2096954 |
| #1 | .4903876 | 99.31400 | .4877821 | 252.2033 | .9859722 | .2161437 |
| #2 | .4903842 | 98.57047 | .4848375 | 251.2321 | .9866154 | .2164803 |
| #3 | .4902000 | 97.97509 | .4870358 | 252.7522 | .9874130 | .2155834 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.006452** | **.4790916** | **1.044322** | **-.000278** | **.9672500** | **1.005912** |
| Stddev | .011076 | .0024162 | .001152 | .028008 | .0041877 | .000209 |
| %RSD | 171.6611 | .5043282 | .1103497 | 10089.61 | .4329533 | .0207286 |
| #1 | -.019207 | .4793599 | 1.043487 | .031811 | .9676307 | 1.005845 |
| #2 | -.000892 | .4765525 | 1.045637 | -.012827 | .9628849 | 1.006146 |
| #3 | .000742 | .4813625 | 1.043843 | -.019817 | .9712344 | 1.005746 |

Sample Name: ICSAB01 Acquired: 8/14/2025 12:38:15 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .9824429 | .9702644 | 1.005418 | F .0062988 | F .0008193 | F -.032510 |
| Stddev | .0027704 | .0055856 | .008784 | .0042038 | .0046006 | .001009 |
| %RSD | .2819896 | .5756804 | .8736808 | 66.73965 | 561.5008 | 3.103004 |
| #1 | .9793576 | .9743642 | .998022 | .0023329 | -.003188 | -.033557 |
| #2 | .9847174 | .9639026 | 1.015127 | .0058578 | -.000197 | -.032428 |
| #3 | .9832538 | .9725265 | 1.003105 | .0107057 | .005843 | -.031545 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | F .0025228 |
| Stddev | .0004640 |
| %RSD | 18.39175 |
| #1 | .0021875 |
| #2 | .0023284 |
| #3 | .0030523 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5192.975 | 90543.49 | 10782.36 | 3947.009 | 6004.227 |
| Stddev | 8.861 | 299.13 | 58.87 | 9.318 | 8.600 |
| %RSD | .1706386 | .3303769 | .5459618 | .2360883 | .1432334 |
| #1 | 5187.286 | 90771.55 | 10839.12 | 3952.267 | 5998.025 |
| #2 | 5203.185 | 90204.80 | 10786.38 | 3936.250 | 6014.044 |
| #3 | 5188.455 | 90654.13 | 10721.59 | 3952.510 | 6000.611 |

Sample Name: ICSA01DLX20 Acquired: 8/14/2025 12:42:16 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01DLX20 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0010744** | **.0007808** | **-.000452** | **-.001411** | **.0016594** | **12.09840** | **-.001222** |
| Stddev | .0013452 | .0008230 | .000748 | .002158 | .0019796 | .02381 | .000774 |
| %RSD | 125.2093 | 105.4140 | 165.6095 | 152.9982 | 119.2954 | .1968039 | 63.33586 |
| #1 | -.000379 | .0017282 | -.001142 | .001037 | .0036305 | 12.08503 | -.000624 |
| #2 | .001327 | .0002428 | -.000557 | -.002230 | .0016761 | 12.08428 | -.002096 |
| #3 | .002275 | .0003713 | .000343 | -.003040 | -.000329 | 12.12589 | -.000946 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000936** | **.0001225** | **11.97091** | **.0031140** | **.0001084** | **.0003743** | **4.724494** |
| Stddev | .0000865 | .0000282 | .04897 | .0004883 | .0001366 | .0000935 | .038559 |
| %RSD | 92.49452 | 23.03877 | .4090605 | 15.68124 | 126.0651 | 24.98083 | .8161560 |
| #1 | .0000050 | .0000984 | 12.02593 | .0029816 | -.000011 | .0002715 | 4.769004 |
| #2 | .0000977 | .0001157 | 11.93211 | .0036549 | .000079 | .0004542 | 4.703199 |
| #3 | .0001780 | .0001535 | 11.95470 | .0027056 | .000257 | .0003971 | 4.701278 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0033705** | **12.56556** | **.0005497** | **.0005971** | **-.015384** | **-.000618** | **.0001347** |
| Stddev | .0002668 | .01802 | .0002229 | .0002129 | .013663 | .001397 | .0003393 |
| %RSD | 7.915770 | .1433878 | 40.55481 | 35.65948 | 88.81337 | 225.9650 | 251.9335 |
| #1 | .0031065 | 12.57692 | .0004889 | .0005734 | -.022341 | .000859 | .0004678 |
| #2 | .0033648 | 12.57497 | .0003635 | .0008209 | -.024169 | -.000796 | -.000210 |
| #3 | .0036400 | 12.54478 | .0007968 | .0003970 | .000357 | -.001918 | .000147 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.001895** | **.0006398** | **.0004395** | **-.015085** | **.0002478** | **.0205204** | **-.000252** |
| Stddev | .016853 | .0005575 | .0001271 | .000353 | .0012907 | .0059256 | .001704 |
| %RSD | 889.2343 | 87.13644 | 28.92616 | 2.340934 | 520.7823 | 28.87666 | 676.0330 |
| #1 | -.002133 | -.000002 | .0005521 | -.014683 | .0017302 | .0273495 | .001713 |
| #2 | -.018628 | .000912 | .0003016 | -.015342 | -.000627 | .0174730 | -.001326 |
| #3 | .015075 | .001009 | .0004648 | -.015232 | -.000359 | .0167386 | -.001143 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: ICSA01DLX20 Acquired: 8/14/2025 12:42:16 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01DLX20 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0000190 | -.004506 | .0002203 |
| Stddev | .0021982 | .000854 | .0000417 |
| %RSD | 11585.57 | 18.95512 | 18.91821 |
| #1 | -.000794 | -.003832 | .0001764 |
| #2 | .002508 | -.004220 | .0002594 |
| #3 | -.001657 | -.005467 | .0002251 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5662.440 | 98670.18 | 10898.76 | 4236.293 | 7129.531 |
| Stddev | 18.326 | 420.54 | 14.27 | 16.118 | 25.654 |
| %RSD | .3236424 | .4262127 | .1309411 | .3804830 | .3598209 |
| #1 | 5648.225 | 98283.27 | 10910.72 | 4229.562 | 7108.245 |
| #2 | 5655.972 | 98609.48 | 10882.96 | 4224.631 | 7122.333 |
| #3 | 5683.123 | 99117.77 | 10902.60 | 4254.686 | 7158.015 |

Sample Name: ICSAB01DLX20 Acquired: 8/14/2025 12:46:33 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01DLX20 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0048372 | .0055963 | .0040051 | .0019855 | .0315576 | 12.76710 | .0233895 |
| Stddev | .0007520 | .0025436 | .0013490 | .0005297 | .0004807 | .01604 | .0002968 |
| %RSD | 15.54492 | 45.45172 | 33.68197 | 26.67841 | 1.523298 | .1256493 | 1.269128 |
| #1 | .0044907 | .0034836 | .0044907 | .0023567 | .0318409 | 12.75109 | .0230474 |
| #2 | .0043210 | .0048856 | .0050441 | .0013789 | .0310026 | 12.78318 | .0235432 |
| #3 | .0057000 | .0084196 | .0024805 | .0022209 | .0318295 | 12.76702 | .0235780 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0256799 | .0487169 | 12.61825 | .0294966 | .0244817 | .0266158 | 4.988984 |
| Stddev | .0001207 | .0000598 | .03024 | .0001985 | .0000281 | .0001228 | .027332 |
| %RSD | .4698462 | .1226699 | .2396808 | .6728473 | .1145615 | .4612585 | .5478390 |
| #1 | .0255414 | .0487704 | 12.61232 | .0293048 | .0245045 | .0265677 | 4.989086 |
| #2 | .0257622 | .0486524 | 12.65102 | .0297011 | .0244504 | .0267553 | 5.016265 |
| #3 | .0257362 | .0487279 | 12.59141 | .0294839 | .0244902 | .0265244 | 4.961602 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0261608 | 13.15380 | .0499155 | .0109946 | -.003454 | .0237732 | .0521969 |
| Stddev | .0005609 | .07329 | .0001980 | .0008295 | .017123 | .0019223 | .0002983 |
| %RSD | 2.144196 | .5571538 | .3966377 | 7.544405 | 495.7248 | 8.086107 | .5714240 |
| #1 | .0268084 | 13.08523 | .0501368 | .0105996 | -.003139 | .0237492 | .0521912 |
| #2 | .0258298 | 13.23103 | .0498545 | .0119477 | .013509 | .0218630 | .0519015 |
| #3 | .0258441 | 13.14512 | .0497552 | .0104364 | -.020733 | .0257074 | .0524980 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.014747 | .0513761 | .0545615 | .0351141 | .0515348 | .0684289 | -.001124 |
| Stddev | .018204 | .0007264 | .0001483 | .0006957 | .0001633 | .0109772 | .001227 |
| %RSD | 123.4409 | 1.413889 | .2717157 | 1.981210 | .3169600 | 16.04173 | 109.2166 |
| #1 | -.027077 | .0505403 | .0545261 | .0350264 | .0517228 | .0597377 | -.000177 |
| #2 | -.023325 | .0517327 | .0544342 | .0344664 | .0514279 | .0647842 | -.002510 |
| #3 | .006161 | .0518553 | .0547243 | .0358494 | .0514536 | .0807649 | -.000683 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: ICSAB01DLX20 Acquired: 8/14/2025 12:46:33 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01DLX20 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **-.001592** | **-.003843** | **.0001801** |
| Stddev | .001007 | .000939 | .0000552 |
| %RSD | 63.25944 | 24.43630 | 30.63516 |
| #1 | -.001781 | -.003166 | .0001563 |
| #2 | -.000504 | -.003447 | .0001409 |
| #3 | -.002491 | -.004915 | .0002433 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5566.274** | **97840.60** | **10849.98** | **4224.092** | **7033.477** |
| Stddev | 8.015 | 219.34 | 30.21 | 11.940 | 9.229 |
| %RSD | .1439980 | .2241766 | .2784520 | .2826556 | .1312137 |
| #1 | 5557.491 | 97929.14 | 10853.22 | 4236.773 | 7024.237 |
| #2 | 5568.138 | 97590.84 | 10818.27 | 4222.438 | 7033.498 |
| #3 | 5573.194 | 98001.83 | 10878.43 | 4213.066 | 7042.695 |

Sample Name: CCV01 Acquired: 8/14/2025 12:50:45 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.074211** | **5.279395** | **4.962132** | **5.136518** | **5.102735** | **10.08323** | **9.908862** |
| Stddev | .002136 | .093187 | .007171 | .015562 | .013369 | .02114 | .018850 |
| %RSD | .0420911 | 1.765105 | .1445090 | .3029662 | .2619942 | .2096453 | .1902362 |
| #1 | 5.072552 | 5.190169 | 4.970401 | 5.118680 | 5.096017 | 10.09302 | 9.928591 |
| #2 | 5.073459 | 5.376093 | 4.957625 | 5.143553 | 5.094058 | 10.05897 | 9.906961 |
| #3 | 5.076620 | 5.271924 | 4.958370 | 5.147319 | 5.118131 | 10.09770 | 9.891034 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2495920** | **2.490153** | **25.01199** | **1.022039** | **2.492499** | **1.266680** | **5.009785** |
| Stddev | .0011262 | .003017 | .07011 | .003066 | .003044 | .000422 | .012648 |
| %RSD | .4512065 | .1211662 | .2803019 | .2999458 | .1221394 | .0332885 | .2524579 |
| #1 | .2506142 | 2.492413 | 25.06699 | 1.024907 | 2.494707 | 1.266891 | 4.995500 |
| #2 | .2497771 | 2.486727 | 25.03592 | 1.022401 | 2.489026 | 1.266194 | 5.019558 |
| #3 | .2483848 | 2.491320 | 24.93305 | 1.018808 | 2.493765 | 1.266954 | 5.014296 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.473673** | **24.92503** | **2.492797** | **1.269200** | **24.88896** | **2.513847** | **2.548355** |
| Stddev | .010181 | .06460 | .002383 | .000283 | .03386 | .004820 | .007382 |
| %RSD | .4115772 | .2591822 | .0955990 | .0223307 | .1360332 | .1917414 | .2896750 |
| #1 | 2.484741 | 24.91509 | 2.494061 | 1.269515 | 24.92803 | 2.519350 | 2.552962 |
| #2 | 2.471571 | 24.99402 | 2.490048 | 1.269116 | 24.87070 | 2.511820 | 2.552262 |
| #3 | 2.464707 | 24.86597 | 2.494283 | 1.268967 | 24.86816 | 2.510372 | 2.539841 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **25.09230** | **4.980957** | **5.135268** | **4.992681** | **5.003937** | **5.069945** | **4.939930** |
| Stddev | .00426 | .018017 | .003625 | .002290 | .016529 | .022356 | .007886 |
| %RSD | .0169679 | .3617099 | .0705829 | .0458728 | .3303104 | .4409544 | .1596444 |
| #1 | 25.09525 | 4.998847 | 5.133488 | 4.994548 | 5.020609 | 5.050058 | 4.944776 |
| #2 | 25.09423 | 4.981207 | 5.132878 | 4.993370 | 5.003646 | 5.065634 | 4.930830 |
| #3 | 25.08742 | 4.962816 | 5.139438 | 4.990125 | 4.987556 | 5.094142 | 4.944183 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: CCV01 Acquired: 8/14/2025 12:50:45 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **4.956511** | **4.929372** | **5.079991** |
| Stddev | .013324 | .022735 | .018368 |
| %RSD | .2688148 | .4612141 | .3615681 |
| #1 | 4.946840 | 4.954332 | 5.094219 |
| #2 | 4.950983 | 4.923938 | 5.059256 |
| #3 | 4.971709 | 4.909846 | 5.086499 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5481.655** | **96915.21** | **10942.63** | **4152.549** | **6579.175** |
| Stddev | 6.687 | 123.77 | 53.59 | 13.914 | 9.623 |
| %RSD | .1219973 | .1277114 | .4897008 | .3350621 | .1462643 |
| #1 | 5473.958 | 96880.79 | 10895.66 | 4162.661 | 6568.542 |
| #2 | 5486.043 | 96812.29 | 10931.22 | 4136.681 | 6587.286 |
| #3 | 5484.963 | 97052.55 | 11001.00 | 4158.305 | 6581.696 |

Sample Name: CCB01 Acquired: 8/14/2025 12:54:56 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000165** | **-.000959** | **.0002645** | **-.000817** | **.0010256** | **-.013473** | **-.002807** |
| Stddev | .001951 | .000617 | .0004780 | .000520 | .0013679 | .006106 | .000893 |
| %RSD | 1182.610 | 64.35497 | 180.7352 | 63.65689 | 133.3720 | 45.32330 | 31.82256 |
| #1 | .000333 | -.001557 | .0001635 | -.000659 | .0014513 | -.017936 | -.003359 |
| #2 | .001489 | -.000324 | .0007849 | -.000394 | -.000504 | -.006514 | -.003286 |
| #3 | -.002317 | -.000997 | -.000155 | -.001398 | .002130 | -.015968 | -.001776 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000354** | **.0000612** | **.0126438** | **.0003876** | **-.000081** | **.0001444** | **.0001769** |
| Stddev | .0000059 | .0000327 | .0029067 | .0001092 | .000134 | .0005746 | .0033815 |
| %RSD | 16.77645 | 53.34030 | 22.98918 | 28.16120 | 164.5226 | 397.8375 | 1911.749 |
| #1 | .0000292 | .0000556 | .0154798 | .0002897 | .000033 | .0007913 | -.003142 |
| #2 | .0000410 | .0000963 | .0096712 | .0003679 | -.000229 | -.000051 | .003617 |
| #3 | .0000361 | .0000318 | .0127803 | .0005053 | -.000049 | -.000307 | .000056 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000930** | **.0219449** | **.0001860** | **.0007198** | **-.006220** | **-.001147** | **.0008043** |
| Stddev | .0003772 | .0181410 | .0000906 | .0003053 | .008694 | .000554 | .0001519 |
| %RSD | 405.4888 | 82.66611 | 48.69862 | 42.41174 | 139.7634 | 48.31889 | 18.88932 |
| #1 | -.000129 | .0420857 | .0000960 | .0005948 | -.014712 | -.000614 | .0008800 |
| #2 | -.000121 | .0068889 | .0001848 | .0004968 | .002662 | -.001720 | .0009036 |
| #3 | .000529 | .0168601 | .0002772 | .0010677 | -.006611 | -.001108 | .0006294 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.003249** | **.0074898** | **.0007262** | **-.014487** | **.0001290** | **.0237067** | **-.001848** |
| Stddev | .014680 | .0002579 | .0002442 | .000420 | .0012859 | .0016135 | .000519 |
| %RSD | 451.7650 | 3.442761 | 33.62055 | 2.897985 | 996.8694 | 6.805928 | 28.05405 |
| #1 | -.018882 | .0076888 | .0004609 | -.014918 | .0012858 | .0223723 | -.001507 |
| #2 | .010242 | .0075821 | .0009415 | -.014463 | -.001256 | .0254999 | -.001593 |
| #3 | -.001108 | .0071985 | .0007762 | -.014080 | .000357 | .0232480 | -.002445 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: CCB01 Acquired: 8/14/2025 12:54:56 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.000127 | -.001895 | -.000015 |
| Stddev | .001386 | .000987 | .000071 |
| %RSD | 1088.678 | 52.05329 | 482.4352 |
| | | | |
| #1 | .000645 | -.001575 | .000014 |
| #2 | .000700 | -.003003 | .000037 |
| #3 | -.001727 | -.001109 | -.000095 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5676.254 | 101102.3 | 11071.46 | 4279.285 | 7396.664 |
| Stddev | 9.898 | 473.8 | 33.78 | 24.023 | 18.787 |
| %RSD | .1743761 | .4686708 | .3050975 | .5613776 | .2539984 |
| | | | | | |
| #1 | 5686.812 | 101095.7 | 11032.52 | 4272.258 | 7412.229 |
| #2 | 5667.185 | 100631.7 | 11088.92 | 4259.560 | 7375.795 |
| #3 | 5674.765 | 101579.3 | 11092.92 | 4306.038 | 7401.968 |

Sample Name: Q2832-01 Acquired: 8/14/2025 12:59:16 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0849478** | **-.032143** | **3.523241** | **.0059061** | **.0698530** | **85.45999** | **.9848550** |
| Stddev | .0026202 | .000187 | .005837 | .0006242 | .0004410 | .19262 | .0063235 |
| %RSD | 3.084447 | .5823578 | .1656665 | 10.56881 | .6312582 | .2253958 | .6420713 |
| #1 | .0819224 | -.032355 | 3.526547 | .0053158 | .0693740 | 85.34143 | .9884808 |
| #2 | .0864812 | -.032073 | 3.526674 | .0058431 | .0702420 | 85.68224 | .9885308 |
| #3 | .0864398 | -.032001 | 3.516501 | .0065594 | .0699431 | 85.35629 | .9775533 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0076076** | **.0133278** | **70.47171** | **.2973433** | **.1227520** | **.8306538** | **258.6725** |
| Stddev | .0001126 | .0001854 | .27303 | .0004095 | .0001876 | .0012302 | 1.6062 |
| %RSD | 1.479519 | 1.390850 | .3874383 | .1377114 | .1527931 | .1480986 | .6209220 |
| #1 | .0075107 | .0131153 | 70.45046 | .2977999 | .1228570 | .8303060 | 260.4023 |
| #2 | .0077311 | .0134561 | 70.75474 | .2970088 | .1228635 | .8320204 | 257.2283 |
| #3 | .0075812 | .0134120 | 70.20991 | .2972210 | .1225354 | .8296349 | 258.3870 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.679245** | **41.21518** | **.3032896** | **.0109548** | **2.751245** | **.3006464** | **1.524582** |
| Stddev | .020172 | .13377 | .0003015 | .0006795 | .021812 | .0006171 | .004923 |
| %RSD | .5482641 | .3245699 | .0994056 | 6.202613 | .7928171 | .2052551 | .3228776 |
| #1 | 3.687187 | 41.12035 | .3029449 | .0116502 | 2.775691 | .3002989 | 1.529946 |
| #2 | 3.694238 | 41.36819 | .3035039 | .0102924 | 2.733771 | .3013588 | 1.523528 |
| #3 | 3.656311 | 41.15700 | .3034201 | .0109219 | 2.744273 | .3002813 | 1.520271 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.26699** | **.1698241** | **.0106148** | **.1256281** | **4.236538** | **12.41740** | **5.783223** |
| Stddev | .05788 | .0085317 | .0002579 | .0007223 | .018811 | .06844 | .004539 |
| %RSD | .5637665 | 5.023816 | 2.429395 | .5749885 | .4440299 | .5511320 | .0784910 |
| #1 | 10.33176 | .1785096 | .0103469 | .1264461 | 4.238402 | 12.46728 | 5.780699 |
| #2 | 10.22032 | .1614551 | .0108613 | .1253603 | 4.254348 | 12.33938 | 5.780506 |
| #3 | 10.24889 | .1695075 | .0106362 | .1250778 | 4.216864 | 12.44554 | 5.788463 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2832-01 Acquired: 8/14/2025 12:59:16 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 3.341203 | .1415867 | .1399467 |
| Stddev | .008628 | .0003778 | .0026098 |
| %RSD | .2582354 | .2668313 | 1.864819 |
| #1 | 3.339055 | .1420226 | .1402645 |
| #2 | 3.350702 | .1413543 | .1423829 |
| #3 | 3.333851 | .1413831 | .1371925 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5898.345 | 105581.2 | 12640.65 | 4462.697 | 6388.471 |
| Stddev | 9.511 | 254.1 | 88.18 | 34.773 | 9.353 |
| %RSD | .1612513 | .2406654 | .6976174 | .7792031 | .1464084 |
| #1 | 5887.695 | 105288.0 | 12674.85 | 4427.291 | 6380.469 |
| #2 | 5901.344 | 105737.3 | 12540.49 | 4463.999 | 6386.191 |
| #3 | 5905.995 | 105718.3 | 12706.61 | 4496.801 | 6398.754 |

Sample Name: PB169236BL Acquired: 8/14/2025 13:03:19 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000184** | **-.000343** | **-.000630** | **-.000683** | **.0010537** | **-.013537** | **-.001923** |
| Stddev | .001144 | .001119 | .000421 | .000422 | .0005938 | .001093 | .000310 |
| %RSD | 622.0139 | 326.3726 | 66.79209 | 61.73340 | 56.35601 | 8.074946 | 16.14259 |
| #1 | .000803 | -.000809 | -.000147 | -.000646 | .0005777 | -.012275 | -.001927 |
| #2 | -.001438 | .000934 | -.000918 | -.001123 | .0017192 | -.014176 | -.002232 |
| #3 | .000083 | -.001154 | -.000825 | -.000281 | .0008643 | -.014160 | -.001611 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000001** | **.0000264** | **.0126318** | **.0003141** | **-.000006** | **-.000076** | **.0038262** |
| Stddev | .000025 | .0000304 | .0092322 | .0001257 | .000026 | .000235 | .0030381 |
| %RSD | 3787.396 | 115.1308 | 73.08706 | 40.04142 | 414.4529 | 307.9972 | 79.40327 |
| #1 | .000011 | .0000572 | .0229320 | .0004575 | -.000036 | -.000254 | .0022586 |
| #2 | -.000030 | -.000004 | .0051022 | .0002226 | .000010 | .000190 | .0073280 |
| #3 | .000017 | .000025 | .0098610 | .0002621 | .000008 | -.000165 | .0018921 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000004** | **.0092342** | **-.000006** | **.0008173** | **-.014275** | **-.001051** | **.0013281** |
| Stddev | .000431 | .0101750 | .000150 | .0001589 | .018283 | .001624 | .0001558 |
| %RSD | 9805.271 | 110.1882 | 2561.568 | 19.44642 | 128.0744 | 154.5788 | 11.73461 |
| #1 | .000403 | .0209633 | .000164 | .0009904 | -.034884 | -.002840 | .0014986 |
| #2 | -.000456 | .0027769 | -.000062 | .0007835 | -.007935 | .000332 | .0012925 |
| #3 | .000040 | .0039623 | -.000120 | .0006779 | -.000007 | -.000645 | .0011931 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0007943** | **.0009282** | **.0002560** | **-.014674** | **-.000443** | **.0270201** | **-.001330** |
| Stddev | .0138255 | .0007414 | .0001209 | .000460 | .000894 | .0043256 | .001543 |
| %RSD | 1740.660 | 79.87092 | 47.24800 | 3.136404 | 201.9503 | 16.00891 | 116.0029 |
| #1 | -.015055 | .0001890 | .0003955 | -.015204 | .000292 | .0312689 | -.002957 |
| #2 | .010376 | .0009238 | .0001901 | -.014372 | -.000182 | .0271697 | .000111 |
| #3 | .007061 | .0016718 | .0001823 | -.014447 | -.001439 | .0226216 | -.001143 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: PB169236BL Acquired: 8/14/2025 13:03:19 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.000467 | -.002062 | -.000145 |
| Stddev | .000936 | .001458 | .000012 |
| %RSD | 200.3144 | 70.69185 | 8.539297 |
| #1 | .000286 | -.003737 | -.000131 |
| #2 | -.000173 | -.001075 | -.000150 |
| #3 | -.001515 | -.001375 | -.000155 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5752.469 | 99853.72 | 11008.01 | 4272.118 | 7500.170 |
| Stddev | 10.083 | 171.58 | 71.72 | 16.260 | 12.947 |
| %RSD | .1752770 | .1718264 | .6515137 | .3806148 | .1726223 |
| #1 | 5743.732 | 100051.8 | 11090.47 | 4290.823 | 7486.899 |
| #2 | 5763.502 | 99751.5 | 10973.31 | 4264.167 | 7512.766 |
| #3 | 5750.172 | 99757.8 | 10960.23 | 4261.362 | 7500.847 |

Sample Name: PB169236BS Acquired: 8/14/2025 13:07:38 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8026698** | **2.164346** | **.9798474** | **2.036521** | **.8164822** | **2.039176** |
| Stddev | .0009291 | .014011 | .0052886 | .009788 | .0047584 | .007136 |
| %RSD | .1157567 | .6473577 | .5397399 | .4806236 | .5827928 | .3499452 |
| #1 | .8025269 | 2.180524 | .9848266 | 2.044150 | .8198742 | 2.036153 |
| #2 | .8036621 | 2.156305 | .9804198 | 2.039929 | .8185296 | 2.047326 |
| #3 | .8018204 | 2.156207 | .9742959 | 2.025485 | .8110428 | 2.034050 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1963100** | **.2047273** | **.1944304** | **1.056541** | **.4220973** | **.2000031** |
| Stddev | .0007919 | .0008238 | .0010270 | .011891 | .0004899 | .0012484 |
| %RSD | .4033992 | .4023663 | .5281999 | 1.125466 | .1160704 | .6241661 |
| #1 | .1967376 | .2045812 | .1947092 | 1.058225 | .4225913 | .2007335 |
| #2 | .1967962 | .2056144 | .1952891 | 1.067500 | .4216115 | .2007141 |
| #3 | .1953962 | .2039864 | .1932928 | 1.043898 | .4220891 | .1985617 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3157385** | **3.044881** | **.2049977** | **2.066221** | **.5020989** | **.0779516** |
| Stddev | .0018878 | .014438 | .0012511 | .023705 | .0020570 | .0002890 |
| %RSD | .5978965 | .4741779 | .6102873 | 1.147284 | .4096827 | .3707458 |
| #1 | .3167082 | 3.036529 | .2036781 | 2.044819 | .5030243 | .0777203 |
| #2 | .3169444 | 3.036561 | .2051483 | 2.062143 | .5035306 | .0782755 |
| #3 | .3135630 | 3.061553 | .2061666 | 2.091701 | .4997417 | .0778590 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.831934** | **.3074018** | **.2125918** | **9.864105** | **.3009030** | **.4170913** |
| Stddev | .019825 | .0003479 | .0003682 | .042548 | .0011912 | .0013774 |
| %RSD | .7000490 | .1131699 | .1732008 | .4313412 | .3958707 | .3302399 |
| #1 | 2.811605 | .3070937 | .2123863 | 9.835452 | .3008475 | .4183974 |
| #2 | 2.832984 | .3073324 | .2123722 | 9.843869 | .3021210 | .4172243 |
| #3 | 2.851213 | .3077791 | .2130169 | 9.912994 | .2997405 | .4156523 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: PB169236BS Acquired: 8/14/2025 13:07:38 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6660585 | .1966644 | .9102837 | 5.659030 | F .0013079 | .2066199 |
| Stddev | .0036752 | .0011828 | .0032457 | .016854 | .0021480 | .0014179 |
| %RSD | .5517861 | .6014231 | .3565596 | .2978279 | 164.2357 | .6862545 |
| #1 | .6691373 | .1954869 | .9087794 | 5.657030 | -.001143 | .2051556 |
| #2 | .6670485 | .1978524 | .9080631 | 5.676795 | .002861 | .2067177 |
| #3 | .6619896 | .1966539 | .9140086 | 5.643265 | .002206 | .2079864 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1989483 |
| Stddev | .0004839 |
| %RSD | .2432503 |
| #1 | .1984144 |
| #2 | .1990722 |
| #3 | .1993582 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5656.513 | 100223.7 | 11102.72 | 4265.256 | 7164.316 |
| Stddev | 22.231 | 302.9 | 41.78 | 18.930 | 28.838 |
| %RSD | .3930093 | .3022238 | .3762620 | .4438260 | .4025266 |
| #1 | 5639.986 | 99953.7 | 11073.37 | 4258.412 | 7156.137 |
| #2 | 5647.767 | 100551.3 | 11084.24 | 4286.657 | 7140.450 |
| #3 | 5681.787 | 100166.1 | 11150.55 | 4250.700 | 7196.360 |

Sample Name: PB169232BL Acquired: 8/14/2025 13:11:38 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000191** | **-.000224** | **.0004159** | **-.003748** | **.0012251** | **-.014184** | **-.003052** |
| Stddev | .001194 | .001259 | .0003879 | .001709 | .0020130 | .005839 | .001281 |
| %RSD | 625.0031 | 561.7904 | 93.27086 | 45.60719 | 164.3105 | 41.16625 | 41.98386 |
| #1 | .000797 | -.000202 | .0008512 | -.005464 | .0033278 | -.010280 | -.004312 |
| #2 | -.001517 | .001023 | .0001067 | -.003733 | .0010321 | -.020897 | -.001750 |
| #3 | .000148 | -.001494 | .0002899 | -.002046 | -.000684 | -.011376 | -.003094 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000026** | **.0000152** | **.0093632** | **.0004780** | **-.000117** | **-.000440** | **.0011853** |
| Stddev | .000023 | .0000108 | .0139384 | .0004767 | .000102 | .000213 | .0042438 |
| %RSD | 88.16308 | 71.08071 | 148.8637 | 99.73258 | 86.88219 | 48.53491 | 358.0328 |
| #1 | -.000005 | .0000046 | -.005414 | .0009700 | -.000000 | -.000341 | .0031714 |
| #2 | -.000050 | .0000262 | .022275 | .0000182 | -.000167 | -.000685 | .0040718 |
| #3 | -.000022 | .0000149 | .011229 | .0004458 | -.000184 | -.000294 | -.003687 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0001157** | **.0132592** | **.0002501** | **.0006978** | **-.019177** | **-.001103** | **.0002765** |
| Stddev | .0004498 | .0285702 | .0000446 | .0001509 | .003880 | .001592 | .0001989 |
| %RSD | 388.8221 | 215.4751 | 17.83180 | 21.62042 | 20.23406 | 144.3447 | 71.92573 |
| #1 | .0006184 | .0227635 | .0002000 | .0005286 | -.015175 | -.001329 | .0000622 |
| #2 | -.000249 | -.018852 | .0002854 | .0007462 | -.019434 | -.002569 | .0004552 |
| #3 | -.000023 | .035866 | .0002649 | .0008184 | -.022922 | .000590 | .0003121 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0113781** | **-.000373** | **.0003052** | **-.014746** | **.0000560** | **.0135048** | **-.001305** |
| Stddev | .0124744 | .000640 | .0001366 | .000812 | .0009865 | .0082466 | .001445 |
| %RSD | 109.6353 | 171.6747 | 44.77348 | 5.506013 | 1760.303 | 61.06425 | 110.7682 |
| #1 | .0216732 | -.000810 | .0002118 | -.014742 | -.000688 | .0169123 | -.002179 |
| #2 | .0149551 | .000361 | .0002418 | -.015560 | .001175 | .0195015 | -.002099 |
| #3 | -.002494 | -.000669 | .0004620 | -.013936 | -.000319 | .0041005 | .000363 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: PB169232BL Acquired: 8/14/2025 13:11:38 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.003117 | -.003463 | -.000068 |
| Stddev | .000240 | .001185 | .000038 |
| %RSD | 7.690640 | 34.21055 | 55.56813 |
| #1 | -.003092 | -.002379 | -.000088 |
| #2 | -.003367 | -.003281 | -.000092 |
| #3 | -.002890 | -.004728 | -.000025 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5746.506 | 99638.27 | 11044.59 | 4274.536 | 7482.413 |
| Stddev | 1.721 | 338.32 | 39.87 | 7.479 | 6.213 |
| %RSD | .0299440 | .3395516 | .3609561 | .1749711 | .0830329 |
| #1 | 5744.783 | 99287.97 | 11089.56 | 4278.782 | 7489.109 |
| #2 | 5748.225 | 99963.19 | 11030.66 | 4265.900 | 7476.836 |
| #3 | 5746.510 | 99663.64 | 11013.57 | 4278.925 | 7481.294 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: PB169232BS Acquired: 8/14/2025 13:15:57 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7993041** | **2.146844** | **.9768165** | **2.024524** | **.8281554** | **2.041400** |
| Stddev | .0034986 | .065055 | .0038261 | .004525 | .0030911 | .012885 |
| %RSD | .4377029 | 3.030273 | .3916910 | .2235128 | .3732456 | .6311733 |
| #1 | .8013505 | 2.179342 | .9805795 | 2.028117 | .8305336 | 2.030402 |
| #2 | .7952644 | 2.189248 | .9769397 | 2.026014 | .8246614 | 2.055577 |
| #3 | .8012974 | 2.071943 | .9729303 | 2.019442 | .8292713 | 2.038222 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1949101** | **.2047974** | **.1940002** | **1.059667** | **.4200512** | **.1998247** |
| Stddev | .0019800 | .0005373 | .0003567 | .004843 | .0012170 | .0001243 |
| %RSD | 1.015856 | .2623757 | .1838781 | .4570130 | .2897262 | .0622241 |
| #1 | .1963896 | .2046912 | .1943562 | 1.059982 | .4213479 | .1999595 |
| #2 | .1956799 | .2043212 | .1940017 | 1.064345 | .4189338 | .1997145 |
| #3 | .1926608 | .2053800 | .1936428 | 1.054675 | .4198719 | .1998001 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3157200** | **3.037934** | **.2061098** | **2.054344** | **.5012919** | **.0776901** |
| Stddev | .0005854 | .009151 | .0008006 | .005582 | .0002140 | .0002805 |
| %RSD | .1854056 | .3012267 | .3884419 | .2716999 | .0426937 | .3610976 |
| #1 | .3162360 | 3.048435 | .2064437 | 2.052784 | .5014727 | .0777296 |
| #2 | .3150839 | 3.031663 | .2051963 | 2.060539 | .5013473 | .0779487 |
| #3 | .3158400 | 3.033703 | .2066895 | 2.049708 | .5010556 | .0773919 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.807027** | **.3083148** | **.2118264** | **9.810849** | **.3004155** | **.4262257** |
| Stddev | .040451 | .0029559 | .0005247 | .056314 | .0007495 | .0003765 |
| %RSD | 1.441049 | .9587416 | .2477238 | .5740006 | .2494726 | .0883418 |
| #1 | 2.846066 | .3081497 | .2114382 | 9.874980 | .3000287 | .4260426 |
| #2 | 2.765299 | .3113498 | .2116176 | 9.769470 | .2999385 | .4266587 |
| #3 | 2.809716 | .3054449 | .2124234 | 9.788096 | .3012793 | .4259757 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: PB169232BS Acquired: 8/14/2025 13:15:57 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6822921** | **.2001597** | **.9298091** | **5.628213** | F **-.000220** | **.2047625** |
| Stddev | .0009031 | .0019768 | .0060502 | .007872 | .003477 | .0011218 |
| %RSD | .1323641 | .9876245 | .6506946 | .1398708 | 1582.131 | .5478591 |
| #1 | .6824698 | .2024286 | .9287541 | 5.636348 | -.004075 | .2046900 |
| #2 | .6830932 | .1988084 | .9363174 | 5.627656 | .000736 | .2059188 |
| #3 | .6813134 | .1992423 | .9243557 | 5.620633 | .002679 | .2036787 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | **.1985551** |
| Stddev | .0014115 |
| %RSD | .7108913 |
| #1 | .2001842 |
| #2 | .1976956 |
| #3 | .1977856 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5667.323** | **99853.24** | **10999.42** | **4246.639** | **7177.427** |
| Stddev | 7.953 | 124.69 | 22.46 | 9.804 | 19.217 |
| %RSD | .1403267 | .1248767 | .2042235 | .2308669 | .2677426 |
| #1 | 5658.141 | 99797.01 | 11002.70 | 4246.263 | 7160.298 |
| #2 | 5671.793 | 99996.15 | 11020.07 | 4256.625 | 7173.774 |
| #3 | 5672.034 | 99766.56 | 10975.51 | 4237.028 | 7198.208 |

Sample Name: PB169212TB Acquired: 8/14/2025 13:19:58 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.002215** | **.0007873** | **-.000910** | **.0025764** | **.0031924** | **-.016453** | **-.005356** |
| Stddev | .001324 | .0005362 | .001627 | .0017803 | .0003497 | .008070 | .000666 |
| %RSD | 59.76340 | 68.10912 | 178.8387 | 69.10083 | 10.95286 | 49.04723 | 12.42947 |
| #1 | -.003626 | .0013803 | -.000758 | .0042705 | .0034888 | -.019131 | -.004784 |
| #2 | -.001000 | .0006452 | -.002607 | .0027376 | .0032817 | -.022844 | -.006087 |
| #3 | -.002019 | .0003365 | .000636 | .0007209 | .0028067 | -.007385 | -.005199 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000140** | **-.000003** | **.0514656** | **.0005169** | **-.000329** | **.0000087** | **.0113251** |
| Stddev | .000015 | .000042 | .0057310 | .0002133 | .000125 | .0000776 | .0035908 |
| %RSD | 10.43381 | 1596.592 | 11.13564 | 41.27664 | 38.08529 | 890.2378 | 31.70674 |
| #1 | -.000145 | .000000 | .0569141 | .0005111 | -.000275 | .0000260 | .0073425 |
| #2 | -.000124 | .000038 | .0519939 | .0003065 | -.000239 | .0000762 | .0123172 |
| #3 | -.000152 | -.000046 | .0454887 | .0007330 | -.000472 | -.000076 | .0143155 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0030696** | **-.004258** | **.0012771** | **.0005945** | **505.1217** | **-.000122** | **.0026746** |
| Stddev | .0000361 | .019915 | .0002069 | .0003021 | 7.2947 | .001382 | .0001316 |
| %RSD | 1.177718 | 467.6891 | 16.19615 | 50.81880 | 1.444144 | 1136.049 | 4.920818 |
| #1 | .0030858 | -.000283 | .0011369 | .0006050 | 512.4382 | -.000046 | .0028020 |
| #2 | .0030948 | .013369 | .0015147 | .0008911 | 505.0780 | -.001541 | .0025392 |
| #3 | .0030282 | -.025861 | .0011799 | .0002872 | 497.8490 | .001221 | .0026827 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1468571** | **-.001434** | **.0005378** | **-.015085** | **-.000035** | **.0147731** | **.0085399** |
| Stddev | .0395992 | .000818 | .0002217 | .000614 | .000699 | .0041131 | .0014288 |
| %RSD | 26.96443 | 57.05767 | 41.21986 | 4.068268 | 2013.953 | 27.84199 | 16.73062 |
| #1 | .1632247 | -.002279 | .0003279 | -.015125 | -.000841 | .0123020 | .0084188 |
| #2 | .1756486 | -.001376 | .0005158 | -.014452 | .000394 | .0195212 | .0071756 |
| #3 | .1016980 | -.000646 | .0007696 | -.015677 | .000343 | .0124961 | .0100254 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: PB169212TB Acquired: 8/14/2025 13:19:58 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0751545 | -.007809 | .0000969 |
| Stddev | .0012677 | .000410 | .0000741 |
| %RSD | 1.686792 | 5.251508 | 76.45738 |
| #1 | .0750926 | -.007675 | .0001824 |
| #2 | .0739189 | -.008269 | .0000564 |
| #3 | .0764520 | -.007482 | .0000519 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5302.125 | 92786.67 | 11300.96 | 4012.004 | 6283.353 |
| Stddev | 4.181 | 168.89 | 3.47 | 12.388 | 9.835 |
| %RSD | .0788644 | .1820246 | .0307480 | .3087791 | .1565277 |
| #1 | 5301.362 | 92630.28 | 11301.45 | 4000.849 | 6278.974 |
| #2 | 5306.635 | 92763.96 | 11297.26 | 4025.336 | 6294.618 |
| #3 | 5298.377 | 92965.77 | 11304.16 | 4009.826 | 6276.468 |

Sample Name: Q2732-03 Acquired: 8/14/2025 13:24:25 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.002525** | **.0030264** | **-.000327** | **-.001844** | **.0011824** | **.1990329** | **.0446824** |
| Stddev | .001641 | .0005735 | .001242 | .002884 | .0009512 | .0063635 | .0012880 |
| %RSD | 65.01145 | 18.94866 | 380.1969 | 156.3696 | 80.45074 | 3.197220 | 2.882521 |
| #1 | -.002670 | .0036774 | -.000255 | .000855 | .0005466 | .1930363 | .0459961 |
| #2 | -.000815 | .0025961 | .000878 | -.004883 | .0022759 | .2057088 | .0434218 |
| #3 | -.004088 | .0028056 | -.001603 | -.001504 | .0007246 | .1983537 | .0446293 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000011** | **-.000018** | **187.9807** | **.0040528** | **.0001959** | **.0023594** | **.1527361** |
| Stddev | .000044 | .000072 | .1111 | .0003225 | .0002699 | .0002334 | .0038122 |
| %RSD | 385.6459 | 399.9069 | .0591103 | 7.956437 | 137.7144 | 9.889959 | 2.495947 |
| #1 | -.000045 | -.000032 | 188.0132 | .0041736 | -.000112 | .0026103 | .1500516 |
| #2 | -.000027 | -.000082 | 188.0719 | .0036874 | .000309 | .0023191 | .1510571 |
| #3 | .000038 | .000060 | 187.8569 | .0042975 | .000391 | .0021489 | .1570997 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0140389** | **8.458787** | **.0012779** | **.0005754** | **477.8157** | **.0030552** | **.0092256** |
| Stddev | .0000378 | .040804 | .0004633 | .0000956 | 4.9821 | .0005232 | .0001746 |
| %RSD | .2689662 | .4823863 | 36.25488 | 16.61499 | 1.042690 | 17.12419 | 1.892562 |
| #1 | .0140429 | 8.495978 | .0008505 | .0004650 | 476.8922 | .0024998 | .0093847 |
| #2 | .0139993 | 8.415139 | .0017702 | .0006280 | 473.3599 | .0031273 | .0090388 |
| #3 | .0140745 | 8.465244 | .0012129 | .0006331 | 483.1949 | .0035387 | .0092533 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.579443** | **.0461575** | **.0067540** | **-.017163** | **-.000388** | **4.658472** | **.0159002** |
| Stddev | .111322 | .0006907 | .0001339 | .000813 | .001282 | .044878 | .0020021 |
| %RSD | 1.162093 | 1.496505 | 1.981838 | 4.737997 | 330.1812 | .9633715 | 12.59192 |
| #1 | 9.454936 | .0469550 | .0066004 | -.016239 | .000080 | 4.625900 | .0157413 |
| #2 | 9.669375 | .0457527 | .0068454 | -.017772 | .000593 | 4.709663 | .0139823 |
| #3 | 9.614018 | .0457646 | .0068163 | -.017477 | -.001838 | 4.639852 | .0179771 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2732-03 Acquired: 8/14/2025 13:24:25 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 13.92828 | -.023665 | .9919014 |
| Stddev | .01852 | .001624 | .0031766 |
| %RSD | .1329655 | 6.862872 | .3202545 |
| #1 | 13.91534 | -.024601 | .9887443 |
| #2 | 13.92001 | -.021790 | .9950972 |
| #3 | 13.94949 | -.024605 | .9918625 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5190.585 | 92352.91 | 11666.15 | 3940.610 | 6078.374 |
| Stddev | 6.688 | 198.48 | 97.91 | 16.798 | 10.569 |
| %RSD | .1288444 | .2149131 | .8393042 | .4262781 | .1738773 |
| #1 | 5192.143 | 92130.57 | 11557.71 | 3955.026 | 6090.457 |
| #2 | 5196.356 | 92415.94 | 11748.09 | 3922.164 | 6070.846 |
| #3 | 5183.256 | 92512.21 | 11692.65 | 3944.640 | 6073.820 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2832-02 Acquired: 8/14/2025 13:28:50 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.001778** | **.0014870** | **.0156331** | **.0004477** | **.0024468** | **.0925434** | **.1509231** |
| Stddev | .001158 | .0003270 | .0007161 | .0017476 | .0015496 | .0097667 | .0013942 |
| %RSD | 65.11151 | 21.98894 | 4.580555 | 390.3396 | 63.33342 | 10.55367 | .9237595 |
| #1 | -.002706 | .0016745 | .0156049 | .0004702 | .0020697 | .1012899 | .1515071 |
| #2 | -.000481 | .0011094 | .0163628 | -.001311 | .0041502 | .0943358 | .1493319 |
| #3 | -.002148 | .0016770 | .0149315 | .002184 | .0011205 | .0820047 | .1519303 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000052** | **.0005255** | **53.96986** | **.0006473** | **.0006563** | **.0087101** | **.0813422** |
| Stddev | .000067 | .0000442 | .10523 | .0000572 | .0001435 | .0002104 | .0065046 |
| %RSD | 127.9392 | 8.401646 | .1949815 | 8.833881 | 21.87003 | 2.415203 | 7.996544 |
| #1 | -.000042 | .0005320 | 54.04419 | .0006087 | .0006964 | .0089530 | .0793595 |
| #2 | .000009 | .0004785 | 53.84945 | .0007129 | .0004970 | .0085879 | .0760597 |
| #3 | -.000123 | .0005661 | 54.01595 | .0006201 | .0007755 | .0085894 | .0886073 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2084312** | **1.161739** | **.0032185** | **.0006603** | **366.7155** | **.0016561** | **.1034500** |
| Stddev | .0007563 | .011412 | .0001823 | .0000777 | 5.9461 | .0011196 | .0004446 |
| %RSD | .3628542 | .9822828 | 5.664487 | 11.77072 | 1.621443 | 67.60814 | .4297578 |
| #1 | .2086941 | 1.170330 | .0033316 | .0006237 | 373.5786 | .0029210 | .1032042 |
| #2 | .2075786 | 1.148791 | .0030082 | .0006077 | 363.1111 | .0007921 | .1039632 |
| #3 | .2090211 | 1.166096 | .0033158 | .0007496 | 363.4569 | .0012551 | .1031826 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.463691** | **.0106612** | **.0005722** | **-.016764** | **-.001067** | **.9855768** | **.1474628** |
| Stddev | .017734 | .0003697 | .0001703 | .000871 | .000669 | .0075400 | .0018149 |
| %RSD | .7198071 | 3.467405 | 29.77290 | 5.197670 | 62.69316 | .7650321 | 1.230740 |
| #1 | 2.475552 | .0106179 | .0006237 | -.017296 | -.000783 | .9926711 | .1489854 |
| #2 | 2.443304 | .0110506 | .0003820 | -.015758 | -.001830 | .9864005 | .1479485 |
| #3 | 2.472217 | .0103151 | .0007108 | -.017237 | -.000586 | .9776588 | .1454545 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2832-02 Acquired: 8/14/2025 13:28:50 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .9937301 | -.014365 | .2413699 |
| Stddev | .0006766 | .001209 | .0007795 |
| %RSD | .0680899 | 8.417627 | .3229413 |
| #1 | .9929645 | -.014932 | .2414964 |
| #2 | .9939777 | -.012977 | .2405349 |
| #3 | .9942480 | -.015187 | .2420784 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5396.306 | 93451.97 | 11792.99 | 3988.351 | 6423.447 |
| Stddev | 5.857 | 78.15 | 71.33 | 14.136 | .716 |
| %RSD | .1085366 | .0836227 | .6048712 | .3544239 | .0111396 |
| #1 | 5400.691 | 93476.06 | 11725.50 | 4000.130 | 6424.011 |
| #2 | 5398.574 | 93364.62 | 11785.85 | 3992.247 | 6422.642 |
| #3 | 5389.654 | 93515.24 | 11867.63 | 3972.676 | 6423.687 |

Sample Name: Q2832-04 Acquired: 8/14/2025 13:33:14 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.002570** | **.0015171** | **.0123383** | **-.000934** | **.0016139** | **.1274299** | **.1549693** |
| Stddev | .002257 | .0017488 | .0012869 | .002172 | .0011098 | .0088936 | .0008927 |
| %RSD | 87.80459 | 115.2748 | 10.43012 | 232.4530 | 68.76448 | 6.979236 | .5760601 |
| #1 | -.000332 | .0034799 | .0114913 | -.002728 | .0028697 | .1374241 | .1555922 |
| #2 | -.002534 | .0001248 | .0138191 | .001480 | .0007651 | .1244781 | .1539466 |
| #3 | -.004846 | .0009465 | .0117044 | -.001555 | .0012069 | .1203874 | .1553691 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000055** | **.0011923** | **30.40896** | **.0008662** | **.0013515** | **.0249227** | **.1711052** |
| Stddev | .000015 | .0000459 | .06866 | .0002087 | .0002169 | .0003279 | .0036261 |
| %RSD | 28.14843 | 3.846886 | .2257742 | 24.09000 | 16.05084 | 1.315559 | 2.119207 |
| #1 | -.000072 | .0011977 | 30.45782 | .0007808 | .0011011 | .0246445 | .1677127 |
| #2 | -.000052 | .0011439 | 30.33046 | .0007139 | .0014841 | .0252842 | .1706760 |
| #3 | -.000041 | .0012351 | 30.43859 | .0011041 | .0014691 | .0248395 | .1749267 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2168605** | **2.314825** | **.0102058** | **.0006051** | **469.6403** | **.0009723** | **.2771602** |
| Stddev | .0011182 | .008675 | .0001018 | .0000911 | 9.4183 | .0014463 | .0006505 |
| %RSD | .5156493 | .3747767 | .9971528 | 15.05167 | 2.005437 | 148.7367 | .2347109 |
| #1 | .2180655 | 2.314120 | .0102959 | .0005022 | 479.3737 | .0002679 | .2775469 |
| #2 | .2158562 | 2.323832 | .0102261 | .0006380 | 460.5723 | .0000133 | .2764092 |
| #3 | .2166598 | 2.306524 | .0100954 | .0006752 | 468.9749 | .0026358 | .2775247 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.507390** | **.0067499** | **.0005235** | **-.017016** | **.0008923** | **1.258656** | **.0324497** |
| Stddev | .023825 | .0004663 | .0003260 | .000282 | .0002768 | .012898 | .0045707 |
| %RSD | 1.580514 | 6.907726 | 62.28673 | 1.654900 | 31.02509 | 1.024783 | 14.08548 |
| #1 | 1.532819 | .0070561 | .0001473 | -.017258 | .0010356 | 1.270829 | .0303102 |
| #2 | 1.485586 | .0062133 | .0006979 | -.016707 | .0005732 | 1.260003 | .0376977 |
| #3 | 1.503766 | .0069804 | .0007252 | -.017083 | .0010682 | 1.245137 | .0293411 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2832-04 Acquired: 8/14/2025 13:33:14 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .3007068 | -.010447 | .1638651 |
| Stddev | .0013065 | .000500 | .0007058 |
| %RSD | .4344911 | 4.788779 | .4306926 |
| #1 | .2992066 | -.010067 | .1646580 |
| #2 | .3013187 | -.010259 | .1633054 |
| #3 | .3015951 | -.011014 | .1636321 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5295.073 | 93140.63 | 11695.54 | 3966.536 | 6268.119 |
| Stddev | 6.506 | 390.73 | 57.05 | 21.918 | 8.675 |
| %RSD | .1228714 | .4195021 | .4877937 | .5525846 | .1384042 |
| #1 | 5287.703 | 92800.74 | 11641.46 | 3957.697 | 6259.215 |
| #2 | 5297.498 | 93567.53 | 11755.16 | 3991.493 | 6276.546 |
| #3 | 5300.018 | 93053.64 | 11689.99 | 3950.416 | 6268.596 |

Sample Name: Q2832-06 Acquired: 8/14/2025 13:37:37 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.002157** | **-.000351** | **.0156132** | **.0009000** | **.0028024** | **.1585958** | **.1074507** |
| Stddev | .001164 | .000283 | .0005143 | .0031063 | .0016424 | .0081251 | .0008275 |
| %RSD | 53.95305 | 80.66765 | 3.294125 | 345.1395 | 58.60600 | 5.123143 | .7701610 |
| #1 | -.002834 | -.000199 | .0161692 | -.001452 | .0013032 | .1515293 | .1071219 |
| #2 | -.002824 | -.000177 | .0151544 | .004421 | .0025462 | .1674737 | .1083921 |
| #3 | -.000813 | -.000677 | .0155161 | -.000269 | .0045579 | .1567844 | .1068381 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000043** | **.0010177** | **20.63971** | **.0007778** | **.0003594** | **.0165424** | **.2175752** |
| Stddev | .0000314 | .0000470 | .02860 | .0001631 | .0000590 | .0001830 | .0046561 |
| %RSD | 723.8885 | 4.616241 | .1385575 | 20.96791 | 16.42095 | 1.105941 | 2.139977 |
| #1 | .0000180 | .0010702 | 20.65029 | .0009058 | .0003185 | .0163642 | .2202550 |
| #2 | -.000032 | .0010032 | 20.60733 | .0008335 | .0004271 | .0167297 | .2121988 |
| #3 | .000027 | .0009797 | 20.66152 | .0005942 | .0003327 | .0165333 | .2202717 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0642835** | **2.187123** | **.0060615** | **.0007286** | **371.0600** | **.0003435** | **.2354985** |
| Stddev | .0007339 | .018767 | .0000474 | .0002171 | 5.5116 | .0005049 | .0002992 |
| %RSD | 1.141725 | .8580483 | .7815382 | 29.80324 | 1.485355 | 146.9782 | .1270410 |
| #1 | .0640467 | 2.206999 | .0060344 | .0006450 | 366.2831 | -.000190 | .2355684 |
| #2 | .0651066 | 2.169709 | .0061162 | .0009752 | 377.0903 | .000814 | .2357565 |
| #3 | .0636971 | 2.184661 | .0060339 | .0005657 | 369.8066 | .000406 | .2351705 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.779906** | **.0076524** | **.0005119** | **-.015108** | **.0038745** | **1.174138** | **.0470076** |
| Stddev | .015893 | .0004716 | .0001438 | .000478 | .0009746 | .004961 | .0019320 |
| %RSD | .8929228 | 6.162230 | 28.09012 | 3.162978 | 25.15370 | .4225572 | 4.109986 |
| #1 | 1.768807 | .0078338 | .0006263 | -.015494 | .0028019 | 1.177289 | .0489330 |
| #2 | 1.772798 | .0080062 | .0003505 | -.014573 | .0041157 | 1.168419 | .0470206 |
| #3 | 1.798112 | .0071170 | .0005589 | -.015256 | .0047057 | 1.176707 | .0450690 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2832-06 Acquired: 8/14/2025 13:37:37 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2658859 | -.009142 | .1221407 |
| Stddev | .0024769 | .001094 | .0002536 |
| %RSD | .9315806 | 11.96781 | .2076483 |
| #1 | .2687404 | -.007987 | .1218946 |
| #2 | .2646144 | -.010163 | .1224012 |
| #3 | .2643030 | -.009276 | .1221262 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5384.414 | 94856.64 | 11907.35 | 3981.883 | 6439.593 |
| Stddev | 7.359 | 282.57 | 16.50 | 9.978 | 18.479 |
| %RSD | .1366640 | .2978935 | .1385661 | .2505748 | .2869560 |
| #1 | 5384.751 | 95129.01 | 11900.66 | 3989.003 | 6431.911 |
| #2 | 5391.598 | 94564.86 | 11895.25 | 3970.478 | 6460.674 |
| #3 | 5376.892 | 94876.03 | 11926.15 | 3986.167 | 6426.195 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: CCV02 Acquired: 8/14/2025 13:42:02 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.086368** | **5.037551** | **4.894037** | **5.142287** | **5.139685** | **9.981818** | **9.915609** |
| Stddev | .022503 | .089432 | .008144 | .013002 | .008663 | .016892 | .085802 |
| %RSD | .4424256 | 1.775304 | .1664024 | .2528476 | .1685491 | .1692308 | .8653256 |
| #1 | 5.097390 | 4.981901 | 4.886996 | 5.143653 | 5.135322 | 9.995577 | 10.00982 |
| #2 | 5.060478 | 4.990042 | 4.892158 | 5.128655 | 5.134072 | 9.962965 | 9.84194 |
| #3 | 5.101236 | 5.140711 | 4.902956 | 5.154552 | 5.149662 | 9.986913 | 9.89507 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2326132** | **2.462555** | **24.63772** | **1.019246** | **2.475016** | **1.264058** | **5.259000** |
| Stddev | .0005989 | .003577 | .05845 | .001702 | .002895 | .002972 | .025651 |
| %RSD | .2574812 | .1452482 | .2372567 | .1669955 | .1169732 | .2351014 | .4877558 |
| #1 | .2330891 | 2.459285 | 24.60826 | 1.020106 | 2.473752 | 1.265075 | 5.240414 |
| #2 | .2319406 | 2.462004 | 24.70504 | 1.017285 | 2.472968 | 1.260711 | 5.288265 |
| #3 | .2328097 | 2.466375 | 24.59985 | 1.020346 | 2.478328 | 1.266388 | 5.248320 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.430986** | **24.38542** | **2.478882** | **1.257142** | **24.98253** | **2.501527** | **2.575512** |
| Stddev | .008396 | .09652 | .002193 | .000782 | .08616 | .006678 | .003322 |
| %RSD | .3453662 | .3958009 | .0884818 | .0621795 | .3448779 | .2669645 | .1289796 |
| #1 | 2.423080 | 24.41652 | 2.477239 | 1.256470 | 24.88307 | 2.494432 | 2.571738 |
| #2 | 2.430080 | 24.46256 | 2.478035 | 1.256956 | 25.03033 | 2.507690 | 2.576807 |
| #3 | 2.439798 | 24.27719 | 2.481373 | 1.258000 | 25.03419 | 2.502459 | 2.577992 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **26.72777** | **4.617364** | **5.178719** | **4.926183** | **4.971954** | **5.295730** | **4.689323** |
| Stddev | .10760 | .012181 | .014301 | .011763 | .012344 | .033610 | .013022 |
| %RSD | .4025922 | .2638121 | .2761460 | .2387883 | .2482685 | .6346596 | .2777006 |
| #1 | 26.61490 | 4.624496 | 5.176463 | 4.925514 | 4.957813 | 5.256926 | 4.677816 |
| #2 | 26.82920 | 4.603299 | 5.165680 | 4.914768 | 4.977474 | 5.315646 | 4.703459 |
| #3 | 26.73922 | 4.624297 | 5.194014 | 4.938266 | 4.980574 | 5.314619 | 4.686693 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: CCV02 Acquired: 8/14/2025 13:42:02 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **4.852704** | **4.887713** | **5.037084** |
| Stddev | .020029 | .015006 | .087066 |
| %RSD | .4127350 | .3070207 | 1.728508 |
| #1 | 4.839508 | 4.870585 | 5.101292 |
| #2 | 4.842852 | 4.894003 | 5.071976 |
| #3 | 4.875750 | 4.898551 | 4.937983 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5507.948** | **97701.68** | **11756.51** | **4109.109** | **6667.151** |
| Stddev | 15.668 | 49.07 | 28.44 | 6.555 | 9.313 |
| %RSD | .2844530 | .0502218 | .2419259 | .1595157 | .1396917 |
| #1 | 5503.981 | 97672.65 | 11724.35 | 4108.964 | 6664.929 |
| #2 | 5525.218 | 97674.06 | 11778.38 | 4102.628 | 6677.374 |
| #3 | 5494.645 | 97758.33 | 11766.79 | 4115.735 | 6659.150 |

Sample Name: CCB02 Acquired: 8/14/2025 13:46:13 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000990** | **-.000706** | **.0004601** | **-.001342** | **.0018922** | **-.016098** |
| Stddev | .0009153 | .000372 | .0005815 | .001084 | .0004800 | .002429 |
| %RSD | 924.0457 | 52.62780 | 126.3751 | 80.79991 | 25.36733 | 15.08872 |
| #1 | .0010144 | -.000624 | .0009033 | -.000243 | .0024021 | -.017765 |
| #2 | -.000816 | -.001113 | .0006754 | -.001371 | .0014491 | -.017217 |
| #3 | .000099 | -.000383 | -.000198 | -.002411 | .0018254 | -.013311 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.005193** | **-.000011** | **.0000319** | **.0116653** | **.0005872** | **.0000443** |
| Stddev | .000606 | .000047 | .0000438 | .0051223 | .0002236 | .0001606 |
| %RSD | 11.66270 | 434.0609 | 137.1184 | 43.90997 | 38.08140 | 362.1087 |
| #1 | -.004807 | -.000054 | .0000438 | .0122976 | .0008366 | .0000247 |
| #2 | -.004882 | .000039 | .0000685 | .0164421 | .0005203 | -.000105 |
| #3 | -.005892 | -.000017 | -.000017 | .0062563 | .0004047 | .000214 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000648** | **.0019735** | **.0003334** | **.0077073** | **.0003337** | **.0005772** |
| Stddev | .0002030 | .0006013 | .0002067 | .0007598 | .0001938 | .0002537 |
| %RSD | 313.4915 | 30.46584 | 61.97903 | 9.857684 | 58.07599 | 43.95510 |
| #1 | .0002959 | .0015743 | .0005676 | .0081375 | .0001875 | .0006588 |
| #2 | -.000017 | .0026650 | .0001766 | .0081543 | .0002601 | .0002927 |
| #3 | -.000085 | .0016812 | .0002561 | .0068300 | .0005535 | .0007800 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5853130** | **-.000640** | **.0009600** | **.4405304** | **.0058278** | **.0005575** |
| Stddev | .0114065 | .002330 | .0002126 | .0074998 | .0007876 | .0002426 |
| %RSD | 1.948783 | 364.3190 | 22.14898 | 1.702436 | 13.51495 | 43.52257 |
| #1 | .5872642 | .002025 | .0007377 | .4417908 | .0054769 | .0007239 |
| #2 | .5956180 | -.001648 | .0011615 | .4473201 | .0067299 | .0006696 |
| #3 | .5730568 | -.002295 | .0009809 | .4324803 | .0052766 | .0002791 |

Sample Name: CCB02 Acquired: 8/14/2025 13:46:13 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.014547 | .0005928 | .0208950 | -.001898 | .0006684 | F .0133973 |
| Stddev | .000397 | .0010367 | .0098217 | .003027 | .0014532 | .0016911 |
| %RSD | 2.726554 | 174.8757 | 47.00493 | 159.5406 | 217.4237 | 12.62252 |
| #1 | -.014093 | .0014122 | .0202600 | -.003012 | -.000555 | .0149349 |
| #2 | -.014823 | .0009390 | .0114062 | -.004210 | .002275 | .0136708 |
| #3 | -.014726 | -.000573 | .0310188 | .001529 | .000285 | .0115861 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | -.000034 |
| Stddev | .000004 |
| %RSD | 10.67865 |
| #1 | -.000030 |
| #2 | -.000035 |
| #3 | -.000036 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5676.905 | 101452.1 | 11306.23 | 4222.441 | 7429.634 |
| Stddev | 12.631 | 430.9 | 43.87 | 30.623 | 21.199 |
| %RSD | .2224934 | .4247195 | .3879945 | .7252363 | .2853312 |
| #1 | 5662.430 | 101756.0 | 11353.76 | 4239.474 | 7405.410 |
| #2 | 5685.692 | 100959.0 | 11297.62 | 4187.089 | 7438.696 |
| #3 | 5682.592 | 101641.3 | 11267.31 | 4240.761 | 7444.796 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2832-08 Acquired: 8/14/2025 13:50:32 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.002079** | **.0020433** | **.0076410** | **.0009020** | **.0009460** | **.0941768** | **.1650888** |
| Stddev | .002206 | .0007381 | .0002131 | .0004129 | .0010649 | .0086471 | .0008676 |
| %RSD | 106.0984 | 36.12457 | 2.788261 | 45.77835 | 112.5644 | 9.181799 | .5255055 |
| #1 | -.000088 | .0016309 | .0076573 | .0010817 | .0021680 | .0933532 | .1658641 |
| #2 | -.004451 | .0016035 | .0078455 | .0004297 | .0004535 | .0859709 | .1652504 |
| #3 | -.001698 | .0028955 | .0074203 | .0011946 | .0002166 | .1032062 | .1641518 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000037** | **.0011332** | **35.87144** | **.0028769** | **.0024427** | **.0147477** | **.0851282** |
| Stddev | .000043 | .0000053 | .06381 | .0002148 | .0001282 | .0002310 | .0049214 |
| %RSD | 117.1747 | .4660960 | .1778911 | 7.466279 | 5.248147 | 1.566445 | 5.781164 |
| #1 | -.000056 | .0011377 | 35.91398 | .0026316 | .0025187 | .0146995 | .0808915 |
| #2 | -.000067 | .0011346 | 35.90227 | .0029676 | .0022947 | .0145446 | .0905265 |
| #3 | .000013 | .0011274 | 35.79807 | .0030314 | .0025148 | .0149991 | .0839667 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1104402** | **4.899326** | **.0203182** | **.0006350** | **381.8625** | **.0002139** | **.1337667** |
| Stddev | .0005377 | .032354 | .0001185 | .0004233 | .7119 | .0002346 | .0006461 |
| %RSD | .4868379 | .6603783 | .5834145 | 66.66557 | .1864333 | 109.6746 | .4829693 |
| #1 | .1109942 | 4.936657 | .0204182 | .0004870 | 381.1731 | .0001548 | .1330219 |
| #2 | .1099205 | 4.881930 | .0203492 | .0011124 | 382.5949 | .0004724 | .1341751 |
| #3 | .1104059 | 4.879391 | .0201873 | .0003055 | 381.8195 | .0000145 | .1341032 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.302540** | **.0164972** | **.0007884** | **-.016571** | **.0010461** | **1.193944** | **.0627657** |
| Stddev | .059398 | .0003471 | .0003981 | .000468 | .0011861 | .021405 | .0024710 |
| %RSD | 2.579668 | 2.104062 | 50.48764 | 2.825567 | 113.3788 | 1.792835 | 3.936777 |
| #1 | 2.293133 | .0166509 | .0011957 | -.016612 | -.000320 | 1.196009 | .0622789 |
| #2 | 2.248407 | .0167410 | .0007693 | -.017017 | .001647 | 1.171581 | .0605745 |
| #3 | 2.366080 | .0160998 | .0004003 | -.016083 | .001812 | 1.214242 | .0654439 |

Sample Name: Q2832-08 Acquired: 8/14/2025 13:50:32 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .3667730 | -.011612 | .1630525 |
| Stddev | .0065838 | .002275 | .0005624 |
| %RSD | 1.795048 | 19.58929 | .3449027 |
| #1 | .3614882 | -.012765 | .1636644 |
| #2 | .3646827 | -.013080 | .1629349 |
| #3 | .3741482 | -.008992 | .1625583 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5374.143 | 93559.42 | 11638.51 | 3980.098 | 6399.883 |
| Stddev | 1.693 | 149.94 | 70.55 | 2.988 | 5.635 |
| %RSD | .0315087 | .1602566 | .6061879 | .0750655 | .0880439 |
| #1 | 5375.389 | 93442.13 | 11559.52 | 3978.728 | 6403.642 |
| #2 | 5374.824 | 93728.35 | 11660.73 | 3983.525 | 6402.603 |
| #3 | 5372.215 | 93507.78 | 11695.28 | 3978.042 | 6393.405 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2832-10 Acquired: 8/14/2025 13:54:58 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.001374** | **-.000110** | **.0282103** | **-.000295** | **.0010231** | **.0270327** | **.0815509** |
| Stddev | .001293 | .001396 | .0004739 | .000061 | .0001974 | .0060421 | .0007444 |
| %RSD | 94.08022 | 1268.674 | 1.679703 | 20.62061 | 19.29564 | 22.35123 | .9127718 |
| #1 | -.002237 | -.001712 | .0280121 | -.000254 | .0012277 | .0220294 | .0815729 |
| #2 | .000112 | .000540 | .0278678 | -.000265 | .0010076 | .0253233 | .0822841 |
| #3 | -.001999 | .000842 | .0287511 | -.000365 | .0008338 | .0337454 | .0807959 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000060** | **.0001518** | **11.04886** | **.0007135** | **.0005378** | **.0099425** | **.1145575** |
| Stddev | .000025 | .0000790 | .03453 | .0000530 | .0001606 | .0001426 | .0020144 |
| %RSD | 42.66212 | 52.07733 | .3124899 | 7.431267 | 29.85558 | 1.433956 | 1.758456 |
| #1 | -.000074 | .0000855 | 11.07432 | .0007565 | .0005934 | .0099844 | .1151175 |
| #2 | -.000030 | .0002393 | 11.06269 | .0006542 | .0003568 | .0097836 | .1123223 |
| #3 | -.000074 | .0001306 | 11.00956 | .0007297 | .0006632 | .0100594 | .1162326 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0319724** | **1.665520** | **.0030832** | **.0006419** | **324.8458** | **.0009041** | **.0588031** |
| Stddev | .0004829 | .027327 | .0003668 | .0001420 | 4.5889 | .0005002 | .0003128 |
| %RSD | 1.510314 | 1.640739 | 11.89684 | 22.11627 | 1.412651 | 55.33225 | .5319812 |
| #1 | .0320126 | 1.659159 | .0028413 | .0007329 | 324.8913 | .0010344 | .0591537 |
| #2 | .0324339 | 1.695466 | .0035053 | .0004783 | 329.4118 | .0003516 | .0587031 |
| #3 | .0314706 | 1.641935 | .0029032 | .0007143 | 320.2343 | .0013262 | .0585525 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.435021** | **.0049988** | **.0005318** | **-.015353** | **.0000003** | **.5202709** | **.0814415** |
| Stddev | .048974 | .0004964 | .0000820 | .000366 | .0005793 | .0036084 | .0023970 |
| %RSD | 3.412741 | 9.930145 | 15.41858 | 2.381915 | 180433.4 | .6935697 | 2.943163 |
| #1 | 1.379382 | .0046762 | .0004637 | -.015164 | .0002779 | .5173425 | .0796684 |
| #2 | 1.454089 | .0047499 | .0005088 | -.015774 | .0003886 | .5191682 | .0841686 |
| #3 | 1.471593 | .0055704 | .0006228 | -.015120 | -.000666 | .5243020 | .0804875 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2832-10 Acquired: 8/14/2025 13:54:58 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .3605884 | -.008737 | .0549373 |
| Stddev | .0018770 | .001594 | .0002385 |
| %RSD | .5205246 | 18.24323 | .4341391 |
| #1 | .3599884 | -.008412 | .0551295 |
| #2 | .3590848 | -.010469 | .0550120 |
| #3 | .3626919 | -.007331 | .0546704 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5389.772 | 95094.26 | 11807.20 | 4030.420 | 6467.959 |
| Stddev | 5.122 | 178.60 | 97.98 | 3.571 | 7.430 |
| %RSD | .0950297 | .1878098 | .8298098 | .0886081 | .1148695 |
| #1 | 5393.349 | 95041.15 | 11716.82 | 4026.379 | 6467.908 |
| #2 | 5392.064 | 94948.25 | 11793.45 | 4031.728 | 6475.415 |
| #3 | 5383.905 | 95293.39 | 11911.32 | 4033.153 | 6460.556 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2836-03 Acquired: 8/14/2025 13:59:25 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.002093** | **.0028443** | **-.000963** | **-.002383** | **.0029646** | **.4264055** | **.0505324** |
| Stddev | .003540 | .0010692 | .000421 | .002263 | .0019180 | .0093762 | .0009842 |
| %RSD | 169.1437 | 37.59143 | 43.69338 | 94.95157 | 64.69729 | 2.198904 | 1.947658 |
| #1 | -.003393 | .0040674 | -.000533 | -.001364 | .0011169 | .4176561 | .0498503 |
| #2 | -.004800 | .0020865 | -.000983 | -.000809 | .0049459 | .4363029 | .0516607 |
| #3 | .001913 | .0023791 | -.001374 | -.004976 | .0028309 | .4252574 | .0500862 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000086** | **.0000545** | **201.0068** | **.0012925** | **.0006820** | **.0087375** | **.0237474** |
| Stddev | .000085 | .0000489 | .4606 | .0005026 | .0001600 | .0005464 | .0018181 |
| %RSD | 98.58218 | 89.59327 | .2291519 | 38.88087 | 23.46312 | 6.254100 | 7.656121 |
| #1 | -.000032 | .0000872 | 201.3457 | .0009487 | .0006828 | .0088856 | .0256504 |
| #2 | -.000184 | .0000780 | 201.1923 | .0018693 | .0005216 | .0091946 | .0220281 |
| #3 | -.000042 | -.000002 | 200.4823 | .0010596 | .0008416 | .0081322 | .0235638 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0015588** | **.0711297** | **.0048231** | **.0004651** | **460.7655** | **.0041815** | **.0069912** |
| Stddev | .0006590 | .0032762 | .0003694 | .0005052 | 2.9129 | .0006421 | .0001753 |
| %RSD | 42.27691 | 4.606000 | 7.659008 | 108.6187 | .6321930 | 15.35493 | 2.507115 |
| #1 | .0019815 | .0732077 | .0047877 | -.000090 | 463.2075 | .0039908 | .0068185 |
| #2 | .0007995 | .0728283 | .0052090 | .000899 | 457.5414 | .0036565 | .0069860 |
| #3 | .0018955 | .0673529 | .0044727 | .000586 | 461.5478 | .0048974 | .0071690 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **13.07354** | **.0244348** | **.0089270** | **-.017238** | **-.007756** | **2.133091** | **.0115248** |
| Stddev | .04058 | .0002884 | .0002496 | .000656 | .000233 | .028919 | .0032893 |
| %RSD | .3103684 | 1.180184 | 2.795432 | 3.806020 | 3.002752 | 1.355722 | 28.54150 |
| #1 | 13.10211 | .0247643 | .0089228 | -.017947 | -.007847 | 2.153845 | .0150510 |
| #2 | 13.02710 | .0243118 | .0086795 | -.017113 | -.007929 | 2.100059 | .0085393 |
| #3 | 13.09142 | .0242284 | .0091786 | -.016652 | -.007491 | 2.145370 | .0109841 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2836-03 Acquired: 8/14/2025 13:59:25 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **17.15570** | **-.024222** | **1.473688** |
| Stddev | .01002 | .000930 | .007038 |
| %RSD | .0584308 | 3.841454 | .4775965 |
| #1 | 17.16679 | -.023486 | 1.481111 |
| #2 | 17.15305 | -.025268 | 1.467111 |
| #3 | 17.14727 | -.023912 | 1.472842 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5110.792** | **91653.29** | **11665.55** | **3803.072** | **6015.042** |
| Stddev | 5.598 | 134.49 | 67.17 | 6.066 | 2.977 |
| %RSD | .1095405 | .1467412 | .5757569 | .1595018 | .0494937 |
| #1 | 5111.952 | 91519.83 | 11661.64 | 3803.442 | 6013.601 |
| #2 | 5104.705 | 91651.24 | 11600.43 | 3808.945 | 6013.059 |
| #3 | 5115.720 | 91788.79 | 11734.59 | 3796.830 | 6018.465 |

Sample Name: Q2836-07 Acquired: 8/14/2025 14:03:49 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.004771** | **.0023114** | **-.000894** | **-.001770** | **.0039004** | **.3810834** | **.0582268** |
| Stddev | .000681 | .0004979 | .000567 | .002146 | .0019043 | .0143138 | .0015341 |
| %RSD | 14.26986 | 21.53981 | 63.43501 | 121.2704 | 48.82300 | 3.756094 | 2.634667 |
| #1 | -.004812 | .0027996 | -.000822 | -.003514 | .0032471 | .3688285 | .0568413 |
| #2 | -.004070 | .0018044 | -.001494 | -.002422 | .0060454 | .3968155 | .0598754 |
| #3 | -.005430 | .0023303 | -.000366 | .000627 | .0024088 | .3776063 | .0579639 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000107** | **.0000409** | **197.5814** | **.0067520** | **.0007535** | **.0066831** | **.0132266** |
| Stddev | .000038 | .0000731 | .4190 | .0002929 | .0002419 | .0005631 | .0021211 |
| %RSD | 35.62582 | 178.7434 | .2120535 | 4.338116 | 32.11060 | 8.425809 | 16.03668 |
| #1 | -.000063 | -.000026 | 197.6050 | .0068115 | .0010313 | .0063541 | .0156758 |
| #2 | -.000131 | .000119 | 197.9881 | .0070106 | .0006403 | .0073333 | .0120142 |
| #3 | -.000128 | .000029 | 197.1512 | .0064339 | .0005889 | .0063619 | .0119899 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0014128** | **.1143775** | **.0014219** | **.0004478** | **462.9374** | **.0012087** | **.0067200** |
| Stddev | .0000158 | .0178273 | .0002247 | .0001765 | 4.1339 | .0006286 | .0002505 |
| %RSD | 1.119263 | 15.58640 | 15.80017 | 39.41351 | .8929728 | 52.00445 | 3.727411 |
| #1 | .0014297 | .1343082 | .0016749 | .0006502 | 467.6226 | .0019321 | .0068909 |
| #2 | .0013983 | .0999523 | .0013452 | .0003260 | 461.3859 | .0008985 | .0064325 |
| #3 | .0014105 | .1088722 | .0012457 | .0003672 | 459.8038 | .0007955 | .0068366 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **11.76538** | **.0180830** | **.0075889** | **-.017782** | **-.006746** | **2.203518** | **.0085359** |
| Stddev | .06622 | .0000576 | .0002732 | .001219 | .000747 | .013073 | .0022064 |
| %RSD | .5628652 | .3184341 | 3.599562 | 6.857060 | 11.06711 | .5932926 | 25.84887 |
| #1 | 11.82832 | .0180892 | .0073000 | -.016655 | -.007070 | 2.200131 | .0090667 |
| #2 | 11.69630 | .0181373 | .0076238 | -.019076 | -.005892 | 2.217951 | .0061125 |
| #3 | 11.77152 | .0180226 | .0078430 | -.017615 | -.007275 | 2.192471 | .0104286 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2836-07 Acquired: 8/14/2025 14:03:49 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **10.16781** | **-.025329** | **1.265160** |
| Stddev | .04639 | .000442 | .002915 |
| %RSD | .4562271 | 1.745518 | .2304320 |
| #1 | 10.11745 | -.025742 | 1.268282 |
| #2 | 10.17721 | -.025381 | 1.264688 |
| #3 | 10.20878 | -.024863 | 1.262509 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5121.336** | **91843.38** | **11724.54** | **3838.178** | **6026.420** |
| Stddev | 3.193 | 190.42 | 52.18 | 24.756 | 9.785 |
| %RSD | .0623517 | .2073360 | .4450774 | .6449890 | .1623626 |
| #1 | 5123.780 | 91757.85 | 11727.39 | 3827.607 | 6036.127 |
| #2 | 5117.723 | 91710.72 | 11670.99 | 3820.463 | 6016.559 |
| #3 | 5122.505 | 92061.57 | 11775.24 | 3866.465 | 6026.575 |

Sample Name: Q2836-11 Acquired: 8/14/2025 14:08:14 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.002730** | **.0021895** | **-.000031** | **.0001470** | **.0028251** | **.1853727** | **.0415676** |
| Stddev | .001129 | .0008185 | .000710 | .0018822 | .0001904 | .0092089 | .0005068 |
| %RSD | 41.36014 | 37.38392 | 2322.963 | 1280.546 | 6.738712 | 4.967777 | 1.219250 |
| #1 | -.001477 | .0016568 | -.000654 | .0012640 | .0028868 | .1903623 | .0417191 |
| #2 | -.003669 | .0017797 | -.000180 | .0012030 | .0026116 | .1910101 | .0410022 |
| #3 | -.003045 | .0031320 | .000742 | -.002026 | .0029770 | .1747458 | .0419813 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000103** | **-.000007** | **167.7665** | **.0089681** | **.0009461** | **.0047326** | **.0554754** |
| Stddev | .000007 | .000043 | .0983 | .0003753 | .0000414 | .0001111 | .0046670 |
| %RSD | 6.885616 | 620.3479 | .0586168 | 4.185232 | 4.379182 | 2.346691 | 8.412664 |
| #1 | -.000109 | .000035 | 167.8459 | .0092966 | .0009768 | .0046057 | .0518012 |
| #2 | -.000104 | -.000006 | 167.6565 | .0090487 | .0009626 | .0047796 | .0538984 |
| #3 | -.000095 | -.000050 | 167.7970 | .0085590 | .0008990 | .0048124 | .0607265 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0195659** | **.2855004** | **.0038217** | **.0005246** | **401.4399** | **.0005285** | **.0082979** |
| Stddev | .0002065 | .0035449 | .0001886 | .0001889 | 1.3593 | .0006462 | .0004714 |
| %RSD | 1.055490 | 1.241637 | 4.935299 | 36.00196 | .3386078 | 122.2774 | 5.680547 |
| #1 | .0194630 | .2877989 | .0036696 | .0007419 | 401.0397 | .0007481 | .0078834 |
| #2 | .0194310 | .2872844 | .0040328 | .0004325 | 400.3257 | .0010363 | .0081997 |
| #3 | .0198036 | .2814179 | .0037627 | .0003995 | 402.9544 | -.000199 | .0088107 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **7.481905** | **.0214394** | **.0058277** | **-.017635** | **-.005180** | **2.554311** | **.0099085** |
| Stddev | .064654 | .0001537 | .0001084 | .000145 | .001821 | .013714 | .0065855 |
| %RSD | .8641366 | .7169650 | 1.859354 | .8216119 | 35.16319 | .5369040 | 66.46309 |
| #1 | 7.409122 | .0212620 | .0059442 | -.017789 | -.003528 | 2.543947 | .0027167 |
| #2 | 7.532687 | .0215300 | .0057299 | -.017501 | -.004879 | 2.569862 | .0113649 |
| #3 | 7.503905 | .0215264 | .0058090 | -.017616 | -.007133 | 2.549123 | .0156439 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2836-11 Acquired: 8/14/2025 14:08:14 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **9.107042** | **-.024046** | **.9614542** |
| Stddev | .021634 | .001204 | .0043548 |
| %RSD | .2375509 | 5.005564 | .4529373 |
| #1 | 9.088686 | -.022864 | .9570631 |
| #2 | 9.130894 | -.024004 | .9615279 |
| #3 | 9.101547 | -.025270 | .9657717 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5226.463** | **93311.55** | **11799.04** | **3938.668** | **6178.421** |
| Stddev | 3.877 | 131.32 | 49.11 | 11.528 | 6.182 |
| %RSD | .0741783 | .1407288 | .4161947 | .2926986 | .1000499 |
| #1 | 5226.522 | 93462.18 | 11754.98 | 3942.519 | 6178.872 |
| #2 | 5222.557 | 93251.27 | 11851.98 | 3925.707 | 6172.026 |
| #3 | 5230.310 | 93221.20 | 11790.16 | 3947.777 | 6184.364 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2836-15 Acquired: 8/14/2025 14:12:38 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000069** | **.0040010** | **.0000719** | **.0039628** | **.0027676** | **.3578465** |
| Stddev | .002556 | .0008076 | .0017287 | .0047302 | .0004900 | .0069430 |
| %RSD | 3711.678 | 20.18443 | 2403.290 | 119.3671 | 17.70558 | 1.940228 |
| #1 | -.002204 | .0047340 | .0013590 | .0090569 | .0031386 | .3559303 |
| #2 | .002764 | .0031353 | .0007498 | .0031221 | .0022121 | .3655464 |
| #3 | -.000767 | .0041338 | -.001893 | -.000291 | .0029520 | .3520628 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0383768** | **-.000149** | **-.000023** | **205.5660** | **.0020942** | **.0013322** |
| Stddev | .0006629 | .000052 | .000118 | .3491 | .0001249 | .0001366 |
| %RSD | 1.727428 | 34.65627 | 521.2330 | .1698399 | 5.965780 | 10.25302 |
| #1 | .0391210 | -.000185 | -.000155 | 205.6974 | .0022173 | .0011927 |
| #2 | .0378493 | -.000090 | .000017 | 205.1702 | .0019675 | .0013383 |
| #3 | .0381600 | -.000173 | .000070 | 205.8303 | .0020979 | .0014657 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0174093** | **.0931407** | **.0040105** | **.3227582** | **.0059773** | **.0009250** |
| Stddev | .0002911 | .0084904 | .0003695 | .0131838 | .0000811 | .0002509 |
| %RSD | 1.671856 | 9.115642 | 9.213222 | 4.084729 | 1.356634 | 27.11915 |
| #1 | .0175077 | .0880568 | .0036214 | .3351858 | .0060436 | .0009997 |
| #2 | .0176383 | .1029422 | .0043566 | .3089300 | .0060014 | .0006453 |
| #3 | .0170817 | .0884229 | .0040536 | .3241587 | .0058869 | .0011301 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **438.3814** | **.0084746** | **.0048178** | **8.727406** | **.0322765** | **.0144357** |
| Stddev | 3.4753 | .0024276 | .0000624 | .049364 | .0004354 | .0000416 |
| %RSD | .7927586 | 28.64485 | 1.294779 | .5656165 | 1.348994 | .2880314 |
| #1 | 438.7427 | .0057237 | .0048021 | 8.670540 | .0326673 | .0143963 |
| #2 | 434.7396 | .0093840 | .0048865 | 8.759234 | .0318072 | .0144315 |
| #3 | 441.6620 | .0103162 | .0047647 | 8.752442 | .0323550 | .0144791 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2836-15 Acquired: 8/14/2025 14:12:38 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.017288 | -.005900 | 1.758119 | .0194588 | F 29.13966 | -.025624 |
| Stddev | .000143 | .001232 | .003987 | .0036031 | .17283 | .000853 |
| %RSD | .8287416 | 20.88884 | .2267692 | 18.51678 | .5931128 | 3.330305 |
| #1 | -.017131 | -.004516 | 1.754928 | .0202034 | 29.16252 | -.025109 |
| #2 | -.017411 | -.006880 | 1.756841 | .0226314 | 28.95654 | -.025154 |
| #3 | -.017323 | -.006302 | 1.762589 | .0155415 | 29.29993 | -.026609 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | 1.096439 |
| Stddev | .003808 |
| %RSD | .3473441 |
| #1 | 1.092678 |
| #2 | 1.096346 |
| #3 | 1.100293 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5173.574 | 92941.11 | 11675.12 | 3904.145 | 6106.298 |
| Stddev | 12.600 | 204.54 | 62.08 | 16.514 | 4.675 |
| %RSD | .2435409 | .2200793 | .5317081 | .4229948 | .0765679 |
| #1 | 5161.045 | 93164.96 | 11660.80 | 3922.948 | 6103.752 |
| #2 | 5186.244 | 92894.45 | 11743.10 | 3891.991 | 6111.693 |
| #3 | 5173.434 | 92763.93 | 11621.45 | 3897.497 | 6103.447 |

Sample Name: Q2838-04 Acquired: 8/14/2025 14:17:03 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0005077** | **.0012381** | **.0020876** | **-.000252** | **.0004237** | **.0679346** | **.4074958** |
| Stddev | .0010381 | .0008699 | .0009220 | .003020 | .0003661 | .0036521 | .0006005 |
| %RSD | 204.4599 | 70.25624 | 44.16700 | 1197.527 | 86.41686 | 5.375935 | .1473597 |
| #1 | -.000690 | .0004955 | .0029049 | -.003211 | .0001666 | .0721051 | .4081773 |
| #2 | .001074 | .0010237 | .0022697 | -.000370 | .0008428 | .0653081 | .4070442 |
| #3 | .001139 | .0021951 | .0010881 | .002825 | .0002616 | .0663906 | .4072661 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000643** | **.0002492** | **54.29060** | **.0010747** | **.0028286** | **.0028602** | **2.552456** |
| Stddev | .0000265 | .0000584 | .11663 | .0001415 | .0000796 | .0004100 | .022739 |
| %RSD | 41.26506 | 23.42143 | .2148225 | 13.17024 | 2.815773 | 14.33291 | .8908592 |
| #1 | .0000437 | .0002062 | 54.19852 | .0009659 | .0028456 | .0026817 | 2.543336 |
| #2 | .0000943 | .0002256 | 54.25155 | .0010235 | .0028984 | .0025698 | 2.578340 |
| #3 | .0000550 | .0003156 | 54.42175 | .0012347 | .0027418 | .0033292 | 2.535694 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.635883** | **3.407083** | **.0028188** | **.0014858** | **342.0834** | **.0010582** | **.0386387** |
| Stddev | .009562 | .019724 | .0002119 | .0002232 | 2.1202 | .0006210 | .0000552 |
| %RSD | .3627575 | .5789231 | 7.517027 | 15.01897 | .6197935 | 58.68538 | .1427882 |
| #1 | 2.641848 | 3.388236 | .0030453 | .0016231 | 342.0134 | .0012896 | .0386138 |
| #2 | 2.624854 | 3.405433 | .0027858 | .0012283 | 344.2377 | .0015302 | .0386003 |
| #3 | 2.640946 | 3.427581 | .0026254 | .0016059 | 339.9990 | .0003547 | .0387019 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.160258** | **.0112260** | **.0006353** | **-.017300** | **-.002169** | **.3655400** | **.0232843** |
| Stddev | .029686 | .0002336 | .0000864 | .000453 | .001583 | .0046513 | .0019437 |
| %RSD | 2.558574 | 2.081139 | 13.60207 | 2.618707 | 72.96126 | 1.272458 | 8.347690 |
| #1 | 1.139657 | .0114943 | .0005893 | -.017813 | -.000910 | .3708168 | .0236952 |
| #2 | 1.194285 | .0111165 | .0005817 | -.017133 | -.003946 | .3637689 | .0211680 |
| #3 | 1.146832 | .0110673 | .0007350 | -.016954 | -.001651 | .3620345 | .0249897 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2838-04 Acquired: 8/14/2025 14:17:03 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .2955721 | -.013120 | .1128952 |
| Stddev | .0039362 | .000415 | .0003993 |
| %RSD | 1.331710 | 3.159310 | .3537159 |
| #1 | .2956855 | -.013554 | .1133562 |
| #2 | .2915805 | -.012728 | .1126736 |
| #3 | .2994504 | -.013079 | .1126559 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5402.107 | 93037.42 | 11681.45 | 4016.211 | 6400.538 |
| Stddev | 5.523 | 363.10 | 46.39 | 13.304 | 6.309 |
| %RSD | .1022432 | .3902759 | .3971656 | .3312601 | .0985692 |
| #1 | 5405.073 | 93114.88 | 11699.81 | 4006.632 | 6407.766 |
| #2 | 5405.513 | 92641.84 | 11715.84 | 4010.599 | 6397.711 |
| #3 | 5395.734 | 93355.54 | 11628.68 | 4031.401 | 6396.138 |

Sample Name: Q2838-08 Acquired: 8/14/2025 14:21:29 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0026871** | **-.000152** | **.0026549** | **.0012626** | **.0007988** | **.0919355** | **.2143035** |
| Stddev | .0035308 | .000561 | .0019698 | .0011612 | .0020249 | .0058619 | .0001282 |
| %RSD | 131.3998 | 369.6667 | 74.19245 | 91.97036 | 253.5103 | 6.376055 | .0598014 |
| #1 | .0067635 | -.000349 | .0005106 | .0008636 | .0026478 | .0985885 | .2144514 |
| #2 | .0005886 | -.000587 | .0043837 | .0003535 | -.001365 | .0896877 | .2142324 |
| #3 | .0007091 | .000481 | .0030705 | .0025706 | .001114 | .0875301 | .2142266 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0001464** | **.0000660** | **13.82287** | **.0002178** | **.0043335** | **.0035273** | **3.802805** |
| Stddev | .0000300 | .0000176 | .03768 | .0001608 | .0000707 | .0003425 | .024410 |
| %RSD | 20.46984 | 26.61278 | .2726109 | 73.82841 | 1.632723 | 9.708619 | .6419000 |
| #1 | .0001139 | .0000487 | 13.84514 | .0001601 | .0043864 | .0039223 | 3.774624 |
| #2 | .0001729 | .0000839 | 13.77936 | .0000938 | .0042531 | .0033146 | 3.816403 |
| #3 | .0001524 | .0000654 | 13.84410 | .0003995 | .0043609 | .0033450 | 3.817388 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.289702** | **1.783053** | **.0046425** | **.0012139** | **275.4455** | **.0013781** | **.0687497** |
| Stddev | .000480 | .032419 | .0002469 | .0002578 | 3.0448 | .0020736 | .0002227 |
| %RSD | .0372147 | 1.818164 | 5.317910 | 21.23419 | 1.105412 | 150.4760 | .3238859 |
| #1 | 1.289735 | 1.785639 | .0043924 | .0009163 | 278.1698 | .0004600 | .0688967 |
| #2 | 1.290164 | 1.749419 | .0048861 | .0013594 | 272.1586 | .0037523 | .0684936 |
| #3 | 1.289206 | 1.814102 | .0046490 | .0013660 | 276.0080 | -.000078 | .0688590 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8028602** | **.0218319** | **.0005271** | **-.016468** | **.0014514** | **.3289996** | **.0297147** |
| Stddev | .0118936 | .0005119 | .0002675 | .000437 | .0010241 | .0056262 | .0015737 |
| %RSD | 1.481400 | 2.344930 | 50.75666 | 2.652888 | 70.55808 | 1.710092 | 5.295907 |
| #1 | .7911927 | .0221166 | .0007704 | -.015990 | .0017546 | .3297302 | .0290497 |
| #2 | .8024203 | .0212409 | .0002406 | -.016847 | .0022897 | .3342248 | .0315117 |
| #3 | .8149676 | .0221382 | .0005703 | -.016566 | .0003100 | .3230438 | .0285827 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2838-08 Acquired: 8/14/2025 14:21:29 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .3629052 | -.005894 | .0506206 |
| Stddev | .0019739 | .000766 | .0000792 |
| %RSD | .5439182 | 12.99655 | .1564664 |
| #1 | .3643919 | -.006502 | .0506921 |
| #2 | .3606657 | -.005034 | .0505355 |
| #3 | .3636581 | -.006147 | .0506343 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5452.413 | 96220.14 | 11799.05 | 4082.217 | 6566.040 |
| Stddev | 7.382 | 162.78 | 75.75 | 1.523 | 9.221 |
| %RSD | .1353945 | .1691705 | .6420028 | .0372981 | .1404325 |
| #1 | 5460.820 | 96220.78 | 11730.43 | 4082.804 | 6573.724 |
| #2 | 5446.987 | 96382.60 | 11880.34 | 4080.489 | 6555.815 |
| #3 | 5449.433 | 96057.05 | 11786.39 | 4083.359 | 6568.582 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2838-08DUP Acquired: 8/14/2025 14:25:55 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0048324 | .0012757 | .0046130 | .0010004 | .0018461 | .1215624 | .3090755 |
| Stddev | .0017303 | .0012416 | .0007839 | .0018906 | .0017845 | .0011243 | .0010818 |
| %RSD | 35.80659 | 97.33086 | 16.99330 | 188.9867 | 96.66576 | .9248490 | .3499995 |
| #1 | .0051319 | .0016093 | .0049985 | .0013902 | .0037959 | .1206859 | .3079613 |
| #2 | .0029719 | .0023164 | .0037110 | .0026657 | .0002940 | .1228299 | .3101216 |
| #3 | .0063935 | -.000099 | .0051295 | -.001055 | .0014484 | .1211712 | .3091438 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0001758 | .0001839 | 19.54462 | .0008808 | .0064430 | .0055284 | 5.569689 |
| Stddev | .0000087 | .0000508 | .01173 | .0003175 | .0001811 | .0002682 | .012618 |
| %RSD | 4.941904 | 27.62606 | .0600406 | 36.05170 | 2.810528 | 4.851565 | .2265437 |
| #1 | .0001837 | .0001255 | 19.53374 | .0012452 | .0064568 | .0053066 | 5.581502 |
| #2 | .0001665 | .0002179 | 19.54306 | .0006633 | .0062554 | .0054522 | 5.571167 |
| #3 | .0001772 | .0002082 | 19.55705 | .0007339 | .0066168 | .0058265 | 5.556397 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.836175 | 2.518351 | .0065714 | .0013430 | 405.8896 | .0022843 | .0978212 |
| Stddev | .003172 | .021901 | .0002222 | .0003725 | 2.6016 | .0007573 | .0005127 |
| %RSD | .1727456 | .8696450 | 3.380933 | 27.73616 | .6409595 | 33.14984 | .5240934 |
| #1 | 1.832577 | 2.493171 | .0063166 | .0009865 | 406.1190 | .0031587 | .0983994 |
| #2 | 1.837382 | 2.528918 | .0066726 | .0017297 | 408.3689 | .0018380 | .0974223 |
| #3 | 1.838566 | 2.532965 | .0067248 | .0013127 | 403.1809 | .0018564 | .0976418 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1.213862 | .0333408 | .0005138 | -.016179 | .0023218 | .4999064 | .0385562 |
| Stddev | .038862 | .0001912 | .0001300 | .000435 | .0012947 | .0101888 | .0023695 |
| %RSD | 3.201543 | .5733832 | 25.30869 | 2.690889 | 55.76198 | 2.038132 | 6.145496 |
| #1 | 1.235759 | .0332592 | .0005670 | -.016016 | .0038140 | .5116661 | .0381085 |
| #2 | 1.168992 | .0332041 | .0003656 | -.015849 | .0016549 | .4943316 | .0364425 |
| #3 | 1.236835 | .0335593 | .0006089 | -.016673 | .0014965 | .4937215 | .0411176 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2838-08DUP Acquired: 8/14/2025 14:25:55 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .5454948 | -.006545 | .0719701 |
| Stddev | .0023307 | .000947 | .0000529 |
| %RSD | .4272668 | 14.47130 | .0735002 |
| #1 | .5428203 | -.006386 | .0719354 |
| #2 | .5470914 | -.007561 | .0719439 |
| #3 | .5465728 | -.005686 | .0720310 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5369.617 | 95388.91 | 12065.55 | 4085.078 | 6355.207 |
| Stddev | 4.550 | 112.05 | 42.01 | 23.521 | 9.038 |
| %RSD | .0847364 | .1174704 | .3482043 | .5757739 | .1422218 |
| #1 | 5368.064 | 95366.36 | 12111.81 | 4093.658 | 6346.532 |
| #2 | 5374.740 | 95289.85 | 12029.78 | 4103.104 | 6364.570 |
| #3 | 5366.047 | 95510.53 | 12055.05 | 4058.471 | 6354.518 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2838-08LX5 Acquired: 8/14/2025 14:30:18 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000607** | **-.000574** | **.0002339** | **-.002283** | **-.000609** | **.0228317** | **.0389034** |
| Stddev | .000991 | .000912 | .0016101 | .000643 | .001217 | .0045494 | .0001914 |
| %RSD | 163.1803 | 158.9668 | 688.3904 | 28.17248 | 199.9756 | 19.92564 | .4918837 |
| #1 | .000386 | -.000632 | -.000487 | -.002841 | .000477 | .0210180 | .0386824 |
| #2 | -.000611 | .000366 | -.000890 | -.002427 | -.001924 | .0280081 | .0390106 |
| #3 | -.001596 | -.001455 | .002079 | -.001580 | -.000379 | .0194689 | .0390170 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000157** | **-.000009** | **2.937336** | **.0000620** | **.0007187** | **.0008579** | **.7667228** |
| Stddev | .0000354 | .000032 | .008951 | .0002308 | .0000306 | .0001821 | .0067356 |
| %RSD | 225.3833 | 363.9182 | .3047394 | 372.4582 | 4.257594 | 21.22025 | .8784955 |
| #1 | .0000493 | -.000012 | 2.937808 | .0002609 | .0006961 | .0010668 | .7744715 |
| #2 | .0000189 | -.000039 | 2.928158 | -.000191 | .0007535 | .0007741 | .7622674 |
| #3 | -.000021 | .000025 | 2.946042 | .000116 | .0007063 | .0007329 | .7634297 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2746413** | **.3917089** | **.0011445** | **.0013154** | **53.46443** | **-.002665** | **.0141206** |
| Stddev | .0009728 | .0295244 | .0001463 | .0003770 | .38711 | .001459 | .0000956 |
| %RSD | .3541937 | 7.537333 | 12.78445 | 28.66004 | .7240509 | 54.73949 | .6771775 |
| #1 | .2751202 | .3602663 | .0010353 | .0009256 | 53.88072 | -.004288 | .0140251 |
| #2 | .2735219 | .3960191 | .0013107 | .0016781 | 53.39729 | -.002245 | .0142163 |
| #3 | .2752817 | .4188413 | .0010874 | .0013424 | 53.11529 | -.001462 | .0141203 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8864862** | **.0016975** | **.0000713** | **-.002797** | **-.000010** | **.0669539** | **.0032562** |
| Stddev | .0168063 | .0004483 | .0000844 | .000536 | .001158 | .0027464 | .0019140 |
| %RSD | 1.895837 | 26.40944 | 118.3965 | 19.15756 | 11038.54 | 4.101983 | 58.77853 |
| #1 | .9055268 | .0021868 | .0000158 | -.002577 | .001163 | .0697515 | .0010856 |
| #2 | .8802132 | .0015994 | .0001684 | -.002406 | -.000043 | .0642617 | .0039818 |
| #3 | .8737186 | .0013064 | .0000297 | -.003408 | -.001152 | .0668485 | .0047013 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2838-08LX5 Acquired: 8/14/2025 14:30:18 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0802746 | .0178016 | .0107015 |
| Stddev | .0024057 | .0006013 | .0001008 |
| %RSD | 2.996850 | 3.377641 | .9421292 |
| #1 | .0830433 | .0171094 | .0105860 |
| #2 | .0786957 | .0181938 | .0107469 |
| #3 | .0790846 | .0181017 | .0107717 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5667.704 | 101042.2 | 11892.62 | 4269.981 | 7085.208 |
| Stddev | 11.223 | 197.4 | 20.18 | 8.988 | 24.480 |
| %RSD | .1980096 | .1953245 | .1697192 | .2105021 | .3455062 |
| #1 | 5660.107 | 100818.0 | 11884.84 | 4261.480 | 7067.636 |
| #2 | 5662.411 | 101189.4 | 11915.54 | 4269.075 | 7074.818 |
| #3 | 5680.594 | 101119.3 | 11877.49 | 4279.388 | 7113.169 |

Sample Name: CCV03 Acquired: 8/14/2025 14:41:31 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.983598** | **4.710307** | **4.786569** | **4.999673** | **5.054010** | **9.773894** | **9.880753** |
| Stddev | .005107 | .062259 | .014330 | .011044 | .001471 | .016195 | .056356 |
| %RSD | .1024832 | 1.321760 | .2993789 | .2208962 | .0291116 | .1656969 | .5703596 |
| #1 | 4.978067 | 4.644783 | 4.803095 | 4.989238 | 5.053366 | 9.755195 | 9.842397 |
| #2 | 4.988136 | 4.717455 | 4.777589 | 4.998543 | 5.052971 | 9.783047 | 9.854405 |
| #3 | 4.984591 | 4.768683 | 4.779023 | 5.011239 | 5.055693 | 9.783439 | 9.945457 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2367600** | **2.401909** | **24.19743** | **.9837924** | **2.407175** | **1.240562** | **5.005928** |
| Stddev | .0007150 | .007411 | .08002 | .0017775 | .005427 | .000352 | .005647 |
| %RSD | .3019818 | .3085339 | .3306820 | .1806755 | .2254578 | .0283346 | .1128094 |
| #1 | .2360597 | 2.410462 | 24.11028 | .9843193 | 2.413437 | 1.240167 | 5.011342 |
| #2 | .2374888 | 2.397400 | 24.26757 | .9852469 | 2.403837 | 1.240840 | 5.006367 |
| #3 | .2367314 | 2.397865 | 24.21446 | .9818111 | 2.404252 | 1.240679 | 5.000074 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.407169** | **23.97210** | **2.424498** | **1.242343** | **24.33863** | **2.455185** | **2.521072** |
| Stddev | .013479 | .19882 | .004281 | .001795 | .03653 | .003939 | .008169 |
| %RSD | .5599525 | .8293714 | .1765629 | .1444681 | .1500722 | .1604255 | .3240126 |
| #1 | 2.394223 | 23.75257 | 2.429394 | 1.244322 | 24.37466 | 2.452645 | 2.529358 |
| #2 | 2.421124 | 24.14003 | 2.421462 | 1.241885 | 24.33959 | 2.459723 | 2.520831 |
| #3 | 2.406158 | 24.02370 | 2.422638 | 1.240821 | 24.30163 | 2.453189 | 2.513026 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **25.36833** | **4.757166** | **5.028692** | **4.795300** | **4.902074** | **5.034422** | **4.725071** |
| Stddev | .04803 | .022450 | .003861 | .009861 | .015045 | .022032 | .019564 |
| %RSD | .1893129 | .4719206 | .0767851 | .2056395 | .3069046 | .4376215 | .4140419 |
| #1 | 25.41889 | 4.731560 | 5.024537 | 4.805415 | 4.884703 | 5.016365 | 4.747662 |
| #2 | 25.32331 | 4.773469 | 5.029370 | 4.785714 | 4.910862 | 5.058970 | 4.713754 |
| #3 | 25.36280 | 4.766468 | 5.032169 | 4.794772 | 4.910659 | 5.027930 | 4.713798 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: CCV03 Acquired: 8/14/2025 14:41:31 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **4.672754** | **4.842041** | **5.026769** |
| Stddev | .015661 | .016682 | .057159 |
| %RSD | .3351654 | .3445320 | 1.137095 |
| #1 | 4.668327 | 4.823392 | 5.004005 |
| #2 | 4.659782 | 4.847189 | 5.091803 |
| #3 | 4.690152 | 4.855543 | 4.984499 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5582.970** | **99081.13** | **11499.90** | **4190.178** | **6782.298** |
| Stddev | 9.167 | 101.66 | 57.03 | 6.846 | 18.949 |
| %RSD | .1642012 | .1026025 | .4958777 | .1633918 | .2793937 |
| #1 | 5579.181 | 99162.17 | 11565.43 | 4195.470 | 6764.210 |
| #2 | 5576.303 | 98967.06 | 11461.56 | 4182.445 | 6780.679 |
| #3 | 5593.424 | 99114.17 | 11472.71 | 4192.618 | 6802.004 |

Sample Name: CCB03 Acquired: 8/14/2025 14:45:41 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000591** | **-.000997** | **.0001690** | **-.001445** | **.0018348** | **-.000383** |
| Stddev | .002640 | .000537 | .0006476 | .002806 | .0006165 | .001420 |
| %RSD | 446.3609 | 53.80556 | 383.2514 | 194.1669 | 33.59896 | 370.2249 |
| #1 | -.001266 | -.000881 | .0001279 | .000169 | .0021344 | .001254 |
| #2 | -.002828 | -.000529 | .0008362 | .000181 | .0022442 | -.001147 |
| #3 | .002320 | -.001583 | -.000457 | -.004686 | .0011258 | -.001257 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.007215** | **.0000157** | **.0000365** | **.0121288** | **.0004531** | **-.000015** |
| Stddev | .000403 | .0000462 | .0000476 | .0033977 | .0001971 | .000197 |
| %RSD | 5.591962 | 294.5666 | 130.3382 | 28.01355 | 43.49482 | 1321.874 |
| #1 | -.007428 | .0000374 | .0000025 | .0087659 | .0006529 | .000210 |
| #2 | -.007467 | -.000037 | .0000910 | .0120602 | .0002588 | -.000153 |
| #3 | -.006750 | .000047 | .0000161 | .0155603 | .0004476 | -.000102 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000257** | **.0031004** | **.0002506** | **-.000783** | **.0001743** | **.0014550** |
| Stddev | .000303 | .0008466 | .0001271 | .014116 | .0002323 | .0001648 |
| %RSD | 117.7964 | 27.30731 | 50.71854 | 1802.534 | 133.3007 | 11.32972 |
| #1 | -.000054 | .0022378 | .0001362 | -.015964 | .0002126 | .0014132 |
| #2 | -.000605 | .0031333 | .0003874 | .011948 | .0003850 | .0016367 |
| #3 | -.000112 | .0039300 | .0002282 | .001667 | -.000075 | .0013150 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7876665** | **-.000443** | **.0003390** | **.5284278** | **.0072099** | **.0005366** |
| Stddev | .0151689 | .001550 | .0000393 | .0300654 | .0003280 | .0002553 |
| %RSD | 1.925807 | 350.1546 | 11.58165 | 5.689585 | 4.549597 | 47.57389 |
| #1 | .7748390 | -.001347 | .0003036 | .5322801 | .0074350 | .0004038 |
| #2 | .7837514 | .001347 | .0003321 | .5563814 | .0068336 | .0008308 |
| #3 | .8044093 | -.001329 | .0003812 | .4966220 | .0073613 | .0003750 |

Sample Name: CCB03 Acquired: 8/14/2025 14:45:41 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.013932 | .0004189 | .0256237 | -.000987 | .0016668 | F .0129305 |
| Stddev | .000400 | .0005079 | .0071365 | .000678 | .0018830 | .0010588 |
| %RSD | 2.872162 | 121.2468 | 27.85133 | 68.73635 | 112.9757 | 8.188196 |
| #1 | -.014378 | .0002424 | .0305407 | -.000294 | .0028709 | .0117152 |
| #2 | -.013604 | .0009916 | .0288920 | -.001649 | .0026326 | .0136531 |
| #3 | -.013813 | .0000228 | .0174382 | -.001018 | -.000503 | .0134234 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | -.000111 |
| Stddev | .000019 |
| %RSD | 17.38948 |
| #1 | -.000098 |
| #2 | -.000133 |
| #3 | -.000103 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5733.276 | 101778.5 | 11559.18 | 4307.635 | 7527.980 |
| Stddev | 5.470 | 482.5 | 33.87 | 8.811 | 4.929 |
| %RSD | .0954122 | .4741039 | .2930469 | .2045499 | .0654704 |
| #1 | 5728.195 | 101632.3 | 11557.11 | 4301.052 | 7523.747 |
| #2 | 5739.067 | 101386.0 | 11594.04 | 4304.208 | 7526.801 |
| #3 | 5732.567 | 102317.3 | 11526.39 | 4317.645 | 7533.391 |

Sample Name: Q2838-08MS Acquired: 8/14/2025 14:50:01 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8126531** | **1.813072** | **.9034199** | **1.998481** | **.8137177** | **2.084444** | **.5313340** |
| Stddev | .0029549 | .012926 | .0021632 | .007887 | .0012511 | .007029 | .0024203 |
| %RSD | .3636070 | .7129277 | .2394411 | .3946326 | .1537528 | .3372334 | .4555081 |
| #1 | .8104548 | 1.819233 | .9013104 | 1.997951 | .8123922 | 2.076687 | .5326691 |
| #2 | .8114924 | 1.798218 | .9056330 | 1.990872 | .8138829 | 2.086251 | .5285402 |
| #3 | .8160121 | 1.821765 | .9033164 | 2.006619 | .8148781 | 2.090393 | .5327926 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1742733** | **.1924257** | **22.41689** | **.3948765** | **.2000961** | **.2920906** | **9.242732** |
| Stddev | .0005369 | .0005414 | .03548 | .0011041 | .0001621 | .0010599 | .049738 |
| %RSD | .3081009 | .2813788 | .1582660 | .2795954 | .0810156 | .3628508 | .5381259 |
| #1 | .1748055 | .1929282 | 22.44918 | .3942861 | .2002075 | .2923963 | 9.233371 |
| #2 | .1742827 | .1918523 | 22.37891 | .3941931 | .1999102 | .2909115 | 9.198340 |
| #3 | .1737318 | .1924966 | 22.42258 | .3961502 | .2001707 | .2929640 | 9.296485 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.185735** | **4.602651** | **.4915920** | **.0759903** | **438.5393** | **.2936093** | **.3131220** |
| Stddev | .008025 | .009992 | .0003852 | .0006135 | 3.1443 | .0021941 | .0001800 |
| %RSD | .3671491 | .2170869 | .0783487 | .8073691 | .7169878 | .7472966 | .0574841 |
| #1 | 2.194994 | 4.606219 | .4920309 | .0765041 | 435.9919 | .2954732 | .3129348 |
| #2 | 2.181406 | 4.610368 | .4913101 | .0753110 | 437.5725 | .2911912 | .3132939 |
| #3 | 2.180803 | 4.591365 | .4914350 | .0761558 | 442.0534 | .2941635 | .3131374 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **12.65707** | **.2779893** | **.4218242** | **.6657914** | **.1956670** | **1.476316** | **5.595892** |
| Stddev | .15508 | .0009692 | .0016732 | .0022107 | .0021583 | .012982 | .016707 |
| %RSD | 1.225230 | .3486344 | .3966549 | .3320345 | 1.103075 | .8793258 | .2985644 |
| #1 | 12.57316 | .2786039 | .4218228 | .6639969 | .1981273 | 1.488323 | 5.583368 |
| #2 | 12.56204 | .2768721 | .4201518 | .6682609 | .1947811 | 1.462541 | 5.589445 |
| #3 | 12.83603 | .2784919 | .4234981 | .6651164 | .1940924 | 1.478085 | 5.614862 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2838-08MS Acquired: 8/14/2025 14:50:01 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .5616974 | .1913190 | .2639709 |
| Stddev | .0024766 | .0004601 | .0002786 |
| %RSD | .4409130 | .2404874 | .1055453 |
| #1 | .5631392 | .1907942 | .2637988 |
| #2 | .5588377 | .1916529 | .2638215 |
| #3 | .5631153 | .1915099 | .2642923 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5345.955 | 94719.73 | 11889.29 | 4024.959 | 6309.462 |
| Stddev | 10.811 | 337.85 | 26.32 | 11.323 | 8.429 |
| %RSD | .2022297 | .3566822 | .2213769 | .2813266 | .1335927 |
| #1 | 5343.670 | 94905.61 | 11859.17 | 4026.024 | 6309.361 |
| #2 | 5357.726 | 94923.82 | 11907.91 | 4035.712 | 6317.941 |
| #3 | 5336.470 | 94329.76 | 11900.77 | 4013.141 | 6301.084 |

Sample Name: Q2838-08MSD Acquired: 8/14/2025 14:54:09 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8064475** | **1.854823** | **.8923168** | **1.995953** | **.7915381** | **2.016034** | **.4970318** |
| Stddev | .0015856 | .011460 | .0012871 | .005069 | .0040137 | .005205 | .0041612 |
| %RSD | .1966137 | .6178663 | .1442419 | .2539823 | .5070724 | .2581872 | .8372133 |
| #1 | .8047881 | 1.865330 | .8919762 | 1.995136 | .7953122 | 2.021979 | .4991747 |
| #2 | .8079472 | 1.856539 | .8937400 | 1.991342 | .7873215 | 2.013825 | .4922359 |
| #3 | .8066071 | 1.842602 | .8912343 | 2.001381 | .7919806 | 2.012297 | .4996849 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1752261** | **.1898470** | **20.43895** | **.3924775** | **.1974589** | **.2890936** | **8.532840** |
| Stddev | .0008586 | .0002411 | .06146 | .0023372 | .0002715 | .0004328 | .001044 |
| %RSD | .4899915 | .1270016 | .3007177 | .5955089 | .1375037 | .1496992 | .0122299 |
| #1 | .1759103 | .1895758 | 20.46649 | .3929500 | .1971889 | .2891297 | 8.532094 |
| #2 | .1742627 | .1899281 | 20.36854 | .3945424 | .1974559 | .2886440 | 8.532395 |
| #3 | .1755054 | .1900371 | 20.48184 | .3899401 | .1977319 | .2895072 | 8.534033 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.013089** | **4.361839** | **.4849360** | **.0742387** | **394.8594** | **.2922756** | **.3019869** |
| Stddev | .009865 | .030327 | .0002856 | .0008590 | 5.3788 | .0016826 | .0002661 |
| %RSD | .4900594 | .6952768 | .0588853 | 1.157088 | 1.362206 | .5756756 | .0881117 |
| #1 | 2.018933 | 4.371918 | .4846504 | .0751658 | 388.6530 | .2931289 | .3016932 |
| #2 | 2.001698 | 4.327756 | .4849360 | .0734699 | 398.1671 | .2903373 | .3020558 |
| #3 | 2.018635 | 4.385843 | .4852215 | .0740802 | 397.7583 | .2933604 | .3022118 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **12.17305** | **.2747896** | **.4142240** | **.6492783** | **.1910233** | **1.371030** | **5.551040** |
| Stddev | .02675 | .0018710 | .0015776 | .0014794 | .0008992 | .009267 | .012661 |
| %RSD | .2197574 | .6808890 | .3808443 | .2278531 | .4707010 | .6759502 | .2280899 |
| #1 | 12.19082 | .2762078 | .4145729 | .6495034 | .1911946 | 1.376902 | 5.540385 |
| #2 | 12.14229 | .2726690 | .4125012 | .6506323 | .1900508 | 1.375842 | 5.547699 |
| #3 | 12.18606 | .2754919 | .4155979 | .6476993 | .1918244 | 1.360347 | 5.565037 |

Sample Name: Q2838-08MSD Acquired: 8/14/2025 14:54:09 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .6497779 | .1884034 | .2556237 |
| Stddev | .0031018 | .0004722 | .0009007 |
| %RSD | .4773642 | .2506208 | .3523692 |
| #1 | .6533196 | .1886417 | .2561762 |
| #2 | .6484696 | .1878596 | .2545843 |
| #3 | .6475447 | .1887090 | .2561106 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5360.436 | 94938.38 | 11690.65 | 4029.742 | 6357.668 |
| Stddev | 13.346 | 64.49 | 76.81 | 16.230 | 6.890 |
| %RSD | .2489652 | .0679302 | .6570448 | .4027512 | .1083721 |
| #1 | 5352.967 | 94906.53 | 11656.51 | 4046.129 | 6358.182 |
| #2 | 5375.844 | 95012.60 | 11778.61 | 4013.674 | 6364.287 |
| #3 | 5352.498 | 94896.00 | 11636.83 | 4029.425 | 6350.536 |

Sample Name: Q2838-08A Acquired: 8/14/2025 14:58:16 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8296309** | **1.889837** | **.9279724** | **2.073422** | **.8242431** | **2.044137** | **.4439018** |
| Stddev | .0023768 | .013905 | .0031409 | .008789 | .0027105 | .012689 | .0005862 |
| %RSD | .2864890 | .7357738 | .3384690 | .4239045 | .3288533 | .6207733 | .1320529 |
| #1 | .8320429 | 1.877673 | .9300991 | 2.069619 | .8273696 | 2.058068 | .4435359 |
| #2 | .8272910 | 1.886841 | .9294533 | 2.067174 | .8225552 | 2.041104 | .4445779 |
| #3 | .8295588 | 1.904995 | .9243649 | 2.083472 | .8228044 | 2.033239 | .4435916 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1799751** | **.1948049** | **17.30144** | **.4018767** | **.2022938** | **.2993321** | **7.769142** |
| Stddev | .0005363 | .0002306 | .02251 | .0021716 | .0005362 | .0006879 | .014585 |
| %RSD | .2979661 | .1183683 | .1300887 | .5403526 | .2650531 | .2298106 | .1877290 |
| #1 | .1795689 | .1950497 | 17.31272 | .4028087 | .2028612 | .2999672 | 7.785976 |
| #2 | .1805830 | .1947730 | 17.31607 | .3993948 | .2022247 | .2986014 | 7.761137 |
| #3 | .1797735 | .1945918 | 17.27552 | .4034267 | .2017955 | .2994277 | 7.760312 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.709929** | **4.015705** | **.5002499** | **.0767112** | **328.4046** | **.2987203** | **.2956337** |
| Stddev | .003817 | .009979 | .0005155 | .0002359 | 4.5278 | .0023074 | .0010525 |
| %RSD | .2232199 | .2485086 | .1030514 | .3074795 | 1.378724 | .7724389 | .3560151 |
| #1 | 1.705907 | 4.004401 | .5008442 | .0764738 | 325.8400 | .3011901 | .2947744 |
| #2 | 1.713501 | 4.019422 | .4999817 | .0769455 | 325.7413 | .2983512 | .2968076 |
| #3 | 1.710379 | 4.023293 | .4999238 | .0767141 | 333.6326 | .2966197 | .2953190 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **12.23463** | **.2800426** | **.4214561** | **.6641000** | **.1907361** | **1.390083** | **5.648525** |
| Stddev | .06477 | .0010864 | .0010897 | .0010705 | .0010945 | .009924 | .039750 |
| %RSD | .5294023 | .3879306 | .2585623 | .1611957 | .5738042 | .7139050 | .7037281 |
| #1 | 12.25724 | .2791599 | .4209326 | .6633804 | .1901658 | 1.388858 | 5.689904 |
| #2 | 12.16158 | .2812559 | .4207269 | .6653302 | .1919979 | 1.380829 | 5.645036 |
| #3 | 12.28506 | .2797121 | .4227088 | .6635895 | .1900446 | 1.400563 | 5.610634 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2838-08A Acquired: 8/14/2025 14:58:16 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .4482838 | .1913180 | .2473294 |
| Stddev | .0021722 | .0006302 | .0002546 |
| %RSD | .4845558 | .3294261 | .1029369 |
| #1 | .4480568 | .1909141 | .2471243 |
| #2 | .4462340 | .1920442 | .2476143 |
| #3 | .4505606 | .1909957 | .2472496 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5420.712 | 96346.79 | 12004.58 | 4079.936 | 6454.675 |
| Stddev | 10.191 | 156.33 | 31.91 | 6.944 | 12.520 |
| %RSD | .1880039 | .1622567 | .2658515 | .1702059 | .1939688 |
| #1 | 5432.268 | 96347.57 | 12038.14 | 4087.240 | 6461.647 |
| #2 | 5416.863 | 96502.73 | 11974.62 | 4073.418 | 6440.221 |
| #3 | 5413.007 | 96190.08 | 12001.00 | 4079.150 | 6462.158 |

Sample Name: Q2814-01 Acquired: 8/14/2025 15:02:24 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0031528** | **.0008100** | **.0076498** | **.0026090** | **.0037440** | **.9218908** | **.0625422** |
| Stddev | .0006992 | .0011359 | .0009363 | .0015606 | .0007589 | .0104140 | .0007976 |
| %RSD | 22.17658 | 140.2396 | 12.24012 | 59.81656 | 20.26962 | 1.129640 | 1.275296 |
| #1 | .0024291 | .0021148 | .0082443 | .0021938 | .0030705 | .9286494 | .0619654 |
| #2 | .0038246 | .0000417 | .0081345 | .0043353 | .0045662 | .9271251 | .0634524 |
| #3 | .0032047 | .0002735 | .0065704 | .0012980 | .0035953 | .9098980 | .0622088 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000682** | **.0001880** | **40.90931** | **.0037406** | **.0000103** | **.0067203** | **2.072176** |
| Stddev | .0000590 | .0000692 | .10399 | .0001249 | .0000733 | .0003695 | .016581 |
| %RSD | 86.54772 | 36.80168 | .2542040 | 3.338076 | 715.0774 | 5.498450 | .8001668 |
| #1 | .0000982 | .0001147 | 40.80966 | .0036008 | .0000844 | .0063189 | 2.090622 |
| #2 | .0000002 | .0002522 | 41.01716 | .0037800 | .0000085 | .0067956 | 2.058510 |
| #3 | .0001061 | .0001971 | 40.90110 | .0038410 | -.000062 | .0070463 | 2.067395 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0388256** | **23.06362** | **.0021459** | **.0005062** | **131.1322** | **.0038627** | **.0328102** |
| Stddev | .0003464 | .07932 | .0001610 | .0003403 | 1.1572 | .0027551 | .0004474 |
| %RSD | .8923011 | .3439149 | 7.502894 | 67.21706 | .8824414 | 71.32599 | 1.363600 |
| #1 | .0386133 | 22.98542 | .0022917 | .0001138 | 132.3872 | .0068475 | .0331316 |
| #2 | .0392253 | 23.06144 | .0021728 | .0006861 | 130.9019 | .0014169 | .0329997 |
| #3 | .0386381 | 23.14401 | .0019731 | .0007187 | 130.1075 | .0033238 | .0322992 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **27.14861** | **.1568181** | **.0032940** | **-.016396** | **.0303878** | **12.77306** | **.9423697** |
| Stddev | .17594 | .0015862 | .0000622 | .000556 | .0003194 | .11557 | .0070594 |
| %RSD | .6480721 | 1.011514 | 1.887584 | 3.390555 | 1.051165 | .9047960 | .7491121 |
| #1 | 27.34680 | .1549944 | .0033512 | -.016886 | .0302384 | 12.87871 | .9481164 |
| #2 | 27.08823 | .1575826 | .0033028 | -.015792 | .0307545 | 12.79084 | .9344897 |
| #3 | 27.01081 | .1578772 | .0032278 | -.016510 | .0301703 | 12.64963 | .9445032 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2814-01 Acquired: 8/14/2025 15:02:24 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **4.392043** | **-.009609** | **.3486520** |
| Stddev | .006059 | .000471 | .0002538 |
| %RSD | .1379583 | 4.905357 | .0727896 |
| #1 | 4.388269 | -.009078 | .3485874 |
| #2 | 4.399032 | -.009771 | .3489318 |
| #3 | 4.388828 | -.009979 | .3484367 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5432.346** | **98492.76** | **11853.97** | **4104.224** | **6660.619** |
| Stddev | 1.297 | 235.87 | 106.35 | 20.471 | 9.936 |
| %RSD | .0238785 | .2394833 | .8971985 | .4987729 | .1491785 |
| #1 | 5431.002 | 98377.69 | 11976.76 | 4101.086 | 6661.921 |
| #2 | 5432.444 | 98336.49 | 11790.67 | 4085.504 | 6669.840 |
| #3 | 5433.591 | 98764.08 | 11794.49 | 4126.083 | 6650.096 |

Sample Name: Q2814-03 Acquired: 8/14/2025 15:06:38 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0125364** | **.0009098** | **.0418210** | **.0015616** | **.0036855** | **5.509489** | **.0371319** |
| Stddev | .0022494 | .0024562 | .0013403 | .0014140 | .0001416 | .005280 | .0009153 |
| %RSD | 17.94284 | 269.9731 | 3.204911 | 90.55283 | 3.841015 | .0958289 | 2.464875 |
| #1 | .0100433 | -.000024 | .0427577 | .0029748 | .0038458 | 5.503415 | .0373611 |
| #2 | .0131522 | -.000943 | .0402857 | .0015630 | .0035775 | 5.512078 | .0361238 |
| #3 | .0144137 | .003696 | .0424195 | .0001468 | .0036332 | 5.512975 | .0379107 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0004435** | **.0004899** | **36.79843** | **.0084620** | **.0015818** | **.0143946** | **3.539530** |
| Stddev | .0000439 | .0000828 | .04814 | .0001077 | .0002192 | .0003517 | .006552 |
| %RSD | 9.900318 | 16.90216 | .1308211 | 1.273192 | 13.85905 | 2.443322 | .1851051 |
| #1 | .0004098 | .0005180 | 36.78599 | .0084996 | .0018271 | .0147141 | 3.547052 |
| #2 | .0004275 | .0003967 | 36.75773 | .0085458 | .0015133 | .0140178 | 3.536474 |
| #3 | .0004931 | .0005551 | 36.85157 | .0083405 | .0014050 | .0144521 | 3.535066 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2048574** | **13.61443** | **.0034810** | **.0010999** | **86.78552** | **.0160416** | **.0795470** |
| Stddev | .0014284 | .03370 | .0004254 | .0001400 | .16532 | .0008425 | .0003136 |
| %RSD | .6972474 | .2475552 | 12.22145 | 12.73191 | .1904976 | 5.251629 | .3942722 |
| #1 | .2054940 | 13.57552 | .0029934 | .0009492 | 86.94126 | .0154712 | .0791974 |
| #2 | .2032215 | 13.63452 | .0036728 | .0012261 | 86.80327 | .0170092 | .0798038 |
| #3 | .2058569 | 13.63325 | .0037767 | .0011245 | 86.61204 | .0156444 | .0796396 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.978182** | **.1494501** | **.0010005** | **-.017241** | **.0526035** | **11.85758** | **2.251366** |
| Stddev | .041214 | .0007689 | .0001685 | .000657 | .0006931 | .02149 | .004603 |
| %RSD | .4130456 | .5145065 | 16.83744 | 3.812294 | 1.317538 | .1812643 | .2044378 |
| #1 | 10.02326 | .1491353 | .0011035 | -.017462 | .0525002 | 11.83554 | 2.255281 |
| #2 | 9.96886 | .1488884 | .0008061 | -.016502 | .0533424 | 11.85872 | 2.252520 |
| #3 | 9.94242 | .1503264 | .0010919 | -.017760 | .0519678 | 11.87848 | 2.246296 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2814-03 Acquired: 8/14/2025 15:06:38 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 4.302705 | -.009898 | .1660236 |
| Stddev | .015564 | .000817 | .0003532 |
| %RSD | .3617200 | 8.255867 | .2127490 |
| #1 | 4.304799 | -.010636 | .1663133 |
| #2 | 4.317115 | -.010037 | .1661273 |
| #3 | 4.286200 | -.009020 | .1656301 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5598.329 | 100262.7 | 12117.03 | 4209.108 | 6876.355 |
| Stddev | 4.927 | 146.0 | 32.44 | 2.849 | 12.238 |
| %RSD | .0880010 | .1456042 | .2676976 | .0676875 | .1779716 |
| #1 | 5592.675 | 100339.1 | 12151.75 | 4212.279 | 6862.723 |
| #2 | 5600.616 | 100094.4 | 12087.50 | 4206.762 | 6886.396 |
| #3 | 5601.696 | 100354.7 | 12111.83 | 4208.284 | 6879.946 |

Sample Name: Q2814-16 Acquired: 8/14/2025 15:10:49 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.003544** | **-.001204** | **-.000852** | **.0011431** | **.0022467** | **-.007780** | **-.008093** |
| Stddev | .000512 | .001097 | .000289 | .0008424 | .0006486 | .003749 | .000816 |
| %RSD | 14.45343 | 91.12950 | 33.88205 | 73.69290 | 28.86680 | 48.17909 | 10.08810 |
| #1 | -.004059 | .000057 | -.001150 | .0010856 | .0015864 | -.009697 | -.007893 |
| #2 | -.003034 | -.001941 | -.000830 | .0003309 | .0022710 | -.010183 | -.008990 |
| #3 | -.003540 | -.001726 | -.000574 | .0020128 | .0028828 | -.003461 | -.007394 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000182** | **.0000960** | **.0221497** | **.0000100** | **-.000380** | **.0002196** | **.0034072** |
| Stddev | .000036 | .0000782 | .0052713 | .0001438 | .000149 | .0005010 | .0038367 |
| %RSD | 19.84380 | 81.46324 | 23.79840 | 1438.808 | 39.30095 | 228.1032 | 112.6056 |
| #1 | -.000223 | .0001826 | .0161422 | -.000117 | -.000551 | -.000212 | .0052798 |
| #2 | -.000156 | .0000744 | .0243057 | .000166 | -.000316 | .000103 | .0059481 |
| #3 | -.000166 | .0000308 | .0260013 | -.000019 | -.000274 | .000769 | -.001006 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0033701** | **.0182736** | **-.000117** | **.0010062** | **-.046919** | **-.000956** | **.0024567** |
| Stddev | .0002603 | .0152469 | .000186 | .0002393 | .010427 | .002322 | .0000322 |
| %RSD | 7.724296 | 83.43695 | 159.1818 | 23.78196 | 22.22452 | 242.8573 | 1.310444 |
| #1 | .0034331 | .0358497 | -.000274 | .0007539 | -.034889 | .000818 | .0024923 |
| #2 | .0030840 | .0086021 | .000088 | .0012299 | -.052499 | -.003585 | .0024485 |
| #3 | .0035931 | .0103691 | -.000165 | .0010348 | -.053369 | -.000102 | .0024295 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0371972** | **-.002072** | **.0004505** | **-.015491** | **.0006007** | **.0064268** | **.0047204** |
| Stddev | .0313024 | .000376 | .0001415 | .000144 | .0006909 | .0045212 | .0007846 |
| %RSD | 84.15252 | 18.14395 | 31.40252 | .9285216 | 115.0237 | 70.34904 | 16.62126 |
| #1 | .0079075 | -.002503 | .0005574 | -.015340 | .0008086 | .0014119 | .0048504 |
| #2 | .0335001 | -.001901 | .0002901 | -.015626 | -.000170 | .0101908 | .0038789 |
| #3 | .0701839 | -.001812 | .0005041 | -.015507 | .001164 | .0076776 | .0054319 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2814-16 Acquired: 8/14/2025 15:10:49 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0148881 | -.007257 | -.000054 |
| Stddev | .0014115 | .001533 | .000073 |
| %RSD | 9.481065 | 21.11993 | 133.6965 |
| | | | |
| #1 | .0155164 | -.008174 | -.000138 |
| #2 | .0132715 | -.008109 | -.000024 |
| #3 | .0158764 | -.005487 | -.000002 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5867.375 | 105925.6 | 11980.48 | 4381.382 | 7852.568 |
| Stddev | 10.710 | 108.0 | 77.59 | 18.414 | 10.204 |
| %RSD | .1825411 | .1019563 | .6476626 | .4202730 | .1299477 |
| | | | | | |
| #1 | 5862.079 | 105949.6 | 11900.96 | 4362.271 | 7848.440 |
| #2 | 5879.701 | 105807.6 | 11984.50 | 4382.866 | 7864.189 |
| #3 | 5860.344 | 106019.6 | 12055.99 | 4399.009 | 7845.074 |

Sample Name: Q2814-17DLX5 Acquired: 8/14/2025 15:15:10 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1215035** | **-.011428** | **.3567469** | **.0070570** | **-.001650** | **93.31502** |
| Stddev | .0040755 | .001263 | .0053161 | .0024024 | .000215 | .05559 |
| %RSD | 3.354195 | 11.04760 | 1.490161 | 34.04229 | 13.04071 | .0595716 |
| #1 | .1250769 | -.010221 | .3615055 | .0081390 | -.001453 | 93.27280 |
| #2 | .1223686 | -.011324 | .3577259 | .0087280 | -.001879 | 93.37800 |
| #3 | .1170649 | -.012739 | .3510094 | .0043039 | -.001617 | 93.29426 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3561054** | **.0063462** | **.0173023** | **20.37743** | **.1904158** | **.0607219** |
| Stddev | .0009834 | .0000272 | .0002523 | .00258 | .0006953 | .0010406 |
| %RSD | .2761566 | .4292780 | 1.458002 | .0126799 | .3651389 | 1.713709 |
| #1 | .3561721 | .0063622 | .0175087 | 20.37969 | .1909581 | .0615716 |
| #2 | .3550904 | .0063617 | .0173770 | 20.37800 | .1906573 | .0610330 |
| #3 | .3570538 | .0063148 | .0170211 | 20.37461 | .1896320 | .0595613 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5198336** | **135.5291** | **.4753863** | **22.69980** | **.1150995** | **.0092354** |
| Stddev | .0078562 | .2990 | .0009146 | .07068 | .0012954 | .0002127 |
| %RSD | 1.511292 | .2205982 | .1923842 | .3113682 | 1.125427 | 2.303549 |
| #1 | .5270476 | 135.3056 | .4750234 | 22.67207 | .1164177 | .0093064 |
| #2 | .5209898 | 135.4129 | .4764266 | 22.78014 | .1150525 | .0089963 |
| #3 | .5114633 | 135.8687 | .4747088 | 22.64720 | .1138283 | .0094036 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **149.0942** | **.2206338** | **1.567869** | **18.45318** | **.5222688** | **.0293904** |
| Stddev | .4624 | .0019383 | .011568 | .04930 | .0016948 | .0005152 |
| %RSD | .3101220 | .8785160 | .7378093 | .2671837 | .3245148 | 1.752863 |
| #1 | 149.5796 | .2228712 | 1.579795 | 18.40478 | .5203123 | .0299770 |
| #2 | 148.6590 | .2194646 | 1.567115 | 18.45141 | .5232104 | .0290115 |
| #3 | 149.0439 | .2195657 | 1.556696 | 18.50334 | .5232839 | .0291827 |

Sample Name: Q2814-17DLX5 Acquired: 8/14/2025 15:15:10 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0012722 | 2.385776 | F 34.20847 | 5.997792 | F 66.17811 | .1274272 |
| Stddev | .0003202 | .000991 | .11135 | .063757 | .87604 | .0011546 |
| %RSD | 25.17289 | .0415320 | .3255085 | 1.063000 | 1.323768 | .9060749 |
| #1 | .0015515 | 2.384683 | 34.11281 | 6.055066 | 66.79320 | .1261409 |
| #2 | .0009227 | 2.386615 | 34.18191 | 6.009214 | 66.56605 | .1277672 |
| #3 | .0013423 | 2.386030 | 34.33071 | 5.929097 | 65.17508 | .1283737 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1007231 |
| Stddev | .0002897 |
| %RSD | .2876195 |
| #1 | .1010555 |
| #2 | .1005887 |
| #3 | .1005250 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5741.516 | 102255.4 | 12780.42 | 4314.548 | 6432.194 |
| Stddev | 7.609 | 315.1 | 47.28 | 10.705 | 18.192 |
| %RSD | .1325220 | .3081688 | .3699351 | .2481072 | .2828262 |
| #1 | 5748.688 | 102603.9 | 12827.06 | 4305.608 | 6447.239 |
| #2 | 5733.535 | 102172.0 | 12732.53 | 4311.625 | 6411.976 |
| #3 | 5742.326 | 101990.5 | 12781.67 | 4326.410 | 6437.368 |

Sample Name: Q2814-22 Acquired: 8/14/2025 15:19:13 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0020481** | **.0000819** | **.0075584** | **.0002256** | **.0012201** | **.8188757** | **.0680922** |
| Stddev | .0020697 | .0010287 | .0008578 | .0019886 | .0008977 | .0094843 | .0021812 |
| %RSD | 101.0569 | 1256.341 | 11.34891 | 881.3550 | 73.57390 | 1.158208 | 3.203257 |
| #1 | -.000216 | -.000647 | .0070678 | .0022657 | .0006001 | .8271429 | .0706107 |
| #2 | .003842 | .001259 | .0085489 | .0001184 | .0008107 | .8085218 | .0668572 |
| #3 | .002519 | -.000366 | .0070586 | -.001707 | .0022495 | .8209623 | .0668088 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000154** | **.0002394** | **43.66693** | **.0036210** | **.0001351** | **.0056971** | **1.652325** |
| Stddev | .0000364 | .0000678 | .43991 | .0005560 | .0001521 | .0003989 | .009960 |
| %RSD | 236.8137 | 28.33122 | 1.007429 | 15.35436 | 112.5366 | 7.001905 | .6028156 |
| #1 | -.000018 | .0002402 | 44.17349 | .0032831 | .0000871 | .0053179 | 1.648781 |
| #2 | .000054 | .0001712 | 43.44635 | .0042626 | .0000129 | .0056602 | 1.663572 |
| #3 | .000010 | .0003068 | 43.38094 | .0033172 | .0003054 | .0061132 | 1.644620 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0404055** | **24.52734** | **.0015877** | **.0008233** | **143.4595** | **.0045219** | **.0312375** |
| Stddev | .0004047 | .30899 | .0003110 | .0001183 | .4047 | .0021529 | .0001584 |
| %RSD | 1.001472 | 1.259774 | 19.58791 | 14.36502 | .2821186 | 47.61155 | .5069360 |
| #1 | .0408691 | 24.84666 | .0016507 | .0008014 | 142.9947 | .0067774 | .0311823 |
| #2 | .0402244 | 24.50551 | .0018623 | .0009509 | 143.7340 | .0042992 | .0314160 |
| #3 | .0401231 | 24.22984 | .0012500 | .0007175 | 143.6498 | .0024889 | .0311141 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **29.08499** | **.1614927** | **.0030528** | **-.016043** | **.0249332** | **13.47646** | **.9724078** |
| Stddev | .03920 | .0023920 | .0002259 | .000419 | .0010919 | .02961 | .0020895 |
| %RSD | .1347759 | 1.481176 | 7.400265 | 2.611274 | 4.379475 | .2197119 | .2148797 |
| #1 | 29.04243 | .1642520 | .0030046 | -.015575 | .0240994 | 13.48742 | .9734071 |
| #2 | 29.11962 | .1600060 | .0032990 | -.016169 | .0245310 | 13.44293 | .9700063 |
| #3 | 29.09293 | .1602202 | .0028549 | -.016384 | .0261692 | 13.49902 | .9738100 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2814-22 Acquired: 8/14/2025 15:19:13 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **4.448379** | **-.009655** | **.3732710** |
| Stddev | .000685 | .001452 | .0027976 |
| %RSD | .0154097 | 15.03711 | .7494864 |
| #1 | 4.447816 | -.011110 | .3764934 |
| #2 | 4.448179 | -.009648 | .3718562 |
| #3 | 4.449143 | -.008206 | .3714633 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5400.996** | **96455.00** | **11732.74** | **4014.763** | **6629.153** |
| Stddev | 4.140 | 421.17 | 166.52 | 23.635 | 17.761 |
| %RSD | .0766570 | .4366504 | 1.419246 | .5886953 | .2679273 |
| #1 | 5396.893 | 95970.46 | 11540.51 | 3990.837 | 6608.690 |
| #2 | 5405.172 | 96733.34 | 11825.07 | 4015.358 | 6640.567 |
| #3 | 5400.921 | 96661.21 | 11832.65 | 4038.095 | 6638.204 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2814-23 Acquired: 8/14/2025 15:23:28 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0240815** | **.0003590** | **.0560720** | **.0023988** | **.0036556** | **20.46146** |
| Stddev | .0013525 | .0025753 | .0010114 | .0012287 | .0020486 | .02442 |
| %RSD | 5.616417 | 717.4103 | 1.803804 | 51.21973 | 56.04128 | .1193249 |
| #1 | .0226116 | .0011298 | .0568949 | .0029662 | .0059403 | 20.43643 |
| #2 | .0243592 | .0024608 | .0563781 | .0032412 | .0019822 | 20.46273 |
| #3 | .0252735 | -.002514 | .0549428 | .0009890 | .0030443 | 20.48521 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0621581** | **.0008793** | **.0011536** | **37.74388** | **.0298778** | **.0047034** |
| Stddev | .0004237 | .0000154 | .0000686 | .05052 | .0002735 | .0001629 |
| %RSD | .6817046 | 1.755204 | 5.945304 | .1338555 | .9153383 | 3.462661 |
| #1 | .0617562 | .0008877 | .0012207 | 37.68690 | .0297910 | .0046778 |
| #2 | .0621175 | .0008615 | .0010836 | 37.78321 | .0301842 | .0048776 |
| #3 | .0626007 | .0008887 | .0011565 | 37.76153 | .0296583 | .0045549 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0426491** | **18.08672** | **.2693819** | **15.12997** | **.0134930** | **.0020671** |
| Stddev | .0002297 | .07400 | .0008690 | .06158 | .0003669 | .0001917 |
| %RSD | .5386197 | .4091273 | .3225829 | .4069959 | 2.719030 | 9.271920 |
| #1 | .0424075 | 18.04876 | .2703450 | 15.05961 | .0131152 | .0022877 |
| #2 | .0428648 | 18.17199 | .2691441 | 15.15627 | .0135158 | .0019712 |
| #3 | .0426751 | 18.03941 | .2686566 | 15.17404 | .0138479 | .0019423 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **89.80201** | **.0386744** | **.1869602** | **11.51882** | **.1633341** | **.0031957** |
| Stddev | .32108 | .0021004 | .0012006 | .05802 | .0008396 | .0001401 |
| %RSD | .3575381 | 5.431013 | .6421680 | .5036799 | .5140288 | 4.384983 |
| #1 | 89.85365 | .0379814 | .1855744 | 11.57739 | .1624139 | .0033530 |
| #2 | 90.09414 | .0410337 | .1876838 | 11.51770 | .1640585 | .0030841 |
| #3 | 89.45825 | .0370080 | .1876225 | 11.46137 | .1635298 | .0031501 |

Sample Name: Q2814-23 Acquired: 8/14/2025 15:23:28 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.014670 | .5759426 | F 27.61583 | 2.782714 | 5.945609 | .0036300 |
| Stddev | .000426 | .0016995 | .05752 | .004539 | .016859 | .0019933 |
| %RSD | 2.906353 | .2950791 | .2082754 | .1631178 | .2835584 | 54.91155 |
| #1 | -.015089 | .5740002 | 27.68210 | 2.777991 | 5.936826 | .0033269 |
| #2 | -.014236 | .5766719 | 27.58660 | 2.783106 | 5.934954 | .0018056 |
| #3 | -.014685 | .5771558 | 27.57880 | 2.787044 | 5.965046 | .0057575 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1617317 |
| Stddev | .0002857 |
| %RSD | .1766332 |
| #1 | .1615986 |
| #2 | .1620596 |
| #3 | .1615368 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5560.527 | 99159.46 | 12149.22 | 4171.997 | 6791.157 |
| Stddev | 3.673 | 111.89 | 34.53 | 10.055 | 3.549 |
| %RSD | .0660557 | .1128427 | .2841944 | .2410012 | .0522644 |
| #1 | 5563.995 | 99047.36 | 12177.95 | 4179.607 | 6787.081 |
| #2 | 5556.679 | 99271.14 | 12158.79 | 4175.784 | 6792.826 |
| #3 | 5560.908 | 99159.90 | 12110.92 | 4160.598 | 6793.565 |

Sample Name: Q2815-01 Acquired: 8/14/2025 15:27:37 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0565352 | -.001053 | .3532355 | .0088579 | .0014412 | 107.3299 |
| Stddev | .0023970 | .002342 | .0004842 | .0014777 | .0022497 | .3846 |
| %RSD | 4.239799 | 222.4517 | .1370741 | 16.68183 | 156.0925 | .3582987 |
| #1 | .0579269 | .001609 | .3528589 | .0071967 | .0006825 | 107.0309 |
| #2 | .0537675 | -.001968 | .3530659 | .0093512 | .0039722 | 107.1950 |
| #3 | .0579114 | -.002800 | .3537816 | .0100258 | -.000331 | 107.7637 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2008060 | .0043480 | .0050632 | 57.28931 | .1794203 | .0365315 |
| Stddev | .0007060 | .0000319 | .0000856 | .18300 | .0002625 | .0001106 |
| %RSD | .3515787 | .7347721 | 1.691288 | .3194310 | .1463066 | .3026219 |
| #1 | .2016038 | .0043604 | .0049962 | 57.14335 | .1793798 | .0366569 |
| #2 | .2005523 | .0043117 | .0050336 | 57.22997 | .1797007 | .0364895 |
| #3 | .2002619 | .0043718 | .0051597 | 57.49462 | .1791803 | .0364481 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1453335 | 116.9640 | .5104626 | 55.85419 | .0884110 | .0079761 |
| Stddev | .0001288 | .4530 | .0003782 | .26624 | .0006827 | .0002635 |
| %RSD | .0886009 | .3873241 | .0740808 | .4766627 | .7722111 | 3.303065 |
| #1 | .1452056 | 117.3949 | .5101906 | 55.66663 | .0891965 | .0082788 |
| #2 | .1454631 | 117.0053 | .5103028 | 55.73703 | .0879600 | .0077987 |
| #3 | .1453318 | 116.4917 | .5108944 | 56.15892 | .0880765 | .0078508 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 703.7469 | .2293501 | .6735897 | 67.84187 | .7383080 | .0205925 |
| Stddev | 6.0099 | .0004461 | .0011587 | .23562 | .0010495 | .0003487 |
| %RSD | .8539887 | .1945298 | .1720226 | .3473059 | .1421520 | 1.693337 |
| #1 | 710.6070 | .2289207 | .6730446 | 67.96888 | .7387019 | .0206845 |
| #2 | 699.4096 | .2293183 | .6728040 | 67.98674 | .7371185 | .0202070 |
| #3 | 701.2239 | .2298113 | .6749204 | 67.57000 | .7391036 | .0208860 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2815-01 Acquired: 8/14/2025 15:27:37 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.011405** | **3.109903** | F **116.9198** | **5.943075** | F **74.48156** | **.1359419** |
| Stddev | .000286 | .011923 | .0911 | .009799 | .27582 | .0011447 |
| %RSD | 2.504547 | .3833867 | .0779062 | .1648871 | .3703176 | .8420691 |
| #1 | -.011191 | 3.096136 | 116.9623 | 5.953338 | 74.16991 | .1372246 |
| #2 | -.011295 | 3.116949 | 116.9820 | 5.933816 | 74.58053 | .1355769 |
| #3 | -.011729 | 3.116622 | 116.8153 | 5.942071 | 74.69423 | .1350242 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | **.4122308** |
| Stddev | .0004741 |
| %RSD | .1150059 |
| #1 | .4116927 |
| #2 | .4125869 |
| #3 | .4124129 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5326.859** | **94519.94** | **12765.43** | **3984.551** | **5736.340** |
| Stddev | 9.733 | 90.12 | 57.92 | 11.283 | 8.409 |
| %RSD | .1827247 | .0953430 | .4537209 | .2831575 | .1465950 |
| #1 | 5328.743 | 94433.95 | 12802.58 | 3996.473 | 5742.243 |
| #2 | 5335.513 | 94613.68 | 12795.02 | 3983.139 | 5740.065 |
| #3 | 5316.322 | 94512.18 | 12698.69 | 3974.040 | 5726.712 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: CCV04 Acquired: 8/14/2025 15:58:09 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.091239** | **5.205269** | **4.810086** | **5.211242** | **5.182375** | **9.866869** | **9.791639** |
| Stddev | .008802 | .138034 | .001888 | .028938 | .011414 | .023901 | .084824 |
| %RSD | .1728854 | 2.651819 | .0392532 | .5553069 | .2202489 | .2422357 | .8662925 |
| #1 | 5.081255 | 5.098068 | 4.809673 | 5.186353 | 5.170829 | 9.855954 | 9.755149 |
| #2 | 5.094588 | 5.156719 | 4.808439 | 5.204379 | 5.182643 | 9.850374 | 9.731167 |
| #3 | 5.097876 | 5.361018 | 4.812147 | 5.242995 | 5.193653 | 9.894279 | 9.888602 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2315329** | **2.413055** | **24.23797** | **1.001789** | **2.426567** | **1.255007** | **5.209976** |
| Stddev | .0012500 | .000638 | .05866 | .001869 | .000097 | .001968 | .048177 |
| %RSD | .5398844 | .0264316 | .2420039 | .1865195 | .0039787 | .1568446 | .9247037 |
| #1 | .2309713 | 2.412319 | 24.19548 | .999651 | 2.426582 | 1.252908 | 5.173154 |
| #2 | .2306623 | 2.413449 | 24.21355 | 1.003109 | 2.426655 | 1.256811 | 5.264500 |
| #3 | .2329653 | 2.413396 | 24.30490 | 1.002608 | 2.426464 | 1.255303 | 5.192274 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.407048** | **24.00627** | **2.438274** | **1.257796** | **25.09967** | **2.473524** | **2.580288** |
| Stddev | .005488 | .12529 | .001938 | .001225 | .16353 | .008099 | .007750 |
| %RSD | .2279798 | .5219249 | .0794658 | .0974056 | .6515324 | .3274098 | .3003427 |
| #1 | 2.400821 | 23.92343 | 2.438837 | 1.256382 | 25.10743 | 2.471136 | 2.574638 |
| #2 | 2.409151 | 23.94496 | 2.439869 | 1.258494 | 25.25918 | 2.466888 | 2.589123 |
| #3 | 2.411174 | 24.15041 | 2.436118 | 1.258513 | 24.93240 | 2.482548 | 2.577104 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **26.48879** | **4.615020** | **5.148940** | **4.865328** | **4.931188** | **5.279719** | **4.653831** |
| Stddev | .19783 | .037780 | .014139 | .008511 | .015143 | .023656 | .004056 |
| %RSD | .7468305 | .8186340 | .2746052 | .1749378 | .3070861 | .4480476 | .0871486 |
| #1 | 26.37815 | 4.595789 | 5.133156 | 4.862980 | 4.915181 | 5.275826 | 4.649800 |
| #2 | 26.71719 | 4.590725 | 5.153218 | 4.858236 | 4.933100 | 5.305079 | 4.653782 |
| #3 | 26.37104 | 4.658547 | 5.160446 | 4.874766 | 4.945285 | 5.258251 | 4.657911 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: CCV04 Acquired: 8/14/2025 15:58:09 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **4.858388** | **4.805736** | **4.928534** |
| Stddev | .024092 | .010999 | .068073 |
| %RSD | .4958766 | .2288670 | 1.381208 |
| #1 | 4.842569 | 4.793642 | 4.850024 |
| #2 | 4.846479 | 4.815140 | 4.964455 |
| #3 | 4.886114 | 4.808425 | 4.971123 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5528.587** | **98071.32** | **11889.89** | **4119.864** | **6748.720** |
| Stddev | 23.286 | 184.81 | 98.23 | 12.410 | 15.568 |
| %RSD | .4211996 | .1884475 | .8261850 | .3012188 | .2306782 |
| #1 | 5551.541 | 98283.63 | 11929.07 | 4130.826 | 6763.560 |
| #2 | 5504.981 | 97983.90 | 11962.48 | 4106.391 | 6732.514 |
| #3 | 5529.239 | 97946.44 | 11778.11 | 4122.375 | 6750.085 |

Sample Name: CCB04 Acquired: 8/14/2025 16:02:18 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000387** | **-.001271** | **.0000375** | **-.002513** | **.0006442** | **-.006006** | **-.009450** |
| Stddev | .002271 | .001425 | .0005098 | .001114 | .0015734 | .006387 | .000816 |
| %RSD | 587.2929 | 112.0995 | 1361.432 | 44.32010 | 244.2493 | 106.3546 | 8.639516 |
| #1 | .001655 | -.000664 | .0006253 | -.003705 | .0023653 | -.005537 | -.009757 |
| #2 | -.002832 | -.002900 | -.000283 | -.002335 | -.000720 | .000134 | -.010069 |
| #3 | .000017 | -.000250 | -.000230 | -.001499 | .000287 | -.012614 | -.008525 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000034** | **.0000243** | **.0141263** | **.0004936** | **-.000169** | **-.000110** | **.0023195** |
| Stddev | .000050 | .0000202 | .0069767 | .0001021 | .000117 | .000388 | .0013213 |
| %RSD | 148.1989 | 82.86081 | 49.38837 | 20.68110 | 69.65402 | 352.2736 | 56.96315 |
| #1 | -.000076 | .0000054 | .0070500 | .0004718 | -.000159 | -.000552 | .0014295 |
| #2 | .000021 | .0000220 | .0209990 | .0004041 | -.000056 | .000180 | .0038377 |
| #3 | -.000047 | .0000456 | .0143299 | .0006048 | -.000291 | .000041 | .0016913 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000916** | **.0075759** | **.0002725** | **.0008765** | **.5051759** | **.0005797** | **.0007897** |
| Stddev | .0003187 | .0115526 | .0002303 | .0003211 | .0201361 | .0013902 | .0001076 |
| %RSD | 348.0783 | 152.4915 | 84.53669 | 36.63511 | 3.985958 | 239.8074 | 13.62168 |
| #1 | .0001397 | -.000178 | .0003332 | .0006782 | .4821103 | -.000747 | .0008889 |
| #2 | .0003835 | .020853 | .0004663 | .0007044 | .5141703 | .000461 | .0008050 |
| #3 | -.000248 | .002052 | .0000179 | .0012470 | .5192473 | .002025 | .0006754 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4003878** | **.0095149** | **.0004594** | **-.013944** | **.0007333** | **.0169905** | **-.000994** |
| Stddev | .0199747 | .0005624 | .0000839 | .000614 | .0013177 | .0092490 | .001699 |
| %RSD | 4.988844 | 5.910420 | 18.25921 | 4.399664 | 179.7070 | 54.43594 | 171.0291 |
| #1 | .4226763 | .0099201 | .0005343 | -.013259 | .0021653 | .0197187 | -.002381 |
| #2 | .3841047 | .0097518 | .0003688 | -.014442 | -.000428 | .0245685 | .000902 |
| #3 | .3943825 | .0088729 | .0004750 | -.014132 | .000463 | .0066844 | -.001502 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: CCB04 Acquired: 8/14/2025 16:02:18 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0035333 | .0068665 | -.000027 |
| Stddev | .0016847 | .0008056 | .000029 |
| %RSD | 47.68129 | 11.73167 | 106.7305 |
| #1 | .0054379 | .0066381 | -.000060 |
| #2 | .0029243 | .0061998 | -.000007 |
| #3 | .0022378 | .0077616 | -.000014 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5693.353 | 101084.1 | 11633.61 | 4221.058 | 7505.411 |
| Stddev | 14.734 | 202.2 | 38.13 | 11.422 | 21.178 |
| %RSD | .2587859 | .2000611 | .3277659 | .2706043 | .2821644 |
| #1 | 5687.366 | 101003.8 | 11672.82 | 4227.669 | 7493.856 |
| #2 | 5710.138 | 100934.3 | 11631.37 | 4207.868 | 7529.852 |
| #3 | 5682.556 | 101314.1 | 11596.65 | 4227.636 | 7492.524 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2815-11 Acquired: 8/14/2025 16:06:36 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0748352** | **-.001173** | **.1992513** | **.0045185** | **.0011063** | **56.42529** |
| Stddev | .0008615 | .001450 | .0018940 | .0009036 | .0012886 | .03761 |
| %RSD | 1.151198 | 123.6198 | .9505359 | 19.99748 | 116.4718 | .0666482 |
| #1 | .0738573 | -.000849 | .1988027 | .0041381 | .0013433 | 56.44853 |
| #2 | .0754822 | .000088 | .1976220 | .0055501 | .0022600 | 56.38191 |
| #3 | .0751662 | -.002758 | .2013293 | .0038673 | -.000284 | 56.44545 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2268818** | **.0061979** | **.0026146** | **38.50730** | **.1095624** | **.0147473** |
| Stddev | .0006689 | .0000568 | .0000811 | .07951 | .0004820 | .0001881 |
| %RSD | .2947996 | .9162501 | 3.101722 | .2064886 | .4399175 | 1.275233 |
| #1 | .2276021 | .0062530 | .0026688 | 38.58651 | .1091290 | .0149495 |
| #2 | .2262803 | .0062013 | .0025213 | 38.50788 | .1100815 | .0147148 |
| #3 | .2267631 | .0061395 | .0026535 | 38.42749 | .1094769 | .0145776 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2386430** | **62.20659** | **.4958017** | **27.11319** | **.0448741** | **.0040097** |
| Stddev | .0005087 | .28610 | .0014998 | .03673 | .0003612 | .0004762 |
| %RSD | .2131427 | .4599112 | .3025016 | .1354726 | .8049865 | 11.87702 |
| #1 | .2381818 | 62.37073 | .4965992 | 27.11808 | .0448187 | .0044170 |
| #2 | .2385588 | 62.37280 | .4967344 | 27.14723 | .0452599 | .0041259 |
| #3 | .2391886 | 61.87624 | .4940717 | 27.07426 | .0445438 | .0034861 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **117.7961** | **.1207738** | **.6570086** | **24.40206** | **.2650387** | **.0074790** |
| Stddev | .4372 | .0016398 | .0018485 | .08315 | .0016561 | .0002869 |
| %RSD | .3711534 | 1.357759 | .2813445 | .3407408 | .6248426 | 3.836370 |
| #1 | 118.0489 | .1218198 | .6549902 | 24.48365 | .2659657 | .0077822 |
| #2 | 118.0481 | .1188839 | .6574166 | 24.40509 | .2660238 | .0072117 |
| #3 | 117.2913 | .1216176 | .6586189 | 24.31744 | .2631268 | .0074431 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2815-11 Acquired: 8/14/2025 16:06:36 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.014952 | 1.581533 | F 70.02855 | 4.641695 | 15.27565 | .0576091 |
| Stddev | .000688 | .002616 | .19597 | .018379 | .06155 | .0008394 |
| %RSD | 4.600948 | .1654056 | .2798496 | .3959641 | .4029049 | 1.457021 |
| #1 | -.015196 | 1.584323 | 70.04156 | 4.661175 | 15.32513 | .0574614 |
| #2 | -.015485 | 1.579136 | 70.21769 | 4.624661 | 15.20673 | .0568533 |
| #3 | -.014175 | 1.581139 | 69.82639 | 4.639250 | 15.29509 | .0585125 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2533606 |
| Stddev | .0003617 |
| %RSD | .1427544 |
| #1 | .2536372 |
| #2 | .2529513 |
| #3 | .2534932 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5588.640 | 99146.67 | 12377.69 | 4177.904 | 6561.999 |
| Stddev | 6.647 | 105.16 | 21.88 | 6.471 | 7.511 |
| %RSD | .1189309 | .1060694 | .1767667 | .1548887 | .1144646 |
| #1 | 5588.130 | 99040.63 | 12368.87 | 4179.401 | 6569.131 |
| #2 | 5595.527 | 99148.45 | 12402.60 | 4183.496 | 6562.706 |
| #3 | 5582.263 | 99250.93 | 12361.60 | 4170.816 | 6554.159 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2815-20 Acquired: 8/14/2025 16:10:40 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0219923** | **.0014259** | **.0833571** | **.0020685** | **.0012171** | **24.98818** |
| Stddev | .0023822 | .0002449 | .0004467 | .0031513 | .0024634 | .03471 |
| %RSD | 10.83215 | 17.17539 | .5359298 | 152.3441 | 202.3900 | .1389211 |
| #1 | .0219954 | .0017015 | .0829071 | -.000736 | .0040099 | 25.02366 |
| #2 | .0243730 | .0013428 | .0838005 | .001463 | .0002884 | 24.98658 |
| #3 | .0196085 | .0012333 | .0833637 | .005479 | -.000647 | 24.95429 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1080696** | **.0054056** | **.0025182** | **76.10581** | **.0800970** | **.0083801** |
| Stddev | .0006302 | .0000126 | .0000665 | .17101 | .0003407 | .0000943 |
| %RSD | .5831742 | .2340888 | 2.641739 | .2247008 | .4253705 | 1.125144 |
| #1 | .1074838 | .0054066 | .0025465 | 76.12733 | .0802203 | .0084784 |
| #2 | .1079888 | .0054177 | .0024423 | 75.92507 | .0803588 | .0082904 |
| #3 | .1087364 | .0053925 | .0025660 | 76.26505 | .0797117 | .0083714 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0539224** | **28.96528** | **.2676475** | **11.86574** | **.0336417** | **.0024172** |
| Stddev | .0002666 | .08441 | .0008707 | .07393 | .0003765 | .0001116 |
| %RSD | .4944538 | .2914054 | .3253294 | .6230872 | 1.119074 | 4.617545 |
| #1 | .0536200 | 28.89266 | .2671935 | 11.91306 | .0332783 | .0022885 |
| #2 | .0540237 | 28.94529 | .2686514 | 11.78054 | .0336167 | .0024878 |
| #3 | .0541235 | 29.05788 | .2670975 | 11.90361 | .0340301 | .0024753 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **29.25300** | **.0637814** | **.3395026** | **10.99310** | **.1021016** | **.0070533** |
| Stddev | .08741 | .0023202 | .0002605 | .03324 | .0009951 | .0001913 |
| %RSD | .2988143 | 3.637693 | .0767246 | .3023617 | .9746257 | 2.711603 |
| #1 | 29.35119 | .0656818 | .3392166 | 11.02781 | .1011785 | .0070840 |
| #2 | 29.18366 | .0644667 | .3397263 | 10.98993 | .1019706 | .0072273 |
| #3 | 29.22416 | .0611958 | .3395649 | 10.96156 | .1031558 | .0068485 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2815-20 Acquired: 8/14/2025 16:10:40 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.016495 | .6621279 | F 45.55595 | 2.012158 | 11.65105 | .0197793 |
| Stddev | .000082 | .0013825 | .06694 | .003056 | .02486 | .0012173 |
| %RSD | .4969474 | .2088005 | .1469338 | .1518994 | .2133430 | 6.154244 |
| #1 | -.016587 | .6630101 | 45.48894 | 2.015176 | 11.67933 | .0211678 |
| #2 | -.016428 | .6628390 | 45.62282 | 2.012232 | 11.63269 | .0188958 |
| #3 | -.016472 | .6605345 | 45.55608 | 2.009065 | 11.64111 | .0192744 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3996071 |
| Stddev | .0006872 |
| %RSD | .1719582 |
| #1 | .4003997 |
| #2 | .3992427 |
| #3 | .3991789 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5580.543 | 99864.09 | 12307.10 | 4163.881 | 6821.111 |
| Stddev | 8.895 | 129.83 | 47.92 | 14.739 | 3.584 |
| %RSD | .1593964 | .1300021 | .3893608 | .3539703 | .0525405 |
| #1 | 5589.407 | 99988.91 | 12328.49 | 4151.213 | 6824.956 |
| #2 | 5580.605 | 99873.57 | 12340.61 | 4160.372 | 6817.863 |
| #3 | 5571.617 | 99729.78 | 12252.22 | 4180.057 | 6820.513 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2815-25 Acquired: 8/14/2025 16:14:48 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0235998 | -.000436 | .0852755 | .0007801 | .0033237 | 26.27676 |
| Stddev | .0009303 | .001538 | .0018048 | .0010877 | .0017776 | .04422 |
| %RSD | 3.941815 | 352.6395 | 2.116403 | 139.4290 | 53.48208 | .1682917 |
| #1 | .0227738 | -.001959 | .0867815 | .0008651 | .0022373 | 26.22664 |
| #2 | .0246075 | .001116 | .0857700 | .0018228 | .0023588 | 26.29335 |
| #3 | .0234180 | -.000466 | .0832750 | -.000348 | .0053751 | 26.31028 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1131779 | .0055665 | .0026027 | 77.66342 | .0837912 | .0088290 |
| Stddev | .0002655 | .0000584 | .0000774 | .27947 | .0002111 | .0000773 |
| %RSD | .2345632 | 1.049594 | 2.972328 | .3598495 | .2519509 | .8750528 |
| #1 | .1129833 | .0056156 | .0026662 | 77.34593 | .0840339 | .0088352 |
| #2 | .1130701 | .0055019 | .0026253 | 77.77214 | .0836891 | .0087488 |
| #3 | .1134804 | .0055820 | .0025166 | 77.87219 | .0836505 | .0089029 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0562180 | 30.32269 | .2764289 | 12.13920 | .0350844 | .0022891 |
| Stddev | .0001273 | .21346 | .0016264 | .02728 | .0001712 | .0000922 |
| %RSD | .2265091 | .7039561 | .5883544 | .2247486 | .4878186 | 4.029014 |
| #1 | .0560709 | 30.08266 | .2750418 | 12.10959 | .0349660 | .0022592 |
| #2 | .0562903 | 30.39421 | .2760261 | 12.14470 | .0350065 | .0022156 |
| #3 | .0562927 | 30.49121 | .2782188 | 12.16331 | .0352806 | .0023926 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 30.16892 | .0666047 | .3492542 | 11.34592 | .1050855 | .0069142 |
| Stddev | .17654 | .0013275 | .0012815 | .03612 | .0006458 | .0000544 |
| %RSD | .5851552 | 1.993138 | .3669339 | .3183636 | .6145657 | .7874119 |
| #1 | 29.98375 | .0652933 | .3477749 | 11.30503 | .1044204 | .0068526 |
| #2 | 30.18769 | .0665729 | .3499592 | 11.37349 | .1051258 | .0069560 |
| #3 | 30.33532 | .0679478 | .3500284 | 11.35925 | .1057102 | .0069340 |

Sample Name: Q2815-25 Acquired: 8/14/2025 16:14:48 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.016016 | .6983031 | F 47.46522 | 2.058551 | 11.96989 | .0222929 |
| Stddev | .000496 | .0021769 | .27764 | .004477 | .06305 | .0002781 |
| %RSD | 3.099872 | .3117471 | .5849396 | .2174682 | .5267177 | 1.247544 |
| #1 | -.016481 | .6966154 | 47.14522 | 2.053934 | 12.04264 | .0220252 |
| #2 | -.016074 | .6975337 | 47.64211 | 2.058846 | 11.93116 | .0225804 |
| #3 | -.015493 | .7007603 | 47.60833 | 2.062873 | 11.93587 | .0222731 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .4081616 |
| Stddev | .0014091 |
| %RSD | .3452375 |
| #1 | .4075640 |
| #2 | .4071498 |
| #3 | .4097711 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5592.162 | 99742.94 | 12273.98 | 4185.762 | 6828.796 |
| Stddev | 7.276 | 206.35 | 43.60 | 5.338 | 16.425 |
| %RSD | .1301065 | .2068833 | .3552396 | .1275282 | .2405259 |
| #1 | 5586.136 | 99929.32 | 12253.28 | 4187.192 | 6814.037 |
| #2 | 5590.106 | 99778.30 | 12324.08 | 4190.240 | 6825.861 |
| #3 | 5600.245 | 99521.19 | 12244.59 | 4179.855 | 6846.491 |

Sample Name: Q2815-26 Acquired: 8/14/2025 16:18:55 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.003043** | **-.001228** | **-.000043** | **.0016271** | **.0018905** | **-.007404** | **-.007518** |
| Stddev | .001410 | .001198 | .001206 | .0011522 | .0007671 | .001836 | .001303 |
| %RSD | 46.32076 | 97.51453 | 2801.843 | 70.81020 | 40.57607 | 24.80109 | 17.33405 |
| #1 | -.002292 | -.002103 | -.001435 | .0022909 | .0027484 | -.005432 | -.006360 |
| #2 | -.002168 | -.001718 | .000657 | .0022937 | .0016523 | -.009064 | -.008929 |
| #3 | -.004669 | .000137 | .000649 | .0002967 | .0012708 | -.007716 | -.007265 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000186** | **.0000028** | **.0476487** | **.0000685** | **-.000401** | **-.000438** | **.0020554** |
| Stddev | .000021 | .0000195 | .0121060 | .0002840 | .000141 | .000237 | .0057517 |
| %RSD | 11.03842 | 689.6641 | 25.40671 | 414.4919 | 35.28994 | 54.00946 | 279.8308 |
| #1 | -.000198 | .0000227 | .0376334 | .0000592 | -.000288 | -.000308 | .0010114 |
| #2 | -.000163 | .0000019 | .0442111 | -.000211 | -.000354 | -.000712 | -.003103 |
| #3 | -.000198 | -.000016 | .0611018 | .000357 | -.000560 | -.000296 | .008258 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0004661** | **.0039589** | **-.000203** | **.0008989** | **-.097692** | **-.000321** | **.0030520** |
| Stddev | .0000959 | .0168327 | .000076 | .0001276 | .001500 | .002044 | .0000962 |
| %RSD | 20.57970 | 425.1897 | 37.33998 | 14.19074 | 1.535435 | 637.1902 | 3.153275 |
| #1 | .0003917 | .0203514 | -.000224 | .0008089 | -.095969 | -.001605 | .0029576 |
| #2 | .0004321 | -.013282 | -.000266 | .0008430 | -.098709 | .002036 | .0030483 |
| #3 | .0005743 | .004807 | -.000119 | .0010449 | -.098397 | -.001393 | .0031500 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0074510** | **.0004919** | **.0004233** | **-.015673** | **.0012875** | **.0074626** | **.0035620** |
| Stddev | .0367598 | .0001478 | .0000642 | .000617 | .0009199 | .0080483 | .0011652 |
| %RSD | 493.3511 | 30.04523 | 15.15390 | 3.935997 | 71.44920 | 107.8490 | 32.71177 |
| #1 | -.030638 | .0005150 | .0004709 | -.015619 | .0006412 | .0011539 | .0048770 |
| #2 | .010271 | .0006269 | .0004487 | -.016315 | .0023407 | .0047071 | .0026581 |
| #3 | .042719 | .0003340 | .0003503 | -.015084 | .0008806 | .0165267 | .0031509 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2815-26 Acquired: 8/14/2025 16:18:55 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0100569 | -.006460 | -.000032 |
| Stddev | .0021309 | .001534 | .000040 |
| %RSD | 21.18834 | 23.75020 | 123.4513 |
| #1 | .0125143 | -.004712 | .000012 |
| #2 | .0087201 | -.007088 | -.000065 |
| #3 | .0089363 | -.007581 | -.000044 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5804.358 | 105671.7 | 11967.79 | 4311.526 | 7746.384 |
| Stddev | 6.673 | 272.7 | 25.16 | 20.909 | 6.961 |
| %RSD | .1149632 | .2581085 | .2102601 | .4849468 | .0898659 |
| #1 | 5801.352 | 105382.2 | 11990.35 | 4325.051 | 7746.120 |
| #2 | 5812.005 | 105708.9 | 11972.37 | 4287.443 | 7753.474 |
| #3 | 5799.716 | 105923.9 | 11940.65 | 4322.082 | 7739.559 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2821-05 Acquired: 8/14/2025 16:23:16 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0243442** | **.0044831** | **.0104582** | **.0028700** | **.0069288** | **.7977559** |
| Stddev | .0007826 | .0009441 | .0016845 | .0017995 | .0012298 | .0114700 |
| %RSD | 3.214895 | 21.05979 | 16.10651 | 62.70104 | 17.74893 | 1.437780 |
| #1 | .0252375 | .0053573 | .0085187 | .0008063 | .0079047 | .7881874 |
| #2 | .0237789 | .0034819 | .0113013 | .0041119 | .0055475 | .8104707 |
| #3 | .0240162 | .0046100 | .0115546 | .0036919 | .0073342 | .7946098 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.9506210** | **-.000068** | **.0000924** | **138.1940** | **.0021169** | **.0010942** |
| Stddev | .0035190 | .000064 | .0000452 | .3605 | .0001682 | .0000515 |
| %RSD | .3701779 | 94.99761 | 48.94886 | .2608357 | 7.945452 | 4.706943 |
| #1 | .9545601 | -.000002 | .0000726 | 138.4965 | .0022976 | .0010476 |
| #2 | .9495151 | -.000131 | .0000604 | 137.7952 | .0019650 | .0011495 |
| #3 | .9477878 | -.000070 | .0001441 | 138.2905 | .0020879 | .0010854 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0050414** | **1.925624** | **.6023131** | **21.45769** | **.0048908** | **.0012790** |
| Stddev | .0002938 | .009269 | .0020837 | .05812 | .0000938 | .0002992 |
| %RSD | 5.826866 | .4813349 | .3459540 | .2708513 | 1.918455 | 23.39570 |
| #1 | .0047249 | 1.922444 | .6046900 | 21.50101 | .0048054 | .0010817 |
| #2 | .0053052 | 1.918364 | .6008013 | 21.39164 | .0049912 | .0011320 |
| #3 | .0050942 | 1.936065 | .6014479 | 21.48041 | .0048757 | .0016233 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **665.9786** | **.0245319** | **.0125254** | **18.39186** | **.5843123** | **.0502821** |
| Stddev | 5.1593 | .0018524 | .0001284 | .11062 | .0049388 | .0001291 |
| %RSD | .7746883 | 7.550833 | 1.024813 | .6014725 | .8452277 | .2567222 |
| #1 | 670.7859 | .0244599 | .0124571 | 18.28093 | .5899933 | .0504222 |
| #2 | 660.5278 | .0264192 | .0124457 | 18.39249 | .5819038 | .0501679 |
| #3 | 666.6221 | .0227166 | .0126735 | 18.50217 | .5810399 | .0502563 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2821-05 Acquired: 8/14/2025 16:23:16 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.013079** | **.0134203** | F **20.04536** | **.1812955** | **7.748968** | **-.014363** |
| Stddev | .000397 | .0004328 | .11512 | .0045378 | .030190 | .001119 |
| %RSD | 3.036759 | 3.224833 | .5743073 | 2.503007 | .3896034 | 7.792680 |
| #1 | -.013458 | .0136037 | 19.94970 | .1760627 | 7.716658 | -.015652 |
| #2 | -.012666 | .0137312 | 20.01325 | .1841465 | 7.753787 | -.013796 |
| #3 | -.013114 | .0129260 | 20.17313 | .1836773 | 7.776459 | -.013641 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | **1.143160** |
| Stddev | .002720 |
| %RSD | .2379445 |
| #1 | 1.145870 |
| #2 | 1.143182 |
| #3 | 1.140429 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **4994.031** | **89741.39** | **11784.70** | **3731.419** | **5820.068** |
| Stddev | 8.042 | 190.58 | 64.09 | 8.355 | 4.339 |
| %RSD | .1610263 | .2123713 | .5438231 | .2239145 | .0745554 |
| #1 | 4985.722 | 89680.87 | 11710.71 | 3737.639 | 5819.071 |
| #2 | 5001.775 | 89954.89 | 11822.93 | 3734.696 | 5824.819 |
| #3 | 4994.597 | 89588.42 | 11820.46 | 3721.922 | 5816.314 |

Sample Name: Q2821-08 Acquired: 8/14/2025 16:27:38 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000703** | **.0028602** | **-.001164** | **.0015668** | **.0038354** | **.2807029** |
| Stddev | .002376 | .0003845 | .000545 | .0030863 | .0012513 | .0180291 |
| %RSD | 337.8576 | 13.44425 | 46.87402 | 196.9850 | 32.62373 | 6.422844 |
| #1 | .001565 | .0033023 | -.001368 | .0050925 | .0052562 | .2601021 |
| #2 | -.000501 | .0026034 | -.001577 | .0002528 | .0028976 | .2884041 |
| #3 | -.003174 | .0026749 | -.000545 | -.000645 | .0033526 | .2936024 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5392230** | **-.000368** | **.0003404** | **163.4147** | **.0012763** | **.0007468** |
| Stddev | .0028557 | .000047 | .0000139 | .5227 | .0001506 | .0001401 |
| %RSD | .5295984 | 12.74836 | 4.086765 | .3198349 | 11.80240 | 18.75563 |
| #1 | .5361871 | -.000399 | .0003540 | 163.3138 | .0013925 | .0005887 |
| #2 | .5396264 | -.000391 | .0003409 | 162.9499 | .0011061 | .0008555 |
| #3 | .5418556 | -.000314 | .0003262 | 163.9805 | .0013304 | .0007962 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0065069** | **3.712539** | **4.294986** | **26.18069** | **.0022604** | **.0007856** |
| Stddev | .0003532 | .009871 | .021503 | .18720 | .0003560 | .0001853 |
| %RSD | 5.428292 | .2658813 | .5006623 | .7150443 | 15.74891 | 23.58247 |
| #1 | .0064295 | 3.707679 | 4.275358 | 26.16346 | .0026710 | .0006527 |
| #2 | .0061989 | 3.723898 | 4.291630 | 26.00269 | .0020713 | .0009972 |
| #3 | .0068924 | 3.706041 | 4.317970 | 26.37591 | .0020389 | .0007068 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1160.186** | **-.001417** | **1.303350** | **21.86823** | **3.071963** | **.0124817** |
| Stddev | 15.520 | .003672 | .000477 | .10861 | .020184 | .0001820 |
| %RSD | 1.337674 | 259.1064 | .0365854 | .4966392 | .6570269 | 1.458337 |
| #1 | 1169.336 | -.000258 | 1.303255 | 21.80382 | 3.071082 | .0125829 |
| #2 | 1168.955 | .001535 | 1.303867 | 21.99362 | 3.052235 | .0122716 |
| #3 | 1142.267 | -.005529 | 1.302928 | 21.80724 | 3.092573 | .0125907 |

Sample Name: Q2821-08 Acquired: 8/14/2025 16:27:38 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.015267 | .0020616 | F 18.22625 | .0977861 | F 123.3071 | -.026425 |
| Stddev | .000694 | .0005393 | .04713 | .0011681 | .1262 | .000408 |
| %RSD | 4.545298 | 26.16156 | .2585801 | 1.194562 | .1023549 | 1.543614 |
| #1 | -.015880 | .0015717 | 18.24123 | .0989597 | 123.4243 | -.026024 |
| #2 | -.014514 | .0019734 | 18.26407 | .0977752 | 123.1735 | -.026413 |
| #3 | -.015408 | .0026396 | 18.17345 | .0966235 | 123.3236 | -.026839 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .8618744 |
| Stddev | .0029316 |
| %RSD | .3401365 |
| #1 | .8584900 |
| #2 | .8636243 |
| #3 | .8635089 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 4729.398 | 84208.75 | 11393.83 | 3519.626 | 5450.331 |
| Stddev | 2.264 | 273.18 | 45.15 | 12.812 | .853 |
| %RSD | .0478686 | .3244103 | .3963049 | .3640173 | .0156477 |
| #1 | 4731.998 | 83909.96 | 11383.10 | 3530.357 | 5450.949 |
| #2 | 4727.865 | 84270.55 | 11443.38 | 3505.441 | 5450.687 |
| #3 | 4728.331 | 84445.74 | 11355.00 | 3523.079 | 5449.358 |

Sample Name: Q2837-01 Acquired: 8/14/2025 16:31:57 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000612** | **.0027725** | **.0035835** | **.0008435** | **.0040073** | **.9354059** |
| Stddev | .003815 | .0015669 | .0011886 | .0013559 | .0013358 | .0058046 |
| %RSD | 623.4193 | 56.51741 | 33.16792 | 160.7416 | 33.33418 | .6205447 |
| #1 | -.000994 | .0019194 | .0031537 | .0007612 | .0029802 | .9341763 |
| #2 | -.004222 | .0045809 | .0049272 | -.000469 | .0035243 | .9417269 |
| #3 | .003379 | .0018172 | .0026696 | .002239 | .0055175 | .9303147 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4770064** | **-.000042** | **.0000143** | **529.6286** | **.0569228** | **.0039740** |
| Stddev | .0019255 | .000030 | .0000618 | 6.4519 | .0003914 | .0002748 |
| %RSD | .4036556 | 72.55607 | 433.1711 | 1.218186 | .6876568 | 6.915845 |
| #1 | .4763813 | -.000018 | .0000668 | 532.8301 | .0565926 | .0036658 |
| #2 | .4754712 | -.000031 | -.000054 | 533.8536 | .0573552 | .0040625 |
| #3 | .4791668 | -.000076 | .000030 | 522.2021 | .0568207 | .0041937 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0274179** | **5.683863** | **.0069396** | **.5030078** | **.0477313** | **.0004164** |
| Stddev | .0003889 | .021156 | .0004907 | .0207137 | .0002208 | .0000599 |
| %RSD | 1.418568 | .3722193 | 7.071690 | 4.117964 | .4626385 | 14.37353 |
| #1 | .0272986 | 5.666988 | .0063821 | .5135920 | .0479821 | .0004839 |
| #2 | .0271025 | 5.677001 | .0073061 | .4791405 | .0476456 | .0003959 |
| #3 | .0278525 | 5.707598 | .0071306 | .5162909 | .0475662 | .0003695 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **237.1370** | **.0066658** | **.0145496** | **455.1391** | **.0709828** | **.2323806** |
| Stddev | 2.4359 | .0015852 | .0002506 | 2.2217 | .0007282 | .0006646 |
| %RSD | 1.027205 | 23.78078 | 1.722750 | .4881289 | 1.025855 | .2859828 |
| #1 | 235.0074 | .0080234 | .0142612 | 456.2024 | .0702074 | .2323298 |
| #2 | 239.7931 | .0070502 | .0146734 | 456.6293 | .0710887 | .2330691 |
| #3 | 236.6106 | .0049238 | .0147143 | 452.5856 | .0716522 | .2317429 |

Sample Name: Q2837-01 Acquired: 8/14/2025 16:31:57 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0028271 | -.012560 | 8.670086 | .0401811 | F 262.3472 | .1228581 |
| Stddev | .0007653 | .000709 | .043152 | .0064082 | 1.1781 | .0025091 |
| %RSD | 27.07064 | 5.643222 | .4977060 | 15.94823 | .4490565 | 2.042233 |
| #1 | .0019473 | -.011777 | 8.628985 | .0331149 | 263.0555 | .1235790 |
| #2 | .0031950 | -.012745 | 8.666243 | .0456158 | 262.9989 | .1200676 |
| #3 | .0033390 | -.013157 | 8.715031 | .0418126 | 260.9873 | .1249278 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | 7.441351 |
| Stddev | .029731 |
| %RSD | .3995356 |
| #1 | 7.467018 |
| #2 | 7.448262 |
| #3 | 7.408773 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 4845.993 | 87579.95 | 11433.55 | 3582.493 | 5717.060 |
| Stddev | 6.875 | 408.93 | 46.20 | 19.961 | 11.948 |
| %RSD | .1418680 | .4669239 | .4041066 | .5571872 | .2089840 |
| #1 | 4838.057 | 88045.86 | 11483.94 | 3600.996 | 5704.079 |
| #2 | 4850.115 | 87280.50 | 11393.18 | 3561.339 | 5719.505 |
| #3 | 4849.808 | 87413.50 | 11423.54 | 3585.145 | 5727.596 |

Sample Name: Q2837-01DUP Acquired: 8/14/2025 16:36:44 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0005176** | **.0039287** | **.0036109** | **-.003236** | **.0058951** | **.9016336** |
| Stddev | .0005388 | .0016881 | .0006875 | .002249 | .0010699 | .0029352 |
| %RSD | 104.0850 | 42.96787 | 19.03877 | 69.49494 | 18.14849 | .3255419 |
| #1 | .0010532 | .0019828 | .0037079 | -.005751 | .0053728 | .8983618 |
| #2 | -.000024 | .0048038 | .0042446 | -.001418 | .0071259 | .9040355 |
| #3 | .000524 | .0049996 | .0028800 | -.002538 | .0051868 | .9025037 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4526456** | **-.000025** | **-.000004** | **506.9390** | **.0540100** | **.0037747** |
| Stddev | .0030484 | .000007 | .000074 | 3.1256 | .0001048 | .0002179 |
| %RSD | .6734564 | 29.21229 | 2010.426 | .6165670 | .1940797 | 5.771888 |
| #1 | .4557387 | -.000033 | .000016 | 509.0251 | .0540293 | .0040090 |
| #2 | .4496441 | -.000019 | .000059 | 508.4466 | .0541038 | .0037371 |
| #3 | .4525540 | -.000022 | -.000086 | 503.3453 | .0538969 | .0035781 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0258257** | **5.490307** | **.0065079** | **.4736849** | **.0452744** | **.0002167** |
| Stddev | .0001512 | .034745 | .0002912 | .0280418 | .0004413 | .0003791 |
| %RSD | .5853445 | .6328452 | 4.474160 | 5.919931 | .9746248 | 174.9773 |
| #1 | .0258165 | 5.451358 | .0061850 | .4877683 | .0449722 | .0004956 |
| #2 | .0259813 | 5.501446 | .0067504 | .4918936 | .0450703 | .0003694 |
| #3 | .0256794 | 5.518116 | .0065883 | .4413927 | .0457808 | -.000215 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **224.4899** | **.0067677** | **.0107447** | **433.3540** | **.0643067** | **.2222410** |
| Stddev | .5103 | .0010086 | .0001438 | 2.9742 | .0007599 | .0006835 |
| %RSD | .2273078 | 14.90326 | 1.338509 | .6863300 | 1.181625 | .3075547 |
| #1 | 224.0089 | .0070548 | .0108720 | 432.3638 | .0650320 | .2226537 |
| #2 | 225.0252 | .0056467 | .0107734 | 436.6971 | .0643718 | .2214521 |
| #3 | 224.4357 | .0076016 | .0105887 | 431.0012 | .0635165 | .2226173 |

Sample Name: Q2837-01DUP Acquired: 8/14/2025 16:36:44 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.016748 | -.012942 | 8.275377 | .0384730 | F 247.4088 | .1148681 |
| Stddev | .000353 | .000758 | .064865 | .0011703 | .2486 | .0005681 |
| %RSD | 2.109798 | 5.859759 | .7838317 | 3.041846 | .1004797 | .4945459 |
| #1 | -.016439 | -.012131 | 8.202784 | .0385906 | 247.6751 | .1152484 |
| #2 | -.016673 | -.013062 | 8.327648 | .0372483 | 247.3685 | .1142151 |
| #3 | -.017133 | -.013633 | 8.295700 | .0395800 | 247.1829 | .1151409 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | 7.037833 |
| Stddev | .064138 |
| %RSD | .9113307 |
| #1 | 7.111870 |
| #2 | 6.999210 |
| #3 | 7.002420 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 4882.262 | 88342.12 | 11702.63 | 3612.105 | 5795.182 |
| Stddev | 2.232 | 111.73 | 129.68 | 10.862 | 2.701 |
| %RSD | .0457157 | .1264797 | 1.108163 | .3007150 | .0466142 |
| #1 | 4880.537 | 88248.46 | 11553.57 | 3599.626 | 5796.611 |
| #2 | 4884.783 | 88312.10 | 11789.59 | 3617.257 | 5796.869 |
| #3 | 4881.467 | 88465.79 | 11764.72 | 3619.433 | 5792.067 |

Sample Name: Q2837-01LX5 Acquired: 8/14/2025 16:41:26 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000610** | **.0013588** | **-.000389** | **-.002969** | **-.002322** | **.2047498** |
| Stddev | .000860 | .0007370 | .001047 | .003201 | .001724 | .0070503 |
| %RSD | 140.9382 | 54.23891 | 268.8634 | 107.8401 | 74.27727 | 3.443383 |
| #1 | -.000904 | .0008005 | -.001515 | -.002704 | -.000340 | .2106723 |
| #2 | .000358 | .0021942 | -.000207 | .000092 | -.003480 | .1969512 |
| #3 | -.001284 | .0010818 | .000555 | -.006294 | -.003145 | .2066257 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0870861** | **-.000039** | **.0000297** | **108.8640** | **.0112163** | **.0006254** |
| Stddev | .0009044 | .000032 | .0000486 | .1794 | .0002528 | .0000582 |
| %RSD | 1.038489 | 83.36613 | 163.4089 | .1647790 | 2.254344 | 9.305829 |
| #1 | .0881123 | -.000068 | -.000008 | 109.0326 | .0114031 | .0006095 |
| #2 | .0864053 | -.000043 | .000085 | 108.6755 | .0109286 | .0005768 |
| #3 | .0867408 | -.000004 | .000012 | 108.8840 | .0113172 | .0006899 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0055706** | **1.093411** | **.0010734** | **.1110932** | **.0098233** | **.0010677** |
| Stddev | .0004425 | .011540 | .0001868 | .0111245 | .0001174 | .0001272 |
| %RSD | 7.944171 | 1.055409 | 17.40660 | 10.01368 | 1.195348 | 11.91022 |
| #1 | .0050767 | 1.080796 | .0009310 | .0993921 | .0097916 | .0010133 |
| #2 | .0059311 | 1.103435 | .0010042 | .1215338 | .0097249 | .0012130 |
| #3 | .0057040 | 1.096001 | .0012849 | .1123537 | .0099533 | .0009768 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **41.47351** | **.0014352** | **.0029166** | **84.32401** | **.0141205** | **.0452301** |
| Stddev | .25532 | .0022117 | .0000499 | .34984 | .0002011 | .0001393 |
| %RSD | .6156329 | 154.1023 | 1.711313 | .4148739 | 1.424345 | .3080040 |
| #1 | 41.36717 | .0014092 | .0029502 | 84.03363 | .0141543 | .0450726 |
| #2 | 41.28853 | .0036598 | .0029403 | 84.22601 | .0143026 | .0452804 |
| #3 | 41.76481 | -.000763 | .0028592 | 84.71240 | .0139046 | .0453372 |

Sample Name: Q2837-01LX5 Acquired: 8/14/2025 16:41:26 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.000513 | -.003035 | 1.607270 | .0062285 | F 52.45920 | .0379220 |
| Stddev | .000154 | .000524 | .006490 | .0020371 | .23823 | .0005607 |
| %RSD | 29.93932 | 17.27402 | .4037794 | 32.70640 | .4541253 | 1.478465 |
| #1 | -.000397 | -.003379 | 1.608516 | .0085542 | 52.72243 | .0385543 |
| #2 | -.000687 | -.003294 | 1.613047 | .0047606 | 52.39676 | .0374855 |
| #3 | -.000455 | -.002431 | 1.600248 | .0053706 | 52.25841 | .0377261 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | 1.518608 |
| Stddev | .006720 |
| %RSD | .4424922 |
| #1 | 1.515731 |
| #2 | 1.513805 |
| #3 | 1.526287 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5391.345 | 97464.24 | 11968.65 | 4016.554 | 6633.411 |
| Stddev | 10.584 | 190.97 | 28.37 | 2.621 | 5.614 |
| %RSD | .1963190 | .1959436 | .2370259 | .0652613 | .0846258 |
| #1 | 5403.068 | 97676.96 | 11952.73 | 4018.467 | 6637.147 |
| #2 | 5388.475 | 97307.54 | 11951.82 | 4017.630 | 6636.131 |
| #3 | 5382.492 | 97408.21 | 12001.40 | 4013.566 | 6626.956 |

Sample Name: Q2837-01MS Acquired: 8/14/2025 16:45:43 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8600862** | **1.718191** | **.8882354** | **2.159626** | **.8729981** | **2.816105** |
| Stddev | .0011176 | .036341 | .0028626 | .006278 | .0042557 | .015045 |
| %RSD | .1299457 | 2.115076 | .3222830 | .2906808 | .4874847 | .5342623 |
| #1 | .8610334 | 1.704342 | .8852131 | 2.154125 | .8723088 | 2.812748 |
| #2 | .8603716 | 1.759420 | .8909058 | 2.158288 | .8691292 | 2.832546 |
| #3 | .8588535 | 1.690810 | .8885873 | 2.166464 | .8775565 | 2.803022 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6390089** | **.1705970** | **.1897602** | **497.8931** | **.4435380** | **.1970176** |
| Stddev | .0046707 | .0011586 | .0006880 | 2.9909 | .0009498 | .0005020 |
| %RSD | .7309247 | .6791583 | .3625516 | .6007182 | .2141447 | .2547796 |
| #1 | .6383743 | .1715613 | .1889669 | 500.7833 | .4427164 | .1966435 |
| #2 | .6439644 | .1709181 | .1901200 | 494.8107 | .4433195 | .1968213 |
| #3 | .6346879 | .1693117 | .1901937 | 498.0853 | .4445779 | .1975881 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3162861** | **8.685270** | **.2022725** | **2.206802** | **.5272807** | **.0680437** |
| Stddev | .0002419 | .027520 | .0015677 | .036197 | .0011059 | .0003603 |
| %RSD | .0764678 | .3168570 | .7750342 | 1.640236 | .2097420 | .5295131 |
| #1 | .3160219 | 8.659356 | .2018534 | 2.218359 | .5260044 | .0683071 |
| #2 | .3163400 | 8.714155 | .2040071 | 2.235810 | .5279542 | .0681910 |
| #3 | .3164965 | 8.682299 | .2009569 | 2.166239 | .5278836 | .0676331 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **229.5584** | **.2970745** | **.2349967** | **442.9647** | **.2954125** | **.6465524** |
| Stddev | .6110 | .0049263 | .0002384 | 3.8332 | .0036418 | .0005656 |
| %RSD | .2661675 | 1.658272 | .1014435 | .8653549 | 1.232769 | .0874749 |
| #1 | 228.9785 | .2986405 | .2352117 | 443.1275 | .2982298 | .6463773 |
| #2 | 230.1964 | .3010275 | .2347403 | 439.0526 | .2967075 | .6460951 |
| #3 | 229.5002 | .2915556 | .2350380 | 446.7139 | .2913002 | .6471849 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2837-01MS Acquired: 8/14/2025 16:45:43 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6507833 | .1810180 | 9.157723 | 5.801823 | F 242.7781 | .3217640 |
| Stddev | .0023636 | .0007653 | .024745 | .023480 | .7784 | .0012815 |
| %RSD | .3631933 | .4227713 | .2702134 | .4046938 | .3206254 | .3982732 |
| #1 | .6483902 | .1801672 | 9.135006 | 5.779323 | 242.1658 | .3212712 |
| #2 | .6508432 | .1816500 | 9.154070 | 5.799972 | 243.6541 | .3232188 |
| #3 | .6531163 | .1812369 | 9.184091 | 5.826173 | 242.5142 | .3208021 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | 7.278394 |
| Stddev | .064433 |
| %RSD | .8852572 |
| #1 | 7.292693 |
| #2 | 7.334476 |
| #3 | 7.208013 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 4866.851 | 88971.90 | 11831.14 | 3634.720 | 5775.513 |
| Stddev | 4.349 | 13.15 | 77.86 | 17.308 | 11.624 |
| %RSD | .0893696 | .0147852 | .6580920 | .4761858 | .2012574 |
| #1 | 4868.126 | 88967.37 | 11757.65 | 3652.497 | 5788.858 |
| #2 | 4870.420 | 88986.72 | 11823.04 | 3633.742 | 5767.599 |
| #3 | 4862.006 | 88961.61 | 11912.73 | 3617.922 | 5770.081 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: CCV05 Acquired: 8/14/2025 16:50:15 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.114708** | **4.710340** | **4.773488** | **5.225192** | **5.232513** | **9.711862** | **9.705590** |
| Stddev | .010041 | .181250 | .020237 | .021441 | .006194 | .036775 | .044734 |
| %RSD | .1963064 | 3.847912 | .4239372 | .4103406 | .1183827 | .3786639 | .4609070 |
| #1 | 5.108402 | 4.559202 | 4.765103 | 5.203817 | 5.239619 | 9.738548 | 9.748060 |
| #2 | 5.109435 | 4.660533 | 4.758791 | 5.225061 | 5.229667 | 9.727126 | 9.709819 |
| #3 | 5.126286 | 4.911287 | 4.796569 | 5.246698 | 5.228254 | 9.669913 | 9.658893 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2283110** | **2.389477** | **23.77220** | **.9845878** | **2.412141** | **1.255871** | **5.155964** |
| Stddev | .0005825 | .009302 | .03364 | .0017722 | .006791 | .002367 | .030665 |
| %RSD | .2551481 | .3892978 | .1415112 | .1799957 | .2815514 | .1885045 | .5947402 |
| #1 | .2283110 | 2.383846 | 23.78398 | .9864979 | 2.409587 | 1.255283 | 5.185966 |
| #2 | .2288935 | 2.384371 | 23.79837 | .9842688 | 2.406997 | 1.253853 | 5.124677 |
| #3 | .2277284 | 2.400214 | 23.73426 | .9829968 | 2.419840 | 1.258477 | 5.157248 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.361207** | **23.49209** | **2.428214** | **1.254954** | **23.34016** | **2.449468** | **2.588129** |
| Stddev | .006207 | .13764 | .007289 | .002017 | .13439 | .007149 | .002971 |
| %RSD | .2628753 | .5859093 | .3001728 | .1607123 | .5757819 | .2918648 | .1148012 |
| #1 | 2.368359 | 23.54443 | 2.423096 | 1.257188 | 23.49052 | 2.456348 | 2.589525 |
| #2 | 2.358041 | 23.59589 | 2.424987 | 1.254406 | 23.23175 | 2.449979 | 2.590145 |
| #3 | 2.357222 | 23.33596 | 2.436560 | 1.253268 | 23.29821 | 2.442077 | 2.584717 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **26.50163** | **4.607680** | **5.140996** | **4.798819** | **4.853985** | **5.170420** | **4.605430** |
| Stddev | .09923 | .009483 | .009979 | .023892 | .011980 | .036363 | .020036 |
| %RSD | .3744181 | .2058091 | .1941051 | .4978670 | .2468077 | .7032810 | .4350545 |
| #1 | 26.61267 | 4.603262 | 5.133516 | 4.777713 | 4.867668 | 5.201721 | 4.628190 |
| #2 | 26.42166 | 4.618566 | 5.137145 | 4.793986 | 4.848900 | 5.130533 | 4.597647 |
| #3 | 26.47055 | 4.601213 | 5.152327 | 4.824758 | 4.845386 | 5.179007 | 4.590453 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: CCV05 Acquired: 8/14/2025 16:50:15 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **4.885101** | **4.692917** | **4.899423** |
| Stddev | .028042 | .006610 | .013246 |
| %RSD | .5740388 | .1408493 | .2703683 |
| #1 | 4.859013 | 4.700234 | 4.884562 |
| #2 | 4.881534 | 4.691138 | 4.909989 |
| #3 | 4.914756 | 4.687379 | 4.903719 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5508.273** | **100320.4** | **12161.45** | **4095.658** | **6755.987** |
| Stddev | 6.647 | 346.4 | 26.00 | 13.211 | 7.035 |
| %RSD | .1206708 | .3453247 | .2138310 | .3225701 | .1041360 |
| #1 | 5500.624 | 99937.5 | 12147.83 | 4080.881 | 6756.147 |
| #2 | 5512.653 | 100612.1 | 12145.08 | 4106.327 | 6762.941 |
| #3 | 5511.540 | 100411.5 | 12191.44 | 4099.767 | 6748.873 |

Sample Name: CCB05 Acquired: 8/14/2025 17:00:15 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000658** | **-.001408** | **-.000067** | **-.001777** | **-.000562** | **.0016345** |
| Stddev | .001119 | .000579 | .000957 | .001747 | .000576 | .0099087 |
| %RSD | 169.9612 | 41.08190 | 1430.778 | 98.34131 | 102.5266 | 606.2334 |
| #1 | .000232 | -.001136 | -.001171 | -.000034 | -.001210 | -.003889 |
| #2 | -.000293 | -.002073 | .000530 | -.003529 | -.000371 | .013074 |
| #3 | -.001914 | -.001016 | .000440 | -.001768 | -.000105 | -.004281 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.009753** | **.0000447** | **.0000147** | **.0054078** | **-.000129** | **-.000107** |
| Stddev | .000945 | .0000087 | .0000632 | .0085716 | .000130 | .000113 |
| %RSD | 9.688176 | 19.45259 | 430.0954 | 158.5044 | 100.3331 | 105.8633 |
| #1 | -.010363 | .0000379 | .0000497 | .0082938 | .000020 | .000024 |
| #2 | -.010232 | .0000416 | -.000058 | -.004234 | -.000210 | -.000175 |
| #3 | -.008665 | .0000545 | .000053 | .012164 | -.000199 | -.000169 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000283** | **.0024441** | **-.000378** | **.0046958** | **.0000494** | **.0013196** |
| Stddev | .000461 | .0053989 | .000092 | .0146409 | .0003482 | .0002193 |
| %RSD | 163.0476 | 220.8954 | 24.36641 | 311.7877 | 705.0684 | 16.62097 |
| #1 | .000246 | -.003695 | -.000305 | .0083537 | -.000210 | .0011439 |
| #2 | -.000602 | .004574 | -.000348 | .0171609 | -.000087 | .0015654 |
| #3 | -.000493 | .006453 | -.000482 | -.011427 | .000445 | .0012494 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4493008** | **-.002584** | **-.000061** | **.4421860** | **-.000433** | **.0001426** |
| Stddev | .0309146 | .002102 | .000325 | .0529697 | .000246 | .0001808 |
| %RSD | 6.880602 | 81.33630 | 530.8672 | 11.97905 | 56.80984 | 126.7244 |
| #1 | .4141281 | -.005004 | .000136 | .3811360 | -.000458 | -.000007 |
| #2 | .4616075 | -.001521 | .000117 | .4694776 | -.000175 | .000091 |
| #3 | .4721668 | -.001226 | -.000437 | .4759445 | -.000665 | .000344 |

Sample Name: CCB05 Acquired: 8/14/2025 17:00:15 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000287** | **.0008311** | **.0042590** | **.0013334** | F **.0270164** | **.0011641** |
| Stddev | .000427 | .0002928 | .0095369 | .0013133 | .0013954 | .0007469 |
| %RSD | 148.8644 | 35.23710 | 223.9230 | 98.49551 | 5.165069 | 64.16588 |
| #1 | -.000365 | .0005153 | .0138699 | .0015739 | .0282076 | .0003016 |
| #2 | -.000670 | .0008842 | -.005202 | -.000084 | .0273605 | .0015867 |
| #3 | .000174 | .0010937 | .004109 | .002510 | .0254811 | .0016039 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | **-.000063** |
| Stddev | .000063 |
| %RSD | 99.07940 |
| #1 | -.000044 |
| #2 | -.000012 |
| #3 | -.000133 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5789.619** | **104207.0** | **12088.27** | **4328.957** | **7695.130** |
| Stddev | 6.899 | 219.4 | 50.78 | 9.333 | 14.213 |
| %RSD | .1191657 | .2105421 | .4201084 | .2156059 | .1847069 |
| #1 | 5788.420 | 103993.7 | 12135.44 | 4329.264 | 7690.978 |
| #2 | 5783.398 | 104195.2 | 12094.87 | 4319.474 | 7683.455 |
| #3 | 5797.039 | 104432.0 | 12034.51 | 4338.133 | 7710.957 |

Sample Name: Q2837-01MSD Acquired: 8/14/2025 17:04:34 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8958620** | **1.772004** | **.9020326** | **2.264545** | **.9143061** | **2.899208** |
| Stddev | .0051446 | .017213 | .0022376 | .002643 | .0010806 | .006739 |
| %RSD | .5742571 | .9713640 | .2480615 | .1167066 | .1181911 | .2324343 |
| #1 | .8922155 | 1.752865 | .8994549 | 2.261510 | .9132688 | 2.906920 |
| #2 | .8936241 | 1.776931 | .9034745 | 2.266339 | .9142241 | 2.896249 |
| #3 | .9017465 | 1.786216 | .9031683 | 2.265785 | .9154254 | 2.894454 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6724473** | **.1723068** | **.1933040** | **515.9136** | **.4513684** | **.2019243** |
| Stddev | .0020911 | .0029025 | .0003086 | 10.7060 | .0003217 | .0002319 |
| %RSD | .3109730 | 1.684522 | .1596727 | 2.075162 | .0712704 | .1148666 |
| #1 | .6705427 | .1719592 | .1929691 | 517.0006 | .4517391 | .2016806 |
| #2 | .6746850 | .1753675 | .1935770 | 526.0346 | .4511617 | .2021424 |
| #3 | .6721142 | .1695937 | .1933658 | 504.7055 | .4512046 | .2019498 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3277882** | **9.139796** | **.1993660** | **2.259079** | **.5403237** | **.0704419** |
| Stddev | .0007436 | .104090 | .0022789 | .022664 | .0005798 | .0008402 |
| %RSD | .2268638 | 1.138862 | 1.143059 | 1.003230 | .1073093 | 1.192715 |
| #1 | .3280245 | 9.121959 | .1980633 | 2.234540 | .5396543 | .0713711 |
| #2 | .3269552 | 9.045778 | .2019974 | 2.263471 | .5406627 | .0697358 |
| #3 | .3283850 | 9.251652 | .1980374 | 2.279225 | .5406543 | .0702188 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **241.7269** | **.3055677** | **.2392248** | **464.0576** | **.3008991** | **.6723390** |
| Stddev | 2.9487 | .0005667 | .0014740 | 4.9147 | .0053202 | .0017143 |
| %RSD | 1.219861 | .1854720 | .6161735 | 1.059062 | 1.768096 | .2549756 |
| #1 | 241.9562 | .3055285 | .2380913 | 460.7965 | .3013531 | .6713714 |
| #2 | 244.5543 | .3061530 | .2408912 | 461.6659 | .3059778 | .6713273 |
| #3 | 238.6702 | .3050216 | .2386919 | 469.7103 | .2953665 | .6743183 |

Sample Name: Q2837-01MSD Acquired: 8/14/2025 17:04:34 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6580772 | .1847748 | 9.644965 | 5.902406 | F 256.6118 | .3406898 |
| Stddev | .0027214 | .0014268 | .135178 | .010278 | .7429 | .0022154 |
| %RSD | .4135442 | .7721923 | 1.401544 | .1741296 | .2895219 | .6502702 |
| #1 | .6552795 | .1856130 | 9.601168 | 5.912991 | 255.7971 | .3409546 |
| #2 | .6607153 | .1855841 | 9.537115 | 5.901761 | 256.7868 | .3383539 |
| #3 | .6582368 | .1831274 | 9.796611 | 5.892466 | 257.2517 | .3427609 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | 7.505237 |
| Stddev | .071261 |
| %RSD | .9494869 |
| #1 | 7.461315 |
| #2 | 7.587459 |
| #3 | 7.466938 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 4772.103 | 89389.98 | 12048.37 | 3593.432 | 5696.337 |
| Stddev | 11.794 | 115.35 | 189.80 | 13.791 | 11.117 |
| %RSD | .2471528 | .1290452 | 1.575342 | .3837942 | .1951675 |
| #1 | 4782.979 | 89338.19 | 12033.75 | 3609.163 | 5709.148 |
| #2 | 4773.765 | 89522.15 | 11866.30 | 3587.709 | 5690.634 |
| #3 | 4759.566 | 89309.58 | 12245.06 | 3583.422 | 5689.228 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2837-01A Acquired: 8/14/2025 17:09:05 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8586769** | **1.670175** | **.8613869** | **2.177982** | **.8964786** | **2.761432** |
| Stddev | .0035067 | .038036 | .0046050 | .009105 | .0027746 | .009724 |
| %RSD | .4083865 | 2.277361 | .5346032 | .4180256 | .3094938 | .3521184 |
| #1 | .8596176 | 1.641733 | .8563777 | 2.184617 | .8993992 | 2.751963 |
| #2 | .8616172 | 1.655411 | .8623464 | 2.167602 | .8938778 | 2.771392 |
| #3 | .8547957 | 1.713379 | .8654365 | 2.181726 | .8961587 | 2.760941 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6383446** | **.1629080** | **.1847726** | **496.1586** | **.4309728** | **.1924329** |
| Stddev | .0007150 | .0004026 | .0004826 | 3.3333 | .0011753 | .0004226 |
| %RSD | .1119999 | .2471214 | .2611867 | .6718309 | .2727192 | .2196223 |
| #1 | .6385569 | .1625371 | .1842511 | 498.9639 | .4302249 | .1919486 |
| #2 | .6375475 | .1628506 | .1848632 | 497.0382 | .4303659 | .1926229 |
| #3 | .6389293 | .1633362 | .1852034 | 492.4737 | .4323275 | .1927271 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3123297** | **8.784790** | **.1881634** | **2.163687** | **.5182393** | **.0753241** |
| Stddev | .0003775 | .021532 | .0000257 | .005537 | .0017363 | .0012330 |
| %RSD | .1208824 | .2451018 | .0136706 | .2558946 | .3350403 | 1.636924 |
| #1 | .3122778 | 8.761575 | .1881898 | 2.161258 | .5164106 | .0755872 |
| #2 | .3127306 | 8.804105 | .1881621 | 2.159780 | .5184420 | .0764043 |
| #3 | .3119808 | 8.788691 | .1881384 | 2.170023 | .5198654 | .0739808 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **234.8103** | **.2922705** | **.2318932** | **445.1963** | **.2849944** | **.6532755** |
| Stddev | 2.8504 | .0007539 | .0011990 | 2.0389 | .0010093 | .0009606 |
| %RSD | 1.213934 | .2579612 | .5170367 | .4579690 | .3541382 | .1470470 |
| #1 | 238.0761 | .2914824 | .2305089 | 444.1158 | .2852505 | .6543805 |
| #2 | 232.8225 | .2929848 | .2326047 | 443.9250 | .2838818 | .6526394 |
| #3 | 233.5324 | .2923442 | .2325660 | 447.5480 | .2858510 | .6528067 |

Sample Name: Q2837-01A Acquired: 8/14/2025 17:09:05 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6520497 | .1792648 | 9.486592 | 5.552983 | F 241.6708 | .3243025 |
| Stddev | .0011763 | .0018609 | .014467 | .039507 | 1.3319 | .0006782 |
| %RSD | .1804061 | 1.038077 | .1524944 | .7114578 | .5511214 | .2091274 |
| #1 | .6509177 | .1772720 | 9.471159 | 5.508316 | 240.3958 | .3242321 |
| #2 | .6519655 | .1795653 | 9.499845 | 5.583345 | 241.5634 | .3236622 |
| #3 | .6532659 | .1809572 | 9.488772 | 5.567288 | 243.0531 | .3250131 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | 7.179132 |
| Stddev | .016781 |
| %RSD | .2337431 |
| #1 | 7.176181 |
| #2 | 7.197193 |
| #3 | 7.164023 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 4910.565 | 91667.12 | 12509.62 | 3675.669 | 5878.101 |
| Stddev | 4.821 | 112.63 | 26.17 | 12.794 | 10.665 |
| %RSD | .0981779 | .1228663 | .2091660 | .3480608 | .1814438 |
| #1 | 4905.925 | 91538.99 | 12499.45 | 3661.079 | 5886.405 |
| #2 | 4915.549 | 91711.89 | 12539.35 | 3684.969 | 5881.825 |
| #3 | 4910.222 | 91750.47 | 12490.07 | 3680.959 | 5866.073 |

Sample Name: Q2858-01 Acquired: 8/14/2025 17:13:36 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0572673** | **-.025466** | **1.384830** | **-.000232** | **-.007972** | **101.8079** | **.5109856** |
| Stddev | .0015215 | .001653 | .000813 | .001678 | .000777 | .1255 | .0026807 |
| %RSD | 2.656889 | 6.490916 | .0586960 | 722.3051 | 9.742734 | .1232913 | .5246097 |
| #1 | .0566789 | -.023925 | 1.383918 | .000705 | -.007355 | 101.9128 | .5108346 |
| #2 | .0589951 | -.027212 | 1.385097 | -.002170 | -.007716 | 101.8422 | .5137385 |
| #3 | .0561277 | -.025261 | 1.385476 | .000768 | -.008844 | 101.6689 | .5083835 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0061287** | **.0105638** | **92.45795** | **.1875823** | **.0890305** | **.2792764** | **229.9780** |
| Stddev | .0000561 | .0001105 | .28926 | .0008524 | .0001808 | .0009147 | .8450 |
| %RSD | .9145552 | 1.046270 | .3128523 | .4543993 | .2030993 | .3275164 | .3674060 |
| #1 | .0060740 | .0105415 | 92.47392 | .1885335 | .0890106 | .2788391 | 230.3633 |
| #2 | .0061259 | .0104662 | 92.73889 | .1873258 | .0888605 | .2786625 | 230.5616 |
| #3 | .0061860 | .0106838 | 92.16104 | .1868877 | .0892205 | .2803277 | 229.0091 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.890201** | **25.69322** | **.1693561** | **.0125017** | **5.702301** | **.3512860** | **1.028328** |
| Stddev | .014516 | .06582 | .0003346 | .0002532 | .016181 | .0024641 | .002534 |
| %RSD | .3731302 | .2561911 | .1975992 | 2.025068 | .2837685 | .7014605 | .2464262 |
| #1 | 3.890918 | 25.70214 | .1690313 | .0126011 | 5.717696 | .3518069 | 1.027098 |
| #2 | 3.904345 | 25.75413 | .1693370 | .0126901 | 5.703772 | .3534481 | 1.031242 |
| #3 | 3.875340 | 25.62339 | .1696998 | .0122139 | 5.685434 | .3486031 | 1.026643 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.638765** | **.1530277** | **.0052772** | **.0065242** | **4.118063** | **11.12196** | **4.025009** |
| Stddev | .077149 | .0028228 | .0001750 | .0002364 | .006184 | .12992 | .009432 |
| %RSD | .8004060 | 1.844638 | 3.315182 | 3.623027 | .1501577 | 1.168104 | .2343423 |
| #1 | 9.669984 | .1559691 | .0050847 | .0065066 | 4.116473 | 11.26750 | 4.032173 |
| #2 | 9.695411 | .1527733 | .0054265 | .0062971 | 4.124886 | 11.01770 | 4.014322 |
| #3 | 9.550898 | .1503408 | .0053204 | .0067689 | 4.112829 | 11.08068 | 4.028532 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2858-01 Acquired: 8/14/2025 17:13:36 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **2.962992** | **.1001873** | **.2081702** |
| Stddev | .010047 | .0009241 | .0004289 |
| %RSD | .3390670 | .9223468 | .2060185 |
| #1 | 2.965073 | .1009682 | .2076752 |
| #2 | 2.952068 | .1004267 | .2084292 |
| #3 | 2.971835 | .0991671 | .2084062 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **6084.976** | **111450.5** | **14732.17** | **4512.093** | **6675.461** |
| Stddev | 11.950 | 194.0 | 17.11 | 8.716 | 8.981 |
| %RSD | .1963862 | .1740249 | .1161543 | .1931701 | .1345375 |
| #1 | 6082.715 | 111257.2 | 14724.68 | 4516.653 | 6670.034 |
| #2 | 6097.895 | 111449.4 | 14720.09 | 4502.043 | 6685.828 |
| #3 | 6074.317 | 111645.1 | 14751.75 | 4517.583 | 6670.522 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2858-01DUP Acquired: 8/14/2025 17:17:40 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0606134** | **-.026574** | **1.408849** | **-.001385** | **-.007143** | **105.4439** | **.5215077** |
| Stddev | .0011122 | .002079 | .002476 | .001390 | .001078 | .0828 | .0004167 |
| %RSD | 1.834926 | 7.824551 | .1757643 | 100.3599 | 15.08782 | .0784951 | .0799031 |
| #1 | .0617569 | -.028606 | 1.408800 | -.000123 | -.005904 | 105.3642 | .5214736 |
| #2 | .0595353 | -.026667 | 1.406397 | -.002876 | -.007662 | 105.5294 | .5211091 |
| #3 | .0605480 | -.024450 | 1.411349 | -.001158 | -.007864 | 105.4381 | .5219404 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0064002** | **.0116699** | **82.63264** | **.2061302** | **.0966712** | **.2870158** | **229.2773** |
| Stddev | .0001343 | .0000201 | .09245 | .0002329 | .0003842 | .0004812 | .6724 |
| %RSD | 2.098420 | .1723581 | .1118854 | .1129704 | .3974673 | .1676681 | .2932605 |
| #1 | .0062616 | .0116468 | 82.63511 | .2061043 | .0971135 | .2871402 | 229.9213 |
| #2 | .0065297 | .0116791 | 82.72382 | .2059113 | .0964204 | .2864847 | 229.3307 |
| #3 | .0064092 | .0116838 | 82.53897 | .2063749 | .0964796 | .2874227 | 228.5798 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.123274** | **28.17365** | **.1793015** | **.0099079** | **5.486426** | **.3421529** | **1.156859** |
| Stddev | .007545 | .11231 | .0004424 | .0001246 | .010795 | .0013725 | .000075 |
| %RSD | .1472607 | .3986301 | .2467653 | 1.258038 | .1967639 | .4011468 | .0064664 |
| #1 | 5.128752 | 28.14270 | .1797092 | .0100515 | 5.493309 | .3431581 | 1.156914 |
| #2 | 5.126400 | 28.29819 | .1788310 | .0098442 | 5.491985 | .3405891 | 1.156774 |
| #3 | 5.114668 | 28.08006 | .1793643 | .0098280 | 5.473984 | .3427114 | 1.156888 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.90735** | **.1316237** | **.0060489** | **.0099033** | **3.713799** | **12.54578** | **4.123067** |
| Stddev | .02061 | .0021646 | .0001881 | .0009400 | .015857 | .16404 | .010091 |
| %RSD | .1889883 | 1.644502 | 3.110418 | 9.492195 | .4269646 | 1.307570 | .2447557 |
| #1 | 10.89970 | .1337705 | .0061125 | .0104221 | 3.701665 | 12.70634 | 4.121694 |
| #2 | 10.93070 | .1316590 | .0058372 | .0104696 | 3.731740 | 12.55255 | 4.113733 |
| #3 | 10.89166 | .1294418 | .0061970 | .0088181 | 3.707990 | 12.37846 | 4.133775 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2858-01DUP Acquired: 8/14/2025 17:17:40 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **2.974418** | **.1117740** | **.1745882** |
| Stddev | .008784 | .0003858 | .0011118 |
| %RSD | .2953268 | .3451385 | .6368404 |
| #1 | 2.982331 | .1119351 | .1733045 |
| #2 | 2.975957 | .1113338 | .1752134 |
| #3 | 2.964966 | .1120531 | .1752467 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **6111.250** | **111949.3** | **14454.72** | **4550.291** | **6686.929** |
| Stddev | 3.354 | 97.9 | 24.76 | 5.879 | 1.528 |
| %RSD | .0548838 | .0874660 | .1712659 | .1292091 | .0228487 |
| #1 | 6115.016 | 112034.7 | 14482.74 | 4544.877 | 6685.166 |
| #2 | 6108.583 | 111842.4 | 14435.81 | 4549.452 | 6687.872 |
| #3 | 6110.152 | 111970.6 | 14445.62 | 4556.545 | 6687.749 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2858-01LX5 Acquired: 8/14/2025 17:21:43 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0134344** | **-.006576** | **.3012615** | **-.001273** | **-.001375** | **23.72329** | **.1066000** |
| Stddev | .0012814 | .002026 | .0043120 | .000898 | .001357 | .02245 | .0006689 |
| %RSD | 9.537920 | 30.80959 | 1.431309 | 70.50517 | 98.72969 | .0946300 | .6274926 |
| #1 | .0143781 | -.007361 | .3049080 | -.001148 | .000192 | 23.70269 | .1072278 |
| #2 | .0119757 | -.008092 | .3023743 | -.000444 | -.002140 | 23.74722 | .1066758 |
| #3 | .0139494 | -.004275 | .2965022 | -.002226 | -.002176 | 23.71998 | .1058964 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0015277** | **.0017943** | **21.91431** | **.0445173** | **.0184459** | **.0687060** | **52.00371** |
| Stddev | .0000436 | .0001163 | .04073 | .0003730 | .0001106 | .0007010 | .15226 |
| %RSD | 2.851082 | 6.479860 | .1858754 | .8377926 | .5993446 | 1.020304 | .2927905 |
| #1 | .0014878 | .0018664 | 21.91808 | .0445383 | .0183786 | .0685838 | 51.95335 |
| #2 | .0015211 | .0018564 | 21.87183 | .0441343 | .0185735 | .0694601 | 52.17477 |
| #3 | .0015741 | .0016602 | 21.95303 | .0448793 | .0183857 | .0680742 | 51.88301 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.9510984** | **6.166296** | **.0356523** | **.0034705** | **1.630119** | **.0822357** | **.2571195** |
| Stddev | .0011138 | .015207 | .0005096 | .0001892 | .016788 | .0017175 | .0015089 |
| %RSD | .1171097 | .2466172 | 1.429442 | 5.452930 | 1.029852 | 2.088556 | .5868352 |
| #1 | .9510250 | 6.177505 | .0362407 | .0032704 | 1.613742 | .0821241 | .2587033 |
| #2 | .9500232 | 6.172399 | .0353570 | .0034944 | 1.629324 | .0840063 | .2556988 |
| #3 | .9522472 | 6.148986 | .0353590 | .0036466 | 1.647290 | .0805766 | .2569565 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.615458** | **.0217507** | **.0013304** | **.0000958** | **.9666221** | **2.859320** | **.8248415** |
| Stddev | .018941 | .0014301 | .0002554 | .0008907 | .0034454 | .025972 | .0125775 |
| %RSD | .7242013 | 6.575105 | 19.19680 | 929.7116 | .3564377 | .9083433 | 1.524832 |
| #1 | 2.593627 | .0202936 | .0013228 | .0010440 | .9668328 | 2.830006 | .8309876 |
| #2 | 2.625222 | .0231522 | .0015895 | -.000723 | .9630762 | 2.879462 | .8331641 |
| #3 | 2.627524 | .0218061 | .0010789 | -.000033 | .9699574 | 2.868493 | .8103727 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2858-01LX5 Acquired: 8/14/2025 17:21:43 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .6821402 | .0232474 | .0490129 |
| Stddev | .0076183 | .0013627 | .0003732 |
| %RSD | 1.116816 | 5.861540 | .7614733 |
| #1 | .6873452 | .0239572 | .0493724 |
| #2 | .6856792 | .0241086 | .0486273 |
| #3 | .6733961 | .0216763 | .0490392 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5813.359 | 106896.5 | 13324.12 | 4345.838 | 7313.607 |
| Stddev | 4.392 | 118.4 | 43.29 | 6.111 | 6.228 |
| %RSD | .0755445 | .1107521 | .3249223 | .1406238 | .0851589 |
| #1 | 5815.988 | 106987.4 | 13327.91 | 4343.835 | 7306.416 |
| #2 | 5808.289 | 106762.6 | 13365.40 | 4352.700 | 7317.115 |
| #3 | 5815.799 | 106939.4 | 13279.06 | 4340.980 | 7317.290 |

Sample Name: Q2858-01MS Acquired: 8/14/2025 17:25:53 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7556269** | **1.664506** | **2.206179** | **1.695790** | **.3254792** | **119.6307** |
| Stddev | .0031263 | .023765 | .005039 | .008022 | .0006452 | .1735 |
| %RSD | .4137333 | 1.427752 | .2284215 | .4730312 | .1982471 | .1450456 |
| #1 | .7590487 | 1.681298 | 2.211428 | 1.686843 | .3262229 | 119.6630 |
| #2 | .7529200 | 1.637313 | 2.201379 | 1.698188 | .3251479 | 119.7858 |
| #3 | .7549119 | 1.674905 | 2.205728 | 1.702340 | .3250670 | 119.4433 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6981396** | **.1488239** | **.1897487** | **94.79876** | **.5507114** | **.2814447** |
| Stddev | .0019571 | .0007795 | .0004388 | .18349 | .0041207 | .0004300 |
| %RSD | .2803355 | .5237656 | .2312347 | .1935523 | .7482522 | .1527865 |
| #1 | .6958863 | .1488559 | .1896484 | 94.78148 | .5543004 | .2813952 |
| #2 | .6994164 | .1495869 | .1893688 | 94.99027 | .5516225 | .2810416 |
| #3 | .6991160 | .1480289 | .1902290 | 94.62452 | .5462114 | .2818973 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5340245** | **251.1046** | **4.701313** | **29.29738** | **.6471347** | **.0786857** |
| Stddev | .0008027 | 1.0500 | .009286 | .07171 | .0013945 | .0000514 |
| %RSD | .1503150 | .4181339 | .1975201 | .2447814 | .2154865 | .0652584 |
| #1 | .5336197 | 252.1527 | 4.691232 | 29.33261 | .6462197 | .0787443 |
| #2 | .5335047 | 251.1082 | 4.709518 | 29.34467 | .6464448 | .0786638 |
| #3 | .5349490 | 250.0529 | 4.703188 | 29.21487 | .6487397 | .0786488 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.281295** | **.5897101** | **1.319329** | **20.28678** | **.3747947** | **.3558079** |
| Stddev | .022258 | .0025143 | .012533 | .06237 | .0036688 | .0007474 |
| %RSD | .2687726 | .4263606 | .9499892 | .3074300 | .9788794 | .2100693 |
| #1 | 8.299494 | .5899201 | 1.324905 | 20.34907 | .3790167 | .3563136 |
| #2 | 8.287913 | .5921128 | 1.328107 | 20.28692 | .3723821 | .3549493 |
| #3 | 8.256479 | .5870974 | 1.304975 | 20.22434 | .3729852 | .3561607 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2858-01MS Acquired: 8/14/2025 17:25:53 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6009222 | 4.172984 | F 16.55255 | 9.371012 | 3.754173 | .2820730 |
| Stddev | .0013794 | .007180 | .24936 | .012827 | .011329 | .0010864 |
| %RSD | .2295514 | .1720536 | 1.506500 | .1368790 | .3017769 | .3851573 |
| #1 | .6006644 | 4.178362 | 16.84045 | 9.385393 | 3.760492 | .2809796 |
| #2 | .5996899 | 4.164830 | 16.41279 | 9.360752 | 3.741094 | .2820872 |
| #3 | .6024124 | 4.175759 | 16.40441 | 9.366891 | 3.760935 | .2831523 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3899516 |
| Stddev | .0024026 |
| %RSD | .6161387 |
| #1 | .3871845 |
| #2 | .3915081 |
| #3 | .3911623 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6108.744 | 112745.8 | 14986.15 | 4567.899 | 6595.786 |
| Stddev | 9.462 | 660.6 | 46.96 | 38.109 | 12.545 |
| %RSD | .1548948 | .5859284 | .3133377 | .8342718 | .1901966 |
| #1 | 6112.038 | 112180.8 | 15000.89 | 4556.539 | 6593.780 |
| #2 | 6116.118 | 112584.4 | 14933.60 | 4536.762 | 6609.213 |
| #3 | 6098.075 | 113472.1 | 15023.98 | 4610.396 | 6584.364 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2858-01MSD Acquired: 8/14/2025 17:29:48 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7534426** | **1.679801** | **2.417061** | **1.684420** | **.3060983** | **127.8085** |
| Stddev | .0038816 | .029520 | .005451 | .003789 | .0020697 | .0348 |
| %RSD | .5151756 | 1.757341 | .2255107 | .2249173 | .6761699 | .0271990 |
| #1 | .7544535 | 1.661423 | 2.421483 | 1.688670 | .3084237 | 127.7928 |
| #2 | .7491556 | 1.664128 | 2.410971 | 1.681398 | .3054132 | 127.7844 |
| #3 | .7567187 | 1.713852 | 2.418729 | 1.683193 | .3044579 | 127.8484 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7474403** | **.1482530** | **.1906274** | **69.48679** | **.5440577** | **.2886343** |
| Stddev | .0020743 | .0001799 | .0006262 | .12753 | .0020309 | .0004717 |
| %RSD | .2775251 | .1213413 | .3284991 | .1835289 | .3732843 | .1634387 |
| #1 | .7493475 | .1482998 | .1911243 | 69.62351 | .5463508 | .2890828 |
| #2 | .7452317 | .1484048 | .1899240 | 69.37106 | .5424859 | .2881423 |
| #3 | .7477416 | .1480543 | .1908340 | 69.46580 | .5433366 | .2886778 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5577476** | **259.1127** | **4.868481** | **31.40618** | **.6627894** | **.0789635** |
| Stddev | .0012133 | 1.5779 | .017633 | .04065 | .0006256 | .0007662 |
| %RSD | .2175378 | .6089441 | .3621773 | .1294335 | .0943959 | .9702682 |
| #1 | .5566315 | 260.7599 | 4.885665 | 31.43371 | .6626072 | .0795858 |
| #2 | .5575722 | 257.6148 | 4.850432 | 31.35949 | .6622751 | .0781078 |
| #3 | .5590391 | 258.9633 | 4.869347 | 31.42534 | .6634859 | .0791969 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.472979** | **.6004427** | **1.427478** | **19.98263** | **.3460646** | **.3503622** |
| Stddev | .047980 | .0040285 | .005481 | .08874 | .0068242 | .0006842 |
| %RSD | .5662735 | .6709283 | .3839959 | .4440999 | 1.971946 | .1952963 |
| #1 | 8.528069 | .6040055 | 1.433330 | 20.08483 | .3522296 | .3507875 |
| #2 | 8.450531 | .6012515 | 1.426642 | 19.92515 | .3387319 | .3495729 |
| #3 | 8.440339 | .5960711 | 1.422463 | 19.93790 | .3472322 | .3507262 |

Sample Name: Q2858-01MSD Acquired: 8/14/2025 17:29:48 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .5994116 | 4.171916 | F 15.83624 | 9.365435 | 2.839599 | .2980917 |
| Stddev | .0018321 | .012608 | .03729 | .012796 | .005342 | .0014521 |
| %RSD | .3056469 | .3022005 | .2354446 | .1366273 | .1881324 | .4871346 |
| #1 | .5988023 | 4.186449 | 15.87737 | 9.379603 | 2.835682 | .2982059 |
| #2 | .5979617 | 4.163911 | 15.80466 | 9.354721 | 2.837430 | .2994834 |
| #3 | .6014707 | 4.165387 | 15.82670 | 9.361980 | 2.845684 | .2965859 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2926608 |
| Stddev | .0001732 |
| %RSD | .0591918 |
| #1 | .2927345 |
| #2 | .2927850 |
| #3 | .2924629 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6111.569 | 112717.6 | 15012.36 | 4542.080 | 6578.795 |
| Stddev | 6.086 | 148.6 | 36.10 | 13.339 | 9.247 |
| %RSD | .0995890 | .1318236 | .2404448 | .2936727 | .1405573 |
| #1 | 6107.076 | 112575.1 | 15053.96 | 4531.923 | 6569.306 |
| #2 | 6118.496 | 112871.6 | 14989.28 | 4557.186 | 6587.780 |
| #3 | 6109.136 | 112706.2 | 14993.85 | 4537.131 | 6579.299 |

Reviewed By:jaswal
On:8/19/2025 4:32:19 PM
Inst Id :P4
LB :LB136837

Sample Name: Q2858-01A Acquired: 8/14/2025 17:33:44 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8306090** | **1.854410** | **2.292205** | **1.928257** | **.8083428** | **102.2124** |
| Stddev | .0455433 | .082066 | .051513 | .106636 | .0429324 | .0594 |
| %RSD | 5.483121 | 4.425456 | 2.247323 | 5.530169 | 5.311163 | .0581558 |
| #1 | .7838324 | 1.787525 | 2.236072 | 1.822001 | .7646813 | 102.1946 |
| #2 | .8331851 | 1.829717 | 2.303228 | 1.927501 | .8098401 | 102.1639 |
| #3 | .8748096 | 1.945987 | 2.337314 | 2.035269 | .8505070 | 102.2787 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6451984** | **.1402317** | **.2048385** | **90.60228** | **.4998504** | **.2893090** |
| Stddev | .0043495 | .0059786 | .0100990 | .20966 | .0124726 | .0100679 |
| %RSD | .6741382 | 4.263365 | 4.930226 | .2314110 | 2.495267 | 3.479992 |
| #1 | .6403286 | .1346138 | .1942090 | 90.37726 | .4870820 | .2787365 |
| #2 | .6465689 | .1395660 | .2060000 | 90.79214 | .5004647 | .2904082 |
| #3 | .6486975 | .1465152 | .2143065 | 90.63744 | .5120045 | .2987821 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5505642** | **230.5231** | **4.094939** | **26.72454** | **.6709877** | **.0729780** |
| Stddev | .0153321 | 1.8986 | .008344 | .10874 | .0266490 | .0021208 |
| %RSD | 2.784789 | .8236125 | .2037695 | .4068923 | 3.971605 | 2.906096 |
| #1 | .5351441 | 230.2834 | 4.094135 | 26.60023 | .6428112 | .0705308 |
| #2 | .5507420 | 232.5301 | 4.103657 | 26.80202 | .6743649 | .0741228 |
| #3 | .5658066 | 228.7557 | 4.087027 | 26.77137 | .6957872 | .0742805 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **7.508279** | **.5475397** | **1.181167** | **17.14534** | **.3484493** | **.4052057** |
| Stddev | .046676 | .0082232 | .002779 | .26118 | .0074945 | .0217902 |
| %RSD | .6216667 | 1.501841 | .2352682 | 1.523308 | 2.150826 | 5.377556 |
| #1 | 7.457267 | .5392505 | 1.178050 | 16.85592 | .3398561 | .3826581 |
| #2 | 7.548851 | .5476733 | 1.182064 | 17.21662 | .3536320 | .4068093 |
| #3 | 7.518720 | .5556952 | 1.183386 | 17.36347 | .3518598 | .4261498 |

Sample Name: Q2858-01A Acquired: 8/14/2025 17:33:44 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6955269 | 4.173397 | F 13.59954 | 9.237124 | 2.841748 | .2339152 |
| Stddev | .0362599 | .007752 | .17359 | .273065 | .012470 | .0057256 |
| %RSD | 5.213307 | .1857539 | 1.276414 | 2.956168 | .4388155 | 2.447728 |
| #1 | .6569388 | 4.164599 | 13.66595 | 8.949962 | 2.855640 | .2277246 |
| #2 | .7007495 | 4.176368 | 13.73011 | 9.267933 | 2.831523 | .2350007 |
| #3 | .7288923 | 4.179225 | 13.40255 | 9.493478 | 2.838081 | .2390205 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3357606 |
| Stddev | .0053165 |
| %RSD | 1.583406 |
| #1 | .3314242 |
| #2 | .3341657 |
| #3 | .3416920 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6020.651 | 110565.5 | 14721.01 | 4492.515 | 6611.799 |
| Stddev | 17.080 | 405.1 | 45.08 | 20.489 | 14.615 |
| %RSD | .2836918 | .3664129 | .3062486 | .4560662 | .2210407 |
| #1 | 6036.788 | 110466.8 | 14718.68 | 4498.135 | 6626.858 |
| #2 | 6022.403 | 110218.8 | 14767.22 | 4469.803 | 6610.864 |
| #3 | 6002.762 | 111010.8 | 14677.14 | 4509.608 | 6597.673 |

Sample Name: CCV06 Acquired: 8/14/2025 17:54:46 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.147495** | **4.999600** | **4.751030** | **5.255591** | **5.260674** | **9.734911** |
| Stddev | .015191 | .099565 | .006624 | .022497 | .020105 | .025187 |
| %RSD | .2951152 | 1.991459 | .1394304 | .4280503 | .3821663 | .2587273 |
| #1 | 5.130577 | 4.908454 | 4.750209 | 5.230045 | 5.237723 | 9.742626 |
| #2 | 5.151943 | 5.105856 | 4.744853 | 5.272447 | 5.275172 | 9.706770 |
| #3 | 5.159966 | 4.984489 | 4.758026 | 5.264279 | 5.269126 | 9.755339 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.969442** | **.2425316** | **2.382054** | **24.00823** | **.9842582** | **2.409881** |
| Stddev | .050538 | .0004587 | .004397 | .05314 | .0014397 | .005892 |
| %RSD | .5069251 | .1891344 | .1845684 | .2213458 | .1462701 | .2445107 |
| #1 | 9.973389 | .2430518 | 2.382722 | 24.00856 | .9826510 | 2.408781 |
| #2 | 9.917046 | .2423575 | 2.377361 | 23.95492 | .9854298 | 2.404616 |
| #3 | 10.01789 | .2421854 | 2.386077 | 24.06121 | .9846938 | 2.416246 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.255099** | **5.312148** | **2.397394** | **23.41586** | **2.428692** | **1.253767** |
| Stddev | .001056 | .024378 | .007826 | .08950 | .002713 | .001779 |
| %RSD | .0841104 | .4589171 | .3264538 | .3822044 | .1116937 | .1418599 |
| #1 | 1.254253 | 5.288752 | 2.395763 | 23.41742 | 2.427751 | 1.252972 |
| #2 | 1.254762 | 5.310289 | 2.390511 | 23.32560 | 2.426575 | 1.252523 |
| #3 | 1.256282 | 5.337402 | 2.405907 | 23.50457 | 2.431750 | 1.255804 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **25.04809** | **2.474562** | **2.572157** | **26.94976** | **4.502417** | **5.201319** |
| Stddev | .09674 | .004415 | .001729 | .09096 | .008400 | .013412 |
| %RSD | .3862371 | .1784027 | .0672077 | .3375195 | .1865627 | .2578616 |
| #1 | 24.96957 | 2.474680 | 2.570219 | 26.87457 | 4.511602 | 5.186033 |
| #2 | 25.01853 | 2.470089 | 2.573539 | 26.92385 | 4.495125 | 5.211115 |
| #3 | 25.15616 | 2.478916 | 2.572712 | 27.05087 | 4.500525 | 5.206810 |

Sample Name: CCV06 Acquired: 8/14/2025 17:54:46 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV06 Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.797266** | **4.935201** | **5.388417** | F **4.411828** | **4.785661** | **4.762817** |
| Stddev | .007663 | .014011 | .023182 | .002845 | .005754 | .012100 |
| %RSD | .1597307 | .2838976 | .4302205 | .0644779 | .1202280 | .2540542 |
| #1 | 4.796259 | 4.931426 | 5.368851 | 4.415072 | 4.781486 | 4.763223 |
| #2 | 4.790157 | 4.923464 | 5.382380 | 4.410649 | 4.792224 | 4.750520 |
| #3 | 4.805383 | 4.950713 | 5.414020 | 4.409762 | 4.783272 | 4.774710 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | **5.043267** |
| Stddev | .024828 |
| %RSD | .4923048 |
| #1 | 5.019117 |
| #2 | 5.041962 |
| #3 | 5.068721 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5549.096** | **100637.8** | **12475.61** | **4140.234** | **6820.090** |
| Stddev | 14.272 | 222.1 | 11.79 | 15.761 | 11.202 |
| %RSD | .2571983 | .2207097 | .0945042 | .3806698 | .1642457 |
| #1 | 5565.512 | 100878.5 | 12465.38 | 4158.300 | 6830.290 |
| #2 | 5542.149 | 100594.2 | 12488.50 | 4129.303 | 6821.878 |
| #3 | 5539.628 | 100440.8 | 12472.95 | 4133.098 | 6808.102 |

Sample Name: CCB06 Acquired: 8/14/2025 18:05:45 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000102** | **-.001876** | **.0000201** | **-.001761** | **-.000204** | **-.015220** |
| Stddev | .001588 | .000902 | .0002232 | .002373 | .002072 | .005063 |
| %RSD | 1559.755 | 48.10584 | 1108.701 | 134.7118 | 1015.861 | 33.26677 |
| #1 | -.001907 | -.002596 | -.000130 | -.003257 | -.000126 | -.020608 |
| #2 | .001080 | -.002167 | -.000087 | .000974 | .001827 | -.014493 |
| #3 | .000522 | -.000864 | .000277 | -.003001 | -.002313 | -.010560 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.014347** | **-.000005** | **.0000123** | **.0202246** | **.0004056** | **-.000227** |
| Stddev | .000814 | .000041 | .0000388 | .0040049 | .0001708 | .000077 |
| %RSD | 5.670367 | 821.0430 | 316.2779 | 19.80196 | 42.11782 | 33.86251 |
| #1 | -.014192 | -.000048 | .0000003 | .0211239 | .0006025 | -.000231 |
| #2 | -.015228 | .000034 | .0000556 | .0237033 | .0002967 | -.000301 |
| #3 | -.013623 | -.000001 | -.000019 | .0158465 | .0003176 | -.000148 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000395** | **.0076668** | **-.000326** | **-.003407** | **.0002365** | **.0014844** |
| Stddev | .000135 | .0033631 | .000125 | .007987 | .0001322 | .0003185 |
| %RSD | 34.06172 | 43.86546 | 38.48021 | 234.4409 | 55.91155 | 21.45560 |
| #1 | -.000399 | .0109076 | -.000214 | .002998 | .0003662 | .0013722 |
| #2 | -.000258 | .0041935 | -.000462 | -.012355 | .0001019 | .0018439 |
| #3 | -.000527 | .0078992 | -.000303 | -.000863 | .0002413 | .0012373 |

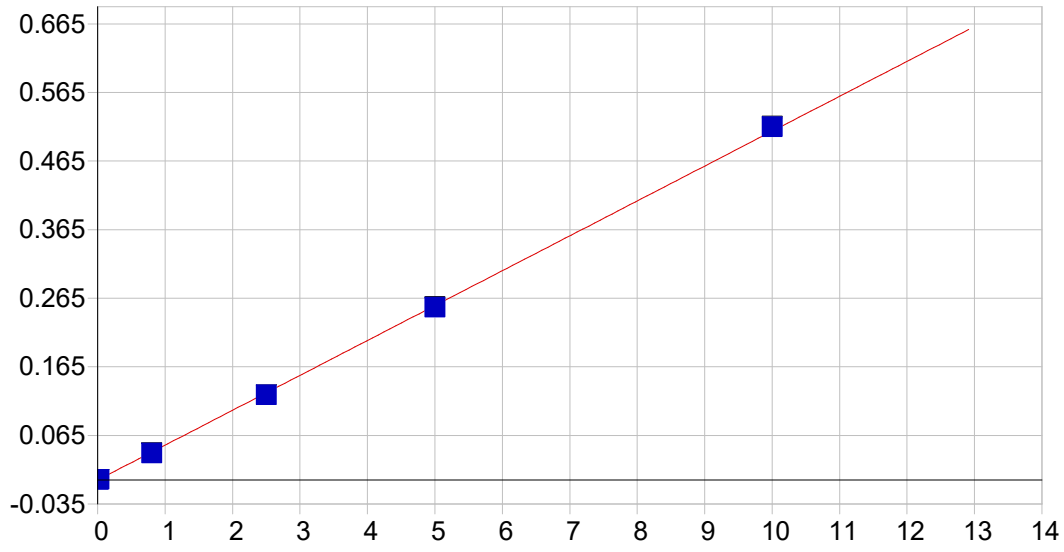
| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4055122** | **-.001236** | **.0003172** | **.5199273** | **.0018751** | **.0002963** |
| Stddev | .0199763 | .000367 | .0000315 | .0040250 | .0002921 | .0000675 |
| %RSD | 4.926184 | 29.69414 | 9.916939 | .7741421 | 15.57748 | 22.77358 |
| #1 | .3838788 | -.001583 | .0003490 | .5245476 | .0015575 | .0002254 |
| #2 | .4093971 | -.000851 | .0002861 | .5171809 | .0021322 | .0003037 |
| #3 | .4232607 | -.001275 | .0003166 | .5180534 | .0019356 | .0003598 |

Sample Name: CCB06 Acquired: 8/14/2025 18:05:45 Type: Unk
Method: 6010-200.7 NEW(v98) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.013915 | -.000174 | .0194123 | -.001219 | F .0101961 | .0035866 |
| Stddev | .000372 | .000455 | .0005403 | .000710 | .0005331 | .0005852 |
| %RSD | 2.673263 | 261.1370 | 2.783297 | 58.29687 | 5.228649 | 16.31595 |
| #1 | -.014106 | .000301 | .0189112 | -.001938 | .0098765 | .0029491 |
| #2 | -.013487 | -.000607 | .0199847 | -.000518 | .0108115 | .0037112 |
| #3 | -.014154 | -.000217 | .0193409 | -.001199 | .0099001 | .0040993 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | -.000095 |
| Stddev | .000033 |
| %RSD | 34.46160 |
| #1 | -.000057 |
| #2 | -.000116 |
| #3 | -.000111 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5763.393 | 105381.3 | 12420.50 | 4317.490 | 7671.868 |
| Stddev | 9.482 | 102.9 | 50.78 | 12.501 | 9.454 |
| %RSD | .1645135 | .0976004 | .4088658 | .2895346 | .1232326 |
| #1 | 5771.780 | 105295.0 | 12464.00 | 4303.402 | 7680.502 |
| #2 | 5765.295 | 105495.1 | 12432.81 | 4321.811 | 7673.337 |
| #3 | 5753.105 | 105353.8 | 12364.70 | 4327.258 | 7661.766 |

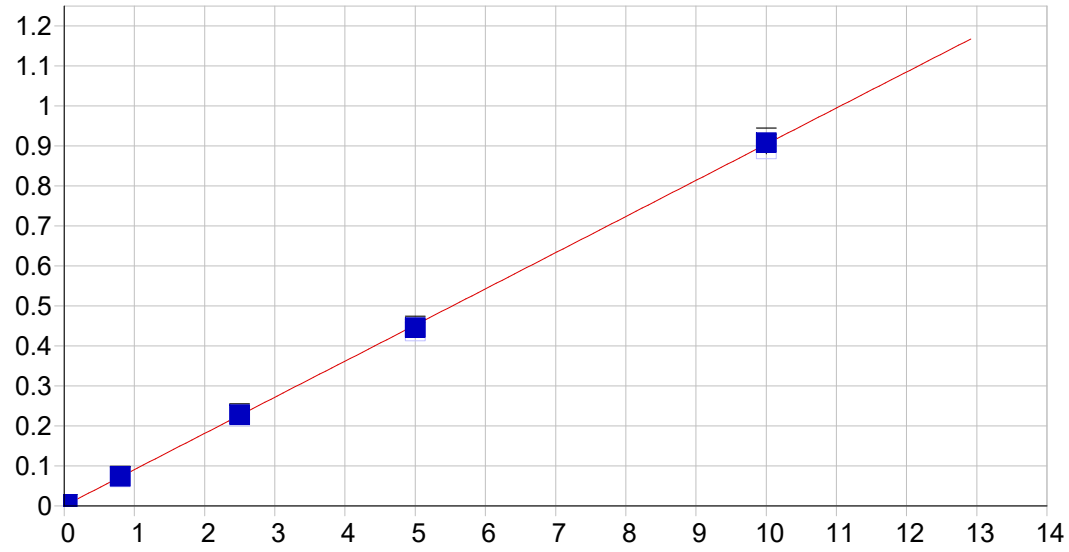



**As 189.042 {479}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000129 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.050867 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999890 | Status: | OK. |
| Std Error of Est: | 0.000018 | | |
| Predicted MDL: | 0.002090 | | |
| Predicted MQL: | 0.006968 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | -.00013 | .000 | 1 |
| S1 | .02000 | .02119 | .001 | 5.93 | .00094 | .000 | 1 |
| S3 | 2.5000 | 2.4456 | -.054 | -2.17 | .12414 | .000 | 1 |
| S4 | 5.0000 | 4.9512 | -.049 | -.977 | .25145 | .001 | 1 |
| S5 | 10.000 | 10.126 | .126 | 1.26 | .51440 | .001 | 1 |
| S2 | .80000 | .77609 | -.024 | -2.99 | .03930 | .000 | 1 |

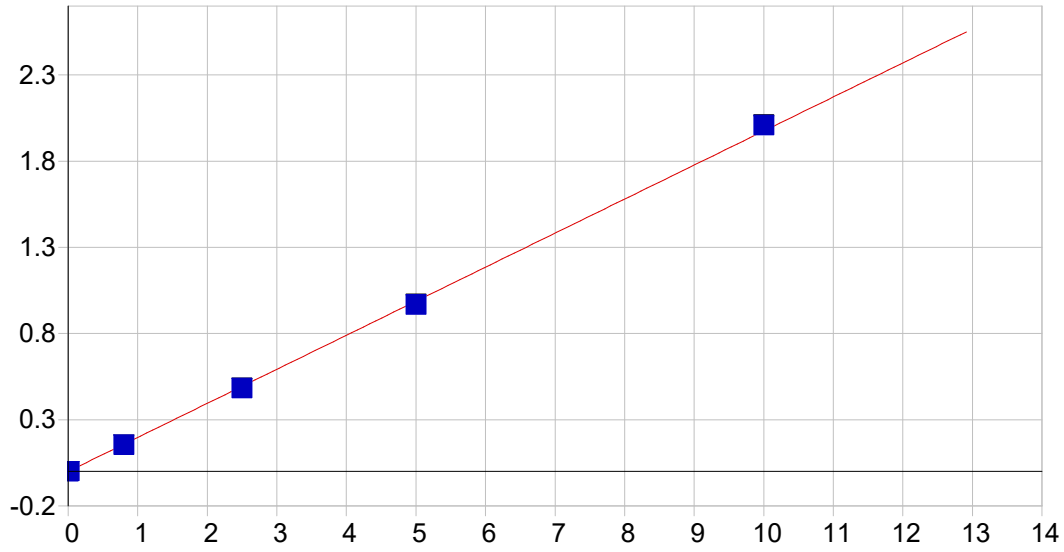



**Tl 190.856 {477}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000401 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.090402 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999947 | Status: | OK. |
| Std Error of Est: | 0.000030 | | |
| Predicted MDL: | 0.001458 | | |
| Predicted MQL: | 0.004861 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00040 | .000 | 1 |
| S1 | .04000 | .04329 | .003 | 8.22 | .00408 | .000 | 1 |
| S3 | 2.5000 | 2.5197 | .020 | .787 | .22406 | .002 | 1 |
| S4 | 5.0000 | 4.9243 | -.076 | -1.51 | .43732 | .004 | 1 |
| S5 | 10.000 | 10.044 | .044 | .444 | .89195 | .012 | 1 |
| S2 | .80000 | .80852 | .009 | 1.06 | .07217 | .001 | 1 |

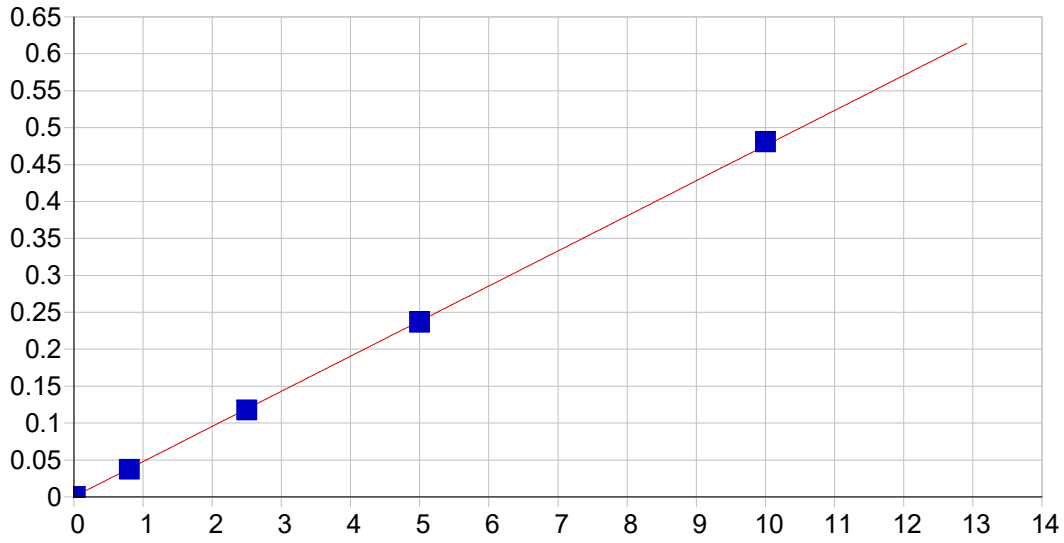



**Pb 220.353 {453}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000022 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.197506 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999823 | Status: | OK. |
| Std Error of Est: | 0.000067 | | |
| Predicted MDL: | 0.001246 | | |
| Predicted MQL: | 0.004154 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00002 | .000 | 1 |
| S1 | .01200 | .01154 | -.000 | -3.84 | .00226 | .000 | 1 |
| S3 | 2.5000 | 2.4458 | -.054 | -2.17 | .48257 | .001 | 1 |
| S4 | 5.0000 | 4.9045 | -.096 | -1.91 | .96767 | .002 | 1 |
| S5 | 10.000 | 10.171 | .171 | 1.71 | 2.0068 | .002 | 1 |
| S2 | .80000 | .77953 | -.020 | -2.56 | .15382 | .000 | 1 |

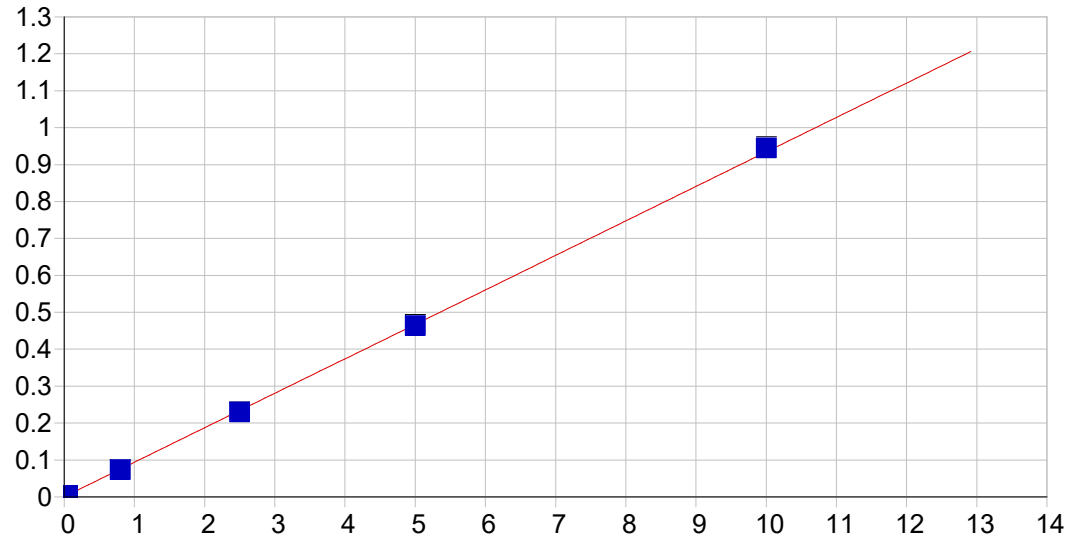



**Se 196.090 {472}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000387 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.047529 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999928 | Status: | OK. |
| Std Error of Est: | 0.000013 | | |
| Predicted MDL: | 0.002829 | | |
| Predicted MQL: | 0.009431 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00039 | .000 | 1 |
| S1 | .02000 | .01897 | -.001 | -5.13 | .00129 | .000 | 1 |
| S3 | 2.5000 | 2.4593 | -.041 | -1.63 | .11724 | .000 | 1 |
| S4 | 5.0000 | 4.9638 | -.036 | -.724 | .23625 | .001 | 1 |
| S5 | 10.000 | 10.100 | .100 | 1.00 | .48032 | .001 | 1 |
| S2 | .80000 | .77743 | -.023 | -2.82 | .03733 | .000 | 1 |

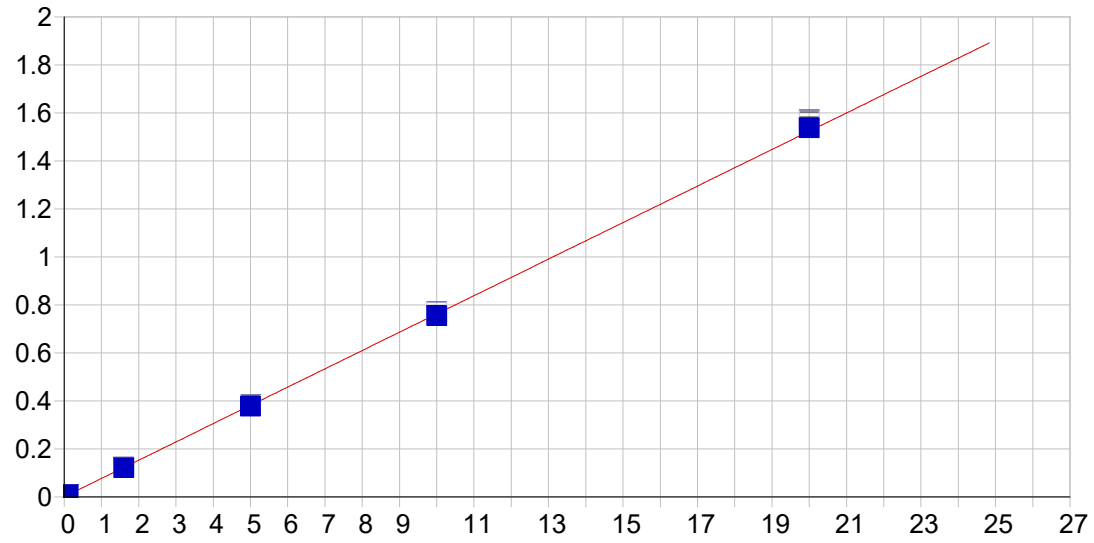



**Sb 206.833 {463}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000579 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.093354 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999921 | Status: | OK. |
| Std Error of Est: | 0.000044 | | |
| Predicted MDL: | 0.001810 | | |
| Predicted MQL: | 0.006035 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00058 | .000 | 1 |
| S1 | .05000 | .04860 | -.001 | -2.80 | .00513 | .000 | 1 |
| S3 | 2.5000 | 2.4546 | -.045 | -1.82 | .23036 | .001 | 1 |
| S4 | 5.0000 | 4.9561 | -.044 | -.878 | .46452 | .003 | 1 |
| S5 | 10.000 | 10.110 | .110 | 1.10 | .94694 | .002 | 1 |
| S2 | .80000 | .78061 | -.019 | -2.42 | .07366 | .000 | 1 |

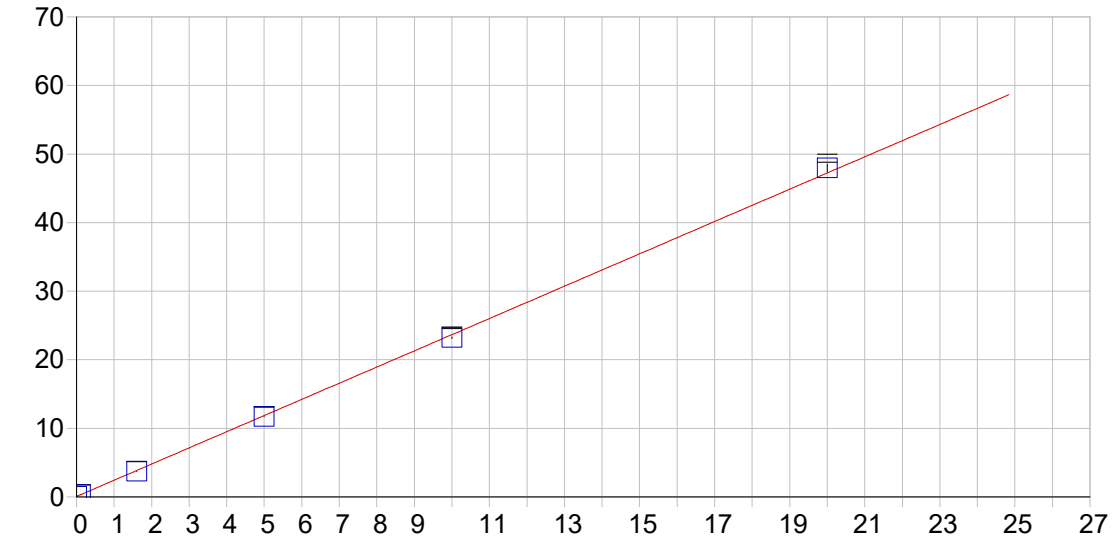



**Al 396.152 { 85}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000814 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.076146 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999948 | Status: | OK. |
| Std Error of Est: | 0.000059 | | |
| Predicted MDL: | 0.010345 | | |
| Predicted MQL: | 0.034484 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00081 | .000 | 1 |
| S1 | .10000 | .10715 | .007 | 7.15 | .00956 | .001 | 1 |
| S3 | 5.0000 | 4.9397 | -.060 | -1.21 | .38434 | .001 | 1 |
| S4 | 10.000 | 9.9013 | -.099 | -.987 | .76953 | .001 | 1 |
| S5 | 20.000 | 20.173 | .173 | .864 | 1.5664 | .004 | 1 |
| S2 | 1.6000 | 1.5787 | -.021 | -1.33 | .12339 | .000 | 1 |

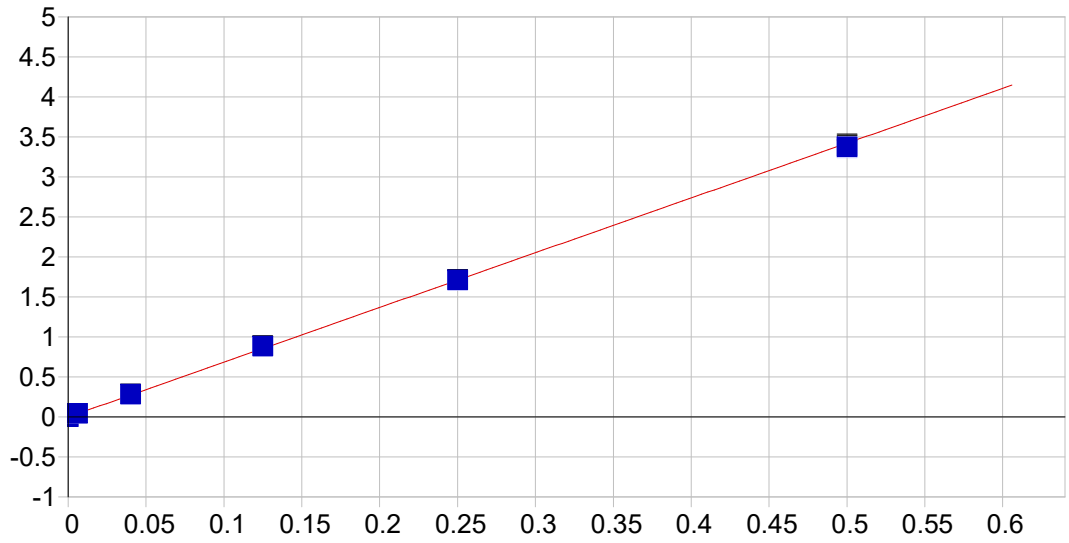



**Ba 493.409 { 68}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.076911 | Re-Slope: | 1.000000 |
| A1 (Gain): | 2.358114 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999852 | Status: | OK. |
| Std Error of Est: | 0.003007 | | |
| Predicted MDL: | 0.000957 | | |
| Predicted MQL: | 0.003188 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | .07693 | .002 | 1 |
| S1 | .10000 | .09803 | -.002 | -1.97 | .30808 | .002 | 1 |
| S3 | 5.0000 | 4.9286 | -.071 | -1.43 | 11.699 | .028 | 1 |
| S4 | 10.000 | 9.8210 | -.179 | -1.79 | 23.236 | .119 | 1 |
| S5 | 20.000 | 20.307 | .307 | 1.54 | 47.963 | .583 | 1 |
| S2 | 1.6000 | 1.5453 | -.055 | -3.42 | 3.7209 | .017 | 1 |

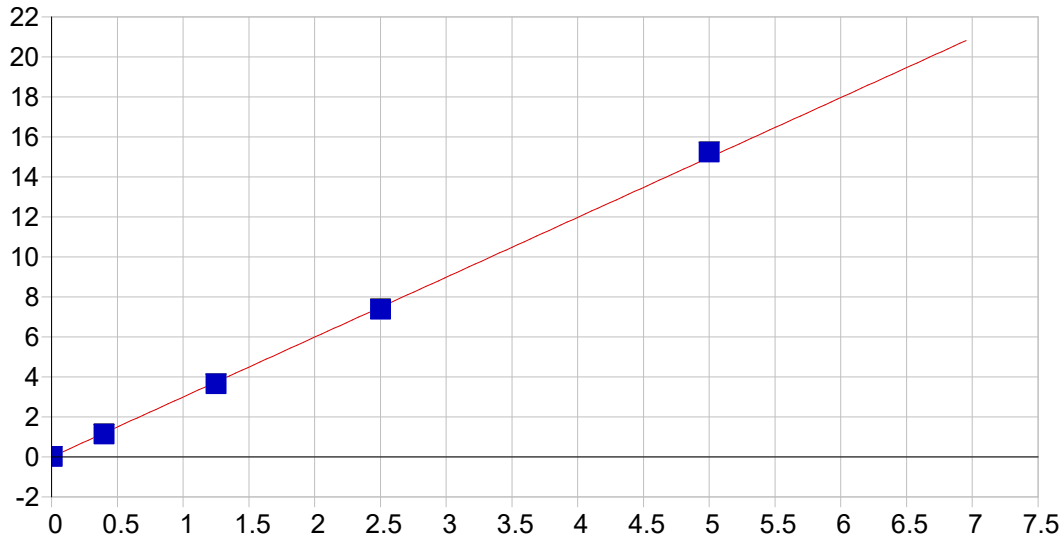



**Be 234.861 {144}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.001063 | Re-Slope: | 1.000000 |
| A1 (Gain): | 6.844405 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999827 | Status: | OK. |
| Std Error of Est: | 0.000365 | | |
| Predicted MDL: | 0.000069 | | |
| Predicted MQL: | 0.000229 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | -.00107 | .000 | 1 |
| S1 | .00600 | .00642 | .000 | 7.05 | .04259 | .000 | 1 |
| S3 | .12500 | .12942 | .004 | 3.54 | .88093 | .003 | 1 |
| S4 | .25000 | .25024 | .000 | .098 | 1.7040 | .006 | 1 |
| S5 | .50000 | .49355 | -.006 | -1.29 | 3.3616 | .035 | 1 |
| S2 | .04000 | .04136 | .001 | 3.41 | .28081 | .003 | 1 |

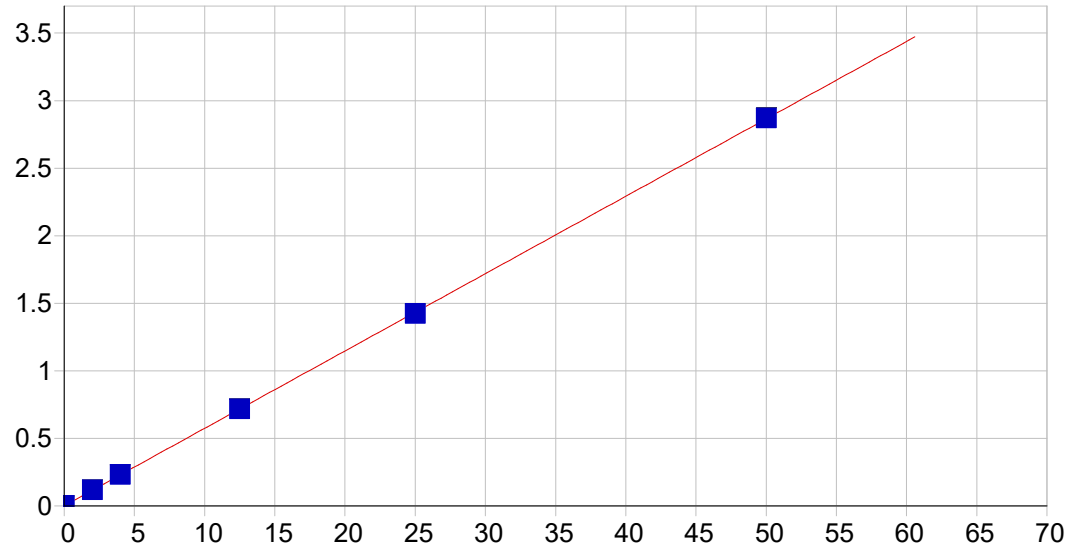



**Cd 226.502 {449}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000443 | Re-Slope: | 1.000000 |
| A1 (Gain): | 2.994412 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999785 | Status: | OK. |
| Std Error of Est: | 0.000563 | | |
| Predicted MDL: | 0.000070 | | |
| Predicted MQL: | 0.000235 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00044 | .000 | 1 |
| S1 | .00600 | .00575 | -.000 | -4.19 | .01683 | .000 | 1 |
| S3 | 1.2500 | 1.2161 | -.034 | -2.71 | 3.6437 | .001 | 1 |
| S4 | 2.5000 | 2.4642 | -.036 | -1.43 | 7.3832 | .008 | 1 |
| S5 | 5.0000 | 5.0890 | .089 | 1.78 | 15.248 | .014 | 1 |
| S2 | .40000 | .38091 | -.019 | -4.77 | 1.1409 | .001 | 1 |

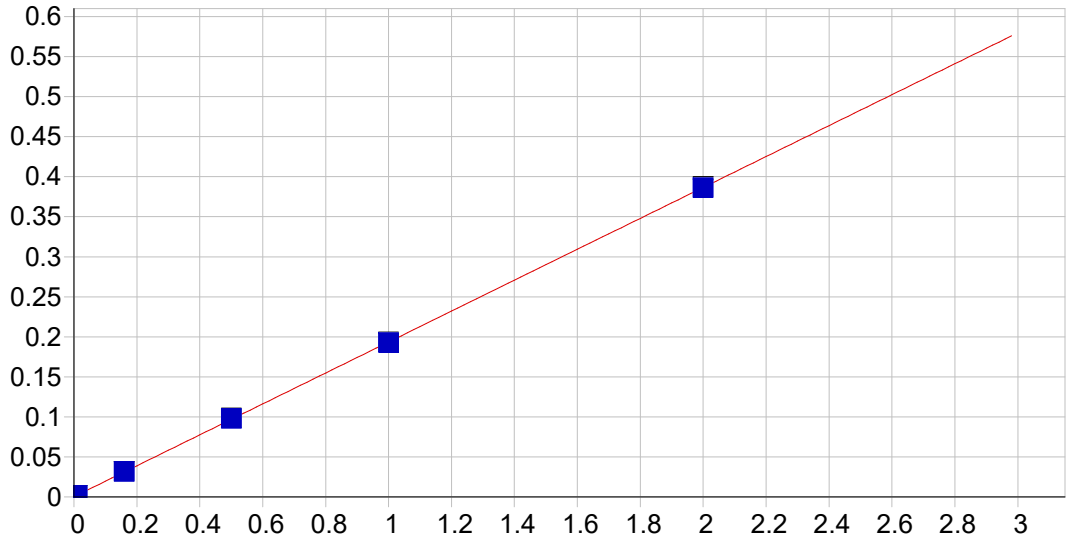



**Ca 373.690 { 90}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.001477 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.057266 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999983 | Status: | OK. |
| Std Error of Est: | 0.000176 | | |
| Predicted MDL: | 0.010818 | | |
| Predicted MQL: | 0.036060 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00005 | -.000 | .000 | .00147 | .001 | 1 |
| S2 | 4.0000 | 4.0117 | .012 | .294 | .23121 | .001 | 1 |
| S3 | 12.500 | 12.520 | .020 | .161 | .71845 | .003 | 1 |
| S4 | 25.000 | 24.815 | -.185 | -.740 | 1.4225 | .001 | 1 |
| S5 | 50.000 | 50.098 | .098 | .195 | 2.8704 | .005 | 1 |
| S1 | 2.0000 | 2.0555 | .056 | 2.78 | .11919 | .000 | 1 |

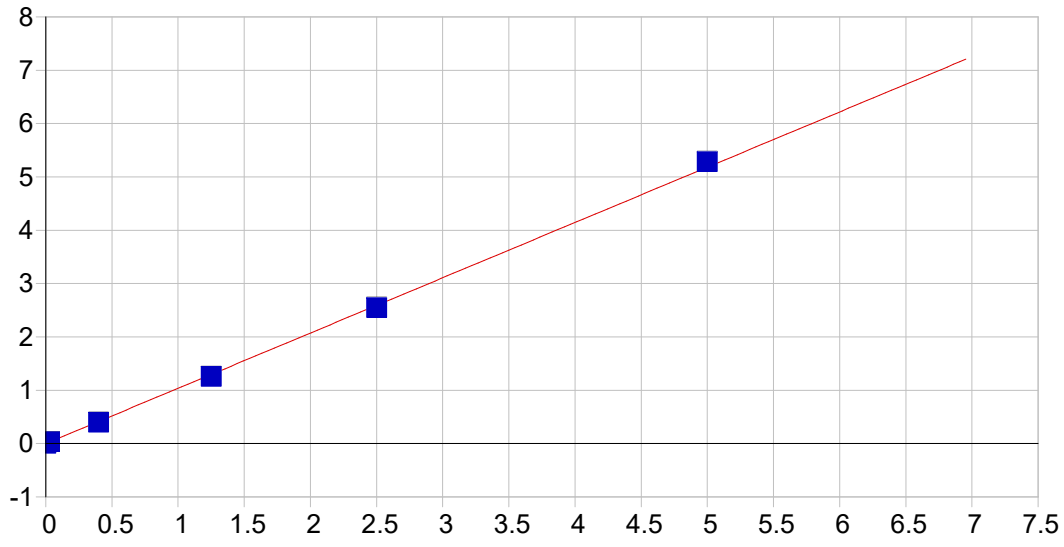



**Cr 267.716 {126}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000278 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.193160 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999984 | Status: | OK. |
| Std Error of Est: | 0.000008 | | |
| Predicted MDL: | 0.000328 | | |
| Predicted MQL: | 0.001092 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00028 | .000 | 1 |
| S1 | .01000 | .00989 | -.000 | -1.10 | .00219 | .000 | 1 |
| S3 | .50000 | .50562 | .006 | 1.12 | .09798 | .000 | 1 |
| S4 | 1.0000 | .99574 | -.004 | -.426 | .19269 | .001 | 1 |
| S5 | 2.0000 | 1.9966 | -.003 | -.168 | .38611 | .001 | 1 |
| S2 | .16000 | .16211 | .002 | 1.32 | .03160 | .000 | 1 |

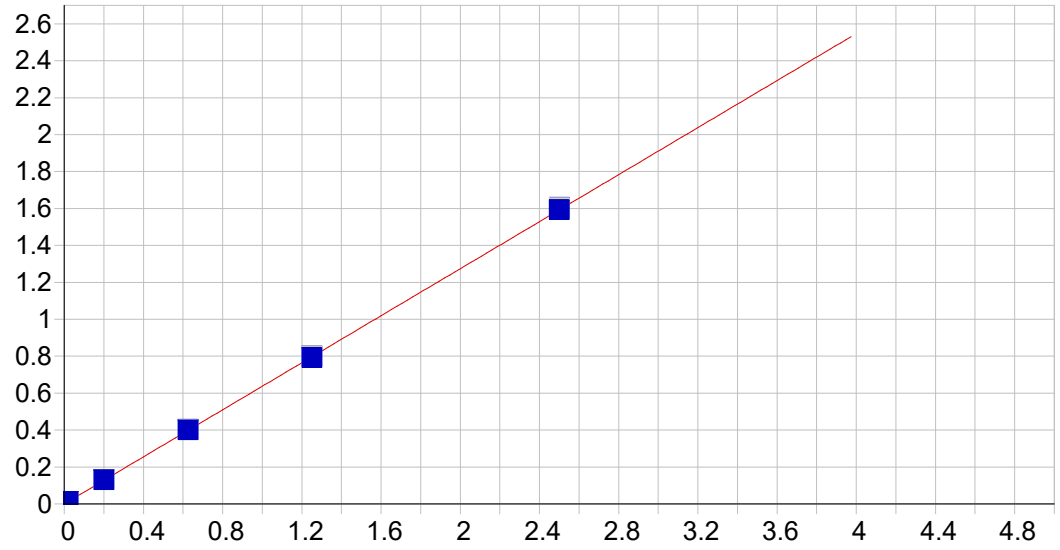



**Co 228.616 {448}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000038 | Re-Slope: | 1.000000 |
| A1 (Gain): | 1.036336 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999759 | Status: | OK. |
| Std Error of Est: | 0.000463 | | |
| Predicted MDL: | 0.000180 | | |
| Predicted MQL: | 0.000599 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00004 | .000 | 1 |
| S1 | .03000 | .02917 | -.001 | -2.76 | .03014 | .000 | 1 |
| S3 | 1.2500 | 1.2134 | -.037 | -2.92 | 1.2598 | .001 | 1 |
| S4 | 2.5000 | 2.4571 | -.043 | -1.72 | 2.5508 | .005 | 1 |
| S5 | 5.0000 | 5.0973 | .097 | 1.95 | 5.2914 | .001 | 1 |
| S2 | .40000 | .38294 | -.017 | -4.26 | .39760 | .001 | 1 |

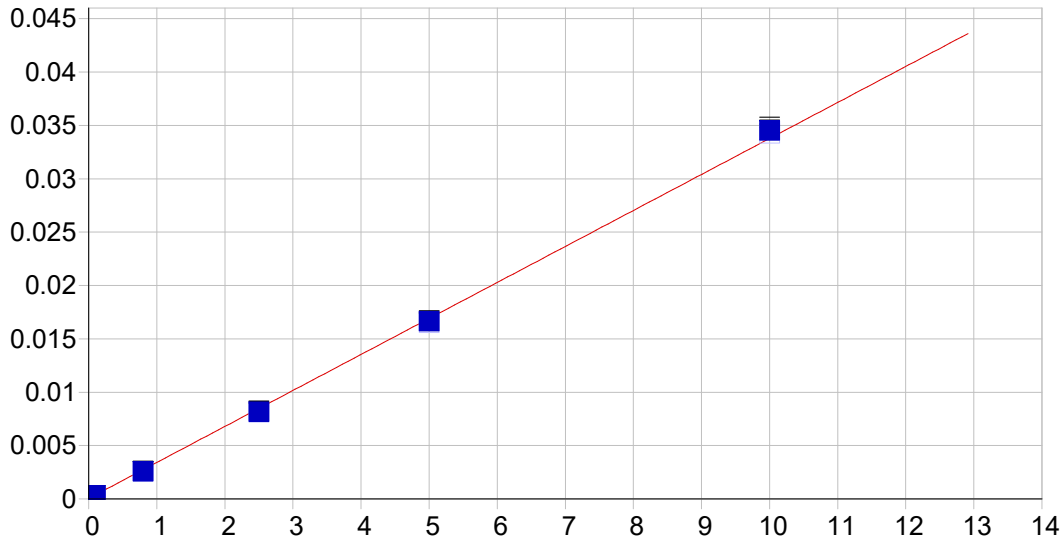



**Cu 224.700 {450}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000506 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.636701 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999987 | Status: | OK. |
| Std Error of Est: | 0.000039 | | |
| Predicted MDL: | 0.000401 | | |
| Predicted MQL: | 0.001338 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00051 | .000 | 1 |
| S1 | .02000 | .02075 | .001 | 3.75 | .01386 | .000 | 1 |
| S3 | .62500 | .62844 | .003 | .550 | .40395 | .001 | 1 |
| S4 | 1.2500 | 1.2433 | -.007 | -.539 | .79873 | .002 | 1 |
| S5 | 2.5000 | 2.4997 | -.000 | -.012 | 1.6053 | .001 | 1 |
| S2 | .20000 | .20285 | .003 | 1.42 | .13072 | .000 | 1 |

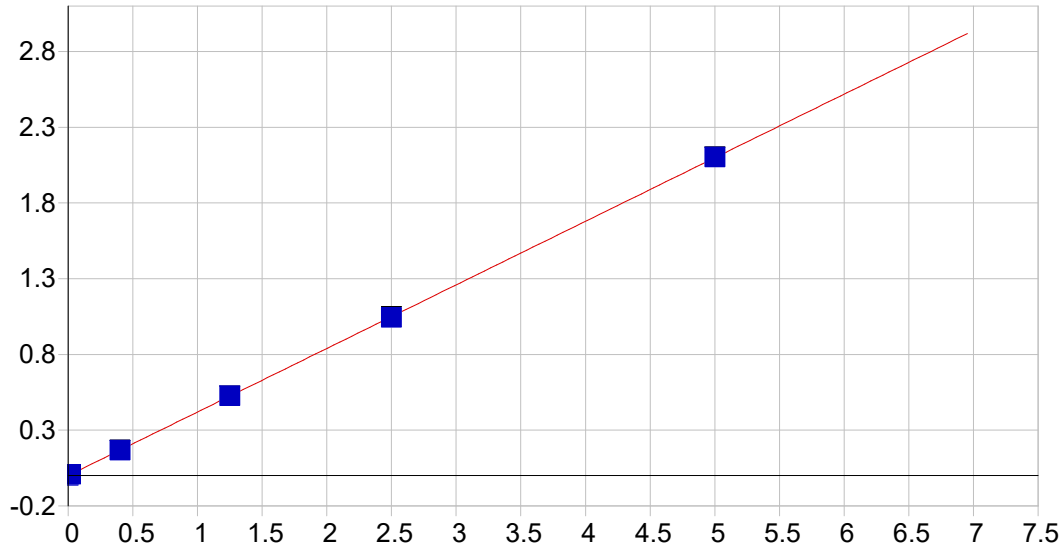



**Fe 240.488 {140}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000041 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.003373 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999660 | Status: | OK. |
| Std Error of Est: | 0.000005 | | |
| Predicted MDL: | 0.006072 | | |
| Predicted MQL: | 0.020242 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | .00004 | .000 | 1 |
| S1 | .10000 | .09497 | -.005 | -5.03 | .00036 | .000 | 1 |
| S3 | 2.5000 | 2.4086 | -.091 | -3.66 | .00809 | .000 | 1 |
| S4 | 5.0000 | 4.9210 | -.079 | -1.58 | .01650 | .000 | 1 |
| S5 | 10.000 | 10.221 | .221 | 2.21 | .03423 | .000 | 1 |
| S2 | .80000 | .75468 | -.045 | -5.67 | .00256 | .000 | 1 |

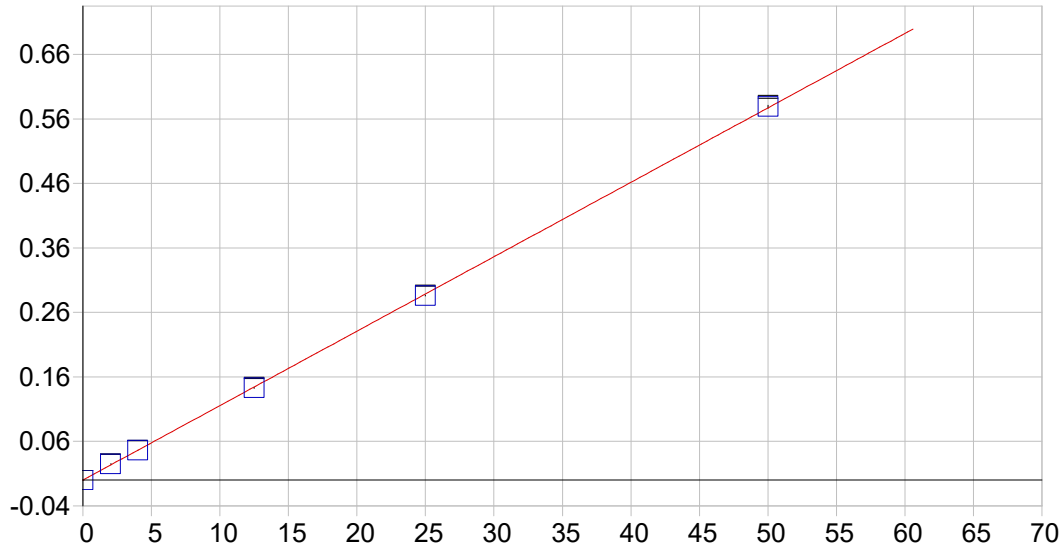



**Mn 257.610 {131}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000165 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.419705 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999986 | Status: | OK. |
| Std Error of Est: | 0.000037 | | |
| Predicted MDL: | 0.000552 | | |
| Predicted MQL: | 0.001841 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00016 | .000 | 1 |
| S1 | .02000 | .02185 | .002 | 9.24 | .00934 | .000 | 1 |
| S3 | 1.2500 | 1.2532 | .003 | .260 | .52626 | .001 | 1 |
| S4 | 2.5000 | 2.4867 | -.013 | -.531 | 1.0441 | .007 | 1 |
| S5 | 5.0000 | 5.0083 | .008 | .167 | 2.1026 | .002 | 1 |
| S2 | .40000 | .39984 | -.000 | -.041 | .16801 | .001 | 1 |

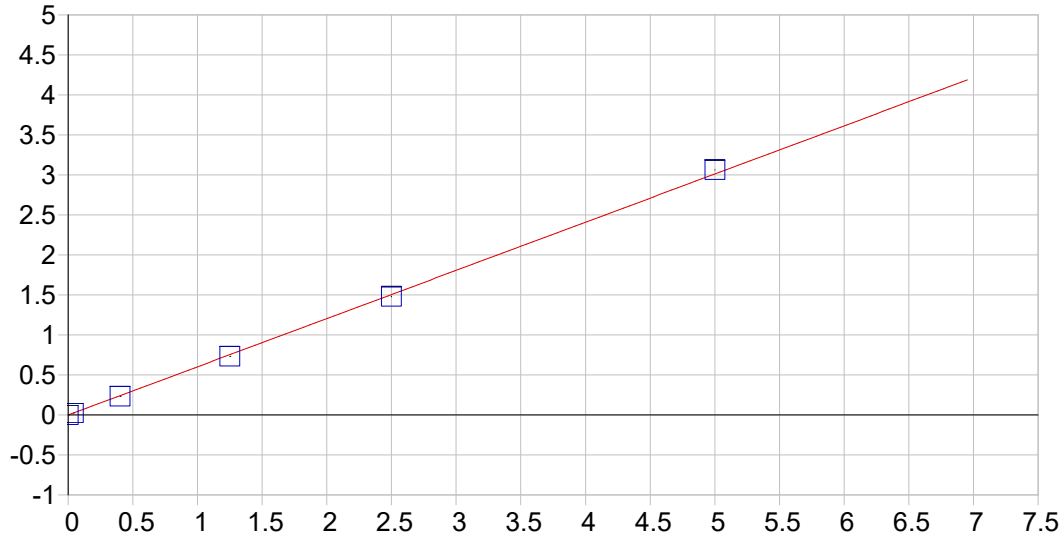



**Mg 279.079 {121}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000093 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.011541 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999920 | Status: | OK. |
| Std Error of Est: | 0.000077 | | |
| Predicted MDL: | 0.025707 | | |
| Predicted MQL: | 0.085691 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00013 | -.000 | .000 | .00009 | .000 | 1 |
| S2 | 4.0000 | 3.9973 | -.003 | -.067 | .04623 | .000 | 1 |
| S3 | 12.500 | 12.395 | -.105 | -.844 | .14314 | .001 | 1 |
| S4 | 25.000 | 24.791 | -.209 | -.835 | .28621 | .001 | 1 |
| S5 | 50.000 | 50.163 | .163 | .327 | .57904 | .002 | 1 |
| S1 | 2.0000 | 2.1534 | .153 | 7.67 | .02495 | .000 | 1 |

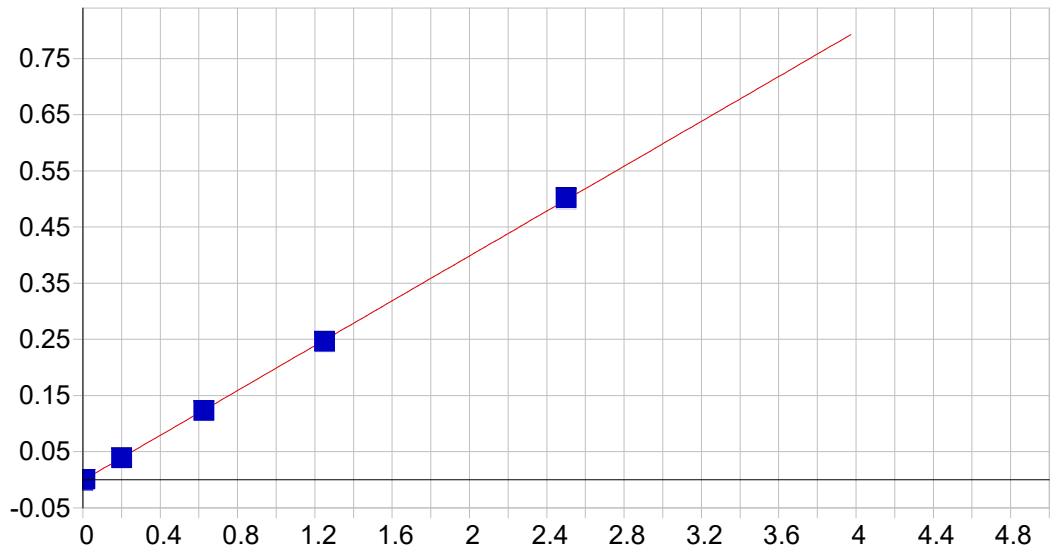



**Ni 231.604 {446}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000497 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.602308 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999812 | Status: | OK. |
| Std Error of Est: | 0.000274 | | |
| Predicted MDL: | 0.000330 | | |
| Predicted MQL: | 0.001099 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00049 | .000 | 1 |
| S1 | .04000 | .03934 | -.001 | -1.66 | .02320 | .000 | 1 |
| S3 | 1.2500 | 1.2186 | -.031 | -2.51 | .73348 | .000 | 1 |
| S4 | 2.5000 | 2.4597 | -.040 | -1.61 | 1.4810 | .003 | 1 |
| S5 | 5.0000 | 5.0866 | .087 | 1.73 | 3.0632 | .002 | 1 |
| S2 | .40000 | .38572 | -.014 | -3.57 | .23182 | .000 | 1 |

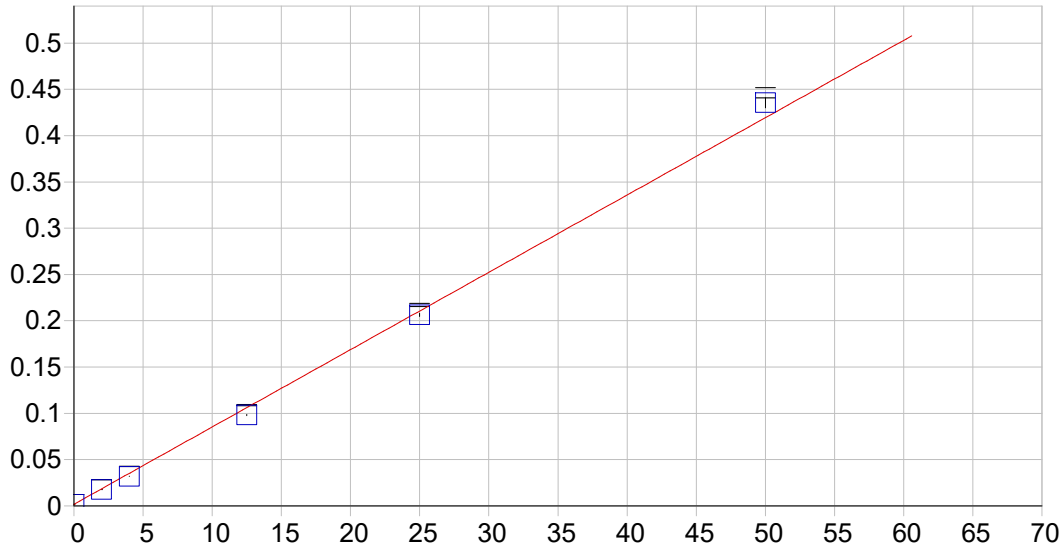



**Ag 328.068 {103}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000760 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.199696 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999969 | Status: | OK. |
| Std Error of Est: | 0.000013 | | |
| Predicted MDL: | 0.000500 | | |
| Predicted MQL: | 0.001667 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00076 | .000 | 1 |
| S1 | .01000 | .01007 | .000 | .690 | .00123 | .000 | 1 |
| S3 | .62500 | .62077 | -.004 | -.677 | .12260 | .000 | 1 |
| S4 | 1.2500 | 1.2371 | -.013 | -1.03 | .24507 | .000 | 1 |
| S5 | 2.5000 | 2.5173 | .017 | .691 | .49951 | .001 | 1 |
| S2 | .20000 | .19981 | -.000 | -.094 | .03895 | .000 | 1 |

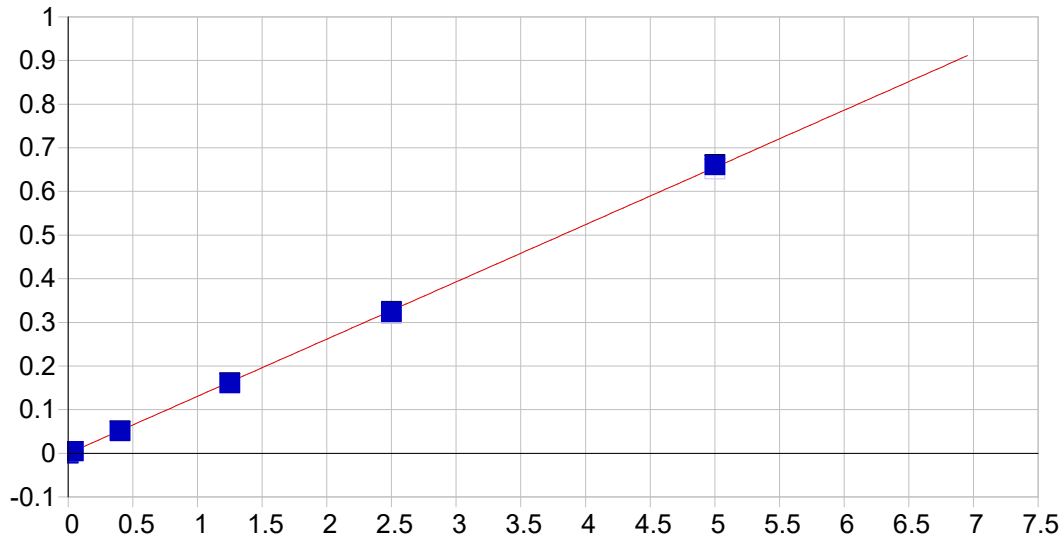



**Na 589.592 { 57}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.001771 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.008353 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.998919 | Status: | OK. |
| Std Error of Est: | 0.000206 | | |
| Predicted MDL: | 0.016728 | | |
| Predicted MQL: | 0.055760 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00042 | .000 | .000 | .00177 | .000 | 1 |
| S2 | 4.0000 | 3.6159 | -.384 | -9.60 | .03197 | .000 | 1 |
| S3 | 12.500 | 11.543 | -.957 | -7.66 | .09818 | .001 | 1 |
| S4 | 25.000 | 24.502 | -.498 | -1.99 | .20642 | .002 | 1 |
| S5 | 50.000 | 51.950 | 1.95 | 3.90 | .43569 | .005 | 1 |
| S1 | 2.0000 | 1.8892 | -.111 | -5.54 | .01755 | .000 | 1 |

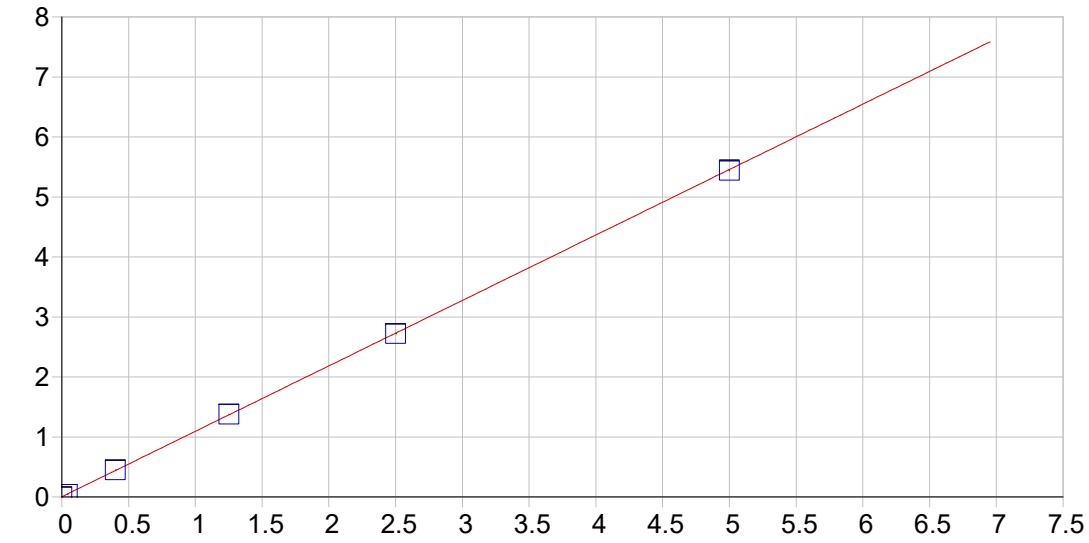



**V 292.402 {115}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000567 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.131121 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999930 | Status: | OK. |
| Std Error of Est: | 0.000036 | | |
| Predicted MDL: | 0.002671 | | |
| Predicted MQL: | 0.008904 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | -.00057 | .000 | 1 |
| S1 | .04000 | .04344 | .003 | 8.61 | .00493 | .000 | 1 |
| S3 | 1.2500 | 1.2334 | -.017 | -1.33 | .15877 | .000 | 1 |
| S4 | 2.5000 | 2.4758 | -.024 | -.966 | .31929 | .001 | 1 |
| S5 | 5.0000 | 5.0441 | .044 | .883 | .65127 | .001 | 1 |
| S2 | .40000 | .39326 | -.007 | -1.69 | .05023 | .000 | 1 |

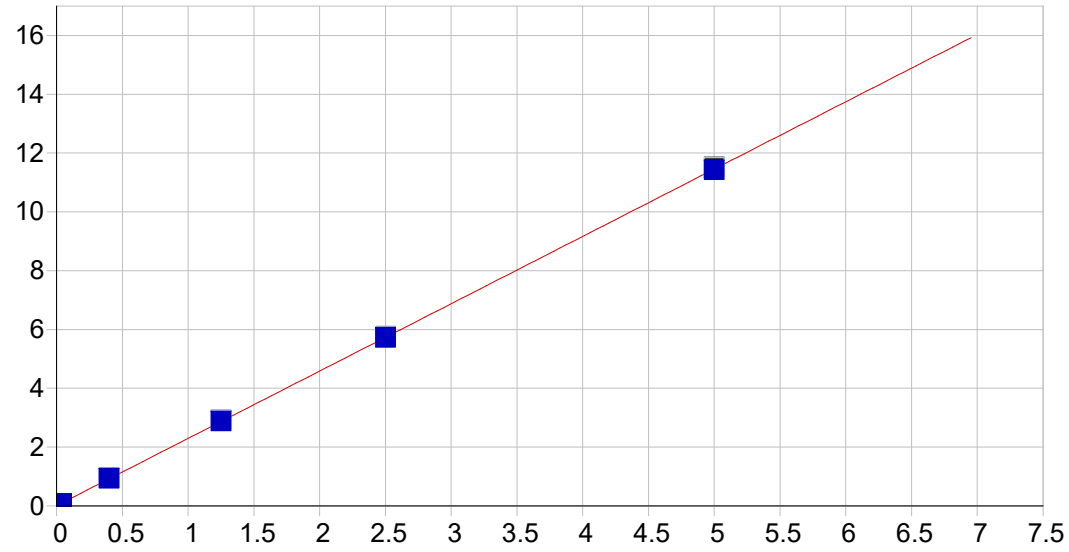



**Zn 206.200 {464}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.002551 | Re-Slope: | 1.000000 |
| A1 (Gain): | 1.090652 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999981 | Status: | OK. |
| Std Error of Est: | 0.000156 | | |
| Predicted MDL: | 0.000141 | | |
| Predicted MQL: | 0.000470 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00255 | .000 | 1 |
| S1 | .04000 | .04079 | .001 | 1.99 | .04704 | .000 | 1 |
| S3 | 1.2500 | 1.2613 | .011 | .906 | 1.3782 | .001 | 1 |
| S4 | 2.5000 | 2.4918 | -.008 | -.328 | 2.7202 | .001 | 1 |
| S5 | 5.0000 | 4.9879 | -.012 | -.242 | 5.4426 | .007 | 1 |
| S2 | .40000 | .40821 | .008 | 2.05 | .44777 | .000 | 1 |

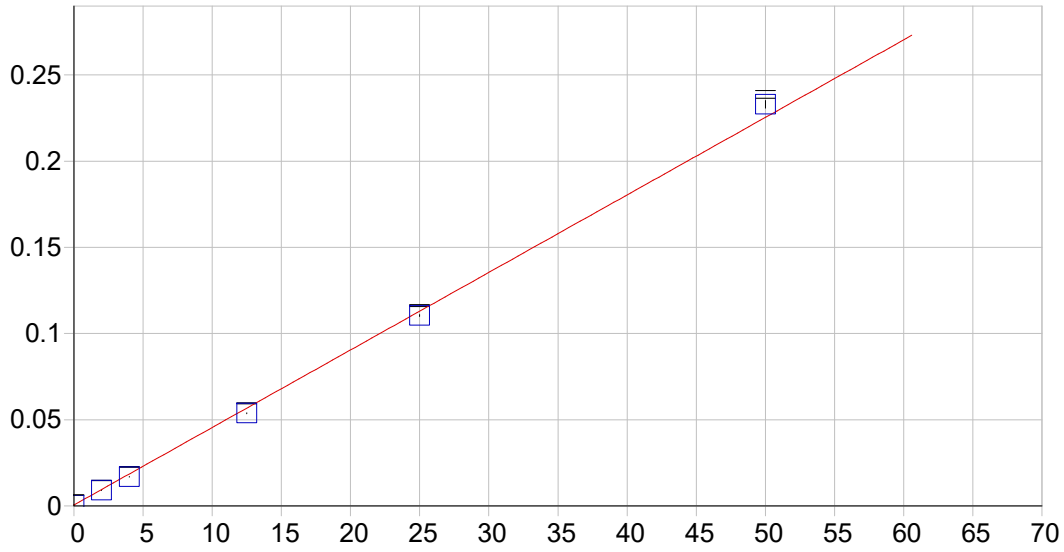



**Zn 213.856 {158}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.006729 | Re-Slope: | 1.000000 |
| A1 (Gain): | 2.289723 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999992 | Status: | OK. |
| Std Error of Est: | 0.000221 | | |
| Predicted MDL: | 0.000238 | | |
| Predicted MQL: | 0.000793 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00673 | .000 | 1 |
| S1 | .04000 | .04074 | .001 | 1.85 | .10065 | .001 | 1 |
| S3 | 1.2500 | 1.2584 | .008 | .673 | 2.9081 | .011 | 1 |
| S4 | 2.5000 | 2.4959 | -.004 | -.164 | 5.7615 | .011 | 1 |
| S5 | 5.0000 | 4.9901 | -.010 | -.198 | 11.512 | .018 | 1 |
| S2 | .40000 | .40485 | .005 | 1.21 | .94010 | .003 | 1 |

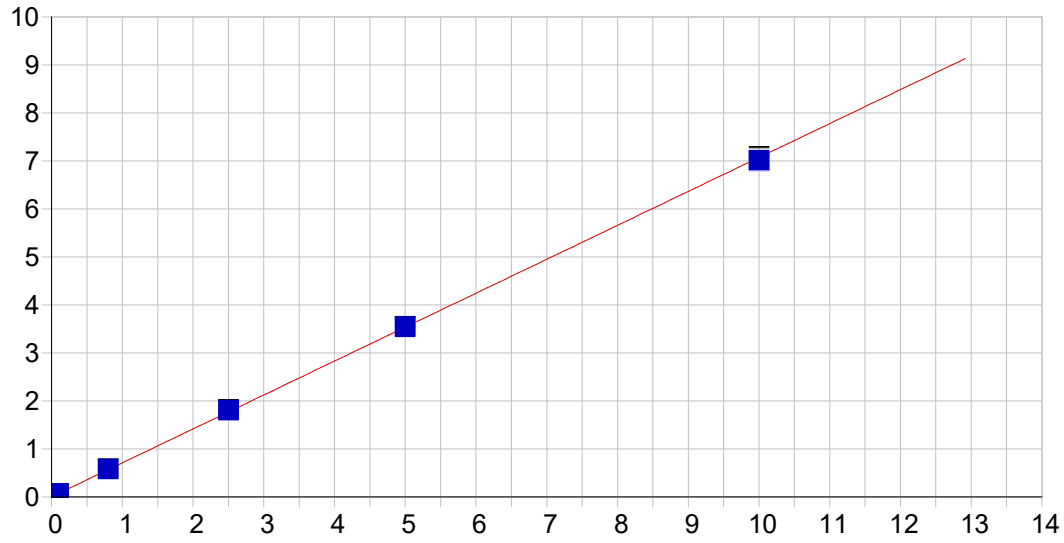



**K 766.490 { 44}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000534 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.004498 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999234 | Status: | OK. |
| Std Error of Est: | 0.000093 | | |
| Predicted MDL: | 0.037470 | | |
| Predicted MQL: | 0.124899 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00037 | .000 | .000 | .00054 | .000 | 1 |
| S2 | 4.0000 | 3.6367 | -.363 | -9.08 | .01689 | .000 | 1 |
| S3 | 12.500 | 11.835 | -.665 | -5.32 | .05376 | .000 | 1 |
| S4 | 25.000 | 24.440 | -.560 | -2.24 | .11045 | .001 | 1 |
| S5 | 50.000 | 51.691 | 1.69 | 3.38 | .23302 | .002 | 1 |
| S1 | 2.0000 | 1.8976 | -.102 | -5.12 | .00907 | .000 | 1 |

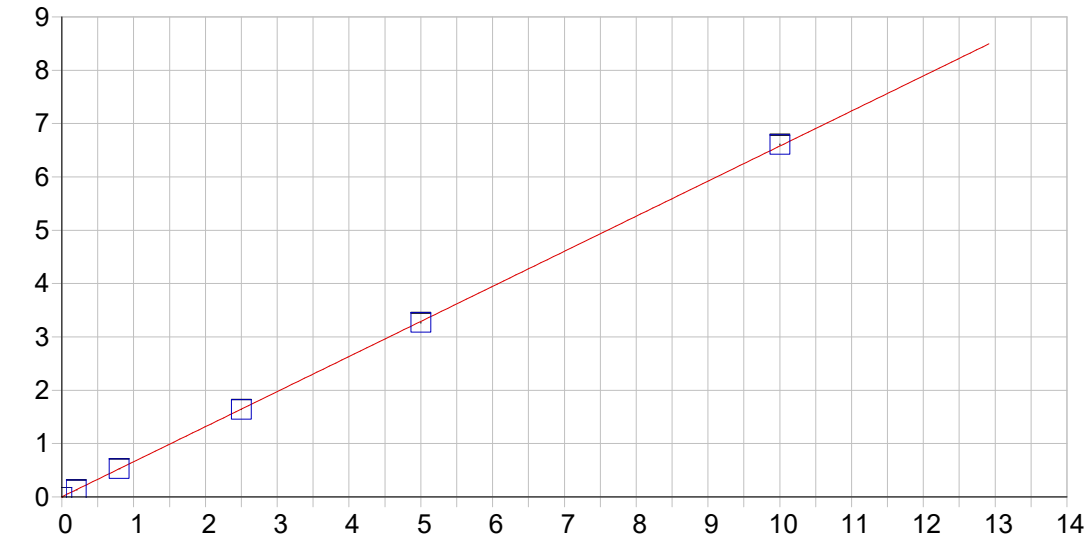



**B 249.678 {135}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.002531 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.706876 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999937 | Status: | OK. |
| Std Error of Est: | 0.000414 | | |
| Predicted MDL: | 0.000716 | | |
| Predicted MQL: | 0.002386 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00001 | -.000 | .000 | .00253 | .000 | 1 |
| S1 | .10000 | .10218 | .002 | 2.18 | .07434 | .000 | 1 |
| S3 | 2.5000 | 2.5549 | .055 | 2.20 | 1.8021 | .010 | 1 |
| S4 | 5.0000 | 5.0111 | .011 | .221 | 3.5320 | .006 | 1 |
| S5 | 10.000 | 9.9161 | -.084 | -.839 | 6.9865 | .081 | 1 |
| S2 | .80000 | .81580 | .016 | 1.97 | .57716 | .006 | 1 |

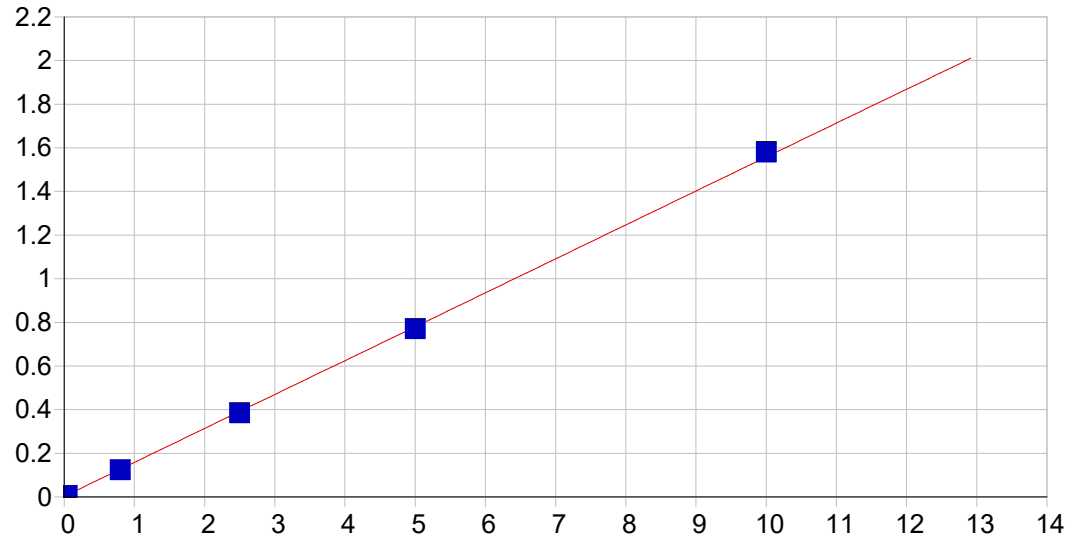



**Mo 202.030 {467}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000553 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.657844 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999988 | Status: | OK. |
| Std Error of Est: | 0.000238 | | |
| Predicted MDL: | 0.000246 | | |
| Predicted MQL: | 0.000821 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00055 | .000 | 1 |
| S1 | .20000 | .20271 | .003 | 1.35 | .13390 | .000 | 1 |
| S3 | 2.5000 | 2.4911 | -.009 | -.356 | 1.6393 | .002 | 1 |
| S4 | 5.0000 | 4.9672 | -.033 | -.656 | 3.2682 | .010 | 1 |
| S5 | 10.000 | 10.039 | .039 | .392 | 6.6048 | .013 | 1 |
| S2 | .80000 | .79977 | -.000 | -.028 | .52668 | .000 | 1 |

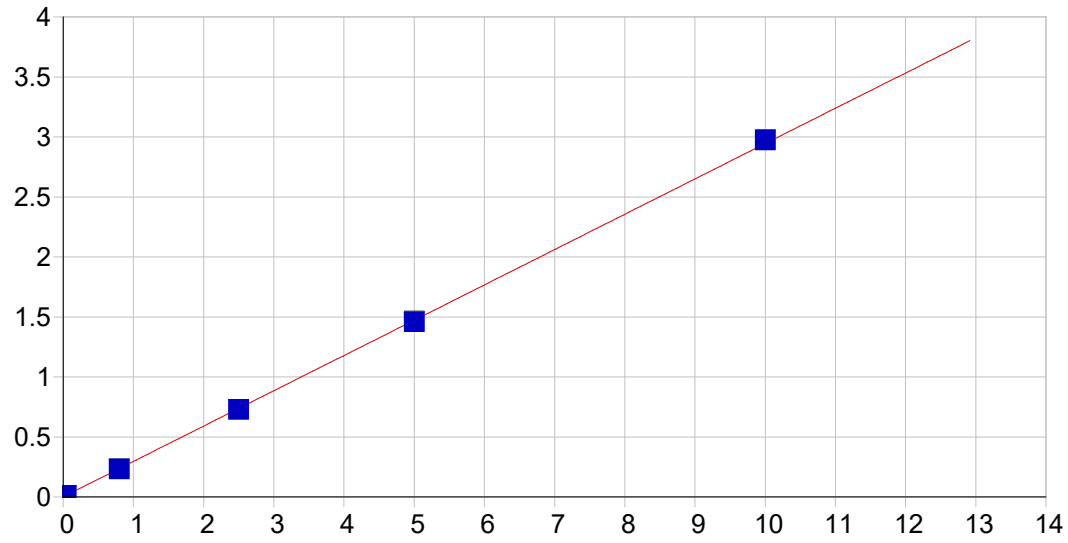



**Sn 189.989 {478}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.002779 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.155472 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999865 | Status: | OK. |
| Std Error of Est: | 0.000085 | | |
| Predicted MDL: | 0.000580 | | |
| Predicted MQL: | 0.001935 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | .00278 | .000 | 1 |
| S1 | .04000 | .03566 | -.004 | -10.9 | .00832 | .000 | 1 |
| S3 | 2.5000 | 2.4574 | -.043 | -1.71 | .38443 | .000 | 1 |
| S4 | 5.0000 | 4.9328 | -.067 | -1.34 | .76889 | .001 | 1 |
| S5 | 10.000 | 10.141 | .141 | 1.41 | 1.5778 | .003 | 1 |
| S2 | .80000 | .77358 | -.026 | -3.30 | .12292 | .000 | 1 |

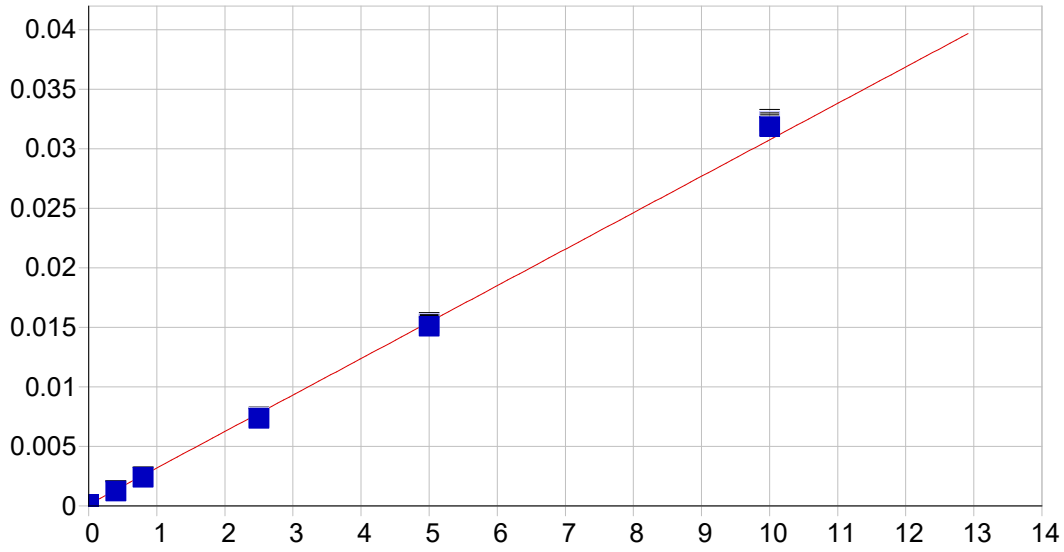



**Ti 336.121 {100}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.001423 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.294263 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999932 | Status: | OK. |
| Std Error of Est: | 0.000114 | | |
| Predicted MDL: | 0.001529 | | |
| Predicted MQL: | 0.005097 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00142 | .000 | 1 |
| S1 | .04000 | .03790 | -.002 | -5.25 | .01257 | .000 | 1 |
| S3 | 2.5000 | 2.4673 | -.033 | -1.31 | .72718 | .000 | 1 |
| S4 | 5.0000 | 4.9501 | -.050 | -.998 | 1.4575 | .005 | 1 |
| S5 | 10.000 | 10.103 | .103 | 1.03 | 2.9732 | .000 | 1 |
| S2 | .80000 | .78202 | -.018 | -2.25 | .23146 | .001 | 1 |

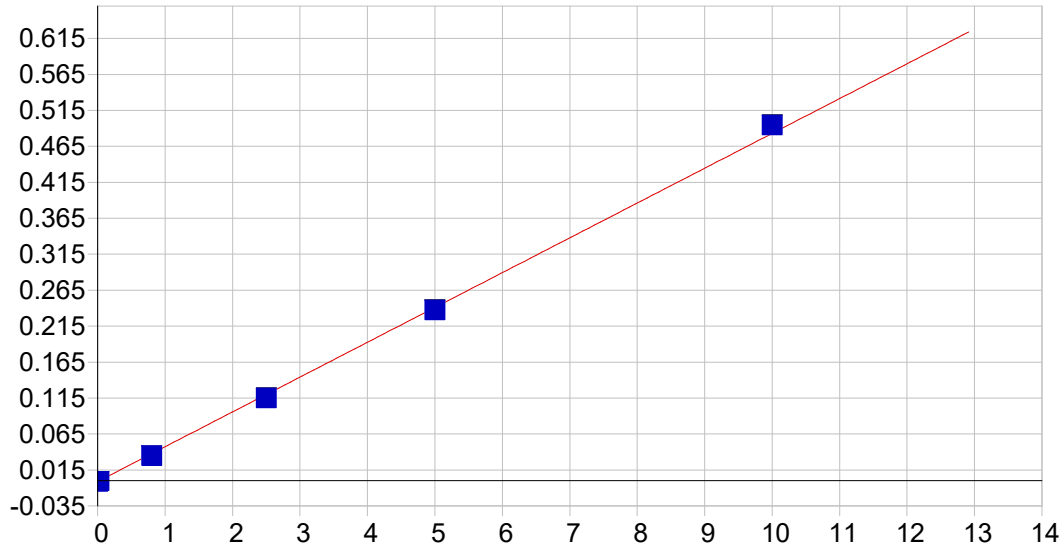



**Si 288.158 {117}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000127 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.003063 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999136 | Status: | OK. |
| Std Error of Est: | 0.000014 | | |
| Predicted MDL: | 0.011970 | | |
| Predicted MQL: | 0.039900 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00009 | .000 | .000 | .00013 | .000 | 1 |
| S1 | .40000 | .35894 | -.041 | -10.3 | .00123 | .000 | 1 |
| S3 | 2.5000 | 2.3532 | -.147 | -5.87 | .00745 | .000 | 1 |
| S4 | 5.0000 | 4.8858 | -.114 | -2.28 | .01532 | .000 | 1 |
| S5 | 10.000 | 10.363 | .363 | 3.63 | .03233 | .000 | 1 |
| S2 | .80000 | .73882 | -.061 | -7.65 | .00243 | .000 | 1 |

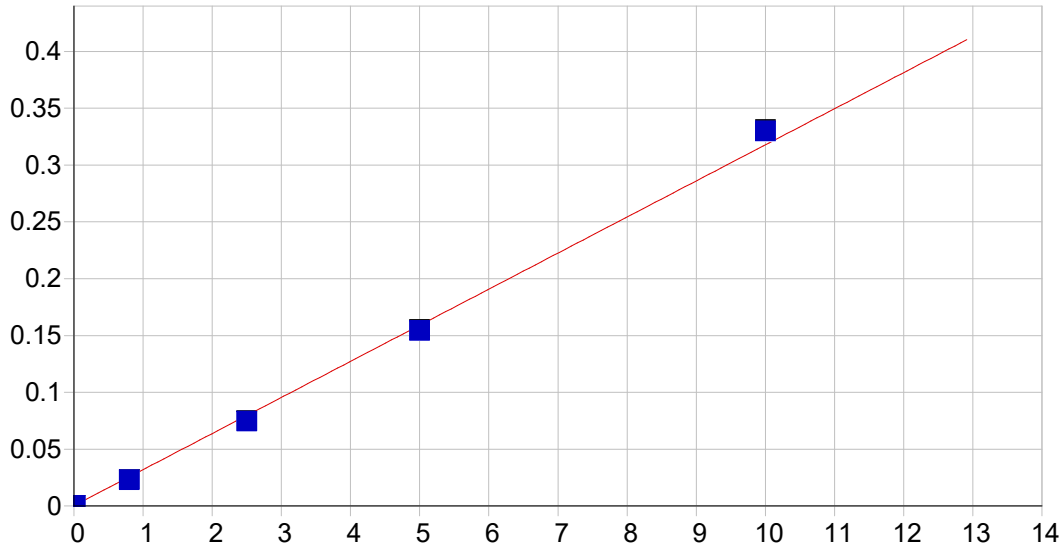



**P 177.495 {490}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.001117 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.048404 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999565 | Status: | OK. |
| Std Error of Est: | 0.000033 | | |
| Predicted MDL: | 0.001558 | | |
| Predicted MQL: | 0.005193 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | -.00112 | .000 | 1 |
| S1 | .02000 | .01654 | -.003 | -17.3 | -.00032 | .000 | 1 |
| S3 | 2.5000 | 2.3954 | -.105 | -4.19 | .11481 | .000 | 1 |
| S4 | 5.0000 | 4.9292 | -.071 | -1.42 | .23744 | .001 | 1 |
| S5 | 10.000 | 10.238 | .238 | 2.38 | .49435 | .001 | 1 |
| S2 | .80000 | .74122 | -.059 | -7.35 | .03475 | .000 | 1 |

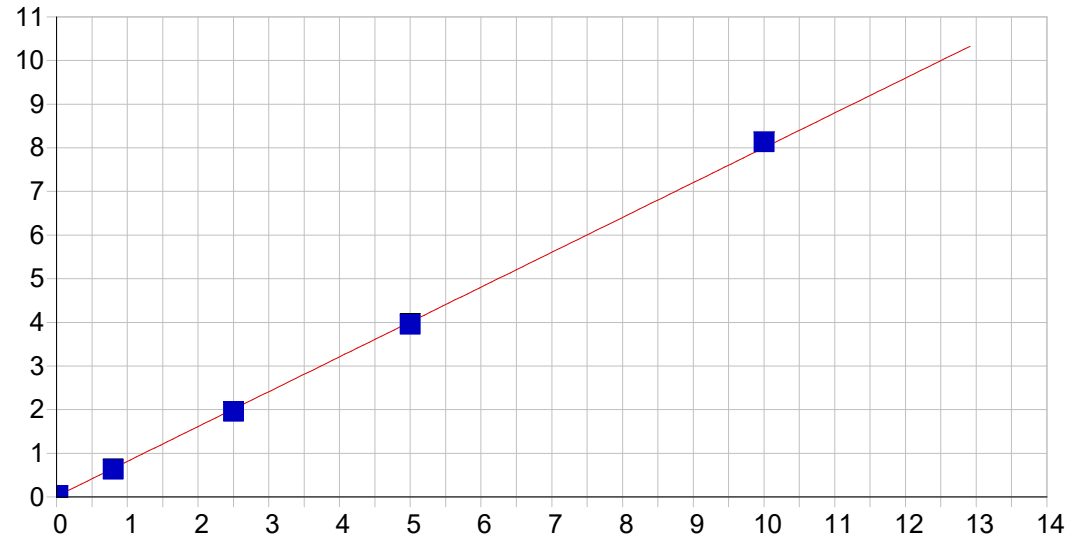



**S 182.034 {485}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000180 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.031767 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.998977 | Status: | OK. |
| Std Error of Est: | 0.000034 | | |
| Predicted MDL: | 0.002598 | | |
| Predicted MQL: | 0.008659 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00018 | .000 | 1 |
| S1 | .02000 | .01932 | -.001 | -3.41 | .00077 | .000 | 1 |
| S3 | 2.5000 | 2.3411 | -.159 | -6.36 | .07434 | .000 | 1 |
| S4 | 5.0000 | 4.8578 | -.142 | -2.84 | .15409 | .001 | 1 |
| S5 | 10.000 | 10.384 | .384 | 3.84 | .32922 | .001 | 1 |
| S2 | .80000 | .71790 | -.082 | -10.3 | .02292 | .000 | 1 |

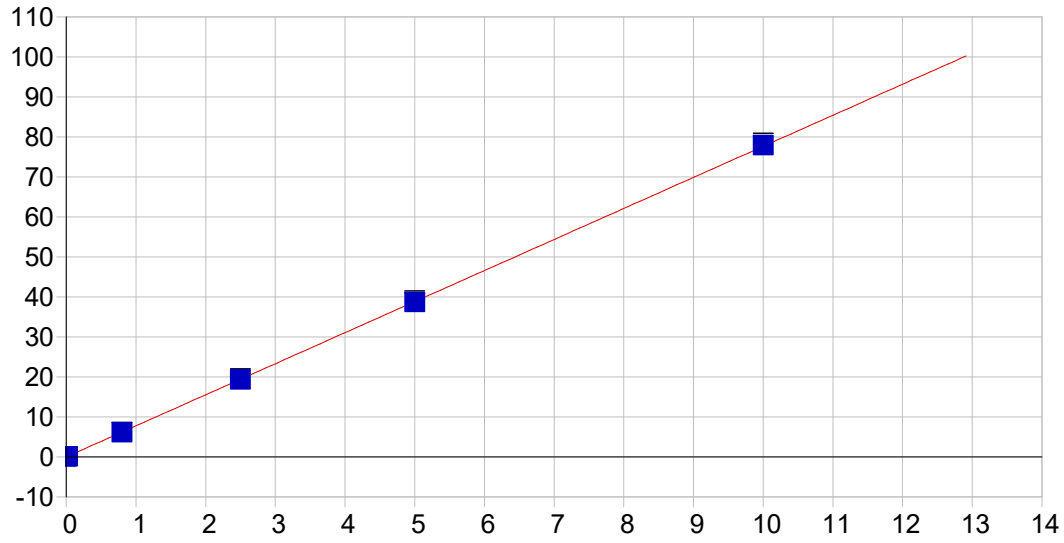



**Li 670.784 { 50}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.015049 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.798600 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999800 | Status: | OK. |
| Std Error of Est: | 0.000375 | | |
| Predicted MDL: | 0.001808 | | |
| Predicted MQL: | 0.006028 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | .01505 | .001 | 1 |
| S5 | 10.000 | 10.168 | .168 | 1.68 | 8.1417 | .004 | 1 |
| S4 | 5.0000 | 4.9299 | -.070 | -1.40 | 3.9553 | .019 | 1 |
| S3 | 2.5000 | 2.4328 | -.067 | -2.69 | 1.9595 | .001 | 1 |
| S1 | .02000 | .01587 | -.004 | -20.6 | .02800 | .001 | 1 |
| S2 | .80000 | .77343 | -.027 | -3.32 | .63322 | .003 | 1 |

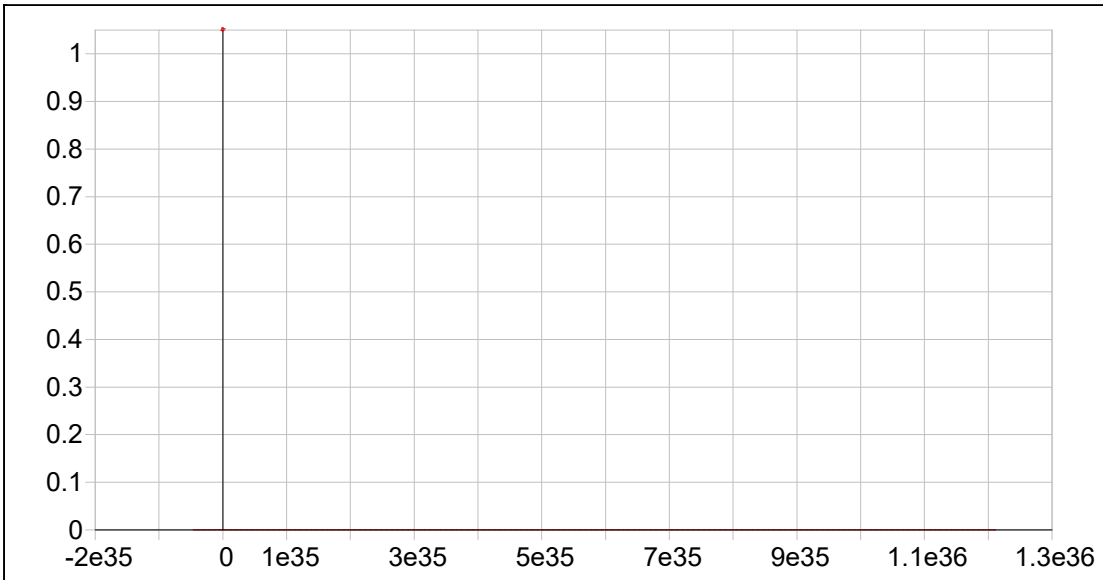



**Sr 407.771 { 83}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 13:04:03 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000116 | Re-Slope: | 1.000000 |
| A1 (Gain): | 7.764139 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999991 | Status: | OK. |
| Std Error of Est: | 0.000771 | | |
| Predicted MDL: | 0.000098 | | |
| Predicted MQL: | 0.000327 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00011 | .000 | 1 |
| S1 | .02000 | .01979 | -.000 | -1.07 | .15424 | .001 | 1 |
| S3 | 2.5000 | 2.4935 | -.007 | -.261 | 19.378 | .176 | 1 |
| S4 | 5.0000 | 4.9855 | -.014 | -.289 | 38.745 | .255 | 1 |
| S5 | 10.000 | 10.033 | .033 | .326 | 77.969 | .484 | 1 |
| S2 | .80000 | .78864 | -.011 | -1.42 | 6.1289 | .024 | 1 |

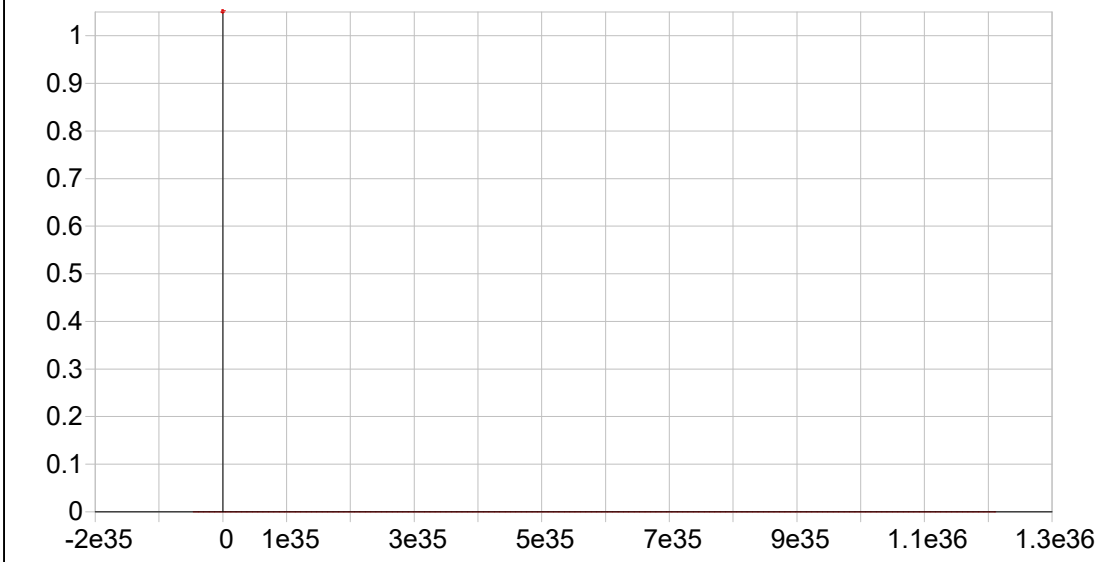



**Y 224.306 {450}***

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/20/2025 12:36:45 | 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 |
|---|---|---|---|---|---|---|---|



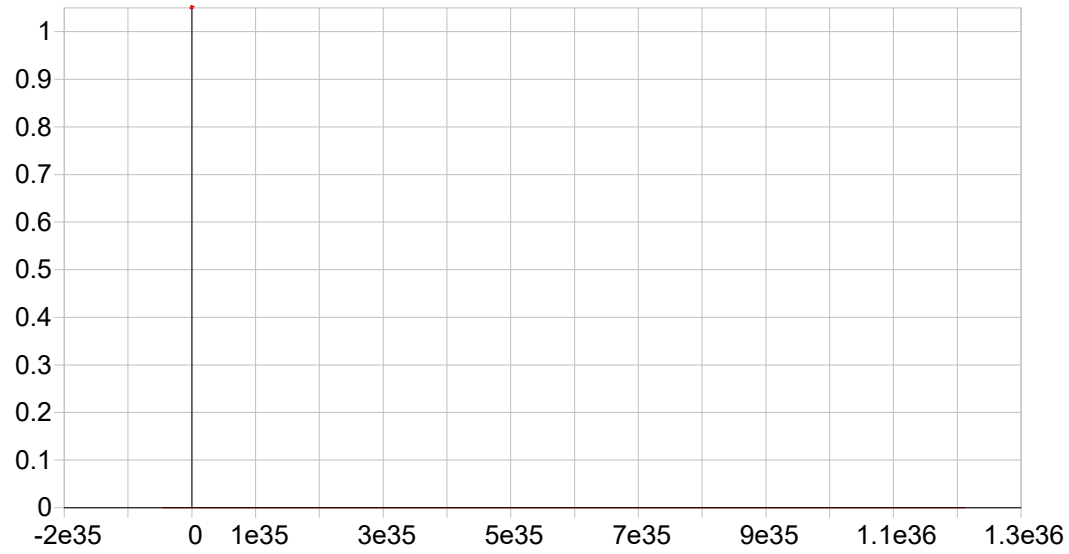

**Y 360.073 { 94}***

| | | | | | |
|---|---|---|---|---|---|
| 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 |

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

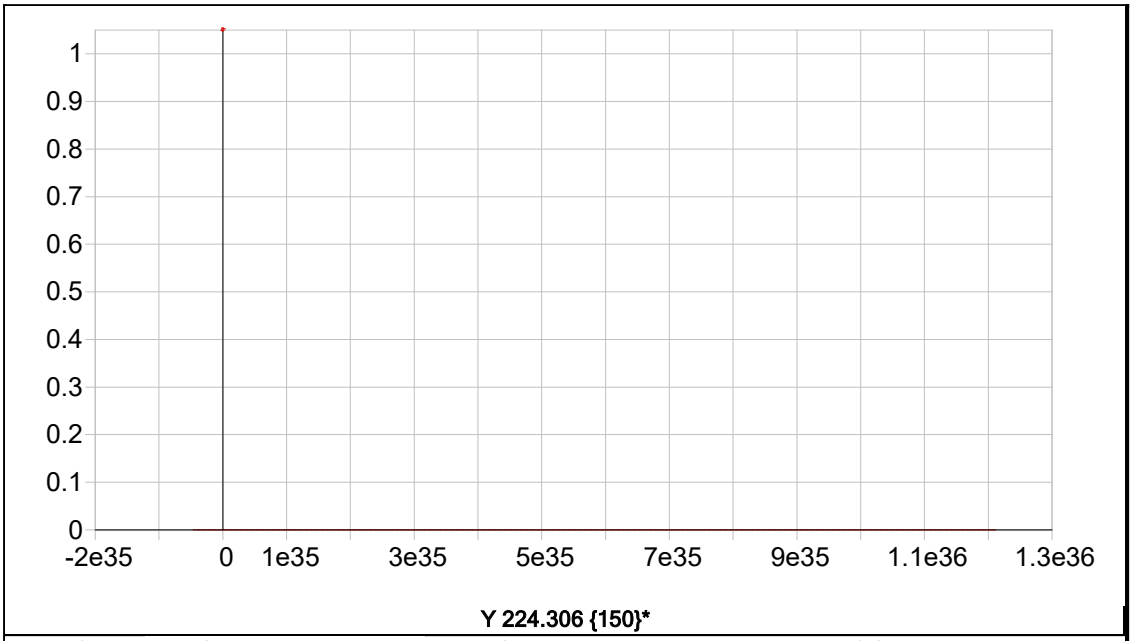
| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|




**Y 371.030 { 91}***

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

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

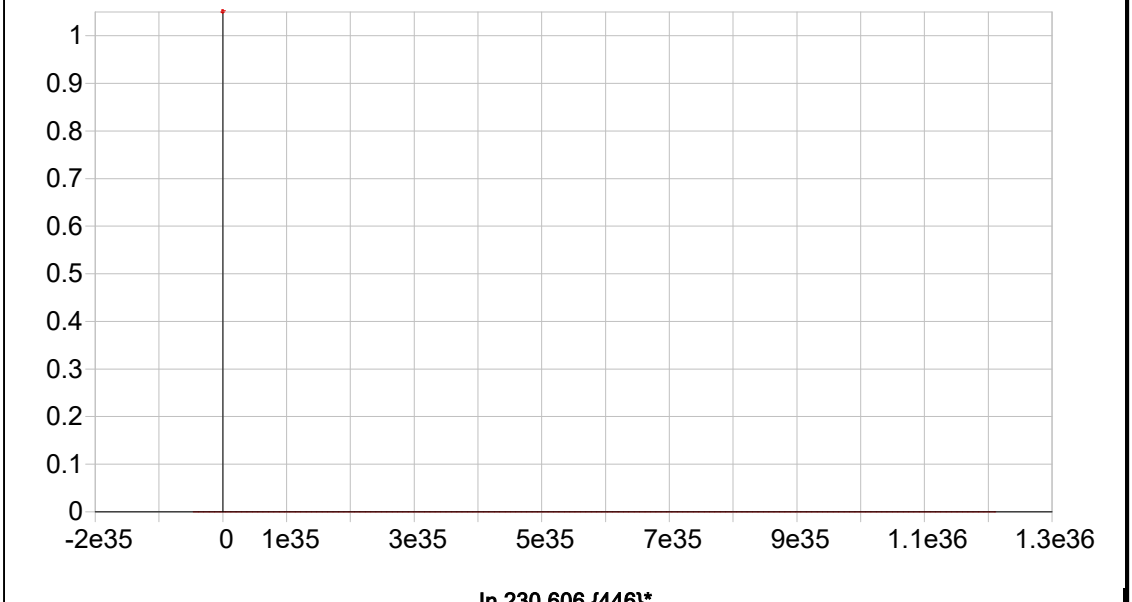



**Y 224.306 {150}***

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

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

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




**In 230.606 {446}***

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

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 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** |

Sample Name: S0 Acquired: 8/20/2025 12:38:48 Type: Cal
Method: 6010-200.7 NEW(v122) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | **-.00013** | **.00040** | **.00002** | **.00039** | **.00058** | **.00081** | **.07693** | **-.00107** |
| Stddev | .00008 | .00001 | .00007 | .00006 | .00010 | .00015 | .00168 | .00010 |
| %RSD | 60.388 | 2.2998 | 311.73 | 15.475 | 17.431 | 18.474 | 2.1875 | 9.5596 |
| #1 | -.00005 | .00041 | .00003 | .00032 | .00070 | .00067 | .07816 | -.00115 |
| #2 | -.00014 | .00041 | .00009 | .00043 | .00053 | .00097 | .07501 | -.00096 |
| #3 | -.00020 | .00039 | -.00005 | .00042 | .00051 | .00081 | .07761 | -.00110 |

| Elem | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **-.00044** | **.00147** | **.00028** | **.00004** | **.00051** | **.00004** | **.00016** | **.00009** |
| Stddev | .00016 | .00055 | .00004 | .00022 | .00013 | .00003 | .00022 | .00014 |
| %RSD | 36.062 | 37.213 | 14.390 | 538.51 | 26.640 | 70.542 | 131.87 | 147.08 |
| #1 | -.00062 | .00087 | .00028 | -.00021 | .00035 | .00007 | .00041 | .00024 |
| #2 | -.00036 | .00161 | .00024 | .00015 | .00060 | .00001 | .00001 | -.00003 |
| #3 | -.00034 | .00194 | .00032 | .00019 | .00056 | .00005 | .00007 | .00007 |

| Elem | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **-.00049** | **-.00076** | **.00177** | **-.00057** | **.00673** | **.00054** | **.00253** | **.00055** |
| Stddev | .00015 | .00008 | .00007 | .00013 | .00018 | .00019 | .00008 | .00008 |
| %RSD | 31.085 | 10.266 | 4.0198 | 23.332 | 2.7392 | 34.950 | 3.1769 | 14.516 |
| #1 | -.00033 | -.00085 | .00185 | -.00052 | .00653 | .00060 | .00244 | .00057 |
| #2 | -.00063 | -.00070 | .00172 | -.00072 | .00689 | .00032 | .00255 | .00062 |
| #3 | -.00053 | -.00073 | .00175 | -.00046 | .00676 | .00068 | .00259 | .00046 |

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.00278** | **.00142** | **.00013** | **-.00112** | **.00018** | **.01505** | **-.00011** |
| Stddev | .00013 | .00047 | .00002 | .00008 | .00010 | .00052 | .00025 |
| %RSD | 4.8420 | 32.875 | 14.234 | 7.1108 | 57.111 | 3.4843 | 224.70 |
| #1 | .00271 | .00127 | .00011 | -.00114 | .00024 | .01564 | -.00012 |
| #2 | .00269 | .00105 | .00014 | -.00118 | .00024 | .01464 | -.00036 |
| #3 | .00294 | .00195 | .00013 | -.00103 | .00006 | .01487 | .00014 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: S0 Acquired: 8/20/2025 12:38:48 Type: Cal
Method: 6010-200.7 NEW(v122) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | 6256.0 | 107060. | 10471. | 4891.9 | 7868.1 |
| Stddev | 11.4 | 156. | 38. | 2.7 | 2.0 |
| %RSD | .18205 | .14572 | .36071 | .05620 | .02491 |
| #1 | 6258.4 | 107010. | 10460. | 4890.6 | 7870.2 |
| #2 | 6265.9 | 106930. | 10440. | 4890.1 | 7866.4 |
| #3 | 6243.5 | 107240. | 10513. | 4895.1 | 7867.8 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: S1 Acquired: 8/20/2025 12:43:11 Type: Cal
Method: 6010-200.7 NEW(v122) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | **.00094** | **.00408** | **.00226** | **.00129** | **.00513** | **.00956** | **.30808** | **.04259** |
| Stddev | .00000 | .00005 | .00010 | .00009 | .00005 | .00068 | .00204 | .00032 |
| %RSD | .39114 | 1.2908 | 4.5381 | 6.7381 | 1.0657 | 7.1080 | .66320 | .75609 |
| #1 | .00094 | .00405 | .00232 | .00121 | .00514 | .01012 | .30594 | .04294 |
| #2 | .00094 | .00406 | .00231 | .00138 | .00507 | .00881 | .30830 | .04230 |
| #3 | .00095 | .00414 | .00214 | .00128 | .00517 | .00976 | .31001 | .04255 |

| Elem | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.01683** | **.11919** | **.00219** | **.03014** | **.01386** | **.00036** | **.00934** | **.02495** |
| Stddev | .00014 | .00013 | .00005 | .00014 | .00016 | .00001 | .00029 | .00003 |
| %RSD | .81582 | .11044 | 2.3671 | .45375 | 1.1687 | 2.1638 | 3.1363 | .13914 |
| #1 | .01698 | .11904 | .00223 | .03029 | .01389 | .00035 | .00900 | .02494 |
| #2 | .01679 | .11929 | .00213 | .03010 | .01369 | .00036 | .00950 | .02492 |
| #3 | .01672 | .11924 | .00221 | .03003 | .01401 | .00037 | .00951 | .02499 |

| Elem | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.02320** | **.00123** | **.01755** | **.00493** | **.10065** | **.00907** | **.07434** | **.13390** |
| Stddev | .00006 | .00011 | .00007 | .00007 | .00078 | .00008 | .00038 | .00026 |
| %RSD | .24518 | 8.5252 | .41613 | 1.5133 | .77800 | .92000 | .51331 | .19167 |
| #1 | .02326 | .00115 | .01750 | .00485 | .10076 | .00898 | .07440 | .13374 |
| #2 | .02314 | .00135 | .01752 | .00499 | .09982 | .00915 | .07469 | .13377 |
| #3 | .02319 | .00120 | .01763 | .00496 | .10137 | .00907 | .07393 | .13420 |

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.00832** | **.01257** | **.00123** | **-.00032** | **.00077** | **.02800** | **.15424** |
| Stddev | .00012 | .00019 | .00005 | .00006 | .00004 | .00102 | .00056 |
| %RSD | 1.4615 | 1.5266 | 4.2022 | 18.894 | 5.8318 | 3.6505 | .36262 |
| #1 | .00818 | .01272 | .00124 | -.00025 | .00071 | .02728 | .15430 |
| #2 | .00842 | .01235 | .00117 | -.00036 | .00079 | .02756 | .15478 |
| #3 | .00835 | .01263 | .00127 | -.00034 | .00080 | .02917 | .15366 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: S1 Acquired: 8/20/2025 12:43:11 Type: Cal
Method: 6010-200.7 NEW(v122) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | 6288.6 | 103260. | 10558. | 4846.4 | 7760.8 |
| Stddev | 5.5 | 41. | 9. | 8.1 | 4.2 |
| %RSD | .08681 | .04013 | .08575 | .16767 | .05425 |
| #1 | 6292.9 | 103260. | 10552. | 4855.8 | 7758.2 |
| #2 | 6290.6 | 103300. | 10554. | 4842.5 | 7765.6 |
| #3 | 6282.5 | 103210. | 10569. | 4841.0 | 7758.5 |

Sample Name: S2 Acquired: 8/20/2025 12:47:33 Type: Cal
Method: 6010-200.7 NEW(v122) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | **.03930** | **.07217** | **.15382** | **.03733** | **.07366** | **.12339** | **3.7209** | **.28081** |
| Stddev | .00012 | .00056 | .00043 | .00004 | .00014 | .00038 | .0167 | .00296 |
| %RSD | .31377 | .77381 | .27987 | .11783 | .18701 | .30783 | .44967 | 1.0543 |
| #1 | .03945 | .07186 | .15346 | .03729 | .07366 | .12295 | 3.7020 | .27871 |
| #2 | .03925 | .07184 | .15371 | .03732 | .07379 | .12356 | 3.7339 | .28420 |
| #3 | .03922 | .07282 | .15430 | .03737 | .07352 | .12365 | 3.7267 | .27953 |

| Elem | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **1.1409** | **.23121** | **.03160** | **.39760** | **.13072** | **.00256** | **.16801** | **.04623** |
| Stddev | .0011 | .00083 | .00013 | .00053 | .00036 | .00003 | .00058 | .00030 |
| %RSD | .09387 | .35801 | .41697 | .13338 | .27835 | 1.0021 | .34439 | .64684 |
| #1 | 1.1397 | .23214 | .03164 | .39748 | .13112 | .00258 | .16735 | .04588 |
| #2 | 1.1416 | .23094 | .03172 | .39818 | .13041 | .00253 | .16844 | .04641 |
| #3 | 1.1415 | .23056 | .03146 | .39714 | .13063 | .00258 | .16825 | .04639 |

| Elem | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.23182** | **.03895** | **.03197** | **.05023** | **.94010** | **.01689** | **.57716** | **.52668** |
| Stddev | .00042 | .00008 | .00024 | .00030 | .00303 | .00010 | .00554 | .00043 |
| %RSD | .18110 | .20615 | .74421 | .60279 | .32236 | .59621 | .96001 | .08215 |
| #1 | .23134 | .03893 | .03193 | .05033 | .94220 | .01678 | .57455 | .52696 |
| #2 | .23203 | .03888 | .03176 | .05048 | .94148 | .01690 | .58352 | .52618 |
| #3 | .23210 | .03904 | .03223 | .04989 | .93663 | .01699 | .57340 | .52690 |

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.12292** | **.23146** | **.00243** | **.03475** | **.02292** | **.63322** | **6.1289** |
| Stddev | .00021 | .00117 | .00002 | .00016 | .00006 | .00258 | .0238 |
| %RSD | .16682 | .50355 | .66322 | .45917 | .25294 | .40703 | .38838 |
| #1 | .12316 | .23014 | .00241 | .03486 | .02287 | .63027 | 6.1043 |
| #2 | .12283 | .23188 | .00244 | .03457 | .02298 | .63502 | 6.1518 |
| #3 | .12278 | .23236 | .00243 | .03483 | .02291 | .63438 | 6.1307 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: S2 Acquired: 8/20/2025 12:47:33 Type: Cal
Method: 6010-200.7 NEW(v122) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | 6221.8 | 106160. | 10665. | 4878.6 | 7568.0 |
| Stddev | 7.9 | 243. | 88. | 24.0 | 4.3 |
| %RSD | .12652 | .22849 | .82897 | .49157 | .05644 |
| #1 | 6213.6 | 105880. | 10714. | 4862.9 | 7566.9 |
| #2 | 6222.5 | 106270. | 10563. | 4866.6 | 7564.4 |
| #3 | 6229.3 | 106320. | 10718. | 4906.2 | 7572.7 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: S3 Acquired: 8/20/2025 12:51:37 Type: Cal
Method: 6010-200.7 NEW(v122) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | **.12414** | **.22406** | **.48257** | **.11724** | **.23036** | **.38434** | **11.699** | **.88093** |
| Stddev | .00036 | .00246 | .00067 | .00036 | .00053 | .00133 | .028 | .00269 |
| %RSD | .28659 | 1.0998 | .13841 | .30712 | .22821 | .34724 | .24005 | .30565 |
| #1 | .12430 | .22378 | .48334 | .11735 | .23043 | .38500 | 11.715 | .88279 |
| #2 | .12373 | .22175 | .48224 | .11684 | .22981 | .38280 | 11.715 | .87784 |
| #3 | .12438 | .22666 | .48213 | .11754 | .23085 | .38521 | 11.667 | .88216 |

| Elem | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **3.6437** | **.71845** | **.09798** | **1.2598** | **.40395** | **.00809** | **.52626** | **.14314** |
| Stddev | .0010 | .00267 | .00047 | .0011 | .00060 | .00009 | .00062 | .00104 |
| %RSD | .02891 | .37094 | .48285 | .08543 | .14838 | 1.1123 | .11784 | .72381 |
| #1 | 3.6429 | .71875 | .09751 | 1.2596 | .40463 | .00804 | .52696 | .14288 |
| #2 | 3.6433 | .71565 | .09846 | 1.2588 | .40351 | .00820 | .52605 | .14226 |
| #3 | 3.6449 | .72096 | .09797 | 1.2609 | .40370 | .00804 | .52577 | .14428 |

| Elem | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.73348** | **.12260** | **.09818** | **.15877** | **2.9081** | **.05376** | **1.8021** | **1.6393** |
| Stddev | .00026 | .00027 | .00065 | .00010 | .0107 | .00024 | .0102 | .0018 |
| %RSD | .03526 | .22014 | .66446 | .06017 | .36846 | .45132 | .56690 | .10917 |
| #1 | .73321 | .12289 | .09771 | .15871 | 2.9199 | .05358 | 1.8066 | 1.6386 |
| #2 | .73351 | .12236 | .09893 | .15872 | 2.8991 | .05404 | 1.7905 | 1.6380 |
| #3 | .73372 | .12255 | .09791 | .15888 | 2.9052 | .05367 | 1.8094 | 1.6414 |

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.38443** | **.72718** | **.00745** | **.11481** | **.07434** | **1.9595** | **19.378** |
| Stddev | .00037 | .00035 | .00003 | .00044 | .00031 | .0010 | .176 |
| %RSD | .09605 | .04848 | .38465 | .38389 | .41730 | .04964 | .90983 |
| #1 | .38401 | .72758 | .00742 | .11461 | .07411 | 1.9606 | 19.370 |
| #2 | .38471 | .72692 | .00747 | .11450 | .07422 | 1.9587 | 19.206 |
| #3 | .38458 | .72704 | .00747 | .11531 | .07470 | 1.9591 | 19.558 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: S3 Acquired: 8/20/2025 12:51:37 Type: Cal
Method: 6010-200.7 NEW(v122) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | 6120.5 | 104150. | 10584. | 4786.4 | 7247.1 |
| Stddev | 10.3 | 362. | 66. | 7.8 | 14.3 |
| %RSD | .16844 | .34724 | .62212 | .16357 | .19774 |
| #1 | 6132.4 | 104540. | 10585. | 4782.8 | 7263.6 |
| #2 | 6113.7 | 104070. | 10650. | 4781.1 | 7238.7 |
| #3 | 6115.5 | 103830. | 10518. | 4795.4 | 7238.9 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: S4 Acquired: 8/20/2025 12:55:41 Type: Cal
Method: 6010-200.7 NEW(v122) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | **.25145** | **.43732** | **.96767** | **.23625** | **.46452** | **.76953** | **23.236** | **1.7040** |
| Stddev | .00083 | .00391 | .00213 | .00095 | .00260 | .00055 | .119 | .0061 |
| %RSD | .32844 | .89314 | .21965 | .40153 | .55869 | .07175 | .51294 | .35888 |
| #1 | .25085 | .43646 | .96522 | .23574 | .46213 | .76994 | 23.342 | 1.7006 |
| #2 | .25110 | .43391 | .96874 | .23566 | .46417 | .76976 | 23.107 | 1.7111 |
| #3 | .25239 | .44158 | .96905 | .23734 | .46728 | .76890 | 23.259 | 1.7005 |

| Elem | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **7.3832** | **1.4225** | **.19269** | **2.5508** | **.79873** | **.01650** | **1.0441** | **.28621** |
| Stddev | .0078 | .0008 | .00060 | .0049 | .00159 | .00007 | .0069 | .00069 |
| %RSD | .10507 | .05922 | .31132 | .19226 | .19935 | .44395 | .66183 | .24262 |
| #1 | 7.3755 | 1.4226 | .19226 | 2.5461 | .79720 | .01647 | 1.0414 | .28617 |
| #2 | 7.3831 | 1.4234 | .19338 | 2.5505 | .79859 | .01644 | 1.0389 | .28693 |
| #3 | 7.3910 | 1.4217 | .19244 | 2.5559 | .80038 | .01658 | 1.0519 | .28554 |

| Elem | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **1.4810** | **.24507** | **.20642** | **.31929** | **5.7615** | **.11045** | **3.5320** | **3.2682** |
| Stddev | .0033 | .00030 | .00169 | .00109 | .0105 | .00060 | .0063 | .0097 |
| %RSD | .22215 | .12081 | .81671 | .34022 | .18285 | .54704 | .17821 | .29687 |
| #1 | 1.4780 | .24473 | .20579 | .31868 | 5.7734 | .11025 | 3.5247 | 3.2604 |
| #2 | 1.4806 | .24524 | .20515 | .32054 | 5.7578 | .10998 | 3.5358 | 3.2651 |
| #3 | 1.4845 | .24523 | .20834 | .31864 | 5.7533 | .11113 | 3.5354 | 3.2791 |

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.76889** | **1.4575** | **.01532** | **.23744** | **.15409** | **3.9553** | **38.745** |
| Stddev | .00140 | .0053 | .00008 | .00058 | .00075 | .0191 | .255 |
| %RSD | .18244 | .36647 | .53672 | .24260 | .48750 | .48184 | .65902 |
| #1 | .76729 | 1.4552 | .01524 | .23698 | .15389 | 3.9498 | 38.461 |
| #2 | .76954 | 1.4537 | .01532 | .23725 | .15346 | 3.9395 | 38.955 |
| #3 | .76986 | 1.4636 | .01541 | .23808 | .15492 | 3.9765 | 38.820 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: S4 Acquired: 8/20/2025 12:55:41 Type: Cal
Method: 6010-200.7 NEW(v122) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | 6038.0 | 104170. | 10843. | 4728.7 | 7004.4 |
| Stddev | 13.1 | 183. | 29. | 12.1 | 13.4 |
| %RSD | .21639 | .17548 | .27071 | .25494 | .19064 |
| #1 | 6053.0 | 104220. | 10840. | 4719.8 | 7019.8 |
| #2 | 6032.3 | 103970. | 10815. | 4723.9 | 6997.4 |
| #3 | 6028.8 | 104320. | 10873. | 4742.4 | 6996.0 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: S5 Acquired: 8/20/2025 12:59:53 Type: Cal
Method: 6010-200.7 NEW(v122) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | **.51440** | **.89195** | **2.0068** | **.48032** | **.94694** | **1.5664** | **47.963** | **3.3616** |
| Stddev | .00118 | .01179 | .0021 | .00097 | .00245 | .0039 | .583 | .0350 |
| %RSD | .22869 | 1.3215 | .10465 | .20148 | .25913 | .24684 | 1.2147 | 1.0398 |
| #1 | .51492 | .90555 | 2.0086 | .48062 | .94543 | 1.5627 | 47.593 | 3.3327 |
| #2 | .51305 | .88467 | 2.0073 | .47924 | .94561 | 1.5661 | 47.663 | 3.3518 |
| #3 | .51522 | .88563 | 2.0044 | .48111 | .94977 | 1.5704 | 48.635 | 3.4005 |

| Elem | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **15.248** | **2.8704** | **.38611** | **5.2914** | **1.6053** | **.03423** | **2.1026** | **.57904** |
| Stddev | .014 | .0051 | .00139 | .0014 | .0011 | .00034 | .0021 | .00219 |
| %RSD | .08958 | .17630 | .35932 | .02658 | .07045 | .99373 | .10192 | .37833 |
| #1 | 15.263 | 2.8657 | .38754 | 5.2924 | 1.6049 | .03451 | 2.1002 | .57738 |
| #2 | 15.246 | 2.8697 | .38478 | 5.2920 | 1.6045 | .03433 | 2.1041 | .57821 |
| #3 | 15.235 | 2.8757 | .38600 | 5.2898 | 1.6066 | .03385 | 2.1035 | .58152 |

| Elem | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **3.0632** | **.49951** | **.43569** | **.65127** | **11.512** | **.23302** | **6.9865** | **6.6048** |
| Stddev | .0016 | .00065 | .00549 | .00123 | .018 | .00219 | .0812 | .0128 |
| %RSD | .05236 | .12928 | 1.2603 | .18928 | .15411 | .93845 | 1.1621 | .19441 |
| #1 | 3.0647 | .49982 | .44012 | .65012 | 11.532 | .23460 | 6.9058 | 6.6047 |
| #2 | 3.0634 | .49877 | .43740 | .65111 | 11.507 | .23393 | 6.9854 | 6.5920 |
| #3 | 3.0615 | .49994 | .42955 | .65257 | 11.498 | .23052 | 7.0682 | 6.6177 |

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **1.5778** | **2.9732** | **.03233** | **.49435** | **.32922** | **8.1417** | **77.969** |
| Stddev | .0030 | .0002 | .00015 | .00054 | .00122 | .0036 | .484 |
| %RSD | .18799 | .00661 | .47217 | .10999 | .36967 | .04467 | .62037 |
| #1 | 1.5811 | 2.9732 | .03244 | .49496 | .33051 | 8.1404 | 78.517 |
| #2 | 1.5767 | 2.9730 | .03239 | .49393 | .32810 | 8.1458 | 77.601 |
| #3 | 1.5755 | 2.9734 | .03216 | .49415 | .32905 | 8.1388 | 77.789 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: S5 Acquired: 8/20/2025 12:59:53 Type: Cal
Method: 6010-200.7 NEW(v122) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | 5897.1 | 102290. | 10903. | 4616.5 | 6637.0 |
| Stddev | 7.6 | 279. | 86. | 22.0 | 10.8 |
| %RSD | .12859 | .27238 | .78778 | .47731 | .16217 |
| #1 | 5893.3 | 101980. | 10979. | 4593.7 | 6624.8 |
| #2 | 5905.9 | 102360. | 10921. | 4617.9 | 6641.0 |
| #3 | 5892.2 | 102520. | 10810. | 4637.7 | 6645.2 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: ICV01 Acquired: 8/20/2025 13:04:03 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.950731** | **3.920598** | **3.974574** | **3.988234** | **4.062391** | **7.804015** |
| Stddev | .012953 | .025265 | .001029 | .006994 | .003972 | .018181 |
| %RSD | .3278645 | .6444272 | .0258883 | .1753772 | .0977785 | .2329716 |
| #1 | 3.963563 | 3.949437 | 3.974273 | 3.995734 | 4.064701 | 7.783229 |
| #2 | 3.937660 | 3.902360 | 3.975720 | 3.981888 | 4.057804 | 7.811854 |
| #3 | 3.950970 | 3.909997 | 3.973730 | 3.987081 | 4.064667 | 7.816962 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **7.744888** | **.2172733** | **1.956807** | **19.40919** | **.8087891** | **1.973282** |
| Stddev | .085747 | .0017318 | .000969 | .09296 | .0014401 | .001584 |
| %RSD | 1.107147 | .7970799 | .0495091 | .4789259 | .1780562 | .0802600 |
| #1 | 7.657758 | .2167542 | 1.955755 | 19.31665 | .8099856 | 1.971475 |
| #2 | 7.829182 | .2158603 | 1.957006 | 19.40838 | .8091909 | 1.973940 |
| #3 | 7.747724 | .2192053 | 1.957661 | 19.50255 | .8071908 | 1.974430 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.010912** | **3.974810** | **1.946811** | **19.35609** | **1.970252** | **1.012755** |
| Stddev | .001531 | .019732 | .008587 | .10116 | .002545 | .001388 |
| %RSD | .1514003 | .4964357 | .4410961 | .5226034 | .1291902 | .1370900 |
| #1 | 1.011530 | 3.966218 | 1.939272 | 19.28622 | 1.967386 | 1.013667 |
| #2 | 1.012038 | 3.997382 | 1.945002 | 19.30995 | 1.971121 | 1.011157 |
| #3 | 1.009170 | 3.960830 | 1.956159 | 19.47208 | 1.972249 | 1.013441 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **18.90335** | **1.944991** | **2.011997** | **19.55215** | **4.067550** | **4.022571** |
| Stddev | .07866 | .006542 | .003451 | .08650 | .034637 | .002428 |
| %RSD | .4161237 | .3363651 | .1715026 | .4423855 | .8515486 | .0603651 |
| #1 | 18.89300 | 1.937590 | 2.011575 | 19.51031 | 4.057411 | 4.023661 |
| #2 | 18.98668 | 1.947382 | 2.015639 | 19.65161 | 4.039113 | 4.019789 |
| #3 | 18.83038 | 1.950002 | 2.008776 | 19.49453 | 4.106125 | 4.024263 |

Sample Name: ICV01 Acquired: 8/20/2025 13:04:03 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 3.945727 | 3.903723 | 3.974838 | F .0057284 | F .0245904 | F -.006851 |
| Stddev | .004362 | .016584 | .011996 | .0013709 | .0036556 | .000496 |
| %RSD | .1105399 | .4248305 | .3018079 | 23.93233 | 14.86599 | 7.234621 |
| #1 | 3.943969 | 3.886660 | 3.973836 | .0054845 | .0277725 | -.006961 |
| #2 | 3.942518 | 3.904726 | 3.987303 | .0072049 | .0254012 | -.006309 |
| #3 | 3.950693 | 3.919783 | 3.963373 | .0044957 | .0205974 | -.007282 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | F -.003297 |
| Stddev | .000055 |
| %RSD | 1.671764 |
| #1 | -.003290 |
| #2 | -.003356 |
| #3 | -.003246 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6202.883 | 105390.3 | 11232.78 | 4807.705 | 7286.035 |
| Stddev | 4.773 | 200.8 | 74.19 | 23.017 | 5.314 |
| %RSD | .0769476 | .1904876 | .6604819 | .4787460 | .0729272 |
| #1 | 6201.303 | 105499.5 | 11288.17 | 4828.098 | 7291.296 |
| #2 | 6199.100 | 105158.6 | 11261.67 | 4782.749 | 7280.670 |
| #3 | 6208.246 | 105512.8 | 11148.48 | 4812.269 | 7286.138 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: LLICV01 Acquired: 8/20/2025 13:17:31 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0200107** | **.0411097** | **.0119706** | **.0212397** | **.0492522** | **.1053737** |
| Stddev | .0022923 | .0005427 | .0005698 | .0018497 | .0003157 | .0038232 |
| %RSD | 11.45525 | 1.320225 | 4.759637 | 8.708558 | .6409471 | 3.628226 |
| #1 | .0174006 | .0417152 | .0114279 | .0191933 | .0488979 | .1033249 |
| #2 | .0216966 | .0409471 | .0119198 | .0217335 | .0495035 | .1030115 |
| #3 | .0209348 | .0406669 | .0125641 | .0227924 | .0493553 | .1097847 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0976588** | **.0061540** | **.0056018** | **2.047333** | **.0097031** | **.0286729** |
| Stddev | .0014044 | .0000792 | .0001158 | .016194 | .0001417 | .0001689 |
| %RSD | 1.438090 | 1.287239 | 2.067117 | .7909659 | 1.459822 | .5892104 |
| #1 | .0973850 | .0061359 | .0055195 | 2.065112 | .0095396 | .0284834 |
| #2 | .0964115 | .0060854 | .0057342 | 2.033426 | .0097897 | .0287277 |
| #3 | .0991800 | .0062407 | .0055515 | 2.043461 | .0097799 | .0288078 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0207980** | **.1033674** | **.0218540** | **2.155935** | **.0390527** | **.0103994** |
| Stddev | .0001176 | .0057768 | .0002935 | .031849 | .0000175 | .0006435 |
| %RSD | .5656076 | 5.588596 | 1.342902 | 1.477270 | .0447705 | 6.187764 |
| #1 | .0207209 | .1083285 | .0221143 | 2.185223 | .0390485 | .0111424 |
| #2 | .0207397 | .0970253 | .0219117 | 2.160552 | .0390719 | .0100291 |
| #3 | .0209334 | .1047484 | .0215360 | 2.122030 | .0390377 | .0100267 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.909510** | **.0426471** | **.0411891** | **1.869549** | **.1064304** | **.2031291** |
| Stddev | .022319 | .0008816 | .0002913 | .019244 | .0008663 | .0003000 |
| %RSD | 1.168850 | 2.067308 | .7072536 | 1.029333 | .8139810 | .1476951 |
| #1 | 1.917715 | .0419069 | .0414481 | 1.849539 | .1061721 | .2030183 |
| #2 | 1.926566 | .0424120 | .0408737 | 1.871184 | .1057226 | .2034688 |
| #3 | 1.884250 | .0436225 | .0412456 | 1.887923 | .1073965 | .2029003 |

Sample Name: LLICV01 Acquired: 8/20/2025 13:17:31 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0355182 | .0388954 | .3711363 | .0189682 | .0193628 | F .0134595 |
| Stddev | .0002852 | .0007959 | .0097743 | .0007702 | .0010373 | .0013635 |
| %RSD | .8029484 | 2.046203 | 2.633615 | 4.060685 | 5.357171 | 10.13007 |
| #1 | .0353767 | .0391426 | .3701338 | .0181532 | .0181688 | .0144424 |
| #2 | .0353314 | .0380052 | .3813732 | .0190674 | .0198776 | .0119029 |
| #3 | .0358465 | .0395383 | .3619019 | .0196840 | .0200420 | .0140331 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0200263 |
| Stddev | .0000728 |
| %RSD | .3636608 |
| #1 | .0200747 |
| #2 | .0200617 |
| #3 | .0199426 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6386.956 | 108649.9 | 11292.05 | 4961.248 | 7967.511 |
| Stddev | 6.732 | 417.8 | 46.30 | 29.767 | 5.108 |
| %RSD | .1054091 | .3844988 | .4100346 | .5999900 | .0641129 |
| #1 | 6387.811 | 108791.1 | 11329.07 | 4995.144 | 7965.509 |
| #2 | 6379.837 | 108179.8 | 11306.95 | 4949.235 | 7973.317 |
| #3 | 6393.220 | 108978.7 | 11240.14 | 4939.364 | 7963.707 |

Sample Name: ICB01 Acquired: 8/20/2025 13:21:46 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000166** | **-.000089** | **.0010528** | **-.001771** | **-.000082** | **.0029640** | **-.002077** |
| Stddev | .001607 | .000744 | .0008031 | .002630 | .001076 | .0049400 | .000893 |
| %RSD | 970.2941 | 836.9244 | 76.28670 | 148.4820 | 1315.732 | 166.6676 | 42.99912 |
| #1 | -.001397 | -.000740 | .0016527 | -.001202 | .001155 | .0042995 | -.003105 |
| #2 | .001653 | -.000249 | .0013653 | -.004639 | -.000800 | .0070989 | -.001501 |
| #3 | -.000752 | .000722 | .0001404 | .000527 | -.000601 | -.002506 | -.001624 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000046** | **-.000020** | **.0016710** | **-.000547** | **-.000009** | **-.000258** | **-.007395** |
| Stddev | .000018 | .000070 | .0045873 | .000348 | .000152 | .000191 | .001356 |
| %RSD | 38.66540 | 360.5021 | 274.5153 | 63.59398 | 1655.631 | 74.06555 | 18.33697 |
| #1 | -.000027 | -.000055 | -.000861 | -.000655 | .000135 | -.000143 | -.008960 |
| #2 | -.000063 | .000062 | .006966 | -.000827 | .000006 | -.000153 | -.006621 |
| #3 | -.000047 | -.000066 | -.001092 | -.000158 | -.000169 | -.000479 | -.006603 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0004335** | **-.006360** | **.0000091** | **.0000255** | **-.035463** | **.0036999** | **-.000755** |
| Stddev | .0002584 | .017742 | .0002647 | .0002194 | .004277 | .0016218 | .000094 |
| %RSD | 59.60625 | 278.9611 | 2899.825 | 859.9056 | 12.05975 | 43.83429 | 12.39713 |
| #1 | .0002802 | -.020922 | -.000171 | -.000150 | -.038845 | .0055710 | -.000650 |
| #2 | .0007319 | -.011558 | .000313 | .000271 | -.036888 | .0028322 | -.000831 |
| #3 | .0002885 | .013400 | -.000115 | -.000045 | -.030655 | .0026966 | -.000783 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.105212** | **.0040936** | **-.000076** | **-.001627** | **-.000604** | **-.003766** | **.0001058** |
| Stddev | .009079 | .0005114 | .000135 | .000398 | .000727 | .009187 | .0003945 |
| %RSD | 8.628946 | 12.49187 | 178.4348 | 24.48537 | 120.3116 | 243.9477 | 373.0690 |
| #1 | -.104829 | .0041891 | -.000149 | -.001313 | -.000693 | .006554 | .0002912 |
| #2 | -.096331 | .0035412 | .000080 | -.001493 | .000163 | -.011051 | .0003734 |
| #3 | -.114476 | .0045505 | -.000159 | -.002075 | -.001282 | -.006801 | -.000347 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: ICB01 Acquired: 8/20/2025 13:21:46 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.000476 | -.008176 | .0000061 |
| Stddev | .000687 | .000607 | .0000470 |
| %RSD | 144.2895 | 7.429008 | 772.1921 |
| | | | |
| #1 | .000280 | -.007867 | -.000038 |
| #2 | -.001062 | -.008876 | .000000 |
| #3 | -.000646 | -.007785 | .000056 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6347.340 | 109311.0 | 11227.89 | 4920.485 | 8061.962 |
| Stddev | 7.405 | 151.8 | 65.78 | 13.718 | 4.808 |
| %RSD | .1166621 | .1388490 | .5858550 | .2787954 | .0596417 |
| | | | | | |
| #1 | 6355.068 | 109446.6 | 11292.41 | 4924.738 | 8061.489 |
| #2 | 6340.307 | 109339.4 | 11230.34 | 4931.573 | 8066.990 |
| #3 | 6346.645 | 109147.0 | 11160.92 | 4905.144 | 8057.408 |

Sample Name: CRI01 Acquired: 8/20/2025 13:26:14 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0213815** | **.0432944** | **.0124471** | **.0217557** | **.0505973** | **.0979956** |
| Stddev | .0011286 | .0011525 | .0003071 | .0016274 | .0008812 | .0116763 |
| %RSD | 5.278342 | 2.661938 | 2.467198 | 7.480298 | 1.741571 | 11.91511 |
| #1 | .0205293 | .0446159 | .0126638 | .0228905 | .0514821 | .0845914 |
| #2 | .0226615 | .0427694 | .0125819 | .0198912 | .0505900 | .1034396 |
| #3 | .0209538 | .0424979 | .0120957 | .0224854 | .0497198 | .1059557 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0981940** | **.0063008** | **.0057193** | **2.052222** | **.0098876** | **.0291382** |
| Stddev | .0007610 | .0000480 | .0000854 | .003652 | .0002277 | .0000107 |
| %RSD | .7750146 | .7619377 | 1.492893 | .1779316 | 2.302493 | .0366701 |
| #1 | .0973223 | .0063105 | .0057666 | 2.056267 | .0101063 | .0291282 |
| #2 | .0987260 | .0062487 | .0056208 | 2.051228 | .0099045 | .0291370 |
| #3 | .0985337 | .0063432 | .0057706 | 2.049169 | .0096519 | .0291494 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0208905** | **.0952394** | **.0218861** | **2.161923** | **.0393962** | **.0099478** |
| Stddev | .0002241 | .0053007 | .0002632 | .015644 | .0000495 | .0001713 |
| %RSD | 1.072782 | 5.565644 | 1.202503 | .7236194 | .1256376 | 1.721661 |
| #1 | .0211436 | .0891191 | .0221872 | 2.144475 | .0393594 | .0097504 |
| #2 | .0208103 | .0983600 | .0217000 | 2.174697 | .0394525 | .0100360 |
| #3 | .0207175 | .0982391 | .0217710 | 2.166598 | .0393767 | .0100570 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.913876** | **.0426488** | **.0414916** | **1.830847** | **.1039878** | **.2052171** |
| Stddev | .027515 | .0011267 | .0003169 | .017310 | .0003659 | .0006594 |
| %RSD | 1.437661 | 2.641855 | .7638961 | .9454402 | .3519016 | .3213038 |
| #1 | 1.945627 | .0416100 | .0417806 | 1.816906 | .1039925 | .2059771 |
| #2 | 1.898976 | .0424899 | .0411527 | 1.825414 | .1036196 | .2048772 |
| #3 | 1.897024 | .0438465 | .0415416 | 1.850221 | .1043514 | .2047971 |

Sample Name: CRI01 Acquired: 8/20/2025 13:26:14 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0357864 | .0387948 | .3705346 | .0192278 | .0187247 | F .0135697 |
| Stddev | .0003665 | .0006269 | .0080232 | .0016092 | .0010086 | .0007256 |
| %RSD | 1.024224 | 1.616051 | 2.165312 | 8.369103 | 5.386356 | 5.347544 |
| #1 | .0355742 | .0380930 | .3612711 | .0182099 | .0176206 | .0143790 |
| #2 | .0362096 | .0392996 | .3752784 | .0210830 | .0189558 | .0133531 |
| #3 | .0355753 | .0389917 | .3750544 | .0183905 | .0195977 | .0129770 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0201501 |
| Stddev | .0000742 |
| %RSD | .3682824 |
| #1 | .0201371 |
| #2 | .0200833 |
| #3 | .0202300 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6335.484 | 107334.8 | 11198.77 | 4877.106 | 7900.565 |
| Stddev | 8.088 | 52.0 | 27.39 | 8.986 | 9.449 |
| %RSD | .1276570 | .0484224 | .2445436 | .1842535 | .1195961 |
| #1 | 6344.043 | 107292.2 | 11197.57 | 4866.742 | 7910.142 |
| #2 | 6334.440 | 107319.4 | 11226.74 | 4881.843 | 7900.303 |
| #3 | 6327.969 | 107392.7 | 11172.01 | 4882.733 | 7891.250 |

Sample Name: ICSA01 Acquired: 8/20/2025 13:30:28 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0107216** | **-.003611** | **-.003403** | **-.000169** | **-.001474** | **246.5307** |
| Stddev | .0004316 | .001265 | .002130 | .002652 | .001054 | .3989 |
| %RSD | 4.025648 | 35.02748 | 62.59588 | 1565.457 | 71.52046 | .1618055 |
| #1 | .0108416 | -.002430 | -.005770 | -.002209 | -.002684 | 246.6604 |
| #2 | .0102427 | -.003456 | -.001640 | -.001128 | -.000750 | 246.8486 |
| #3 | .0110805 | -.004945 | -.002799 | .002829 | -.000988 | 246.0831 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0018143** | **.0015005** | **.0023415** | **233.3394** | **.0599638** | **.0016905** |
| Stddev | .0008732 | .0001040 | .0001051 | .2845 | .0001321 | .0001875 |
| %RSD | 48.12966 | 6.929601 | 4.486729 | .1219164 | .2202745 | 11.08894 |
| #1 | .0010339 | .0015950 | .0024545 | 233.4850 | .0599354 | .0017910 |
| #2 | .0016517 | .0015174 | .0022468 | 233.5216 | .0598482 | .0014742 |
| #3 | .0027574 | .0013891 | .0023232 | 233.0116 | .0601077 | .0018061 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0046995** | **99.16501** | **.0089009** | **248.6924** | **.0061990** | **.0020872** |
| Stddev | .0000193 | .43535 | .0002551 | .3369 | .0004365 | .0002045 |
| %RSD | .4112696 | .4390185 | 2.865629 | .1354769 | 7.041207 | 9.798253 |
| #1 | .0047191 | 99.01029 | .0091745 | 248.7741 | .0066729 | .0019076 |
| #2 | .0046805 | 98.82815 | .0086696 | 248.9809 | .0061110 | .0020443 |
| #3 | .0046990 | 99.65659 | .0088587 | 248.3221 | .0058133 | .0023098 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0740643** | **.0050139** | **.0019908** | **.0847051** | **.0514203** | **.0009541** |
| Stddev | .0140620 | .0037738 | .0001134 | .0250065 | .0025518 | .0001798 |
| %RSD | 18.98616 | 75.26568 | 5.694587 | 29.52179 | 4.962550 | 18.84429 |
| #1 | .0643956 | .0042865 | .0019002 | .0623229 | .0516546 | .0007533 |
| #2 | .0676015 | .0090984 | .0019544 | .0800975 | .0487594 | .0011001 |
| #3 | .0901958 | .0016568 | .0021179 | .1116950 | .0538468 | .0010089 |

Sample Name: ICSA01 Acquired: 8/20/2025 13:30:28 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.004166 | -.005658 | .0189780 | .0076384 | -.009131 | F -.032952 |
| Stddev | .000469 | .000829 | .0028752 | .0010715 | .002754 | .000496 |
| %RSD | 11.26661 | 14.65115 | 15.15038 | 14.02788 | 30.16249 | 1.503871 |
| #1 | -.003852 | -.004764 | .0189357 | .0064145 | -.011709 | -.033471 |
| #2 | -.003940 | -.006401 | .0218741 | .0084074 | -.009455 | -.032900 |
| #3 | -.004705 | -.005810 | .0161241 | .0080935 | -.006229 | -.032484 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0019887 |
| Stddev | .0007777 |
| %RSD | 39.10438 |
| #1 | .0024173 |
| #2 | .0024577 |
| #3 | .0010910 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5644.727 | 95345.32 | 10819.40 | 4366.562 | 6297.248 |
| Stddev | 8.228 | 63.48 | 43.27 | 6.059 | 8.715 |
| %RSD | .1457697 | .0665764 | .3998944 | .1387694 | .1383997 |
| #1 | 5637.158 | 95365.60 | 10814.66 | 4373.198 | 6287.246 |
| #2 | 5653.485 | 95396.18 | 10778.70 | 4361.324 | 6303.214 |
| #3 | 5643.537 | 95274.18 | 10864.84 | 4365.164 | 6301.282 |

Sample Name: ICSAB01 Acquired: 8/20/2025 13:34:39 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1085343** | **.0990293** | **.0384338** | **.0474153** | **.5870785** | **249.6700** |
| Stddev | .0013678 | .0026180 | .0016519 | .0005988 | .0017569 | .3746 |
| %RSD | 1.260256 | 2.643683 | 4.298047 | 1.262972 | .2992648 | .1500303 |
| #1 | .1089890 | .0984171 | .0365367 | .0467713 | .5867579 | 249.3455 |
| #2 | .1069970 | .1018991 | .0392106 | .0475194 | .5855039 | 249.5846 |
| #3 | .1096168 | .0967716 | .0395542 | .0479553 | .5889736 | 250.0799 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4747686** | **.4818464** | **.9632126** | **235.7419** | **.5525261** | **.4842859** |
| Stddev | .0023796 | .0020221 | .0007682 | .6963 | .0016127 | .0009506 |
| %RSD | .5012041 | .4196467 | .0797541 | .2953645 | .2918739 | .1962857 |
| #1 | .4720303 | .4799381 | .9626167 | 235.0556 | .5507626 | .4838479 |
| #2 | .4759413 | .4816355 | .9629414 | 235.7222 | .5528900 | .4836333 |
| #3 | .4763343 | .4839656 | .9640796 | 236.4478 | .5539258 | .4853766 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4747409** | **100.7582** | **.4760143** | **251.3987** | **.9640116** | **.2120207** |
| Stddev | .0010399 | .2690 | .0016252 | .5196 | .0009756 | .0003700 |
| %RSD | .2190497 | .2670058 | .3414127 | .2066654 | .1011997 | .1745308 |
| #1 | .4745463 | 100.4518 | .4744097 | 250.8823 | .9634459 | .2124457 |
| #2 | .4738121 | 100.9555 | .4776593 | 251.3924 | .9634508 | .2117703 |
| #3 | .4758644 | 100.8674 | .4759737 | 251.9213 | .9651381 | .2118461 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0271386** | **.4749297** | **1.024479** | **-.189415** | F **.0534853** | F **.0012380** |
| Stddev | .0112917 | .0022120 | .001557 | .048561 | .0011568 | .0001367 |
| %RSD | 41.60747 | .4657574 | .1519840 | 25.63735 | 2.162735 | 11.04160 |
| #1 | .0168923 | .4723859 | 1.022991 | -.144150 | .0540408 | .0011275 |
| #2 | .0392448 | .4760023 | 1.024349 | -.183386 | .0521556 | .0013909 |
| #3 | .0252787 | .4764010 | 1.026097 | -.240709 | .0542596 | .0011957 |

Sample Name: ICSAB01 Acquired: 8/20/2025 13:34:39 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F -.004788 | F -.007886 | F .0105158 | F .0096879 | F .0009868 | F -.035570 |
| Stddev | .000443 | .000624 | .0071533 | .0003182 | .0044355 | .001057 |
| %RSD | 9.257119 | 7.913767 | 68.02391 | 3.284411 | 449.5057 | 2.970692 |
| #1 | -.005250 | -.008142 | .0172925 | .0094155 | -.001178 | -.034888 |
| #2 | -.004366 | -.007175 | .0030377 | .0100376 | -.001950 | -.036787 |
| #3 | -.004749 | -.008341 | .0112172 | .0096105 | .006089 | -.035035 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | F .0011171 |
| Stddev | .0003300 |
| %RSD | 29.54104 |
| #1 | .0007538 |
| #2 | .0013982 |
| #3 | .0011992 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5578.489 | 95302.34 | 10910.31 | 4331.233 | 6233.546 |
| Stddev | 8.370 | 220.61 | 39.72 | 19.860 | 7.291 |
| %RSD | .1500441 | .2314816 | .3640588 | .4585399 | .1169715 |
| #1 | 5575.347 | 95530.30 | 10949.61 | 4326.142 | 6234.966 |
| #2 | 5587.975 | 95286.81 | 10911.16 | 4353.144 | 6240.023 |
| #3 | 5572.144 | 95089.91 | 10870.18 | 4314.414 | 6225.649 |

Sample Name: ICSADLX20 Acquired: 8/20/2025 13:38:43 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01DLX20 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0010520** | **.0000161** | **-.000096** | **.0016678** | **-.000214** | **11.86645** | **-.001788** |
| Stddev | .0019184 | .0013632 | .000206 | .0020880 | .000791 | .01416 | .000837 |
| %RSD | 182.3610 | 8447.124 | 214.5676 | 125.2007 | 369.1609 | .1193592 | 46.78531 |
| #1 | .0030160 | -.000901 | .000078 | .0012021 | -.000689 | 11.87504 | -.000877 |
| #2 | .0009574 | -.000633 | -.000323 | .0039493 | .000698 | 11.85010 | -.001964 |
| #3 | -.000817 | .001583 | -.000043 | -.000148 | -.000652 | 11.87421 | -.002522 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0001351** | **.0001001** | **11.69763** | **.0025204** | **.0000328** | **.0003611** | **4.592607** |
| Stddev | .0000475 | .0000511 | .00862 | .0002533 | .0000664 | .0002667 | .024054 |
| %RSD | 35.12214 | 51.00681 | .0736723 | 10.05052 | 202.4445 | 73.87592 | .5237568 |
| #1 | .0001367 | .0001034 | 11.70054 | .0028129 | -.000044 | .0000854 | 4.620111 |
| #2 | .0000869 | .0001494 | 11.70441 | .0023761 | .000074 | .0003798 | 4.582208 |
| #3 | .0001818 | .0000474 | 11.68793 | .0023723 | .000068 | .0006179 | 4.575502 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0007187** | **12.21834** | **.0001521** | **.0003802** | **-.102598** | **.0042989** | **-.000684** |
| Stddev | .0002330 | .03431 | .0000616 | .0002764 | .005999 | .0014602 | .000030 |
| %RSD | 32.41995 | .2808383 | 40.47928 | 72.70600 | 5.847426 | 33.96622 | 4.350195 |
| #1 | .0004614 | 12.24632 | .0001823 | .0000857 | -.097763 | .0032605 | -.000687 |
| #2 | .0007792 | 12.18005 | .0001927 | .0006341 | -.100720 | .0059685 | -.000653 |
| #3 | .0009154 | 12.22866 | .0000813 | .0004208 | -.109312 | .0036677 | -.000712 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.341534** | **.0020643** | **.0000687** | **-.002580** | **-.001489** | **.0003705** | **.0004246** |
| Stddev | .047032 | .0003562 | .0001808 | .000667 | .000740 | .0048153 | .0007496 |
| %RSD | 13.77070 | 17.25734 | 263.0247 | 25.86054 | 49.66271 | 1299.507 | 176.5437 |
| #1 | -.317731 | .0021619 | -.000090 | -.002355 | -.001399 | -.000925 | -.000343 |
| #2 | -.395709 | .0023616 | .000266 | -.002054 | -.002269 | .005701 | .000463 |
| #3 | -.311162 | .0016694 | .000030 | -.003330 | -.000799 | -.003664 | .001154 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: ICSADLX20 Acquired: 8/20/2025 13:38:43 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01DLX20 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **-.002129** | **-.010749** | **.0003012** |
| Stddev | .001180 | .001532 | .0001000 |
| %RSD | 55.40977 | 14.25604 | 33.18642 |
| | | | |
| #1 | -.002137 | -.012303 | .0002141 |
| #2 | -.003305 | -.010703 | .0004104 |
| #3 | -.000946 | -.009240 | .0002793 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **6206.252** | **106968.2** | **11111.82** | **4833.306** | **7633.684** |
| Stddev | 7.826 | 282.4 | 53.29 | 26.309 | 5.908 |
| %RSD | .1261053 | .2640229 | .4795835 | .5443228 | .0773940 |
| | | | | | |
| #1 | 6197.586 | 106643.1 | 11108.64 | 4809.406 | 7631.705 |
| #2 | 6208.366 | 107108.1 | 11166.64 | 4861.496 | 7629.019 |
| #3 | 6212.804 | 107153.3 | 11060.20 | 4829.017 | 7640.327 |

Sample Name: ICSABDLX20 Acquired: 8/20/2025 13:42:59 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01DLX20 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0050447** | **.0058553** | **.0020430** | **.0013526** | **.0280631** | **12.17426** | **.0218190** |
| Stddev | .0009747 | .0000813 | .0007122 | .0005265 | .0009026 | .01973 | .0011566 |
| %RSD | 19.32070 | 1.388024 | 34.85947 | 38.91971 | 3.216319 | .1620339 | 5.301005 |
| #1 | .0055310 | .0059460 | .0019186 | .0016940 | .0281525 | 12.16089 | .0204925 |
| #2 | .0039225 | .0057890 | .0028092 | .0007464 | .0271191 | 12.19692 | .0226167 |
| #3 | .0056805 | .0058310 | .0014012 | .0016176 | .0289177 | 12.16498 | .0223477 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0242346** | **.0453717** | **12.01291** | **.0268346** | **.0229340** | **.0240977** | **4.825151** |
| Stddev | .0000538 | .0000516 | .01778 | .0002201 | .0000242 | .0003365 | .010133 |
| %RSD | .2218626 | .1136552 | .1480250 | .8203407 | .1053315 | 1.396561 | .2100093 |
| #1 | .0241911 | .0454278 | 11.99240 | .0266827 | .0229579 | .0238512 | 4.813911 |
| #2 | .0242947 | .0453610 | 12.02408 | .0267339 | .0229096 | .0244811 | 4.833588 |
| #3 | .0242179 | .0453264 | 12.02224 | .0270870 | .0229344 | .0239608 | 4.827954 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0244269** | **12.52539** | **.0460076** | **.0095155** | **-.100478** | **.0281114** | **.0489873** |
| Stddev | .0002449 | .01397 | .0001602 | .0001183 | .009425 | .0013010 | .0000952 |
| %RSD | 1.002754 | .1115497 | .3482032 | 1.243124 | 9.380200 | 4.627937 | .1943583 |
| #1 | .0241927 | 12.50939 | .0459151 | .0093940 | -.092182 | .0296090 | .0490967 |
| #2 | .0244066 | 12.53154 | .0461926 | .0095222 | -.110726 | .0274641 | .0489232 |
| #3 | .0246814 | 12.53523 | .0459152 | .0096303 | -.098525 | .0272610 | .0489421 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.307211** | **.0014851** | **.0001010** | **-.003112** | **-.001201** | **-.002797** | **.0002037** |
| Stddev | .026706 | .0000448 | .0001131 | .000343 | .000739 | .004629 | .0006533 |
| %RSD | 8.692877 | 3.017691 | 112.0217 | 11.01580 | 61.51830 | 165.4719 | 320.7817 |
| #1 | -.310119 | .0014335 | .0001355 | -.002875 | -.000585 | -.001553 | .0007788 |
| #2 | -.279171 | .0015072 | -.000025 | -.003505 | -.002021 | .001082 | .0003389 |
| #3 | -.332344 | .0015146 | .000193 | -.002957 | -.000998 | -.007921 | -.000507 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: ICSABDLX20 Acquired: 8/20/2025 13:42:59 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01DLX20 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **-.001005** | **-.011257** | **.0002360** |
| Stddev | .000617 | .001247 | .0000251 |
| %RSD | 61.40195 | 11.07298 | 10.63282 |
| #1 | -.001521 | -.012687 | .0002650 |
| #2 | -.001173 | -.010400 | .0002212 |
| #3 | -.000321 | -.010685 | .0002219 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **6224.420** | **106486.8** | **11282.08** | **4820.977** | **7649.068** |
| Stddev | 7.788 | 342.7 | 79.12 | 13.781 | 10.711 |
| %RSD | .1251157 | .3218071 | .7012924 | .2858621 | .1400303 |
| #1 | 6231.787 | 106882.4 | 11373.18 | 4821.136 | 7660.545 |
| #2 | 6225.204 | 106298.6 | 11230.51 | 4807.118 | 7647.320 |
| #3 | 6216.270 | 106279.6 | 11242.55 | 4834.679 | 7639.338 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: CCV01 Acquired: 8/20/2025 13:47:11 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.982209** | **4.974882** | **4.900644** | **5.008231** | **4.981173** | **9.924865** | **9.806624** |
| Stddev | .008849 | .066959 | .012002 | .002014 | .006120 | .016351 | .116245 |
| %RSD | .1776078 | 1.345945 | .2449006 | .0402064 | .1228699 | .1647493 | 1.185372 |
| #1 | 4.978075 | 4.991822 | 4.900251 | 5.010540 | 4.978145 | 9.929908 | 9.940241 |
| #2 | 4.992368 | 5.031743 | 4.888844 | 5.007317 | 4.988217 | 9.906587 | 9.728742 |
| #3 | 4.976184 | 4.901079 | 4.912837 | 5.006837 | 4.977157 | 9.938101 | 9.750887 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2462164** | **2.470373** | **24.77337** | **1.008736** | **2.462184** | **1.247200** | **5.015588** |
| Stddev | .0009505 | .005344 | .04476 | .002523 | .004267 | .000611 | .042987 |
| %RSD | .3860476 | .2163333 | .1806966 | .2501634 | .1732863 | .0490136 | .8570610 |
| #1 | .2454827 | 2.470151 | 24.80261 | 1.010048 | 2.460922 | 1.247286 | 5.047000 |
| #2 | .2458762 | 2.465143 | 24.72183 | 1.005826 | 2.458690 | 1.246550 | 5.033166 |
| #3 | .2472902 | 2.475824 | 24.79566 | 1.010332 | 2.466939 | 1.247764 | 4.966598 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.467940** | **24.67880** | **2.463563** | **1.243869** | **24.99949** | **2.483950** | **2.524049** |
| Stddev | .007180 | .09081 | .005660 | .000547 | .20795 | .003431 | .002577 |
| %RSD | .2909318 | .3679612 | .2297316 | .0439547 | .8317992 | .1381142 | .1020943 |
| #1 | 2.474264 | 24.76272 | 2.463418 | 1.243947 | 25.08831 | 2.485710 | 2.521287 |
| #2 | 2.469422 | 24.58239 | 2.457978 | 1.243287 | 25.14827 | 2.479997 | 2.524474 |
| #3 | 2.460135 | 24.69127 | 2.469294 | 1.244372 | 24.76188 | 2.486144 | 2.526388 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **24.82432** | **4.896276** | **5.007942** | **4.938841** | **4.942733** | **5.028054** | **4.917674** |
| Stddev | .15653 | .022706 | .004623 | .008222 | .008914 | .012319 | .007907 |
| %RSD | .6305517 | .4637321 | .0923206 | .1664725 | .1803436 | .2450114 | .1607863 |
| #1 | 24.91581 | 4.873144 | 5.009712 | 4.944931 | 4.946766 | 5.037317 | 4.926328 |
| #2 | 24.91358 | 4.897157 | 5.011419 | 4.929488 | 4.948918 | 5.032772 | 4.915864 |
| #3 | 24.64358 | 4.918529 | 5.002695 | 4.942102 | 4.932516 | 5.014073 | 4.910828 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: CCV01 Acquired: 8/20/2025 13:47:11 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **4.880336** | **4.910950** | **4.981938** |
| Stddev | .014535 | .019555 | .048481 |
| %RSD | .2978221 | .3981925 | .9731410 |
| #1 | 4.875734 | 4.920778 | 4.946473 |
| #2 | 4.896615 | 4.923640 | 4.962159 |
| #3 | 4.868659 | 4.888430 | 5.037182 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **6039.484** | **103441.3** | **11067.21** | **4659.752** | **7021.969** |
| Stddev | 3.664 | 10.7 | 43.03 | 14.747 | 5.798 |
| %RSD | .0606646 | .0103594 | .3888206 | .3164762 | .0825728 |
| #1 | 6039.213 | 103430.4 | 11100.83 | 4673.266 | 7022.441 |
| #2 | 6035.964 | 103441.7 | 11082.08 | 4661.969 | 7027.517 |
| #3 | 6043.276 | 103451.8 | 11018.72 | 4644.023 | 7015.950 |

Sample Name: CCB01 Acquired: 8/20/2025 13:51:22 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0031211** | **.0002393** | **-.000613** | **.0012661** | **.0000124** | **.0032407** | **-.002109** |
| Stddev | .0005517 | .0003417 | .000880 | .0016052 | .0007010 | .0040605 | .000279 |
| %RSD | 17.67679 | 142.7630 | 143.6995 | 126.7763 | 5649.787 | 125.2971 | 13.22749 |
| #1 | .0026528 | .0004406 | -.000149 | .0027064 | -.000690 | .0027355 | -.002191 |
| #2 | .0037293 | .0004326 | -.001628 | -.000464 | .000016 | -.000544 | -.002338 |
| #3 | .0029811 | -.000155 | -.000061 | .001556 | .000712 | .007530 | -.001799 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000033** | **-.000019** | **.0076088** | **-.000358** | **-.000065** | **-.000253** | **-.001411** |
| Stddev | .000065 | .000062 | .0080637 | .000226 | .000113 | .000022 | .002909 |
| %RSD | 196.5634 | 334.5723 | 105.9785 | 63.24584 | 175.5915 | 8.881910 | 206.1850 |
| #1 | -.000052 | .000047 | .0168942 | -.000167 | .000024 | -.000227 | -.004153 |
| #2 | -.000087 | -.000077 | .0023671 | -.000298 | -.000193 | -.000268 | -.001721 |
| #3 | .000039 | -.000026 | .0035650 | -.000608 | -.000025 | -.000264 | .001641 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0003500** | **-.013399** | **.0000418** | **.0003118** | **-.092431** | **.0031382** | **-.000450** |
| Stddev | .0005090 | .020421 | .0001219 | .0004490 | .015235 | .0018229 | .000267 |
| %RSD | 145.4450 | 152.4120 | 291.6309 | 144.0331 | 16.48211 | 58.08671 | 59.40967 |
| #1 | .0001679 | -.023359 | .0001509 | .0000841 | -.109180 | .0021889 | -.000262 |
| #2 | .0009250 | .010091 | -.000090 | .0008290 | -.088714 | .0052398 | -.000756 |
| #3 | -.000043 | -.026928 | .000064 | .0000221 | -.079399 | .0019859 | -.000332 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.329523** | **.0049995** | **.0002195** | **-.001419** | **-.000795** | **.0007522** | **.0017190** |
| Stddev | .010472 | .0008820 | .0001580 | .000537 | .000848 | .0051997 | .0007114 |
| %RSD | 3.178050 | 17.64197 | 71.96556 | 37.85443 | 106.6507 | 691.2833 | 41.38790 |
| #1 | -.326194 | .0060162 | .0003371 | -.002014 | .000160 | .0004100 | .0011565 |
| #2 | -.321120 | .0045433 | .0000400 | -.000971 | -.001086 | .0061145 | .0025187 |
| #3 | -.341256 | .0044390 | .0002815 | -.001272 | -.001460 | -.004268 | .0014817 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: CCB01 Acquired: 8/20/2025 13:51:22 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0009326 | -.008267 | .0000330 |
| Stddev | .0011053 | .000736 | .0000253 |
| %RSD | 118.5219 | 8.907452 | 76.68498 |
| #1 | .0016004 | -.008913 | .0000542 |
| #2 | -.000343 | -.007465 | .0000399 |
| #3 | .001541 | -.008423 | .0000050 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6357.856 | 106960.5 | 11368.33 | 4832.067 | 8062.234 |
| Stddev | 4.940 | 442.7 | 16.83 | 23.000 | 3.524 |
| %RSD | .0776927 | .4138661 | .1480167 | .4759880 | .0437097 |
| #1 | 6353.786 | 107369.3 | 11352.00 | 4841.715 | 8060.793 |
| #2 | 6363.352 | 107021.9 | 11385.62 | 4848.672 | 8059.660 |
| #3 | 6356.430 | 106490.3 | 11367.38 | 4805.815 | 8066.251 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: LR-1 Acquired: 8/20/2025 13:55:41 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.002853** | **.0092239** | **.0123243** | **-.015435** | **.0152064** | **.1346766** | **-.014022** |
| Stddev | .002774 | .0034874 | .0027590 | .003027 | .0047058 | .0127261 | .000780 |
| %RSD | 97.23952 | 37.80791 | 22.38683 | 19.61083 | 30.94595 | 9.449411 | 5.561343 |
| #1 | -.003250 | .0073318 | .0154358 | -.015341 | .0143655 | .1239467 | -.014723 |
| #2 | -.005406 | .0070915 | .0113610 | -.012456 | .0202759 | .1487367 | -.014162 |
| #3 | .000099 | .0132483 | .0101761 | -.018508 | .0109778 | .1313464 | -.013182 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0001265** | **.0004411** | **2116.212** | **.0114847** | **-.000354** | **.0026692** | **.4317345** |
| Stddev | .0000368 | .0001135 | 12.958 | .0001392 | .000214 | .0010111 | .0058454 |
| %RSD | 29.06406 | 25.72773 | .6123233 | 1.211895 | 60.41775 | 37.87940 | 1.353943 |
| #1 | .0001378 | .0003809 | 2102.609 | .0114208 | -.000598 | .0020170 | .4364228 |
| #2 | .0000854 | .0005719 | 2117.617 | .0116444 | -.000265 | .0021566 | .4335957 |
| #3 | .0001563 | .0003703 | 2128.411 | .0113890 | -.000199 | .0038339 | .4251851 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0135153** | **2141.241** | **.0087689** | **-.001825** | **2520.792** | **.0077642** | **.0466987** |
| Stddev | .0006013 | 15.331 | .0002582 | .000387 | 24.351 | .0031000 | .0006747 |
| %RSD | 4.449286 | .7159669 | 2.944066 | 21.18501 | .9660159 | 39.92750 | 1.444717 |
| #1 | .0130945 | 2124.080 | .0088375 | -.001558 | 2542.754 | .0106540 | .0474777 |
| #2 | .0132473 | 2146.062 | .0089858 | -.001649 | 2525.017 | .0044898 | .0463110 |
| #3 | .0142040 | 2153.582 | .0084834 | -.002269 | 2494.604 | .0081487 | .0463074 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **6.883755** | **.0107534** | **.0027068** | **-.015081** | **-.098087** | **-.023129** | **.0141968** |
| Stddev | .362972 | .0007183 | .0003425 | .000144 | .003424 | .008926 | .0025440 |
| %RSD | 5.272884 | 6.679850 | 12.65201 | .9538060 | 3.490312 | 38.59274 | 17.91940 |
| #1 | 6.478402 | .0115807 | .0030937 | -.014976 | -.100736 | -.032521 | .0135523 |
| #2 | 6.994151 | .0103914 | .0025840 | -.015022 | -.094221 | -.014757 | .0170010 |
| #3 | 7.178713 | .0102882 | .0024427 | -.015245 | -.099304 | -.022108 | .0120370 |

Sample Name: LR-1 Acquired: 8/20/2025 13:55:41 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .1963370 | -.324070 | .0588717 |
| Stddev | .0049202 | .000471 | .0001388 |
| %RSD | 2.505976 | .1454296 | .2358250 |
| #1 | .1949565 | -.323526 | .0588982 |
| #2 | .2018000 | -.324322 | .0587215 |
| #3 | .1922546 | -.324362 | .0589953 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3883.147 | 70369.92 | 10109.58 | 2992.139 | 4123.195 |
| Stddev | 6.468 | 146.55 | 73.97 | 4.038 | 8.856 |
| %RSD | .1665625 | .2082513 | .7316507 | .1349410 | .2147796 |
| #1 | 3885.543 | 70470.97 | 10175.32 | 2991.604 | 4128.673 |
| #2 | 3888.076 | 70201.85 | 10123.94 | 2988.394 | 4127.934 |
| #3 | 3875.823 | 70436.94 | 10029.49 | 2996.417 | 4112.978 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: LR-2 Acquired: 8/20/2025 14:00:20 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba493 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .2336146 | -.368988 | -.129733 | -.002700 | -.159858 | 1916.710 | .021671 |
| Stddev | .0023697 | .004984 | .007806 | .012855 | .008941 | 15.670 | .000549 |
| %RSD | 1.014370 | 1.350717 | 6.017060 | 476.1469 | 5.593255 | .8175370 | 2.53603 |
| #1 | .2343658 | -.370251 | -.126148 | .009558 | -.168349 | 1900.512 | .021300 |
| #2 | .2309603 | -.363494 | -.138688 | -.001578 | -.160698 | 1931.792 | .021411 |
| #3 | .2355176 | -.373219 | -.124363 | -.016079 | -.150526 | 1917.826 | .022303 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe240 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0425345 | .1441347 | ^ ***** | -.045888 | .0882619 | .1573745 | 2788.90 |
| Stddev | .0005407 | .0029395 | ----- | .000908 | .0002522 | .0179528 | 29.37 |
| %RSD | 1.271288 | 2.039440 | ----- | 1.977950 | .2857296 | 11.40772 | 1.05311 |
| #1 | .0419123 | .1407597 | 12.90992 | -.046897 | .0884143 | .1367041 | 2822.45 |
| #2 | .0427997 | .1461356 | ^ ----- | -.045138 | .0884006 | .1690717 | 2767.87 |
| #3 | .0428914 | .1455086 | 13.00495 | -.045630 | .0879708 | .1663476 | 2776.36 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn213 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.184732 | 1.048704 | .0591209 | ^ ***** | 2.655464 | .0503486 | .1059880 |
| Stddev | .002093 | .019614 | .0009403 | ----- | .013176 | .0029510 | .0026301 |
| %RSD | 1.132733 | 1.870261 | 1.590422 | ----- | .4961940 | 5.861064 | 2.481500 |
| #1 | -.185195 | 1.059862 | .0601641 | ^ ----- | 2.666212 | .0492254 | .1037242 |
| #2 | -.186554 | 1.060194 | .0583387 | ^ ----- | 2.640764 | .0481242 | .1053666 |
| #3 | -.182447 | 1.026058 | .0588599 | ^ ----- | 2.659415 | .0536962 | .1088731 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 1846.272 | ^ ***** | -.015848 | .0240792 | .0028031 | .5038142 | .1197687 |
| Stddev | 14.222 | ----- | .001001 | .0047301 | .0009499 | .0034730 | .0081434 |
| %RSD | .7703240 | ----- | 6.315408 | 19.64380 | 33.88778 | .6893386 | 6.799262 |
| #1 | 1862.005 | ^ ----- | -.016036 | .0211151 | .0020622 | .5065167 | .1105587 |
| #2 | 1834.327 | ^ ----- | -.014767 | .0215883 | .0024730 | .4998970 | .1260160 |
| #3 | 1842.485 | ^ ----- | -.016742 | .0295342 | .0038740 | .5050288 | .1227313 |

Sample Name: LR-2 Acquired: 8/20/2025 14:00:20 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **-.410218** | k **.2777913** | **-2.67327** |
| Stddev | .011119 | .0020199 | .02818 |
| %RSD | 2.710587 | .7271196 | 1.054089 |
| #1 | -.420683 | .2801178 | -2.70547 |
| #2 | -.398543 | k .2764855 | -2.65311 |
| #3 | -.411429 | .2767706 | -2.66122 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **4862.378** | **81073.85** | **10536.38** | **3699.208** | **4112.073** |
| Stddev | 8.453 | 173.45 | 84.16 | 19.077 | 4.493 |
| %RSD | .1738422 | .2139433 | .7987834 | .5157021 | .1092709 |
| #1 | 4867.088 | 81112.44 | 10633.28 | 3697.630 | 4115.731 |
| #2 | 4867.427 | 81224.75 | 10494.44 | 3719.025 | 4113.431 |
| #3 | 4852.619 | 80884.35 | 10481.44 | 3680.969 | 4107.057 |

Sample Name: LR-3 Acquired: 8/20/2025 14:04:48 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0962229** | **.0088544** | **224.4396** | **-.000482** | **.1152296** | **.1229048** | **-.001407** |
| Stddev | .0022896 | .0008476 | .6747 | .001475 | .0039150 | .0054409 | .001283 |
| %RSD | 2.379454 | 9.572620 | .3006163 | 305.8871 | 3.397582 | 4.426953 | 91.17262 |
| #1 | .0940906 | .0079012 | 225.2052 | -.001646 | .1181705 | .1276408 | -.001330 |
| #2 | .0986426 | .0095233 | 223.9321 | -.000978 | .1107858 | .1241118 | -.002726 |
| #3 | .0959356 | .0091386 | 224.1814 | .001177 | .1167324 | .1169617 | -.000164 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.004556** | **-.001671** | **.2431928** | **23.83954** | **.0060383** | **52.50632** | **.1312486** |
| Stddev | .000042 | .000025 | .0013855 | .08663 | .0000882 | .06715 | .0095435 |
| %RSD | .9129819 | 1.516196 | .5697313 | .3634071 | 1.460276 | .1278957 | 7.271343 |
| #1 | -.004510 | -.001689 | .2441342 | 23.88440 | .0059959 | 52.57645 | .1400258 |
| #2 | -.004565 | -.001642 | .2438425 | 23.89455 | .0061397 | 52.44261 | .1326305 |
| #3 | -.004592 | -.001682 | .2416018 | 23.73968 | .0059793 | 52.49990 | .1210894 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **48.21645** | **-.183298** | **23.42704** | **.0048770** | **.1823358** | **-.034120** | **29.44924** |
| Stddev | .28891 | .015704 | .03088 | .0002649 | .0151045 | .001922 | .08379 |
| %RSD | .5991912 | 8.567633 | .1318114 | 5.430573 | 8.283910 | 5.632387 | .2845281 |
| #1 | 48.48607 | -.181108 | 23.45547 | .0047550 | .1650538 | -.034046 | 29.52016 |
| #2 | 48.25179 | -.199982 | 23.39419 | .0051809 | .1930129 | -.032237 | 29.47079 |
| #3 | 47.91150 | -.168804 | 23.43147 | .0046952 | .1889407 | -.036078 | 29.35678 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4318858** | **.0045906** | **-.014111** | **-.011844** | **-.043680** | **-.131864** | **.1281622** |
| Stddev | .0522918 | .0005194 | .000244 | .000467 | .000474 | .009712 | .0020233 |
| %RSD | 12.10778 | 11.31332 | 1.730309 | 3.940125 | 1.084624 | 7.364818 | 1.578718 |
| #1 | .3729772 | .0045312 | -.013831 | -.012378 | -.043586 | -.142216 | .1299240 |
| #2 | .4728190 | .0051371 | -.014276 | -.011642 | -.044194 | -.130420 | .1286102 |
| #3 | .4498612 | .0041035 | -.014228 | -.011513 | -.043261 | -.122955 | .1259525 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: LR-3 Acquired: 8/20/2025 14:04:48 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0527295 | -.006484 | .0004198 |
| Stddev | .0014280 | .002378 | .0000524 |
| %RSD | 2.708127 | 36.67345 | 12.48682 |
| #1 | .0535626 | -.003781 | .0004704 |
| #2 | .0510806 | -.008254 | .0003657 |
| #3 | .0535453 | -.007415 | .0004233 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5964.477 | 109010.9 | 11304.33 | 4723.982 | 7714.965 |
| Stddev | 21.506 | 558.8 | 47.65 | 12.294 | 24.456 |
| %RSD | .3605672 | .5125818 | .4215280 | .2602557 | .3170005 |
| #1 | 5942.698 | 108811.6 | 11249.57 | 4734.782 | 7691.607 |
| #2 | 5965.035 | 108579.0 | 11336.41 | 4710.602 | 7712.898 |
| #3 | 5985.699 | 109641.9 | 11327.00 | 4726.562 | 7740.389 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: Q2892-02 Acquired: 8/20/2025 14:09:42 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2048661** | **-.020961** | **1.390924** | **.0077696** | **-.013187** | **193.8884** |
| Stddev | .0013170 | .002997 | .002810 | .0006708 | .003071 | 1.6631 |
| %RSD | .6428576 | 14.29906 | .2020590 | 8.633169 | 23.28823 | .8577479 |
| #1 | .2044200 | -.023953 | 1.394060 | .0078841 | -.016620 | 194.0971 |
| #2 | .2063483 | -.017959 | 1.390077 | .0070490 | -.012243 | 192.1309 |
| #3 | .2038301 | -.020969 | 1.388634 | .0083757 | -.010699 | 195.4374 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.9628243** | **.0170110** | **.0235429** | **35.30456** | **.3868533** | **.1958166** |
| Stddev | .0009143 | .0000632 | .0000688 | .02908 | .0016695 | .0000986 |
| %RSD | .0949589 | .3715875 | .2922498 | .0823627 | .4315619 | .0503429 |
| #1 | .9620578 | .0169652 | .0236065 | 35.28120 | .3884503 | .1958060 |
| #2 | .9638362 | .0169848 | .0234698 | 35.33713 | .3869900 | .1959201 |
| #3 | .9625788 | .0170831 | .0235524 | 35.29537 | .3851197 | .1957238 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8536550** | **338.6152** | **8.193195** | **92.84369** | **.3323223** | **.0114016** |
| Stddev | .0010906 | .4289 | .008354 | .12414 | .0004562 | .0002751 |
| %RSD | .1277618 | .1266604 | .1019627 | .1337057 | .1372601 | 2.412506 |
| #1 | .8526582 | 339.0269 | 8.185500 | 92.94321 | .3327973 | .0114275 |
| #2 | .8548199 | 338.6478 | 8.202080 | 92.70459 | .3322817 | .0111146 |
| #3 | .8534868 | 338.1709 | 8.192005 | 92.88327 | .3318877 | .0116629 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **6.932406** | **.6902276** | **2.321387** | **35.63925** | **.2367685** | **.0174825** |
| Stddev | .002292 | .0011755 | .006634 | .09851 | .0007571 | .0002924 |
| %RSD | .0330625 | .1703047 | .2857686 | .2764150 | .3197772 | 1.672802 |
| #1 | 6.934045 | .6901592 | 2.324478 | 35.72814 | .2358949 | .0173990 |
| #2 | 6.929787 | .6890878 | 2.325911 | 35.65629 | .2372344 | .0172409 |
| #3 | 6.933387 | .6914358 | 2.313772 | 35.53334 | .2371763 | .0178076 |

Sample Name: Q2892-02 Acquired: 8/20/2025 14:09:42 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0262144 | 9.088549 | F 11.35298 | 8.713168 | 2.093306 | .3701813 |
| Stddev | .0001974 | .004281 | .06328 | .003655 | .010555 | .0002229 |
| %RSD | .7531024 | .0471017 | .5573946 | .0419478 | .5042073 | .0602138 |
| #1 | .0260613 | 9.092557 | 11.39278 | 8.716849 | 2.105455 | .3704385 |
| #2 | .0264372 | 9.089051 | 11.38614 | 8.713116 | 2.086393 | .3700590 |
| #3 | .0261447 | 9.084039 | 11.28000 | 8.709540 | 2.088069 | .3700462 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | -.092323 |
| Stddev | .000259 |
| %RSD | .2808283 |
| #1 | -.092556 |
| #2 | -.092044 |
| #3 | -.092368 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 7476.478 | 128672.2 | 15210.67 | 5734.075 | 6421.353 |
| Stddev | 10.089 | 522.1 | 33.40 | 39.844 | 9.087 |
| %RSD | .1349414 | .4057981 | .2196125 | .6948718 | .1415107 |
| #1 | 7471.758 | 128098.8 | 15173.79 | 5694.300 | 6411.249 |
| #2 | 7469.614 | 128797.4 | 15219.31 | 5733.935 | 6423.956 |
| #3 | 7488.061 | 129120.3 | 15238.90 | 5773.988 | 6428.855 |

Sample Name: Q2892-02DUP Acquired: 8/20/2025 14:15:13 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2064987** | **-.022467** | **1.385831** | **.0042857** | **-.014141** | **195.6674** |
| Stddev | .0019947 | .003546 | .002579 | .0037909 | .000274 | 1.3594 |
| %RSD | .9659759 | 15.78178 | .1861087 | 88.45383 | 1.935830 | .6947677 |
| #1 | .2048682 | -.023369 | 1.386594 | .0015493 | -.013828 | 194.4526 |
| #2 | .2087229 | -.018558 | 1.382957 | .0086127 | -.014260 | 195.4139 |
| #3 | .2059051 | -.025475 | 1.387943 | .0026951 | -.014335 | 197.1358 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.9662049** | **.0170096** | **.0233193** | **35.33301** | **.3887274** | **.1954963** |
| Stddev | .0029377 | .0000895 | .0002238 | .05246 | .0016806 | .0005277 |
| %RSD | .3040421 | .5264878 | .9597977 | .1484606 | .4323432 | .2699152 |
| #1 | .9641206 | .0170749 | .0234955 | 35.27365 | .3903318 | .1957560 |
| #2 | .9695647 | .0169075 | .0230675 | 35.37311 | .3888706 | .1948891 |
| #3 | .9649293 | .0170464 | .0233950 | 35.35228 | .3869797 | .1958438 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8482489** | **340.9807** | **8.205715** | **92.76648** | **.3319744** | **.0116429** |
| Stddev | .0012365 | 1.6692 | .007028 | .15643 | .0006493 | .0000815 |
| %RSD | .1457701 | .4895209 | .0856527 | .1686310 | .1955781 | .6996383 |
| #1 | .8493983 | 339.5430 | 8.197605 | 92.60324 | .3316245 | .0116625 |
| #2 | .8469407 | 342.8113 | 8.210035 | 92.78113 | .3315752 | .0117129 |
| #3 | .8484079 | 340.5877 | 8.209505 | 92.91507 | .3327236 | .0115535 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **6.979227** | **.6932141** | **2.334690** | **35.79366** | **.2530418** | **.0173184** |
| Stddev | .073666 | .0029391 | .001958 | .28652 | .0067387 | .0001828 |
| %RSD | 1.055508 | .4239868 | .0838764 | .8004643 | 2.663097 | 1.055693 |
| #1 | 6.907123 | .6948640 | 2.334062 | 35.60439 | .2492482 | .0174785 |
| #2 | 7.054362 | .6898207 | 2.336885 | 36.12329 | .2608222 | .0173576 |
| #3 | 6.976195 | .6949575 | 2.333122 | 35.65329 | .2490550 | .0171192 |

Sample Name: Q2892-02DUP Acquired: 8/20/2025 14:15:13 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0264233 | 9.103807 | F 11.37325 | 8.764164 | 2.092588 | .3713261 |
| Stddev | .0013502 | .019089 | .06805 | .031474 | .014919 | .0011727 |
| %RSD | 5.109976 | .2096838 | .5983693 | .3591252 | .7129317 | .3158237 |
| #1 | .0248732 | 9.092425 | 11.29658 | 8.755339 | 2.085674 | .3700794 |
| #2 | .0270535 | 9.125846 | 11.42651 | 8.738044 | 2.082380 | .3714914 |
| #3 | .0273433 | 9.093151 | 11.39666 | 8.799109 | 2.109709 | .3724073 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | -.094391 |
| Stddev | .000797 |
| %RSD | .8443527 |
| #1 | -.093695 |
| #2 | -.095261 |
| #3 | -.094218 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 7508.741 | 127822.0 | 15191.75 | 5711.719 | 6451.386 |
| Stddev | 10.343 | 430.0 | 37.90 | 27.840 | 7.331 |
| %RSD | .1377405 | .3363943 | .2494777 | .4874122 | .1136273 |
| #1 | 7520.046 | 127965.1 | 15152.14 | 5711.849 | 6459.334 |
| #2 | 7499.754 | 127338.7 | 15227.67 | 5683.815 | 6449.933 |
| #3 | 7506.423 | 128162.2 | 15195.42 | 5739.494 | 6444.890 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: Q2892-02MS Acquired: 8/20/2025 14:23:25 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8375885** | **1.968027** | **2.524403** | **1.560339** | **.1876213** | **220.7237** |
| Stddev | .0028986 | .023585 | .003959 | .003120 | .0027111 | .8697 |
| %RSD | .3460639 | 1.198406 | .1568121 | .1999384 | 1.444968 | .3940315 |
| #1 | .8405856 | 1.983515 | 2.522682 | 1.563262 | .1890543 | 219.7679 |
| #2 | .8347997 | 1.940883 | 2.521596 | 1.557054 | .1893152 | 220.9347 |
| #3 | .8373801 | 1.979682 | 2.528931 | 1.560701 | .1844945 | 221.4685 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.251939** | **.1686884** | **.2344521** | **40.03896** | **.7346454** | **.4134228** |
| Stddev | .007134 | .0013880 | .0002904 | .13216 | .0025962 | .0007532 |
| %RSD | .5698523 | .8228426 | .1238837 | .3300763 | .3533997 | .1821893 |
| #1 | 1.244684 | .1670914 | .2342510 | 39.91161 | .7330328 | .4129824 |
| #2 | 1.252187 | .1693687 | .2343202 | 40.02982 | .7332630 | .4129934 |
| #3 | 1.258946 | .1696050 | .2347851 | 40.17545 | .7376403 | .4142925 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6365308** | **342.0404** | **8.256953** | **107.5364** | **.8843806** | **.0735351** |
| Stddev | .0006000 | 1.2277 | .049335 | .3484 | .0010063 | .0006350 |
| %RSD | .0942599 | .3589395 | .5974981 | .3239554 | .1137892 | .8635963 |
| #1 | .6360410 | 342.1362 | 8.210105 | 107.2630 | .8838967 | .0740371 |
| #2 | .6372001 | 340.7676 | 8.252308 | 107.4176 | .8855375 | .0728212 |
| #3 | .6363514 | 343.2175 | 8.308446 | 107.9286 | .8837077 | .0737471 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.14914** | **.9678536** | **2.624146** | **55.74369** | **.4151518** | **.3361824** |
| Stddev | .02359 | .0063598 | .002300 | .12086 | .0063510 | .0005428 |
| %RSD | .2324284 | .6571011 | .0876435 | .2168049 | 1.529804 | .1614715 |
| #1 | 10.15287 | .9637258 | 2.626512 | 55.69497 | .4212581 | .3356427 |
| #2 | 10.12391 | .9646576 | 2.621918 | 55.65481 | .4085815 | .3361761 |
| #3 | 10.17065 | .9751775 | 2.624008 | 55.88131 | .4156159 | .3367284 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: Q2892-02MS Acquired: 8/20/2025 14:23:25 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7222629 | F 11.25956 | F 12.22122 | F 15.90150 | 2.135907 | .6128346 |
| Stddev | .0023544 | .05172 | .05124 | .02695 | .003741 | .0028524 |
| %RSD | .3259692 | .4593524 | .4192421 | .1694696 | .1751429 | .4654428 |
| #1 | .7220149 | 11.21741 | 12.27839 | 15.92081 | 2.137425 | .6097156 |
| #2 | .7200423 | 11.24399 | 12.20583 | 15.87071 | 2.131646 | .6134775 |
| #3 | .7247314 | 11.31728 | 12.17945 | 15.91298 | 2.138651 | .6153106 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0823944 |
| Stddev | .0021762 |
| %RSD | 2.641239 |
| #1 | .0798854 |
| #2 | .0835274 |
| #3 | .0837704 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 7528.231 | 129849.1 | 15192.09 | 5769.563 | 6319.371 |
| Stddev | 5.478 | 279.9 | 114.32 | 4.511 | 3.143 |
| %RSD | .0727668 | .2155715 | .7524927 | .0781808 | .0497333 |
| #1 | 7527.947 | 130141.2 | 15321.01 | 5764.706 | 6319.554 |
| #2 | 7522.901 | 129823.0 | 15152.22 | 5773.620 | 6316.141 |
| #3 | 7533.846 | 129583.2 | 15103.05 | 5770.363 | 6322.418 |

Sample Name: Q2892-02MSD Acquired: 8/20/2025 14:27:28 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8417563** | **1.938457** | **2.534799** | **1.537513** | **.1793907** | **223.2255** |
| Stddev | .0024605 | .037017 | .004635 | .002183 | .0008653 | 2.0142 |
| %RSD | .2923067 | 1.909600 | .1828363 | .1419846 | .4823811 | .9023260 |
| #1 | .8398327 | 1.980873 | 2.530064 | 1.540033 | .1797096 | 223.5286 |
| #2 | .8409073 | 1.921820 | 2.539326 | 1.536194 | .1784111 | 221.0769 |
| #3 | .8445289 | 1.912677 | 2.535007 | 1.536311 | .1800513 | 225.0710 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.250926** | **.1656916** | **.2347031** | **40.17379** | **.7314897** | **.4205492** |
| Stddev | .006507 | .0009292 | .0003529 | .09213 | .0027438 | .0004887 |
| %RSD | .5201927 | .5608185 | .1503598 | .2293209 | .3750994 | .1161956 |
| #1 | 1.248599 | .1646966 | .2345715 | 40.07415 | .7338578 | .4201653 |
| #2 | 1.258277 | .1665368 | .2351029 | 40.25588 | .7284829 | .4203829 |
| #3 | 1.245902 | .1658413 | .2344349 | 40.19135 | .7321284 | .4210993 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6299674** | **348.9118** | **8.295371** | **100.7823** | **.9105036** | **.0729152** |
| Stddev | .0024795 | 1.7894 | .030255 | .3795 | .0017048 | .0005123 |
| %RSD | .3935971 | .5128562 | .3647255 | .3765675 | .1872423 | .7025561 |
| #1 | .6275063 | 350.8611 | 8.265309 | 100.4014 | .9090166 | .0734877 |
| #2 | .6299310 | 347.3436 | 8.325816 | 100.7851 | .9123643 | .0725000 |
| #3 | .6324650 | 348.5306 | 8.294989 | 101.1604 | .9101300 | .0727580 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.951618** | **.9550917** | **2.665477** | **50.09854** | **.4220437** | **.3305565** |
| Stddev | .074688 | .0011110 | .007495 | .37901 | .0106968 | .0006461 |
| %RSD | .7505098 | .1163294 | .2811763 | .7565253 | 2.534530 | .1954594 |
| #1 | 10.03731 | .9563034 | 2.662221 | 50.53549 | .4325864 | .3309314 |
| #2 | 9.91717 | .9548506 | 2.674049 | 49.90135 | .4111991 | .3298105 |
| #3 | 9.90038 | .9541209 | 2.660161 | 49.85879 | .4223455 | .3309277 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: Q2892-02MSD Acquired: 8/20/2025 14:27:28 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .7158128 | F 10.51572 | 9.867020 | F 16.17619 | 2.342128 | .5831440 |
| Stddev | .0024995 | .01783 | .105925 | .06258 | .005426 | .0029802 |
| %RSD | .3491894 | .1695726 | 1.073526 | .3868792 | .2316616 | .5110498 |
| #1 | .7186905 | 10.49814 | 9.969282 | 16.22307 | 2.345327 | .5810570 |
| #2 | .7145657 | 10.53379 | 9.757777 | 16.10513 | 2.335864 | .5865571 |
| #3 | .7141821 | 10.51522 | 9.874001 | 16.20038 | 2.345195 | .5818180 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0758663 |
| Stddev | .0028175 |
| %RSD | 3.713736 |
| #1 | .0733332 |
| #2 | .0789008 |
| #3 | .0753650 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 7631.020 | 131251.8 | 15482.12 | 5840.786 | 6337.835 |
| Stddev | 10.556 | 430.5 | 98.62 | 4.416 | 10.888 |
| %RSD | .1383318 | .3280257 | .6370010 | .0756089 | .1717898 |
| #1 | 7634.827 | 130870.7 | 15595.88 | 5842.615 | 6350.407 |
| #2 | 7639.144 | 131718.8 | 15429.71 | 5835.749 | 6331.647 |
| #3 | 7619.088 | 131165.9 | 15420.77 | 5843.993 | 6331.451 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: Q2892-02A Acquired: 8/20/2025 14:31:30 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8108756** | **1.860993** | **2.287975** | **1.512771** | **.5943811** | **191.8246** |
| Stddev | .0028123 | .028447 | .002351 | .006173 | .0008449 | 3.5189 |
| %RSD | .3468231 | 1.528565 | .1027537 | .4080340 | .1421491 | 1.834421 |
| #1 | .8079156 | 1.888503 | 2.285742 | 1.518792 | .5951504 | 188.3079 |
| #2 | .8135122 | 1.831694 | 2.287756 | 1.506457 | .5945160 | 195.3456 |
| #3 | .8111989 | 1.862782 | 2.290429 | 1.513062 | .5934768 | 191.8202 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.098907** | **.1608942** | **.2176169** | **35.58813** | **.6922371** | **.3908026** |
| Stddev | .007795 | .0005901 | .0003226 | .15579 | .0011401 | .0008311 |
| %RSD | .7093014 | .3667558 | .1482487 | .4377483 | .1647040 | .2126724 |
| #1 | 1.100273 | .1602208 | .2176875 | 35.54227 | .6910951 | .3905985 |
| #2 | 1.090519 | .1611411 | .2172648 | 35.46043 | .6933754 | .3900925 |
| #3 | 1.105928 | .1613208 | .2178983 | 35.76170 | .6922409 | .3917167 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.053362** | **338.5843** | **8.227334** | **93.22776** | **.8195785** | **.0727969** |
| Stddev | .001286 | 2.9146 | .056958 | .38451 | .0005076 | .0015711 |
| %RSD | .1221276 | .8608197 | .6923077 | .4124427 | .0619374 | 2.158122 |
| #1 | 1.052394 | 340.0548 | 8.219142 | 92.87939 | .8190792 | .0739112 |
| #2 | 1.054822 | 335.2274 | 8.174915 | 93.16355 | .8195621 | .0710000 |
| #3 | 1.052871 | 340.4707 | 8.287945 | 93.64033 | .8200941 | .0734795 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.265395** | **.9061653** | **2.456981** | **43.45782** | **.4395870** | **.3248953** |
| Stddev | .115855 | .0054693 | .002830 | .30576 | .0102166 | .0003544 |
| %RSD | 1.250401 | .6035692 | .1151818 | .7035718 | 2.324137 | .1090894 |
| #1 | 9.345751 | .9024614 | 2.453879 | 43.70097 | .4444628 | .3251846 |
| #2 | 9.132591 | .9035873 | 2.457644 | 43.11456 | .4278460 | .3245000 |
| #3 | 9.317842 | .9124472 | 2.459421 | 43.55795 | .4464523 | .3250015 |

Sample Name: Q2892-02A Acquired: 8/20/2025 14:31:30 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6935053 | 9.111678 | F 11.83901 | F 14.12949 | 2.034842 | .5206410 |
| Stddev | .0014316 | .042075 | .02004 | .05014 | .011280 | .0024309 |
| %RSD | .2064309 | .4617686 | .1692777 | .3548907 | .5543353 | .4669108 |
| #1 | .6938920 | 9.112871 | 11.85695 | 14.16961 | 2.046377 | .5204568 |
| #2 | .6919201 | 9.069019 | 11.84269 | 14.07327 | 2.023836 | .5183075 |
| #3 | .6947038 | 9.153144 | 11.81738 | 14.14557 | 2.034315 | .5231588 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0559738 |
| Stddev | .0010723 |
| %RSD | 1.915784 |
| #1 | .0547424 |
| #2 | .0564778 |
| #3 | .0567014 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 7490.812 | 126749.5 | 15069.15 | 5699.320 | 6465.583 |
| Stddev | 4.714 | 216.7 | 96.21 | 16.442 | 3.188 |
| %RSD | .0629308 | .1709930 | .6384466 | .2884933 | .0493066 |
| #1 | 7491.138 | 126892.5 | 15179.10 | 5710.592 | 6467.468 |
| #2 | 7495.355 | 126855.8 | 15027.93 | 5706.914 | 6467.380 |
| #3 | 7485.943 | 126500.2 | 15000.42 | 5680.453 | 6461.903 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: CCV02 Acquired: 8/20/2025 14:39:41 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.964567** | **5.052485** | **4.857183** | **5.008876** | **4.992450** | **9.853631** | **9.762197** |
| Stddev | .017600 | .064552 | .004039 | .008603 | .004335 | .001565 | .165075 |
| %RSD | .3545113 | 1.277638 | .0831629 | .1717563 | .0868384 | .0158803 | 1.690960 |
| #1 | 4.968811 | 5.099510 | 4.855090 | 5.004967 | 4.991985 | 9.855427 | 9.671726 |
| #2 | 4.979657 | 5.079058 | 4.861839 | 5.018739 | 4.988366 | 9.852561 | 9.662136 |
| #3 | 4.945233 | 4.978888 | 4.854619 | 5.002921 | 4.996999 | 9.852905 | 9.952728 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2433466** | **2.448582** | **24.48854** | **1.002469** | **2.444131** | **1.243195** | **5.062771** |
| Stddev | .0013145 | .004403 | .01853 | .002293 | .002878 | .000708 | .013589 |
| %RSD | .5401744 | .1798078 | .0756520 | .2287347 | .1177417 | .0569395 | .2684173 |
| #1 | .2424801 | 2.444543 | 24.48975 | 1.004541 | 2.440809 | 1.243226 | 5.057789 |
| #2 | .2427006 | 2.453275 | 24.46944 | 1.000005 | 2.445848 | 1.243886 | 5.078148 |
| #3 | .2448591 | 2.447929 | 24.50643 | 1.002862 | 2.445737 | 1.242472 | 5.052375 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.439007** | **24.24725** | **2.447154** | **1.250457** | **25.18476** | **2.461153** | **2.506119** |
| Stddev | .006061 | .08114 | .003704 | .000693 | .17526 | .009819 | .005150 |
| %RSD | .2484998 | .3346398 | .1513721 | .0554566 | .6958999 | .3989662 | .2054972 |
| #1 | 2.442138 | 24.20155 | 2.442879 | 1.249706 | 25.37121 | 2.456513 | 2.503547 |
| #2 | 2.432021 | 24.19926 | 2.449400 | 1.251073 | 25.15967 | 2.454515 | 2.512048 |
| #3 | 2.442862 | 24.34093 | 2.449185 | 1.250592 | 25.02339 | 2.472433 | 2.502762 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **25.28372** | **4.844309** | **5.029153** | **4.906165** | **4.921247** | **5.067349** | **4.847495** |
| Stddev | .05178 | .027141 | .007588 | .016789 | .011916 | .013425 | .023157 |
| %RSD | .2048042 | .5602758 | .1508766 | .3421954 | .2421347 | .2649300 | .4777146 |
| #1 | 25.33426 | 4.819189 | 5.033029 | 4.900817 | 4.927186 | 5.052466 | 4.858489 |
| #2 | 25.28613 | 4.840638 | 5.034020 | 4.924976 | 4.907529 | 5.071033 | 4.863108 |
| #3 | 25.23078 | 4.873099 | 5.020410 | 4.892702 | 4.929027 | 5.078546 | 4.820889 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: CCV02 Acquired: 8/20/2025 14:39:41 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **4.832470** | **4.832344** | **4.957914** |
| Stddev | .030122 | .016084 | .027552 |
| %RSD | .6233330 | .3328327 | .5557199 |
| #1 | 4.843428 | 4.849872 | 4.929499 |
| #2 | 4.855578 | 4.818264 | 4.984513 |
| #3 | 4.798402 | 4.828895 | 4.959729 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **6102.014** | **103882.7** | **11360.20** | **4665.742** | **7129.425** |
| Stddev | 6.103 | 172.3 | 34.49 | 10.442 | 5.915 |
| %RSD | .1000143 | .1658827 | .3036377 | .2238035 | .0829676 |
| #1 | 6097.905 | 103683.9 | 11367.89 | 4659.221 | 7129.538 |
| #2 | 6099.111 | 103976.2 | 11390.20 | 4660.219 | 7123.454 |
| #3 | 6109.027 | 103988.1 | 11322.51 | 4677.786 | 7135.283 |

Sample Name: CCB02 Acquired: 8/20/2025 14:43:52 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000870** | **.0001037** | **-.000200** | **-.001250** | **-.001598** | **-.000178** | **-.003024** |
| Stddev | .000970 | .0015160 | .000769 | .000883 | .001778 | .004958 | .000924 |
| %RSD | 111.5564 | 1461.711 | 385.2148 | 70.63132 | 111.2521 | 2791.889 | 30.55272 |
| #1 | -.000750 | .0011761 | -.000049 | -.000259 | -.003646 | -.000690 | -.003526 |
| #2 | -.001894 | -.001631 | -.001033 | -.001539 | -.000713 | .005017 | -.003589 |
| #3 | .000035 | .000766 | .000483 | -.001951 | -.000437 | -.004860 | -.001958 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000029** | **.0000325** | **.0061993** | **-.000354** | **-.000141** | **-.000198** | **.0004676** |
| Stddev | .000013 | .0000375 | .0020178 | .000278 | .000167 | .000130 | .0078024 |
| %RSD | 44.82549 | 115.1586 | 32.54910 | 78.47689 | 118.8237 | 65.71668 | 1668.790 |
| #1 | -.000044 | .0000623 | .0072461 | -.000459 | .000010 | -.000068 | -.003288 |
| #2 | -.000019 | -.000010 | .0038732 | -.000039 | -.000320 | -.000197 | .009438 |
| #3 | -.000024 | .000045 | .0074786 | -.000563 | -.000112 | -.000328 | -.004747 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0002879** | **-.011116** | **-.000178** | **.0001549** | **.0075663** | **.0033587** | **-.000816** |
| Stddev | .0001752 | .015300 | .000028 | .0003545 | .0063204 | .0007568 | .000147 |
| %RSD | 60.86263 | 137.6334 | 15.46286 | 228.8040 | 83.53415 | 22.53232 | 18.05782 |
| #1 | .0001190 | -.018076 | -.000208 | -.000187 | .0002785 | .0031169 | -.000831 |
| #2 | .0002759 | .006426 | -.000153 | .000521 | .0108718 | .0027524 | -.000955 |
| #3 | .0004688 | -.021699 | -.000174 | .000131 | .0115484 | .0042069 | -.000662 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.095337** | **.0042111** | **.0003254** | **-.001987** | **-.000114** | **.0020744** | **.0011428** |
| Stddev | .022569 | .0005014 | .0001607 | .000798 | .001729 | .0121540 | .0002445 |
| %RSD | 23.67270 | 11.90763 | 49.38017 | 40.15983 | 1523.566 | 585.8987 | 21.39387 |
| #1 | -.093552 | .0047825 | .0002764 | -.001806 | .001175 | .0161035 | .0014045 |
| #2 | -.118745 | .0040063 | .0001950 | -.002860 | -.002079 | -.004611 | .0011039 |
| #3 | -.073714 | .0038445 | .0005049 | -.001295 | .000564 | -.005269 | .0009201 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: CCB02 Acquired: 8/20/2025 14:43:52 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 | | |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | | |
| Avg | .0013555 | -.007083 | -.000014 | | |
| Stddev | .0016010 | .002149 | .000036 | | |
| %RSD | 118.1122 | 30.34337 | 262.2772 | | |
| #1 | .0021899 | -.004972 | -.000024 | | |
| #2 | -.000490 | -.009268 | -.000043 | | |
| #3 | .002367 | -.007008 | .000026 | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6379.986 | 109751.6 | 11461.98 | 4931.758 | 8123.485 |
| Stddev | 10.597 | 524.6 | 17.36 | 33.093 | 6.727 |
| %RSD | .1660960 | .4779930 | .1514477 | .6710172 | .0828074 |
| #1 | 6391.417 | 110055.6 | 11480.51 | 4922.723 | 8128.195 |
| #2 | 6378.050 | 110053.3 | 11459.34 | 4968.430 | 8115.781 |
| #3 | 6370.490 | 109145.8 | 11446.09 | 4904.121 | 8126.480 |

Sample Name: PB169301BL Acquired: 8/20/2025 14:48:10 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000512** | **.0005984** | **.0002162** | **.0001640** | **-.001332** | **.0041184** | **-.002732** |
| Stddev | .000904 | .0007365 | .0003527 | .0014074 | .001527 | .0043359 | .000653 |
| %RSD | 176.5278 | 123.0761 | 163.1555 | 858.2136 | 114.6627 | 105.2805 | 23.90910 |
| #1 | -.001339 | -.000220 | -.000182 | .0015675 | -.003035 | .0068469 | -.002027 |
| #2 | -.000649 | .000806 | .000490 | -.001247 | -.000879 | .0063895 | -.003316 |
| #3 | .000453 | .001209 | .000340 | .000172 | -.000083 | -.000881 | -.002852 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000052** | **.0000089** | **.0053283** | **-.000441** | **-.000188** | **-.000433** | **-.008146** |
| Stddev | .000025 | .0000627 | .0130869 | .000088 | .000258 | .000125 | .004304 |
| %RSD | 47.33789 | 703.6047 | 245.6116 | 19.87641 | 137.5223 | 28.92646 | 52.83844 |
| #1 | -.000047 | -.000060 | .0001684 | -.000360 | .000073 | -.000543 | -.012113 |
| #2 | -.000079 | .000023 | -.004392 | -.000429 | -.000194 | -.000297 | -.003569 |
| #3 | -.000030 | .000063 | .020209 | -.000534 | -.000443 | -.000459 | -.008757 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0001910** | **-.020747** | **-.000253** | **.0004080** | **-.040079** | **.0017530** | **-.000977** |
| Stddev | .0001400 | .024722 | .000153 | .0000510 | .006985 | .0017333 | .000137 |
| %RSD | 73.31978 | 119.1599 | 60.63881 | 12.49093 | 17.42694 | 98.87546 | 14.05983 |
| #1 | .0002410 | -.028858 | -.000190 | .0003741 | -.048139 | .0014901 | -.000865 |
| #2 | .0002992 | -.040395 | -.000141 | .0004666 | -.035795 | .0001662 | -.001131 |
| #3 | .0000328 | .007012 | -.000427 | .0003834 | -.036303 | .0036028 | -.000937 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.162401** | **.0012839** | **-.000084** | **-.002225** | **-.000325** | **-.001854** | **.0011973** |
| Stddev | .011563 | .0000476 | .000064 | .000407 | .001064 | .007550 | .0016794 |
| %RSD | 7.120206 | 3.706104 | 75.81630 | 18.28511 | 326.9986 | 407.1772 | 140.2694 |
| #1 | -.175382 | .0012364 | -.000133 | -.002560 | -.000250 | .002803 | .0006720 |
| #2 | -.158616 | .0012837 | -.000108 | -.002344 | .000699 | .002199 | -.000157 |
| #3 | -.153204 | .0013316 | -.000012 | -.001772 | -.001425 | -.010565 | .003076 |

Sample Name: PB169301BL Acquired: 8/20/2025 14:48:10 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0006611 | -.008043 | -.000015 |
| Stddev | .0002200 | .000327 | .000074 |
| %RSD | 33.27169 | 4.071978 | 504.5244 |
| #1 | .0006856 | -.008134 | .000061 |
| #2 | .0004299 | -.007679 | -.000019 |
| #3 | .0008678 | -.008314 | -.000086 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6320.415 | 109572.3 | 11248.50 | 4860.195 | 8047.716 |
| Stddev | 9.991 | 281.4 | 28.07 | 23.381 | 1.485 |
| %RSD | .1580827 | .2568565 | .2495625 | .4810683 | .0184482 |
| #1 | 6321.533 | 109397.7 | 11243.14 | 4844.548 | 8049.297 |
| #2 | 6329.801 | 109422.3 | 11223.49 | 4848.966 | 8046.352 |
| #3 | 6309.912 | 109897.0 | 11278.86 | 4887.072 | 8047.500 |

Sample Name: PB169301BS Acquired: 8/20/2025 14:52:29 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7684913** | **1.980923** | **.9336362** | **1.954503** | **.7922616** | **1.952506** | **.1874326** |
| Stddev | .0025386 | .051431 | .0013655 | .006795 | .0026346 | .009570 | .0020050 |
| %RSD | .3303372 | 2.596328 | .1462506 | .3476416 | .3325418 | .4901408 | 1.069725 |
| #1 | .7661622 | 1.950930 | .9330835 | 1.949012 | .7892747 | 1.963392 | .1894203 |
| #2 | .7681145 | 2.040310 | .9326338 | 1.962102 | .7932548 | 1.948708 | .1874668 |
| #3 | .7711973 | 1.951529 | .9351914 | 1.952396 | .7942552 | 1.945417 | .1854108 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1990020** | **.1865071** | **1.009493** | **.4004236** | **.1907414** | **.3034701** | **2.909883** |
| Stddev | .0013718 | .0000346 | .011883 | .0018303 | .0000968 | .0011253 | .024360 |
| %RSD | .6893482 | .0185629 | 1.177078 | .4570959 | .0507365 | .3708169 | .8371564 |
| #1 | .1987371 | .1865057 | 1.022971 | .4022070 | .1907083 | .3022125 | 2.935410 |
| #2 | .2004869 | .1864733 | 1.000530 | .4005140 | .1906656 | .3038158 | 2.907354 |
| #3 | .1977819 | .1865425 | 1.004979 | .3985497 | .1908504 | .3043821 | 2.886887 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1968728** | **1.959029** | **.4800866** | **.0738567** | **2.710051** | **.2944111** | **.2060566** |
| Stddev | .0018721 | .007295 | .0011867 | .0002524 | .028079 | .0033072 | .0006019 |
| %RSD | .9509188 | .3724000 | .2471860 | .3418135 | 1.036097 | 1.123310 | .2920999 |
| #1 | .1986452 | 1.951609 | .4789766 | .0739244 | 2.728314 | .2926990 | .2064864 |
| #2 | .1970584 | 1.959286 | .4799460 | .0735773 | 2.677719 | .2982232 | .2063146 |
| #3 | .1949148 | 1.966193 | .4813374 | .0740684 | 2.724121 | .2923109 | .2053687 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.290000** | **.2912877** | **.4024715** | **.6621054** | **.1896803** | **.8794658** | **5.385195** |
| Stddev | .063737 | .0021189 | .0003489 | .0007888 | .0012136 | .0184618 | .012892 |
| %RSD | .6860869 | .7274266 | .0866835 | .1191408 | .6397934 | 2.099208 | .2394046 |
| #1 | 9.318228 | .2910155 | .4020700 | .6616427 | .1910149 | .8684890 | 5.382895 |
| #2 | 9.217023 | .2935296 | .4026436 | .6616572 | .1893827 | .8691279 | 5.399083 |
| #3 | 9.334749 | .2893181 | .4027008 | .6630162 | .1886432 | .9007805 | 5.373608 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: PB169301BS Acquired: 8/20/2025 14:52:29 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0016548 | .1895921 | .1899373 |
| Stddev | .0021219 | .0011275 | .0013408 |
| %RSD | 128.2336 | .5946786 | .7058988 |
| #1 | -.000634 | .1890860 | .1914291 |
| #2 | .002042 | .1908840 | .1895498 |
| #3 | .003556 | .1888065 | .1888329 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6278.664 | 108318.0 | 11332.72 | 4830.578 | 7758.809 |
| Stddev | 19.563 | 67.0 | 52.82 | 12.674 | 19.136 |
| %RSD | .3115795 | .0618832 | .4660908 | .2623607 | .2466299 |
| #1 | 6292.885 | 108328.7 | 11337.06 | 4816.528 | 7769.078 |
| #2 | 6286.754 | 108378.9 | 11277.86 | 4841.148 | 7770.618 |
| #3 | 6256.354 | 108246.2 | 11383.23 | 4834.058 | 7736.731 |

Sample Name: Q2892-02LX5 Acquired: 8/20/2025 14:56:29 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0479101** | **-.002099** | **.2735407** | **-.000172** | **-.005051** | **46.48324** | **.2246085** |
| Stddev | .0007099 | .001504 | .0006603 | .003263 | .001455 | .02357 | .0020585 |
| %RSD | 1.481637 | 71.64357 | .2414074 | 1900.245 | 28.80723 | .0506990 | .9164705 |
| #1 | .0484457 | -.002089 | .2727803 | .003181 | -.006697 | 46.50259 | .2234609 |
| #2 | .0481796 | -.003608 | .2738715 | -.003336 | -.003938 | 46.49015 | .2269850 |
| #3 | .0471049 | -.000600 | .2739702 | -.000360 | -.004517 | 46.45700 | .2233797 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0043514** | **.0029067** | **8.762137** | **.0937841** | **.0364012** | **.2175413** | **77.79362** |
| Stddev | .0001071 | .0000220 | .022002 | .0001024 | .0001639 | .0003553 | .28013 |
| %RSD | 2.460812 | .7567434 | .2511017 | .1091972 | .4503169 | .1633298 | .3600896 |
| #1 | .0044666 | .0029226 | 8.759774 | .0936660 | .0363954 | .2175916 | 77.58140 |
| #2 | .0042549 | .0029159 | 8.785225 | .0938467 | .0362403 | .2171636 | 78.11114 |
| #3 | .0043327 | .0028816 | 8.741412 | .0938398 | .0365680 | .2178688 | 77.68833 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.017588** | **22.91832** | **.0639905** | **.0016993** | **1.445761** | **.1702877** | **.5639462** |
| Stddev | .009691 | .07553 | .0005386 | .0003372 | .034582 | .0022352 | .0002866 |
| %RSD | .4803464 | .3295745 | .8417159 | 19.84203 | 2.391940 | 1.312571 | .0508267 |
| #1 | 2.014133 | 23.00421 | .0634592 | .0013103 | 1.407361 | .1678399 | .5641475 |
| #2 | 2.028533 | 22.86224 | .0645361 | .0019078 | 1.474446 | .1722201 | .5640731 |
| #3 | 2.010097 | 22.88852 | .0639761 | .0018798 | 1.455477 | .1708032 | .5636181 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **7.513086** | **.0315946** | **.0039236** | **.0029807** | **2.194960** | **2.459324** | **1.630483** |
| Stddev | .011295 | .0009975 | .0000839 | .0006425 | .012986 | .016213 | .005250 |
| %RSD | .1503372 | 3.157256 | 2.137600 | 21.55434 | .5916373 | .6592410 | .3219789 |
| #1 | 7.500045 | .0311923 | .0039063 | .0036243 | 2.188577 | 2.442674 | 1.624476 |
| #2 | 7.519431 | .0327305 | .0040148 | .0023393 | 2.209902 | 2.460238 | 1.632781 |
| #3 | 7.519782 | .0308612 | .0038498 | .0029785 | 2.186400 | 2.475061 | 1.634192 |

Sample Name: Q2892-02LX5 Acquired: 8/20/2025 14:56:29 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 | | |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | | |
| Avg | .3785300 | .0791288 | -.018822 | | |
| Stddev | .0020709 | .0023328 | .000104 | | |
| %RSD | .5471010 | 2.948049 | .5537915 | | |
| #1 | .3772029 | .0767113 | -.018743 | | |
| #2 | .3774709 | .0813664 | -.018782 | | |
| #3 | .3809163 | .0793088 | -.018940 | | |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6500.665 | 112070.4 | 12119.69 | 5033.124 | 7338.356 |
| Stddev | 5.025 | 72.5 | 22.20 | 14.018 | 8.171 |
| %RSD | .0773000 | .0646822 | .1831882 | .2785131 | .1113420 |
| #1 | 6496.699 | 112007.8 | 12094.08 | 5016.965 | 7335.592 |
| #2 | 6506.316 | 112149.8 | 12133.47 | 5040.392 | 7347.550 |
| #3 | 6498.979 | 112053.6 | 12131.51 | 5042.016 | 7331.926 |

Sample Name: Q2818-04 Acquired: 8/20/2025 15:00:34 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0374491 | .0024814 | .0354177 | -.004809 | -.004759 | 49.63469 |
| Stddev | .0023460 | .0009634 | .0015182 | .000870 | .000437 | .04192 |
| %RSD | 6.264420 | 38.82661 | 4.286529 | 18.09084 | 9.183934 | .0844661 |
| #1 | .0388301 | .0015390 | .0356603 | -.005631 | -.004288 | 49.59154 |
| #2 | .0347404 | .0024406 | .0368001 | -.003898 | -.004840 | 49.67527 |
| #3 | .0387768 | .0034646 | .0337929 | -.004900 | -.005151 | 49.63726 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0599800 | .0126183 | .0084234 | 103.8756 | .0532410 | .0918263 |
| Stddev | .0006249 | .0000710 | .0000173 | .1339 | .0002110 | .0002651 |
| %RSD | 1.041849 | .5628421 | .2057390 | .1289378 | .3963007 | .2887073 |
| #1 | .0606887 | .0125798 | .0084432 | 103.8686 | .0532648 | .0916303 |
| #2 | .0597434 | .0127003 | .0084113 | 104.0129 | .0530191 | .0921279 |
| #3 | .0595080 | .0125748 | .0084156 | 103.7453 | .0534391 | .0917206 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1169761 | 47.09003 | 5.038371 | 20.19779 | .0527505 | .0007198 |
| Stddev | .0001268 | .13510 | .011751 | .03417 | .0001707 | .0004160 |
| %RSD | .1084240 | .2869016 | .2332394 | .1691874 | .3235463 | 57.79089 |
| #1 | .1170068 | 47.24556 | 5.046349 | 20.19482 | .0527482 | .0010890 |
| #2 | .1168367 | 47.00184 | 5.043887 | 20.23335 | .0525809 | .0002691 |
| #3 | .1170848 | 47.02268 | 5.024876 | 20.16520 | .0529222 | .0008012 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 12.74846 | .4482502 | 3.978617 | 23.88313 | .5507732 | -.000911 |
| Stddev | .06493 | .0018786 | .013899 | .15001 | .0013712 | .000099 |
| %RSD | .5092966 | .4191027 | .3493443 | .6280867 | .2489510 | 10.91826 |
| #1 | 12.81781 | .4462591 | 3.977289 | 24.05506 | .5501715 | -.000982 |
| #2 | 12.73843 | .4499914 | 3.965430 | 23.77895 | .5523424 | -.000797 |
| #3 | 12.68913 | .4484999 | 3.993133 | 23.81538 | .5498059 | -.000953 |

Sample Name: Q2818-04 Acquired: 8/20/2025 15:00:34 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.016795 | .0031398 | 8.318259 | F 36.32405 | F 401.6404 | -.025979 |
| Stddev | .000431 | .0004974 | .036005 | .15810 | 2.1034 | .000285 |
| %RSD | 2.565097 | 15.84129 | .4328436 | .4352535 | .5237025 | 1.096912 |
| #1 | -.016435 | .0025702 | 8.345978 | 36.44555 | 401.9242 | -.026308 |
| #2 | -.017272 | .0034884 | 8.277565 | 36.14530 | 399.4096 | -.025833 |
| #3 | -.016677 | .0033607 | 8.331235 | 36.38130 | 403.5875 | -.025798 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .6234871 |
| Stddev | .0026206 |
| %RSD | .4203083 |
| #1 | .6258613 |
| #2 | .6239249 |
| #3 | .6206753 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 8408.621 | 144268.8 | 16160.61 | 6395.816 | 7097.325 |
| Stddev | 5.556 | 292.5 | 27.37 | 40.784 | 9.656 |
| %RSD | .0660711 | .2027285 | .1693758 | .6376623 | .1360543 |
| #1 | 8410.018 | 144186.1 | 16191.25 | 6415.043 | 7107.187 |
| #2 | 8402.501 | 144593.7 | 16138.58 | 6423.431 | 7087.888 |
| #3 | 8413.346 | 144026.5 | 16151.99 | 6348.972 | 7096.901 |

Sample Name: Q2818-05 Acquired: 8/20/2025 15:04:36 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0618296 | -.040852 | .0237567 | -.000692 | -.020938 | 40.21758 |
| Stddev | .0025021 | .003141 | .0017041 | .003170 | .000382 | .03206 |
| %RSD | 4.046676 | 7.689195 | 7.173020 | 457.8564 | 1.826130 | .0797280 |
| #1 | .0646554 | -.039388 | .0256563 | .002824 | -.020573 | 40.25452 |
| #2 | .0609377 | -.038710 | .0232510 | -.003331 | -.020907 | 40.20128 |
| #3 | .0598958 | -.044458 | .0223626 | -.001570 | -.021336 | 40.19694 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0530809 | .0144082 | .0198173 | 89.53644 | .3489483 | .1223010 |
| Stddev | .0005416 | .0000327 | .0001365 | .04732 | .0006833 | .0001751 |
| %RSD | 1.020382 | .2271999 | .6888698 | .0528520 | .1958052 | .1431786 |
| #1 | .0533728 | .0143928 | .0198804 | 89.54276 | .3489395 | .1224905 |
| #2 | .0524559 | .0144458 | .0196606 | 89.58029 | .3482694 | .1221451 |
| #3 | .0534139 | .0143860 | .0199108 | 89.48628 | .3496359 | .1222676 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .3864758 | 313.8214 | 5.092060 | 16.28130 | .5480729 | .0069192 |
| Stddev | .0007853 | .2666 | .012575 | .02431 | .0003389 | .0003604 |
| %RSD | .2032017 | .0849635 | .2469500 | .1493241 | .0618307 | 5.209319 |
| #1 | .3873517 | 313.5138 | 5.078587 | 16.26497 | .5478858 | .0065058 |
| #2 | .3858347 | 313.9632 | 5.103485 | 16.26970 | .5484640 | .0070839 |
| #3 | .3862409 | 313.9872 | 5.094110 | 16.30924 | .5478688 | .0071679 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 9.288948 | .3913326 | 3.321910 | 19.80967 | .4943762 | .0008525 |
| Stddev | .025718 | .0027687 | .008520 | .05292 | .0034067 | .0000599 |
| %RSD | .2768613 | .7075013 | .2564706 | .2671584 | .6890934 | 7.027032 |
| #1 | 9.286787 | .3940251 | 3.320250 | 19.75478 | .4975986 | .0009157 |
| #2 | 9.315678 | .3914792 | 3.331138 | 19.86038 | .4908111 | .0007964 |
| #3 | 9.264380 | .3884936 | 3.314343 | 19.81385 | .4947190 | .0008456 |

Sample Name: Q2818-05 Acquired: 8/20/2025 15:04:36 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.014927 | -.002497 | 8.633685 | F 21.41018 | F 372.7321 | .0033166 |
| Stddev | .000806 | .000312 | .018826 | .20394 | 2.9891 | .0013157 |
| %RSD | 5.397512 | 12.50741 | .2180515 | .9525405 | .8019468 | 39.67094 |
| #1 | -.015856 | -.002202 | 8.626899 | 21.63163 | 375.0189 | .0040414 |
| #2 | -.014491 | -.002824 | 8.619192 | 21.36880 | 373.8276 | .0041105 |
| #3 | -.014432 | -.002465 | 8.654963 | 21.23009 | 369.3498 | .0017978 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2712377 |
| Stddev | .0009336 |
| %RSD | .3442177 |
| #1 | .2704546 |
| #2 | .2722709 |
| #3 | .2709875 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 7785.835 | 136976.1 | 15437.59 | 5988.558 | 6939.559 |
| Stddev | 4.550 | 71.4 | 11.59 | 5.159 | 9.303 |
| %RSD | .0584355 | .0521081 | .0750955 | .0861433 | .1340560 |
| #1 | 7790.834 | 137016.2 | 15439.77 | 5985.796 | 6929.744 |
| #2 | 7784.732 | 137018.4 | 15425.06 | 5985.368 | 6940.685 |
| #3 | 7781.938 | 136893.7 | 15447.94 | 5994.510 | 6948.248 |

Sample Name: Q2818-05DUP Acquired: 8/20/2025 15:08:39 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0662286** | **-.043817** | **.0211924** | **-.000678** | **-.020922** | **41.01495** |
| Stddev | .0008329 | .002390 | .0020857 | .003098 | .001166 | .09471 |
| %RSD | 1.257572 | 5.453834 | 9.841643 | 456.6317 | 5.573481 | .2309195 |
| #1 | .0671903 | -.041147 | .0223946 | -.003590 | -.022187 | 41.11568 |
| #2 | .0657444 | -.045756 | .0187841 | .002577 | -.019890 | 40.92770 |
| #3 | .0657511 | -.044548 | .0223986 | -.001023 | -.020690 | 41.00148 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0541724** | **.0145885** | **.0180552** | **91.29210** | **.3641794** | **.1259697** |
| Stddev | .0005631 | .0000202 | .0001277 | .13240 | .0011040 | .0002882 |
| %RSD | 1.039529 | .1382530 | .7070093 | .1450308 | .3031585 | .2288244 |
| #1 | .0546862 | .0146117 | .0179748 | 91.42387 | .3652973 | .1261982 |
| #2 | .0542606 | .0145791 | .0179884 | 91.15908 | .3630898 | .1260651 |
| #3 | .0535704 | .0145747 | .0182023 | 91.29335 | .3641510 | .1256459 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3828499** | **338.3039** | **5.215679** | **16.64974** | **.5652697** | **.0113173** |
| Stddev | .0001639 | 1.2835 | .016288 | .01313 | .0016860 | .0006610 |
| %RSD | .0428171 | .3793804 | .3122818 | .0788554 | .2982629 | 5.840774 |
| #1 | .3829685 | 337.4819 | 5.221953 | 16.66197 | .5644453 | .0108747 |
| #2 | .3829184 | 337.6470 | 5.197187 | 16.63586 | .5641546 | .0110001 |
| #3 | .3826629 | 339.7829 | 5.227896 | 16.65139 | .5672093 | .0120771 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.08873** | **.3981231** | **3.484399** | **21.37595** | **.6179963** | **.0010211** |
| Stddev | .05667 | .0014055 | .007300 | .07078 | .0073246 | .0002785 |
| %RSD | .5617596 | .3530293 | .2094956 | .3311290 | 1.185210 | 27.27528 |
| #1 | 10.04509 | .3995322 | 3.476660 | 21.31578 | .6106870 | .0010620 |
| #2 | 10.06831 | .3967212 | 3.485375 | 21.35814 | .6179657 | .0012769 |
| #3 | 10.15278 | .3981160 | 3.491161 | 21.45394 | .6253360 | .0007244 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: Q2818-05DUP Acquired: 8/20/2025 15:08:39 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.014151 | -.002251 | 9.343312 | F 22.05654 | F 382.2240 | .0040880 |
| Stddev | .000193 | .000904 | .027577 | .12550 | 2.6196 | .0013131 |
| %RSD | 1.366016 | 40.15356 | .2951520 | .5689815 | .6853578 | 32.12052 |
| #1 | -.014083 | -.002109 | 9.311632 | 21.93639 | 379.4445 | .0030592 |
| #2 | -.014000 | -.003217 | 9.361938 | 22.04644 | 382.5804 | .0055669 |
| #3 | -.014369 | -.001426 | 9.356366 | 22.18678 | 384.6472 | .0036378 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2588158 |
| Stddev | .0010341 |
| %RSD | .3995406 |
| #1 | .2589704 |
| #2 | .2577131 |
| #3 | .2597638 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 7889.838 | 129998.9 | 15519.90 | 5843.422 | 6960.644 |
| Stddev | 5.491 | 180.0 | 39.84 | 22.997 | 5.788 |
| %RSD | .0695944 | .1384475 | .2566937 | .3935467 | .0831503 |
| #1 | 7894.413 | 130188.5 | 15474.20 | 5866.089 | 6964.296 |
| #2 | 7891.353 | 129977.9 | 15538.17 | 5844.067 | 6963.666 |
| #3 | 7883.749 | 129830.4 | 15547.32 | 5820.109 | 6953.971 |

Sample Name: Q2818-05A Acquired: 8/20/2025 15:24:51 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6863638** | **1.871445** | **.9497124** | **1.599349** | **.5881448** | **41.40286** |
| Stddev | .0025814 | .063999 | .0029276 | .008016 | .0023923 | .08952 |
| %RSD | .3760931 | 3.419748 | .3082619 | .5012204 | .4067555 | .2162122 |
| #1 | .6884797 | 1.813673 | .9515626 | 1.594475 | .5902588 | 41.42642 |
| #2 | .6834877 | 1.860424 | .9463371 | 1.594971 | .5886279 | 41.30392 |
| #3 | .6871238 | 1.940239 | .9512374 | 1.608601 | .5855479 | 41.47824 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2031786** | **.1602716** | **.2126609** | **89.70706** | **.6499333** | **.3179470** |
| Stddev | .0007649 | .0007444 | .0005703 | .25213 | .0014352 | .0007208 |
| %RSD | .3764759 | .4644583 | .2681511 | .2810597 | .2208244 | .2267010 |
| #1 | .2040610 | .1602095 | .2127099 | 89.88403 | .6505388 | .3186595 |
| #2 | .2027043 | .1595602 | .2120677 | 89.41837 | .6509665 | .3172182 |
| #3 | .2027704 | .1610451 | .2132050 | 89.81877 | .6482945 | .3179632 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6067831** | **314.1422** | **5.213352** | **17.71171** | **1.032700** | **.0661234** |
| Stddev | .0023005 | 1.3134 | .014283 | .05178 | .002761 | .0003071 |
| %RSD | .3791340 | .4181027 | .2739620 | .2923486 | .2673624 | .4644743 |
| #1 | .6064052 | 315.1531 | 5.228108 | 17.69573 | 1.034363 | .0664778 |
| #2 | .6046950 | 314.6159 | 5.199596 | 17.66980 | 1.029513 | .0659340 |
| #3 | .6092492 | 312.6576 | 5.212352 | 17.76960 | 1.034225 | .0659585 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **11.70917** | **.6178813** | **3.431938** | **27.67394** | **.6931137** | **.3112344** |
| Stddev | .08878 | .0000299 | .002855 | .22513 | .0034773 | .0003289 |
| %RSD | .7582194 | .0048441 | .0831873 | .8134940 | .5016890 | .1056748 |
| #1 | 11.76613 | .6179112 | 3.428944 | 27.81925 | .6914893 | .3109923 |
| #2 | 11.75451 | .6178813 | 3.434630 | 27.78795 | .6971059 | .3111020 |
| #3 | 11.60688 | .6178513 | 3.432241 | 27.41462 | .6907460 | .3116088 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: Q2818-05A Acquired: 8/20/2025 15:24:51 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6457911 | .1391467 | 9.346867 | F 26.49448 | F 371.4874 | .1599798 |
| Stddev | .0003232 | .0011171 | .013998 | .12668 | 2.5867 | .0009338 |
| %RSD | .0500433 | .8028427 | .1497621 | .4781278 | .6963115 | .5837034 |
| #1 | .6456357 | .1400948 | 9.357166 | 26.37518 | 368.9210 | .1609311 |
| #2 | .6461626 | .1394301 | 9.352505 | 26.48083 | 371.4473 | .1590645 |
| #3 | .6455750 | .1379151 | 9.330929 | 26.62743 | 374.0939 | .1599437 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .4190822 |
| Stddev | .0020308 |
| %RSD | .4845751 |
| #1 | .4214265 |
| #2 | .4179596 |
| #3 | .4178606 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 7720.995 | 134923.5 | 15197.19 | 5924.117 | 6879.307 |
| Stddev | 4.629 | 251.6 | 112.37 | 14.590 | 5.089 |
| %RSD | .0599493 | .1864813 | .7393938 | .2462883 | .0739758 |
| #1 | 7717.762 | 135008.6 | 15228.88 | 5939.887 | 6875.461 |
| #2 | 7718.926 | 135121.5 | 15290.30 | 5911.098 | 6877.383 |
| #3 | 7726.297 | 134640.3 | 15072.38 | 5921.366 | 6885.078 |

Sample Name: Q2818-05LX5 Acquired: 8/20/2025 15:32:55 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0135485** | **-.009150** | **.0026915** | **-.002226** | **-.004604** | **9.393418** |
| Stddev | .0007143 | .000563 | .0005206 | .001842 | .001640 | .012634 |
| %RSD | 5.272274 | 6.153851 | 19.34346 | 82.73713 | 35.61836 | .1345031 |
| #1 | .0142446 | -.009245 | .0023762 | -.000130 | -.005933 | 9.393183 |
| #2 | .0128173 | -.009660 | .0024058 | -.002962 | -.005107 | 9.406167 |
| #3 | .0135835 | -.008546 | .0032924 | -.003585 | -.002771 | 9.380902 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0088529** | **.0035086** | **.0023784** | **21.37225** | **.0826845** | **.0227449** |
| Stddev | .0006732 | .0000406 | .0000562 | .08721 | .0000937 | .0000702 |
| %RSD | 7.604819 | 1.156571 | 2.363196 | .4080307 | .1132875 | .3086072 |
| #1 | .0094691 | .0034623 | .0023648 | 21.32960 | .0827909 | .0227338 |
| #2 | .0089552 | .0035380 | .0023304 | 21.47258 | .0826145 | .0228200 |
| #3 | .0081343 | .0035255 | .0024402 | 21.31459 | .0826481 | .0226809 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0943574** | **72.26772** | **1.228556** | **3.921377** | **.1035735** | **.0009685** |
| Stddev | .0003092 | .14668 | .006659 | .019227 | .0006122 | .0003771 |
| %RSD | .3277326 | .2029666 | .5420591 | .4903131 | .5910286 | 38.93487 |
| #1 | .0940376 | 72.17125 | 1.221941 | 3.903218 | .1030951 | .0007700 |
| #2 | .0943796 | 72.43652 | 1.235259 | 3.941519 | .1033620 | .0014033 |
| #3 | .0946549 | 72.19540 | 1.228468 | 3.919394 | .1042633 | .0007321 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.011276** | **.0950435** | **.7863928** | **4.331546** | **.1104885** | **.0001098** |
| Stddev | .018200 | .0008414 | .0027023 | .034781 | .0004366 | .0002338 |
| %RSD | .9048923 | .8853051 | .3436359 | .8029635 | .3951150 | 212.8182 |
| #1 | 1.990327 | .0958296 | .7837157 | 4.291407 | .1102455 | .0002032 |
| #2 | 2.020294 | .0951451 | .7891196 | 4.352789 | .1102275 | .0002825 |
| #3 | 2.023205 | .0941560 | .7863431 | 4.350441 | .1109925 | -.000156 |

Sample Name: Q2818-05LX5 Acquired: 8/20/2025 15:32:55 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.006194 | -.000765 | 1.904185 | 4.127167 | F 74.81011 | -.005126 |
| Stddev | .000527 | .000748 | .008275 | .012455 | .29734 | .000407 |
| %RSD | 8.510592 | 97.77066 | .4345568 | .3017691 | .3974635 | 7.947507 |
| #1 | -.005615 | -.000230 | 1.896282 | 4.124697 | 74.57163 | -.004717 |
| #2 | -.006319 | -.001620 | 1.912787 | 4.116132 | 74.71543 | -.005532 |
| #3 | -.006647 | -.000445 | 1.903485 | 4.140671 | 75.14326 | -.005129 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0641938 |
| Stddev | .0003594 |
| %RSD | .5598663 |
| #1 | .0638420 |
| #2 | .0645604 |
| #3 | .0641789 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6614.529 | 114346.3 | 12210.35 | 5093.877 | 7600.690 |
| Stddev | 11.254 | 237.7 | 53.44 | 26.403 | 18.425 |
| %RSD | .1701375 | .2079038 | .4376973 | .5183266 | .2424126 |
| #1 | 6615.973 | 114316.3 | 12232.15 | 5115.902 | 7599.221 |
| #2 | 6624.992 | 114125.0 | 12149.45 | 5064.608 | 7619.805 |
| #3 | 6602.624 | 114597.6 | 12249.45 | 5101.122 | 7583.043 |

Sample Name: Q2818-05MS Acquired: 8/20/2025 15:37:08 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6726270** | **1.845047** | **.9337112** | **1.570809** | **.5779820** | **40.75386** |
| Stddev | .0024548 | .011935 | .0042532 | .001767 | .0006438 | .03216 |
| %RSD | .3649623 | .6468763 | .4555140 | .1125001 | .1113886 | .0789076 |
| #1 | .6700929 | 1.858693 | .9311813 | 1.572413 | .5777453 | 40.76362 |
| #2 | .6727941 | 1.836551 | .9386216 | 1.568915 | .5774901 | 40.71796 |
| #3 | .6749941 | 1.839898 | .9313307 | 1.571098 | .5787107 | 40.78001 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1997316** | **.1589324** | **.2086217** | **88.54608** | **.6409163** | **.3121346** |
| Stddev | .0009338 | .0005866 | .0004314 | .19094 | .0009293 | .0007512 |
| %RSD | .4675193 | .3690539 | .2068072 | .2156417 | .1449994 | .2406815 |
| #1 | .2008023 | .1590056 | .2082223 | 88.68661 | .6419607 | .3117709 |
| #2 | .1993063 | .1583127 | .2090793 | 88.32868 | .6401805 | .3129985 |
| #3 | .1990862 | .1594789 | .2085636 | 88.62294 | .6406078 | .3116345 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5975749** | **309.6065** | **5.167896** | **17.45689** | **1.013517** | **.0647819** |
| Stddev | .0020769 | .8252 | .022284 | .03346 | .000728 | .0003562 |
| %RSD | .3475610 | .2665410 | .4311913 | .1916751 | .0718393 | .5498946 |
| #1 | .5952824 | 310.5416 | 5.189143 | 17.46184 | 1.013081 | .0651740 |
| #2 | .5981114 | 308.9800 | 5.144704 | 17.42123 | 1.014358 | .0644781 |
| #3 | .5993310 | 309.2980 | 5.169840 | 17.48760 | 1.013113 | .0646936 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **11.54634** | **.6048524** | **3.388758** | **27.34417** | **.6817065** | **.3068142** |
| Stddev | .07575 | .0023288 | .004846 | .15309 | .0049026 | .0008455 |
| %RSD | .6560436 | .3850181 | .1429980 | .5598590 | .7191724 | .2755620 |
| #1 | 11.63301 | .6064328 | 3.383675 | 27.52071 | .6845748 | .3064445 |
| #2 | 11.49281 | .6021781 | 3.393326 | 27.26364 | .6760456 | .3062166 |
| #3 | 11.51319 | .6059465 | 3.389273 | 27.24816 | .6844992 | .3077816 |

Sample Name: Q2818-05MS Acquired: 8/20/2025 15:37:08 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6342748 | .1381742 | 9.121811 | F 25.98300 | F 365.2993 | .1576257 |
| Stddev | .0019948 | .0004007 | .023678 | .05367 | .1826 | .0004896 |
| %RSD | .3145069 | .2899942 | .2595771 | .2065560 | .0499856 | .3105921 |
| #1 | .6323350 | .1385945 | 9.131672 | 25.97889 | 365.2186 | .1573855 |
| #2 | .6363205 | .1381316 | 9.138965 | 26.03860 | 365.5084 | .1573026 |
| #3 | .6341688 | .1377965 | 9.094796 | 25.93150 | 365.1710 | .1581889 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .4170627 |
| Stddev | .0029015 |
| %RSD | .6956975 |
| #1 | .4199347 |
| #2 | .4141325 |
| #3 | .4171208 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 7830.919 | 136868.9 | 15339.37 | 6024.676 | 7002.897 |
| Stddev | 13.972 | 393.9 | 50.77 | 8.636 | 6.182 |
| %RSD | .1784239 | .2877826 | .3309677 | .1433506 | .0882793 |
| #1 | 7837.167 | 136425.2 | 15292.39 | 6014.880 | 7009.982 |
| #2 | 7840.676 | 137004.0 | 15393.23 | 6031.190 | 6998.601 |
| #3 | 7814.912 | 137177.4 | 15332.49 | 6027.958 | 7000.107 |

Sample Name: Q2818-05MSD Acquired: 8/20/2025 15:41:10 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6673061** | **1.739634** | **.9389860** | **1.547024** | **.5757149** | **43.46283** |
| Stddev | .0040457 | .101634 | .0018501 | .009273 | .0019681 | .01427 |
| %RSD | .6062689 | 5.842253 | .1970351 | .5994140 | .3418573 | .0328306 |
| #1 | .6719011 | 1.815890 | .9406761 | 1.557625 | .5734499 | 43.46360 |
| #2 | .6657381 | 1.778761 | .9392725 | 1.543030 | .5770076 | 43.47670 |
| #3 | .6642792 | 1.624252 | .9370093 | 1.540417 | .5766873 | 43.44819 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2015113** | **.1566737** | **.2120683** | **94.22648** | **.6598351** | **.3242728** |
| Stddev | .0006691 | .0004818 | .0000830 | .15317 | .0011123 | .0003850 |
| %RSD | .3320497 | .3075384 | .0391360 | .1625524 | .1685657 | .1187171 |
| #1 | .2022786 | .1568822 | .2121578 | 94.39388 | .6589470 | .3245857 |
| #2 | .2012063 | .1561228 | .2120530 | 94.09335 | .6610826 | .3238430 |
| #3 | .2010491 | .1570163 | .2119939 | 94.19222 | .6594757 | .3243898 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6183534** | **330.5122** | **5.471058** | **18.46637** | **1.064386** | **.0645027** |
| Stddev | .0009495 | .4872 | .015594 | .06738 | .001832 | .0005531 |
| %RSD | .1535573 | .1474156 | .2850360 | .3648743 | .1721474 | .8574740 |
| #1 | .6194314 | 330.8995 | 5.487829 | 18.42076 | 1.063017 | .0650522 |
| #2 | .6176411 | 330.6719 | 5.456995 | 18.43459 | 1.063673 | .0639461 |
| #3 | .6179879 | 329.9651 | 5.468349 | 18.54376 | 1.066468 | .0645100 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **12.24330** | **.6265696** | **3.610456** | **28.67076** | **.7143507** | **.3056113** |
| Stddev | .04637 | .0016496 | .005768 | .17532 | .0036939 | .0008125 |
| %RSD | .3787450 | .2632713 | .1597496 | .6114919 | .5171001 | .2658474 |
| #1 | 12.28973 | .6284736 | 3.603803 | 28.79604 | .7112012 | .3064079 |
| #2 | 12.24319 | .6256621 | 3.613540 | 28.74584 | .7184165 | .3056420 |
| #3 | 12.19699 | .6255730 | 3.614027 | 28.47040 | .7134343 | .3047839 |

Sample Name: Q2818-05MSD Acquired: 8/20/2025 15:41:10 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6473065 | .1369292 | 9.860299 | F 27.67274 | F 388.3373 | .1556508 |
| Stddev | .0033595 | .0007815 | .039766 | .11456 | 4.7329 | .0013275 |
| %RSD | .5189998 | .5706928 | .4032971 | .4139677 | 1.218772 | .8528392 |
| #1 | .6511844 | .1377880 | 9.845671 | 27.79480 | 393.1753 | .1565397 |
| #2 | .6454559 | .1362600 | 9.905308 | 27.65587 | 388.1197 | .1562877 |
| #3 | .6452792 | .1367396 | 9.829919 | 27.56755 | 383.7170 | .1541249 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .4290572 |
| Stddev | .0035688 |
| %RSD | .8317668 |
| #1 | .4331416 |
| #2 | .4274886 |
| #3 | .4265414 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 7799.453 | 136397.1 | 15422.75 | 5947.031 | 6818.817 |
| Stddev | 2.293 | 339.9 | 45.36 | 24.775 | 2.433 |
| %RSD | .0294032 | .2491956 | .2940905 | .4165975 | .0356833 |
| #1 | 7797.315 | 136764.1 | 15454.11 | 5975.613 | 6821.465 |
| #2 | 7799.170 | 136093.1 | 15443.41 | 5933.795 | 6818.306 |
| #3 | 7801.875 | 136334.1 | 15370.74 | 5931.685 | 6816.680 |

Sample Name: CCV03 Acquired: 8/20/2025 15:45:09 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.007315** | **4.778010** | **4.898519** | **5.053180** | **5.033378** | **9.769302** | **9.556323** |
| Stddev | .010077 | .026492 | .007823 | .017798 | .010632 | .025840 | .135770 |
| %RSD | .2012431 | .5544476 | .1597050 | .3522129 | .2112397 | .2644984 | 1.420739 |
| #1 | 4.996677 | 4.755865 | 4.897502 | 5.037057 | 5.023168 | 9.799130 | 9.598682 |
| #2 | 5.016716 | 4.807358 | 4.891253 | 5.072278 | 5.044388 | 9.755047 | 9.665864 |
| #3 | 5.008553 | 4.770806 | 4.906800 | 5.050206 | 5.032577 | 9.753731 | 9.404423 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2505592** | **2.467868** | **24.09964** | **1.019062** | **2.461485** | **1.250662** | **4.950934** |
| Stddev | .0007802 | .002283 | .00553 | .001425 | .003081 | .000308 | .014454 |
| %RSD | .3113993 | .0925031 | .0229490 | .1397956 | .1251831 | .0245960 | .2919468 |
| #1 | .2511229 | 2.467792 | 24.09612 | 1.017714 | 2.462015 | 1.250307 | 4.943711 |
| #2 | .2496687 | 2.465623 | 24.10601 | 1.018920 | 2.458174 | 1.250855 | 4.967576 |
| #3 | .2508860 | 2.470187 | 24.09678 | 1.020552 | 2.464268 | 1.250824 | 4.941515 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.387289** | **24.11324** | **2.468693** | **1.259497** | **22.89269** | **2.441554** | **2.527550** |
| Stddev | .007264 | .05789 | .003597 | .004041 | .12277 | .003667 | .009641 |
| %RSD | .3042618 | .2400629 | .1457156 | .3208770 | .5362830 | .1501724 | .3814482 |
| #1 | 2.378902 | 24.17819 | 2.467179 | 1.255572 | 22.79233 | 2.437381 | 2.516418 |
| #2 | 2.391402 | 24.09447 | 2.466101 | 1.259274 | 23.02958 | 2.443022 | 2.532959 |
| #3 | 2.391562 | 24.06707 | 2.472800 | 1.263646 | 22.85615 | 2.444259 | 2.533272 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **24.47144** | **4.941882** | **5.051217** | **4.929315** | **4.821648** | **5.100357** | **4.920614** |
| Stddev | .15441 | .009886 | .004678 | .001229 | .005878 | .008548 | .006496 |
| %RSD | .6309987 | .2000518 | .0926033 | .0249233 | .1219162 | .1676025 | .1320201 |
| #1 | 24.30968 | 4.947399 | 5.048621 | 4.928000 | 4.824635 | 5.094847 | 4.916989 |
| #2 | 24.61728 | 4.930469 | 5.056616 | 4.929512 | 4.825432 | 5.110205 | 4.916740 |
| #3 | 24.48736 | 4.947779 | 5.048413 | 4.930434 | 4.814875 | 5.096021 | 4.928114 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: CCV03 Acquired: 8/20/2025 15:45:09 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **5.040846** | **4.592629** | **4.856853** |
| Stddev | .016904 | .010175 | .063749 |
| %RSD | .3353316 | .2215449 | 1.312559 |
| #1 | 5.052083 | 4.591751 | 4.816865 |
| #2 | 5.049050 | 4.603214 | 4.823325 |
| #3 | 5.021407 | 4.582922 | 4.930370 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **6028.447** | **102176.7** | **11052.98** | **4591.252** | **7044.908** |
| Stddev | 6.235 | 109.0 | 34.10 | 24.983 | 17.590 |
| %RSD | .1034311 | .1066596 | .3085487 | .5441442 | .2496774 |
| #1 | 6031.783 | 102286.9 | 11034.00 | 4608.224 | 7046.695 |
| #2 | 6032.303 | 102069.0 | 11092.35 | 4602.967 | 7061.535 |
| #3 | 6021.253 | 102174.1 | 11032.59 | 4562.564 | 7026.493 |

Sample Name: CCB03 Acquired: 8/20/2025 15:49:22 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0015874** | **-.000061** | **.0000524** | **-.001239** | **-.000664** | **.0022425** |
| Stddev | .0004672 | .001417 | .0010224 | .000892 | .001747 | .0026051 |
| %RSD | 29.43364 | 2311.634 | 1951.715 | 71.99534 | 263.0574 | 116.1669 |
| #1 | .0015993 | -.001678 | .0009828 | -.002244 | -.000459 | .0051700 |
| #2 | .0011143 | .000963 | .0002166 | -.000931 | -.002504 | .0001796 |
| #3 | .0020485 | .000532 | -.001042 | -.000541 | .000971 | .0013781 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.003035** | **-.000055** | **.0000109** | **.0010063** | **-.000450** | **-.000036** |
| Stddev | .000756 | .000034 | .0000346 | .0037528 | .000329 | .000125 |
| %RSD | 24.90666 | 62.02063 | 317.5191 | 372.9301 | 73.13871 | 344.2550 |
| #1 | -.003447 | -.000026 | .0000266 | -.003180 | -.000622 | .000094 |
| #2 | -.003495 | -.000093 | -.000029 | .002131 | -.000658 | -.000048 |
| #3 | -.002163 | -.000047 | .000035 | .004068 | -.000071 | -.000155 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000319** | **.0002328** | **.0009010** | **-.028058** | **-.000193** | **.0004199** |
| Stddev | .000192 | .0052018 | .0002303 | .010000 | .000184 | .0004708 |
| %RSD | 60.28900 | 2234.065 | 25.56345 | 35.63969 | 95.22368 | 112.1235 |
| #1 | -.000540 | -.002343 | .0006540 | -.018539 | -.000253 | .0004599 |
| #2 | -.000201 | .006220 | .0009390 | -.038478 | .000013 | .0008694 |
| #3 | -.000214 | -.003178 | .0011099 | -.027157 | -.000339 | -.000070 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0276476** | **.0026750** | **-.000641** | **.1422258** | **.0044476** | **.0002299** |
| Stddev | .0345698 | .0031535 | .000077 | .0590281 | .0004811 | .0001696 |
| %RSD | 125.0370 | 117.8879 | 11.99404 | 41.50307 | 10.81746 | 73.78596 |
| #1 | -.009529 | -.000615 | -.000594 | .0794544 | .0047592 | .0000345 |
| #2 | .058826 | .005672 | -.000599 | .1506088 | .0038935 | .0003389 |
| #3 | .033646 | .002968 | -.000730 | .1966142 | .0046901 | .0003162 |

Sample Name: CCB03 Acquired: 8/20/2025 15:49:22 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.002017 | .0002648 | .1044758 | .0004228 | F .0901592 | -.007389 |
| Stddev | .000487 | .0008356 | .1388919 | .0001374 | .0049594 | .000417 |
| %RSD | 24.15179 | 315.5334 | 132.9416 | 32.50715 | 5.500670 | 5.637733 |
| #1 | -.002158 | -.000698 | .0273287 | .0003924 | .0947773 | -.006909 |
| #2 | -.002418 | .000799 | .2648164 | .0005729 | .0907827 | -.007622 |
| #3 | -.001475 | .000694 | .0212825 | .0003031 | .0849176 | -.007638 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0001177 |
| Stddev | .0001203 |
| %RSD | 102.1705 |
| #1 | .0000830 |
| #2 | .0000186 |
| #3 | .0002515 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6342.990 | 109512.0 | 11217.58 | 4861.381 | 8083.949 |
| Stddev | 15.347 | 264.6 | 23.17 | 6.047 | 19.245 |
| %RSD | .2419473 | .2416445 | .2065673 | .1243956 | .2380648 |
| #1 | 6349.728 | 109706.5 | 11200.56 | 4863.301 | 8085.695 |
| #2 | 6325.427 | 109210.7 | 11243.97 | 4854.607 | 8063.891 |
| #3 | 6353.815 | 109618.9 | 11208.21 | 4866.235 | 8102.262 |

Sample Name: PB169303BL Acquired: 8/20/2025 15:53:41 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0005820** | **-.000799** | **-.000566** | **-.000593** | **-.000809** | **-.004698** |
| Stddev | .0013260 | .000269 | .000940 | .002766 | .000777 | .010529 |
| %RSD | 227.8522 | 33.68139 | 166.2372 | 466.1851 | 96.03710 | 224.1190 |
| #1 | .0013407 | -.000839 | -.001624 | .002465 | -.001693 | -.007248 |
| #2 | .0013544 | -.001045 | -.000246 | -.001325 | -.000228 | -.013719 |
| #3 | -.000949 | -.000512 | .000173 | -.002920 | -.000507 | .006872 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.003160** | **-.000052** | **-.000005** | **-.000035** | **-.000520** | **-.000091** |
| Stddev | .001215 | .000026 | .000030 | .008641 | .000253 | .000050 |
| %RSD | 38.44752 | 49.36426 | 651.7586 | 24637.61 | 48.58443 | 55.43980 |
| #1 | -.002694 | -.000078 | .000002 | .009813 | -.000693 | -.000125 |
| #2 | -.002248 | -.000049 | -.000037 | -.003570 | -.000637 | -.000114 |
| #3 | -.004539 | -.000028 | .000022 | -.006349 | -.000230 | -.000033 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000263** | **-.002318** | **.0002111** | **-.004866** | **-.000057** | **.0005426** |
| Stddev | .000176 | .002186 | .0005137 | .007237 | .000153 | .0002733 |
| %RSD | 67.17161 | 94.29892 | 243.3850 | 148.7168 | 268.2482 | 50.36511 |
| #1 | -.000453 | -.000721 | .0006305 | -.004473 | .000087 | .0008575 |
| #2 | -.000105 | -.004810 | .0003646 | .002166 | -.000218 | .0003666 |
| #3 | -.000230 | -.001424 | -.000362 | -.012291 | -.000040 | .0004038 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0071618** | **.0021764** | **-.000972** | **.0811552** | **.0015383** | **-.000012** |
| Stddev | .0195120 | .0007432 | .000227 | .0431357 | .0002746 | .000109 |
| %RSD | 272.4444 | 34.14765 | 23.32373 | 53.15210 | 17.85411 | 891.0586 |
| #1 | -.008616 | .0014673 | -.000777 | .0528566 | .0012634 | -.000130 |
| #2 | .001122 | .0029495 | -.000919 | .0598070 | .0015388 | .000009 |
| #3 | .028980 | .0021125 | -.001221 | .1308022 | .0018127 | .000084 |

Sample Name: PB169303BL Acquired: 8/20/2025 15:53:41 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.002120** | **-.000182** | **.0018828** | **.0004238** | F **.0603502** | **-.007666** |
| Stddev | .000135 | .000374 | .0055760 | .0009469 | .0032289 | .001580 |
| %RSD | 6.357853 | 205.3478 | 296.1562 | 223.4402 | 5.350267 | 20.61355 |
| #1 | -.002261 | .000082 | .0017761 | .0003583 | .0632991 | -.007583 |
| #2 | -.002108 | -.000610 | -.003639 | .0014017 | .0608516 | -.009285 |
| #3 | -.001992 | -.000018 | .007511 | -.000489 | .0569000 | -.006128 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | **-.000006** |
| Stddev | .000038 |
| %RSD | 642.7489 |
| #1 | -.000000 |
| #2 | .000029 |
| #3 | -.000046 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **6356.387** | **110216.7** | **11330.99** | **4897.193** | **8086.713** |
| Stddev | 8.422 | 348.5 | 15.85 | 23.053 | 7.543 |
| %RSD | .1324981 | .3161819 | .1398793 | .4707371 | .0932725 |
| #1 | 6362.107 | 110322.2 | 11318.46 | 4906.962 | 8082.081 |
| #2 | 6360.338 | 109827.7 | 11348.80 | 4870.864 | 8095.416 |
| #3 | 6346.715 | 110500.3 | 11325.70 | 4913.752 | 8082.641 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: PB169303BS Acquired: 8/20/2025 15:58:00 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7798616** | **1.974867** | **.9469622** | **1.982125** | **.7794342** | **2.004153** |
| Stddev | .0053502 | .099028 | .0017656 | .014804 | .0026546 | .002157 |
| %RSD | .6860489 | 5.014418 | .1864453 | .7468996 | .3405841 | .1076183 |
| #1 | .7753933 | 2.017820 | .9489527 | 1.978655 | .7763702 | 2.001900 |
| #2 | .7784011 | 1.861615 | .9463486 | 1.969364 | .7808898 | 2.006199 |
| #3 | .7857905 | 2.045167 | .9455853 | 1.998357 | .7810426 | 2.004358 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1912461** | **.2028442** | **.1895678** | **1.026760** | **.4100419** | **.1936529** |
| Stddev | .0010053 | .0002549 | .0001851 | .009401 | .0002601 | .0004632 |
| %RSD | .5256382 | .1256595 | .0976172 | .9156428 | .0634425 | .2392070 |
| #1 | .1900959 | .2027380 | .1896671 | 1.036095 | .4103421 | .1941162 |
| #2 | .1916861 | .2026596 | .1893543 | 1.026891 | .4098829 | .1931898 |
| #3 | .1919564 | .2031350 | .1896821 | 1.017294 | .4099007 | .1936526 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3093409** | **3.031308** | **.2005006** | **1.975678** | **.4880593** | **.0753505** |
| Stddev | .0006230 | .003746 | .0004824 | .008792 | .0002194 | .0005121 |
| %RSD | .2013991 | .1235680 | .2405766 | .4450207 | .0449610 | .6796316 |
| #1 | .3091382 | 3.035356 | .2003552 | 1.965605 | .4883048 | .0758048 |
| #2 | .3088446 | 3.030602 | .2001076 | 1.979612 | .4878822 | .0754512 |
| #3 | .3100401 | 3.027966 | .2010389 | 1.981815 | .4879909 | .0747955 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.823797** | **.2988580** | **.2108897** | **9.751599** | **.2959665** | **.3946253** |
| Stddev | .021281 | .0022179 | .0006185 | .050237 | .0003373 | .0016380 |
| %RSD | .7536132 | .7421119 | .2932907 | .5151682 | .1139797 | .4150690 |
| #1 | 2.808557 | .2984484 | .2113294 | 9.702931 | .2963273 | .3940772 |
| #2 | 2.814725 | .3012521 | .2111573 | 9.748595 | .2959130 | .3933316 |
| #3 | 2.848111 | .2968735 | .2101824 | 9.803271 | .2956590 | .3964670 |

Sample Name: PB169303BS Acquired: 8/20/2025 15:58:00 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6492152 | .1861974 | .8994007 | 5.460416 | F .0484551 | .1922401 |
| Stddev | .0029627 | .0010339 | .0087382 | .036771 | .0010335 | .0019145 |
| %RSD | .4563505 | .5552658 | .9715603 | .6734021 | 2.132861 | .9958756 |
| #1 | .6495628 | .1851898 | .8905121 | 5.439017 | .0479657 | .1900329 |
| #2 | .6460940 | .1861468 | .9079803 | 5.439357 | .0477572 | .1932377 |
| #3 | .6519887 | .1872557 | .8997095 | 5.502875 | .0496424 | .1934498 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1930608 |
| Stddev | .0004906 |
| %RSD | .2541253 |
| #1 | .1925280 |
| #2 | .1934939 |
| #3 | .1931606 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6287.492 | 106218.8 | 11293.34 | 4809.793 | 7752.446 |
| Stddev | 4.095 | 216.9 | 27.50 | 3.425 | 9.527 |
| %RSD | .0651303 | .2042409 | .2434805 | .0712124 | .1228864 |
| #1 | 6287.471 | 106330.7 | 11292.10 | 4808.314 | 7745.768 |
| #2 | 6283.407 | 106356.9 | 11321.43 | 4807.355 | 7748.215 |
| #3 | 6291.597 | 105968.7 | 11266.48 | 4813.709 | 7763.355 |

Sample Name: Q2881-01 Acquired: 8/20/2025 16:02:00 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.001433** | **-.001988** | **.0050607** | **.0014664** | **-.000549** | **.0478653** | **.0011208** |
| Stddev | .001213 | .001036 | .0012155 | .0021843 | .001164 | .0031199 | .0007738 |
| %RSD | 84.63479 | 52.10172 | 24.01855 | 148.9605 | 211.9729 | 6.518091 | 69.04092 |
| #1 | -.002831 | -.001683 | .0054060 | .0010964 | -.000070 | .0446973 | .0020076 |
| #2 | -.000657 | -.001139 | .0060662 | -.000509 | .000299 | .0509348 | .0007729 |
| #3 | -.000812 | -.003142 | .0037099 | .003812 | -.001876 | .0479638 | .0005820 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000114** | **.0000179** | **3.795015** | **-.000107** | **.0060428** | **.0142734** | **1.131198** |
| Stddev | .000054 | .0000518 | .004171 | .000067 | .0001944 | .0003103 | .003647 |
| %RSD | 47.11084 | 289.7730 | .1099030 | 62.63434 | 3.217745 | 2.174199 | .3223714 |
| #1 | -.000062 | .0000497 | 3.793764 | -.000169 | .0058183 | .0143836 | 1.127088 |
| #2 | -.000170 | -.000042 | 3.799668 | -.000117 | .0061572 | .0139230 | 1.132461 |
| #3 | -.000111 | .000046 | 3.791612 | -.000036 | .0061529 | .0145136 | 1.134045 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0157154** | **1.469035** | **.0072678** | **.0001355** | **12.08933** | **.0027760** | **.0295800** |
| Stddev | .0002710 | .026786 | .0000596 | .0001698 | .07262 | .0013825 | .0002687 |
| %RSD | 1.724446 | 1.823389 | .8203985 | 125.2978 | .6006847 | 49.80158 | .9085336 |
| #1 | .0160086 | 1.499854 | .0073364 | .0000140 | 12.03673 | .0011796 | .0298834 |
| #2 | .0156633 | 1.451357 | .0072286 | .0003295 | 12.05908 | .0035684 | .0294847 |
| #3 | .0154742 | 1.455893 | .0072383 | .0000630 | 12.17219 | .0035799 | .0293719 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5267241** | **.0083004** | **.0005060** | **-.016282** | **-.000545** | **5.324327** | **.0065369** |
| Stddev | .0260761 | .0005183 | .0001457 | .000484 | .000899 | .029524 | .0007317 |
| %RSD | 4.950623 | 6.243821 | 28.78929 | 2.972322 | 165.0278 | .5545109 | 11.19304 |
| #1 | .5231359 | .0077139 | .0004151 | -.016707 | -.000092 | 5.321795 | .0071526 |
| #2 | .5544086 | .0084903 | .0004289 | -.015755 | -.001581 | 5.296151 | .0067301 |
| #3 | .5026280 | .0086968 | .0006741 | -.016384 | .000037 | 5.355035 | .0057280 |

Sample Name: Q2881-01 Acquired: 8/20/2025 16:02:00 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **4.695664** | **-.013335** | **.0194870** |
| Stddev | .018475 | .000721 | .0001230 |
| %RSD | .3934534 | 5.407682 | .6311082 |
| #1 | 4.681231 | -.013363 | .0194128 |
| #2 | 4.689275 | -.012601 | .0196290 |
| #3 | 4.716486 | -.014042 | .0194193 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **6358.851** | **110617.5** | **11494.03** | **4859.150** | **7961.357** |
| Stddev | 10.944 | 449.6 | 55.35 | 10.890 | 9.099 |
| %RSD | .1720989 | .4064529 | .4815779 | .2241212 | .1142909 |
| #1 | 6346.216 | 110687.6 | 11448.93 | 4846.624 | 7954.162 |
| #2 | 6365.307 | 111027.9 | 11477.36 | 4864.444 | 7971.585 |
| #3 | 6365.031 | 110136.9 | 11555.80 | 4866.381 | 7958.324 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: Q2881-02 Acquired: 8/20/2025 16:06:17 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.002823** | **-.000943** | **.0016932** | **.0012803** | **.0010497** | **.0539177** | **-.000764** |
| Stddev | .000720 | .000702 | .0005488 | .0008144 | .0007496 | .0050546 | .000586 |
| %RSD | 25.50487 | 74.47204 | 32.41362 | 63.61062 | 71.40827 | 9.374695 | 76.65511 |
| #1 | -.002982 | -.000715 | .0018592 | .0003528 | .0007045 | .0545539 | -.000574 |
| #2 | -.003450 | -.001731 | .0010805 | .0016099 | .0005350 | .0586242 | -.001422 |
| #3 | -.002037 | -.000383 | .0021398 | .0018783 | .0019098 | .0485752 | -.000297 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000107** | **.0000530** | **4.088617** | **-.000148** | **.0065447** | **.0045239** | **.1070616** |
| Stddev | .000042 | .0000843 | .015247 | .000153 | .0000543 | .0002662 | .0025056 |
| %RSD | 39.49229 | 159.1160 | .3729214 | 103.6171 | .8303515 | 5.885021 | 2.340374 |
| #1 | -.000060 | .0001502 | 4.097027 | .000029 | .0065303 | .0042194 | .1076434 |
| #2 | -.000143 | .0000002 | 4.071017 | -.000228 | .0064990 | .0046393 | .1043163 |
| #3 | -.000118 | .0000085 | 4.097808 | -.000246 | .0066048 | .0047129 | .1092252 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0188846** | **1.607884** | **.0072994** | **.0001705** | **12.15598** | **.0022121** | **.0282346** |
| Stddev | .0004392 | .021055 | .0001525 | .0004759 | .01565 | .0026766 | .0002215 |
| %RSD | 2.325710 | 1.309478 | 2.089759 | 279.1181 | .1287808 | 120.9989 | .7846182 |
| #1 | .0190640 | 1.624250 | .0071436 | -.000008 | 12.16061 | .0006189 | .0283594 |
| #2 | .0183840 | 1.584131 | .0074484 | -.000191 | 12.16880 | .0053022 | .0283655 |
| #3 | .0192056 | 1.615271 | .0073063 | .000710 | 12.13853 | .0007151 | .0279788 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6315239** | **.0079561** | **.0004042** | **-.015770** | **.0007541** | **5.608318** | **.0083677** |
| Stddev | .0052933 | .0003093 | .0001087 | .000153 | .0010240 | .008702 | .0015004 |
| %RSD | .8381811 | 3.887578 | 26.90046 | .9689758 | 135.7835 | .1551586 | 17.93060 |
| #1 | .6262729 | .0076218 | .0003316 | -.015936 | -.000395 | 5.615877 | .0100999 |
| #2 | .6314403 | .0082321 | .0005293 | -.015636 | .001086 | 5.610271 | .0075301 |
| #3 | .6368585 | .0080143 | .0003518 | -.015737 | .001571 | 5.598805 | .0074731 |

Sample Name: Q2881-02 Acquired: 8/20/2025 16:06:17 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 5.121587 | -.015099 | .0220459 |
| Stddev | .032560 | .000790 | .0001085 |
| %RSD | .6357381 | 5.231298 | .4920469 |
| #1 | 5.095039 | -.015954 | .0221401 |
| #2 | 5.157917 | -.014397 | .0219273 |
| #3 | 5.111806 | -.014947 | .0220703 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6352.649 | 110934.0 | 11306.74 | 4866.629 | 7936.678 |
| Stddev | 4.191 | 100.7 | 34.02 | 11.301 | 2.743 |
| %RSD | .0659660 | .0907577 | .3008982 | .2322065 | .0345613 |
| #1 | 6349.265 | 111050.2 | 11294.00 | 4853.644 | 7938.859 |
| #2 | 6357.336 | 110872.7 | 11345.29 | 4874.241 | 7937.577 |
| #3 | 6351.344 | 110879.3 | 11280.93 | 4872.001 | 7933.599 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: Q2881-02DUP Acquired: 8/20/2025 16:10:34 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.001543** | **-.001578** | **.0021606** | **.0019649** | **.0012934** | **.0551826** | **.0002673** |
| Stddev | .000553 | .000829 | .0009206 | .0009593 | .0006149 | .0102380 | .0006829 |
| %RSD | 35.81337 | 52.52526 | 42.60599 | 48.82261 | 47.54194 | 18.55293 | 255.4772 |
| #1 | -.001137 | -.002299 | .0010977 | .0009271 | .0018686 | .0669744 | -.000335 |
| #2 | -.002173 | -.000672 | .0026984 | .0028191 | .0013663 | .0485579 | .001009 |
| #3 | -.001320 | -.001762 | .0026858 | .0021484 | .0006453 | .0500154 | .000128 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000150** | **.0000196** | **4.370477** | **.0019269** | **.0068983** | **.0048716** | **.1257415** |
| Stddev | .000057 | .0000653 | .005116 | .0000913 | .0001532 | .0001482 | .0040744 |
| %RSD | 38.44892 | 333.4741 | .1170509 | 4.740971 | 2.221399 | 3.041132 | 3.240296 |
| #1 | -.000178 | -.000018 | 4.371577 | .0020290 | .0067213 | .0048318 | .1210523 |
| #2 | -.000187 | -.000019 | 4.364901 | .0018530 | .0069891 | .0050356 | .1284169 |
| #3 | -.000083 | .000095 | 4.374954 | .0018986 | .0069843 | .0047475 | .1277552 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0270532** | **1.682501** | **.0080591** | **-.000074** | **13.52001** | **.0038388** | **.0294606** |
| Stddev | .0005082 | .012638 | .0002588 | .000159 | .03292 | .0016597 | .0002484 |
| %RSD | 1.878440 | .7511149 | 3.211664 | 216.1354 | .2434589 | 43.23539 | .8430958 |
| #1 | .0268363 | 1.677552 | .0081331 | -.000213 | 13.54999 | .0019804 | .0296228 |
| #2 | .0276339 | 1.696864 | .0077713 | -.000108 | 13.52526 | .0051735 | .0291746 |
| #3 | .0266895 | 1.673086 | .0082729 | .000100 | 13.48479 | .0043625 | .0295843 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7025677** | **.0075995** | **.0003818** | **-.014933** | **.0001462** | **6.054510** | **.0100178** |
| Stddev | .0044231 | .0008804 | .0002393 | .000069 | .0010588 | .015620 | .0002053 |
| %RSD | .6295553 | 11.58548 | 62.67160 | .4600935 | 724.3841 | .2579864 | 2.049035 |
| #1 | .6974771 | .0070535 | .0003747 | -.014855 | -.000819 | 6.039633 | .0101788 |
| #2 | .7054707 | .0071298 | .0006245 | -.014982 | -.000021 | 6.053117 | .0100878 |
| #3 | .7047554 | .0086152 | .0001461 | -.014963 | .001278 | 6.070779 | .0097866 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: Q2881-02DUP Acquired: 8/20/2025 16:10:34 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **5.385817** | **-.013578** | **.0234303** |
| Stddev | .016927 | .002137 | .0000236 |
| %RSD | .3142966 | 15.73585 | .1008071 |
| #1 | 5.366277 | -.011655 | .0234164 |
| #2 | 5.395153 | -.015878 | .0234576 |
| #3 | 5.396021 | -.013200 | .0234169 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **6275.253** | **108693.6** | **11358.40** | **4788.673** | **7841.135** |
| Stddev | 10.767 | 129.7 | 37.12 | 5.322 | 13.041 |
| %RSD | .1715767 | .1193006 | .3268370 | .1111372 | .1663183 |
| #1 | 6276.438 | 108784.8 | 11371.68 | 4783.219 | 7847.262 |
| #2 | 6285.379 | 108545.2 | 11316.46 | 4793.852 | 7849.983 |
| #3 | 6263.943 | 108750.9 | 11387.05 | 4788.949 | 7826.158 |

Sample Name: Q2881-02LX5 Acquired: 8/20/2025 16:14:49 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0003588** | **-.000824** | **.0002896** | **.0006237** | **-.002461** | **.0080431** | **-.002197** |
| Stddev | .0013000 | .001593 | .0013521 | .0011632 | .000983 | .0053918 | .000425 |
| %RSD | 362.3775 | 193.2966 | 466.8769 | 186.4973 | 39.95971 | 67.03610 | 19.32320 |
| #1 | .0001212 | .000983 | -.001168 | -.000591 | -.001996 | .0037075 | -.002654 |
| #2 | -.000806 | -.001429 | .000534 | .001728 | -.003591 | .0140804 | -.001815 |
| #3 | .001761 | -.002026 | .001503 | .000734 | -.001796 | .0063414 | -.002122 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000034** | **-.000014** | **.9088734** | **-.000292** | **.0013520** | **.0008614** | **.0253596** |
| Stddev | .000030 | .000025 | .0038764 | .000574 | .0000247 | .0002354 | .0026288 |
| %RSD | 89.42252 | 182.0867 | .4265004 | 196.6533 | 1.827672 | 27.32871 | 10.36603 |
| #1 | -.000052 | .000002 | .9109827 | .000358 | .0013257 | .0007172 | .0276231 |
| #2 | .000001 | -.000001 | .9112377 | -.000504 | .0013556 | .0007340 | .0224763 |
| #3 | -.000051 | -.000043 | .9043998 | -.000730 | .0013747 | .0011330 | .0259794 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0048388** | **.3493109** | **.0015208** | **.0003621** | **2.733006** | **.0019844** | **.0051514** |
| Stddev | .0003588 | .0275183 | .0002104 | .0001311 | .008256 | .0014662 | .0001225 |
| %RSD | 7.415815 | 7.877878 | 13.83543 | 36.20012 | .3020666 | 73.88310 | 2.377746 |
| #1 | .0052188 | .3198406 | .0012786 | .0004915 | 2.741942 | .0036701 | .0050142 |
| #2 | .0047918 | .3537561 | .0016585 | .0002294 | 2.731411 | .0012781 | .0051903 |
| #3 | .0045057 | .3743360 | .0016253 | .0003653 | 2.725664 | .0010052 | .0052497 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0504125** | **.0011808** | **.0001052** | **-.005237** | **.0002152** | **1.245364** | **.0021566** |
| Stddev | .0322807 | .0006472 | .0000925 | .000254 | .0011422 | .008436 | .0004046 |
| %RSD | 64.03302 | 54.80838 | 87.93960 | 4.845903 | 530.7985 | .6774324 | 18.75887 |
| #1 | .0151228 | .0009137 | .0000201 | -.005072 | -.000015 | 1.235730 | .0022959 |
| #2 | .0576642 | .0019188 | .0002036 | -.005109 | -.000794 | 1.248935 | .0017008 |
| #3 | .0784505 | .0007099 | .0000917 | -.005529 | .001455 | 1.251428 | .0024732 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: Q2881-02LX5 Acquired: 8/20/2025 16:14:49 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 1.157389 | -.009482 | .0048856 |
| Stddev | .017981 | .000605 | .0000518 |
| %RSD | 1.553623 | 6.382258 | 1.059569 |
| #1 | 1.173868 | -.010102 | .0049427 |
| #2 | 1.160088 | -.009450 | .0048417 |
| #3 | 1.138210 | -.008893 | .0048725 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6383.128 | 110168.2 | 11333.06 | 4865.322 | 8025.918 |
| Stddev | 4.125 | 203.3 | 27.32 | 13.346 | 7.907 |
| %RSD | .0646279 | .1845797 | .2410943 | .2743148 | .0985160 |
| #1 | 6382.656 | 109974.7 | 11325.72 | 4850.001 | 8034.968 |
| #2 | 6379.259 | 110149.8 | 11310.16 | 4871.542 | 8020.348 |
| #3 | 6387.469 | 110380.2 | 11363.30 | 4874.423 | 8022.439 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: Q2881-02MS Acquired: 8/20/2025 16:19:08 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7381503** | **1.821396** | **.8694930** | **1.822598** | **.7427555** | **1.938088** | **.1831413** |
| Stddev | .0024113 | .018842 | .0016154 | .006549 | .0019948 | .006166 | .0006972 |
| %RSD | .3266706 | 1.034461 | .1857826 | .3593220 | .2685736 | .3181293 | .3806798 |
| #1 | .7408611 | 1.842636 | .8706346 | 1.820178 | .7438749 | 1.937784 | .1838385 |
| #2 | .7362443 | 1.806694 | .8676447 | 1.817604 | .7404524 | 1.944400 | .1831414 |
| #3 | .7373456 | 1.814858 | .8701996 | 1.830013 | .7439393 | 1.932079 | .1824441 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1830952** | **.1758302** | **5.088816** | **.3913895** | **.1895926** | **.2909710** | **2.901044** |
| Stddev | .0007606 | .0000919 | .007178 | .0012957 | .0003332 | .0008872 | .011535 |
| %RSD | .4154141 | .0522772 | .1410511 | .3310489 | .1757424 | .3049152 | .3976298 |
| #1 | .1835672 | .1757900 | 5.090882 | .3928571 | .1892490 | .2911148 | 2.897610 |
| #2 | .1835007 | .1757653 | 5.094735 | .3904037 | .1896147 | .2917775 | 2.891614 |
| #3 | .1822178 | .1759354 | 5.080832 | .3909078 | .1899143 | .2900207 | 2.913906 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2144788** | **3.496864** | **.4621975** | **.0675169** | **15.67888** | **.2856271** | **.2237178** |
| Stddev | .0010070 | .022904 | .0004117 | .0010096 | .02853 | .0011684 | .0002990 |
| %RSD | .4694934 | .6549966 | .0890790 | 1.495341 | .1819455 | .4090676 | .1336373 |
| #1 | .2144481 | 3.519695 | .4626605 | .0682812 | 15.67973 | .2862626 | .2240479 |
| #2 | .2155007 | 3.497010 | .4618725 | .0678972 | 15.64994 | .2842787 | .2236401 |
| #3 | .2134875 | 3.473887 | .4620594 | .0663724 | 15.70698 | .2863401 | .2234653 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.662278** | **.2578335** | **.4038248** | **.6163397** | **.1820259** | **6.610523** | **4.990816** |
| Stddev | .019151 | .0002256 | .0006623 | .0006190 | .0012805 | .019146 | .013740 |
| %RSD | .1982084 | .0874857 | .1640124 | .1004310 | .7034666 | .2896291 | .2753131 |
| #1 | 9.684275 | .2580556 | .4039580 | .6162129 | .1817381 | 6.617767 | 5.006680 |
| #2 | 9.649315 | .2578401 | .4031059 | .6157940 | .1834258 | 6.588812 | 4.983039 |
| #3 | 9.653243 | .2576046 | .4044103 | .6170123 | .1809138 | 6.624990 | 4.982727 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: Q2881-02MS Acquired: 8/20/2025 16:19:08 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 5.314715 | .1708354 | .2031649 |
| Stddev | .010725 | .0017882 | .0005100 |
| %RSD | .2017936 | 1.046746 | .2510153 |
| #1 | 5.318828 | .1690576 | .2036452 |
| #2 | 5.302543 | .1726338 | .2032197 |
| #3 | 5.322775 | .1708147 | .2026297 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6301.008 | 110127.4 | 11446.45 | 4818.440 | 7773.372 |
| Stddev | 4.567 | 384.5 | 60.27 | 10.832 | 15.547 |
| %RSD | .0724876 | .3491261 | .5265094 | .2247935 | .1999979 |
| #1 | 6306.038 | 109697.1 | 11389.95 | 4830.754 | 7789.603 |
| #2 | 6299.868 | 110437.1 | 11439.50 | 4814.177 | 7771.897 |
| #3 | 6297.119 | 110248.1 | 11509.88 | 4810.388 | 7758.615 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: Q2881-02MSD Acquired: 8/20/2025 16:23:07 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7227484** | **1.765213** | **.8443304** | **1.782994** | **.7312795** | **1.866827** | **.1794753** |
| Stddev | .0021720 | .018219 | .0016320 | .001567 | .0009255 | .014119 | .0017119 |
| %RSD | .3005244 | 1.032092 | .1932876 | .0879136 | .1265589 | .7563152 | .9538520 |
| #1 | .7204580 | 1.753966 | .8436017 | 1.781461 | .7313534 | 1.867348 | .1788673 |
| #2 | .7230086 | 1.786233 | .8431897 | 1.782929 | .7303192 | 1.852455 | .1781503 |
| #3 | .7247786 | 1.755441 | .8461998 | 1.784593 | .7321658 | 1.880679 | .1814082 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1779364** | **.1712299** | **4.968939** | **.3808537** | **.1839677** | **.2833374** | **2.832392** |
| Stddev | .0013018 | .0001881 | .012276 | .0009708 | .0002961 | .0000993 | .010671 |
| %RSD | .7315964 | .1098266 | .2470608 | .2548940 | .1609248 | .0350319 | .3767513 |
| #1 | .1772673 | .1710209 | 4.961742 | .3818830 | .1836868 | .2832494 | 2.844290 |
| #2 | .1771053 | .1712836 | 4.961961 | .3807238 | .1839395 | .2834450 | 2.823669 |
| #3 | .1794367 | .1713853 | 4.983114 | .3799545 | .1842769 | .2833178 | 2.829217 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2137651** | **3.377922** | **.4490855** | **.0656672** | **15.38241** | **.2796133** | **.2166814** |
| Stddev | .0008954 | .030384 | .0007474 | .0003264 | .09998 | .0009016 | .0004378 |
| %RSD | .4188731 | .8994829 | .1664296 | .4970803 | .6499784 | .3224364 | .2020315 |
| #1 | .2129597 | 3.390472 | .4484833 | .0657264 | 15.47316 | .2804142 | .2165803 |
| #2 | .2136065 | 3.343273 | .4488512 | .0653152 | 15.39886 | .2797887 | .2171608 |
| #3 | .2147293 | 3.400019 | .4499220 | .0659599 | 15.27523 | .2786369 | .2163030 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.479602** | **.2508619** | **.3976607** | **.6026003** | **.1788256** | **6.483940** | **4.845965** |
| Stddev | .043562 | .0023958 | .0006273 | .0016788 | .0011702 | .008493 | .012389 |
| %RSD | .4595331 | .9550417 | .1577417 | .2785907 | .6544047 | .1309893 | .2556458 |
| #1 | 9.529406 | .2490576 | .3972876 | .6010129 | .1784296 | 6.488388 | 4.833763 |
| #2 | 9.460806 | .2499478 | .3973095 | .6024304 | .1779047 | 6.489286 | 4.845600 |
| #3 | 9.448593 | .2535802 | .3983849 | .6043576 | .1801425 | 6.474147 | 4.858532 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: Q2881-02MSD Acquired: 8/20/2025 16:23:07 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 5.158675 | .1659085 | .1977870 |
| Stddev | .018870 | .0005969 | .0009633 |
| %RSD | .3657831 | .3597685 | .4870199 |
| #1 | 5.137000 | .1652217 | .1985331 |
| #2 | 5.167593 | .1663017 | .1966996 |
| #3 | 5.171433 | .1662021 | .1981284 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6291.687 | 110416.0 | 11497.21 | 4858.928 | 7772.396 |
| Stddev | 9.087 | 293.6 | 54.48 | 35.074 | 15.153 |
| %RSD | .1444224 | .2659372 | .4738461 | .7218516 | .1949545 |
| #1 | 6289.609 | 110194.5 | 11514.58 | 4819.802 | 7778.304 |
| #2 | 6301.633 | 110304.4 | 11540.88 | 4869.428 | 7783.704 |
| #3 | 6283.820 | 110749.0 | 11436.16 | 4887.552 | 7755.179 |

Sample Name: Q2881-02A Acquired: 8/20/2025 16:27:04 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7772262** | **1.971551** | **.9133421** | **1.930501** | **.7815287** | **2.044403** | **.1937596** |
| Stddev | .0025544 | .027109 | .0028797 | .003379 | .0011183 | .005014 | .0018717 |
| %RSD | .3286527 | 1.375019 | .3152870 | .1750327 | .1430888 | .2452639 | .9659927 |
| #1 | .7775245 | 1.978779 | .9121524 | 1.933439 | .7824329 | 2.043816 | .1921772 |
| #2 | .7796183 | 1.994315 | .9112478 | 1.931256 | .7818750 | 2.049684 | .1958256 |
| #3 | .7745358 | 1.941561 | .9166259 | 1.926808 | .7802782 | 2.039708 | .1932759 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1911850** | **.1852388** | **5.154899** | **.4130848** | **.1984734** | **.3060373** | **3.144183** |
| Stddev | .0007185 | .0003139 | .005109 | .0019482 | .0004404 | .0005831 | .016994 |
| %RSD | .3758225 | .1694426 | .0991042 | .4716214 | .2218711 | .1905458 | .5405000 |
| #1 | .1911651 | .1849097 | 5.159502 | .4113393 | .1979701 | .3053783 | 3.124957 |
| #2 | .1919132 | .1852719 | 5.155791 | .4151866 | .1986628 | .3064868 | 3.157199 |
| #3 | .1904766 | .1855348 | 5.149402 | .4127286 | .1987875 | .3062466 | 3.150393 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2174879** | **3.575599** | **.4866599** | **.0694288** | **16.31972** | **.3033517** | **.2365926** |
| Stddev | .0005552 | .019045 | .0009990 | .0005089 | .11918 | .0005511 | .0012808 |
| %RSD | .2552661 | .5326365 | .2052727 | .7329025 | .7303059 | .1816578 | .5413615 |
| #1 | .2168861 | 3.566701 | .4856951 | .0690466 | 16.18704 | .3033464 | .2357932 |
| #2 | .2175974 | 3.562631 | .4865947 | .0700064 | 16.41769 | .3039054 | .2380699 |
| #3 | .2179802 | 3.597464 | .4876898 | .0692335 | 16.35444 | .3028033 | .2359146 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.41536** | **.2710821** | **.4230092** | **.6435876** | **.1885016** | **6.910515** | **5.260383** |
| Stddev | .06581 | .0012433 | .0002475 | .0002327 | .0009449 | .017234 | .006137 |
| %RSD | .6318935 | .4586512 | .0584991 | .0361625 | .5012434 | .2493871 | .1166699 |
| #1 | 10.34042 | .2715180 | .4232033 | .6438427 | .1874625 | 6.900567 | 5.253802 |
| #2 | 10.46377 | .2720487 | .4227306 | .6433868 | .1893092 | 6.900563 | 5.265950 |
| #3 | 10.44188 | .2696795 | .4230937 | .6435332 | .1887330 | 6.930415 | 5.261396 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: Q2881-02A Acquired: 8/20/2025 16:27:04 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 5.224338 | .1816664 | .2138239 |
| Stddev | .016341 | .0007488 | .0006127 |
| %RSD | .3127797 | .4121793 | .2865486 |
| #1 | 5.239369 | .1810667 | .2131628 |
| #2 | 5.226700 | .1814268 | .2143727 |
| #3 | 5.206945 | .1825056 | .2139363 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6272.888 | 107502.4 | 11509.41 | 4800.024 | 7748.698 |
| Stddev | .967 | 242.3 | 26.09 | 21.625 | 3.881 |
| %RSD | .0154097 | .2253991 | .2266839 | .4505234 | .0500904 |
| #1 | 6273.814 | 107767.9 | 11510.33 | 4806.736 | 7751.722 |
| #2 | 6271.886 | 107293.3 | 11482.86 | 4775.839 | 7744.321 |
| #3 | 6272.964 | 107446.0 | 11535.02 | 4817.498 | 7750.050 |

Sample Name: Q2814-01 Acquired: 8/20/2025 16:31:02 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0003099** | **-.001713** | **.0069933** | **.0016998** | **.0034726** | **.9349769** |
| Stddev | .0020081 | .000719 | .0001246 | .0012500 | .0009081 | .0053510 |
| %RSD | 648.0577 | 41.97522 | 1.782004 | 73.54042 | 26.14939 | .5723117 |
| #1 | -.001566 | -.002534 | .0068965 | .0007034 | .0041191 | .9374555 |
| #2 | .000067 | -.001404 | .0069496 | .0012936 | .0024344 | .9288360 |
| #3 | .002428 | -.001199 | .0071339 | .0031025 | .0038642 | .9386392 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0741388** | **-.000074** | **.0001957** | **45.03411** | **.0061468** | **.0001160** |
| Stddev | .0010403 | .000019 | .0000723 | .11692 | .0001317 | .0001109 |
| %RSD | 1.403225 | 25.53618 | 36.94868 | .2596183 | 2.142728 | 95.52886 |
| #1 | .0746063 | -.000064 | .0002716 | 44.94114 | .0062031 | -.000010 |
| #2 | .0748632 | -.000096 | .0001276 | 45.16537 | .0062410 | .000159 |
| #3 | .0729467 | -.000063 | .0001880 | 44.99583 | .0059963 | .000199 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0073040** | **1.924042** | **.0359256** | **25.45586** | **.0018767** | **.0001393** |
| Stddev | .0002487 | .020286 | .0008708 | .04056 | .0003226 | .0003008 |
| %RSD | 3.405356 | 1.054348 | 2.423970 | .1593501 | 17.19157 | 216.0049 |
| #1 | .0071206 | 1.904775 | .0356153 | 25.48047 | .0020683 | .0002120 |
| #2 | .0072044 | 1.922138 | .0369090 | 25.47806 | .0015042 | .0003970 |
| #3 | .0075871 | 1.945213 | .0352524 | 25.40904 | .0020576 | -.000191 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **137.7688** | **.0078666** | **.0320256** | **27.30660** | **.1727379** | **.0035157** |
| Stddev | .5903 | .0022332 | .0002403 | .05721 | .0005493 | .0001008 |
| %RSD | .4284916 | 28.38821 | .7502223 | .2095226 | .3180228 | 2.867879 |
| #1 | 137.0872 | .0053061 | .0322701 | 27.26546 | .1732227 | .0034148 |
| #2 | 138.1205 | .0094112 | .0320168 | 27.28239 | .1728498 | .0036164 |
| #3 | 138.0985 | .0088825 | .0317898 | 27.37193 | .1721413 | .0035159 |

Sample Name: Q2814-01 Acquired: 8/20/2025 16:31:02 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.015055 | .0338486 | F 13.25954 | 1.042958 | 4.270758 | -.018078 |
| Stddev | .000653 | .0007611 | .09573 | .004133 | .015688 | .001364 |
| %RSD | 4.337140 | 2.248625 | .7219387 | .3963227 | .3673405 | 7.544353 |
| #1 | -.015498 | .0344688 | 13.17594 | 1.047665 | 4.283735 | -.019591 |
| #2 | -.014305 | .0329992 | 13.23872 | 1.039921 | 4.275215 | -.017703 |
| #3 | -.015363 | .0340777 | 13.36396 | 1.041287 | 4.253323 | -.016941 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3749724 |
| Stddev | .0021097 |
| %RSD | .5626317 |
| #1 | .3746567 |
| #2 | .3772221 |
| #3 | .3730383 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5916.784 | 102117.4 | 11088.09 | 4549.645 | 6989.462 |
| Stddev | 2.038 | 390.8 | 30.82 | 37.027 | 7.259 |
| %RSD | .0344427 | .3826650 | .2779487 | .8138476 | .1038561 |
| #1 | 5914.661 | 102200.8 | 11068.85 | 4553.487 | 6983.826 |
| #2 | 5916.966 | 102459.8 | 11071.78 | 4584.601 | 6997.653 |
| #3 | 5918.725 | 101691.7 | 11123.64 | 4510.846 | 6986.906 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: CCV04 Acquired: 8/20/2025 16:35:17 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.052088** | **5.148766** | **4.929721** | **5.091073** | **5.052871** | **9.867562** | **9.767982** |
| Stddev | .028574 | .104411 | .028974 | .033635 | .026837 | .009533 | .076229 |
| %RSD | .5655956 | 2.027882 | .5877312 | .6606675 | .5311224 | .0966125 | .7803998 |
| #1 | 5.037864 | 5.083242 | 4.902991 | 5.079414 | 5.033532 | 9.856588 | 9.774234 |
| #2 | 5.084983 | 5.269173 | 4.960510 | 5.128986 | 5.083510 | 9.873803 | 9.840892 |
| #3 | 5.033417 | 5.093883 | 4.925662 | 5.064819 | 5.041571 | 9.872294 | 9.688819 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2471579** | **2.484598** | **24.59102** | **1.005860** | **2.476198** | **1.255739** | **4.977099** |
| Stddev | .0006800 | .013485 | .02104 | .000886 | .011949 | .006329 | .008757 |
| %RSD | .2751229 | .5427621 | .0855675 | .0881111 | .4825549 | .5039929 | .1759395 |
| #1 | .2466057 | 2.471157 | 24.60851 | 1.005061 | 2.464175 | 1.249711 | 4.986569 |
| #2 | .2469506 | 2.498127 | 24.56767 | 1.005706 | 2.488072 | 1.262331 | 4.969296 |
| #3 | .2479174 | 2.484509 | 24.59690 | 1.006813 | 2.476347 | 1.255174 | 4.975432 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.431889** | **24.54368** | **2.483240** | **1.249076** | **23.81423** | **2.473984** | **2.525421** |
| Stddev | .009780 | .05496 | .013927 | .000733 | .20270 | .004768 | .006206 |
| %RSD | .4021734 | .2239394 | .5608305 | .0586825 | .8511738 | .1927429 | .2457283 |
| #1 | 2.441377 | 24.50180 | 2.468943 | 1.249574 | 24.04814 | 2.477534 | 2.531160 |
| #2 | 2.421841 | 24.52331 | 2.496764 | 1.249418 | 23.69024 | 2.468564 | 2.526266 |
| #3 | 2.432450 | 24.60592 | 2.484013 | 1.248234 | 23.70430 | 2.475853 | 2.518836 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **24.79694** | **4.919787** | **5.084770** | **4.987489** | **4.897649** | **4.976035** | **4.960306** |
| Stddev | .04728 | .016763 | .027188 | .027146 | .012934 | .014692 | .039215 |
| %RSD | .1906687 | .3407213 | .5346932 | .5442742 | .2640941 | .2952561 | .7905677 |
| #1 | 24.82207 | 4.904878 | 5.065353 | 4.967446 | 4.912249 | 4.961618 | 4.936060 |
| #2 | 24.74240 | 4.916552 | 5.115843 | 5.018382 | 4.887624 | 4.975500 | 5.005548 |
| #3 | 24.82634 | 4.937932 | 5.073116 | 4.976641 | 4.893073 | 4.990987 | 4.939310 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: CCV04 Acquired: 8/20/2025 16:35:17 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **4.981653** | **4.747346** | **4.920480** |
| Stddev | .031923 | .017030 | .059266 |
| %RSD | .6408097 | .3587166 | 1.204467 |
| #1 | 4.963136 | 4.760944 | 4.866735 |
| #2 | 5.018514 | 4.728246 | 4.910663 |
| #3 | 4.963309 | 4.752850 | 4.984041 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **6061.915** | **105522.1** | **11297.17** | **4721.360** | **7064.292** |
| Stddev | 29.066 | 34.8 | 28.12 | 22.732 | 34.586 |
| %RSD | .4794921 | .0329835 | .2488683 | .4814802 | .4895915 |
| #1 | 6085.412 | 105539.6 | 11326.12 | 4704.912 | 7098.864 |
| #2 | 6029.411 | 105544.6 | 11295.41 | 4711.867 | 7029.692 |
| #3 | 6070.920 | 105482.0 | 11269.97 | 4747.300 | 7064.321 |

Sample Name: CCB04 Acquired: 8/20/2025 16:39:28 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000475** | **-.000495** | **.0004625** | **.0003753** | **-.000974** | **.0030327** |
| Stddev | .001609 | .001268 | .0005123 | .0006468 | .000610 | .0057079 |
| %RSD | 339.1047 | 256.4340 | 110.7598 | 172.3694 | 62.64853 | 188.2141 |
| #1 | -.001572 | .000824 | -.000046 | -.000182 | -.001255 | -.002824 |
| #2 | -.001224 | -.000603 | .000978 | .000223 | -.000274 | .003342 |
| #3 | .001373 | -.001705 | .000456 | .001085 | -.001393 | .008580 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.003118** | **-.000085** | **.0000228** | **.0042483** | **-.000544** | **-.000107** |
| Stddev | .000984 | .000037 | .0000489 | .0046477 | .000246 | .000095 |
| %RSD | 31.55861 | 43.60070 | 214.2145 | 109.4017 | 45.14507 | 88.88505 |
| #1 | -.002441 | -.000113 | .0000601 | .0001642 | -.000729 | .000002 |
| #2 | -.004246 | -.000043 | .0000409 | .0093055 | -.000265 | -.000154 |
| #3 | -.002666 | -.000099 | -.000033 | .0032752 | -.000638 | -.000171 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000327** | **-.006028** | **.0005548** | **-.010587** | **.0002811** | **.0004798** |
| Stddev | .000295 | .000899 | .0000212 | .015219 | .0001224 | .0001382 |
| %RSD | 90.04151 | 14.90723 | 3.822983 | 143.7452 | 43.54965 | 28.79566 |
| #1 | -.000621 | -.005025 | .0005425 | .005981 | .0001918 | .0003925 |
| #2 | -.000330 | -.006761 | .0005793 | -.013798 | .0002310 | .0006391 |
| #3 | -.000031 | -.006299 | .0005425 | -.023944 | .0004207 | .0004078 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0285990** | **.0032238** | **-.000221** | **.0805686** | **.0043257** | **.0002796** |
| Stddev | .0169256 | .0006119 | .000039 | .0641514 | .0005309 | .0002561 |
| %RSD | 59.18249 | 18.98036 | 17.84852 | 79.62328 | 12.27303 | 91.59690 |
| #1 | .0090615 | .0027189 | -.000217 | .0079081 | .0040711 | .0004177 |
| #2 | .0379299 | .0039043 | -.000184 | .1044195 | .0039702 | -.000016 |
| #3 | .0388055 | .0030482 | -.000263 | .1293783 | .0049360 | .000437 |

Sample Name: CCB04 Acquired: 8/20/2025 16:39:28 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.001875 | -.000442 | .0121152 | -.000014 | F .0261418 | -.007019 |
| Stddev | .000434 | .000568 | .0063614 | .000789 | .0015133 | .001009 |
| %RSD | 23.12934 | 128.4322 | 52.50764 | 5788.459 | 5.788680 | 14.37808 |
| #1 | -.001564 | -.000553 | .0050403 | -.000501 | .0274876 | -.008140 |
| #2 | -.001690 | -.000947 | .0173634 | .000897 | .0264341 | -.006734 |
| #3 | -.002371 | .000173 | .0139420 | -.000437 | .0245037 | -.006182 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0000980 |
| Stddev | .0000489 |
| %RSD | 49.87574 |
| #1 | .0001278 |
| #2 | .0000416 |
| #3 | .0001246 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6354.006 | 109665.6 | 11034.70 | 4873.821 | 8076.835 |
| Stddev | 5.138 | 240.7 | 28.04 | 21.776 | 5.518 |
| %RSD | .0808630 | .2194679 | .2540960 | .4467899 | .0683227 |
| #1 | 6359.906 | 109924.2 | 11049.74 | 4875.058 | 8083.199 |
| #2 | 6351.597 | 109624.4 | 11002.35 | 4851.453 | 8073.926 |
| #3 | 6350.515 | 109448.2 | 11052.01 | 4894.952 | 8073.380 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: Q2814-03 Acquired: 8/20/2025 16:43:47 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0217787** | **-.002187** | **.0522537** | **.0047643** | **.0033479** | **18.62827** |
| Stddev | .0012250 | .000371 | .0012258 | .0028328 | .0015860 | .01717 |
| %RSD | 5.624740 | 16.94136 | 2.345957 | 59.46007 | 47.37332 | .0921862 |
| #1 | .0215734 | -.001784 | .0514911 | .0077082 | .0028093 | 18.63118 |
| #2 | .0206694 | -.002512 | .0536677 | .0020575 | .0021014 | 18.60983 |
| #3 | .0230934 | -.002265 | .0516022 | .0045271 | .0051331 | 18.64381 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0611836** | **.0008127** | **.0009804** | **35.81063** | **.0310581** | **.0043343** |
| Stddev | .0004068 | .0000540 | .0000342 | .06646 | .0000744 | .0000633 |
| %RSD | .6648312 | 6.643176 | 3.486950 | .1855903 | .2395923 | 1.460605 |
| #1 | .0610170 | .0008610 | .0009789 | 35.82103 | .0310321 | .0043489 |
| #2 | .0608865 | .0008225 | .0009469 | 35.73958 | .0310002 | .0042650 |
| #3 | .0616472 | .0007544 | .0010153 | 35.87128 | .0311420 | .0043891 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0418878** | **16.38794** | **.2572641** | **14.33233** | **.0142630** | **.0010630** |
| Stddev | .0004163 | .15977 | .0010044 | .02389 | .0003204 | .0002525 |
| %RSD | .9938887 | .9748981 | .3904084 | .1666735 | 2.246108 | 23.75231 |
| #1 | .0419050 | 16.32893 | .2570829 | 14.33953 | .0143748 | .0007795 |
| #2 | .0414632 | 16.26606 | .2563627 | 14.30567 | .0145125 | .0011455 |
| #3 | .0422953 | 16.56881 | .2583467 | 14.35179 | .0139017 | .0012638 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **79.12875** | **.0395913** | **.1673440** | **9.478936** | **.1586491** | **.0032422** |
| Stddev | .52962 | .0032372 | .0002775 | .047854 | .0008597 | .0001458 |
| %RSD | .6693183 | 8.176524 | .1658256 | .5048434 | .5418674 | 4.497027 |
| #1 | 78.89477 | .0406129 | .1672213 | 9.444424 | .1592237 | .0032523 |
| #2 | 78.75642 | .0421944 | .1676617 | 9.458819 | .1590629 | .0033826 |
| #3 | 79.73507 | .0359665 | .1671490 | 9.533564 | .1576608 | .0030915 |

Sample Name: Q2814-03 Acquired: 8/20/2025 16:43:47 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.014757 | .6024015 | F 23.55158 | 2.694794 | 5.044351 | -.005808 |
| Stddev | .000371 | .0020721 | .22807 | .011641 | .029716 | .001414 |
| %RSD | 2.517228 | .3439740 | .9684060 | .4319755 | .5890905 | 24.34889 |
| #1 | -.015183 | .6039902 | 23.48367 | 2.707926 | 5.075757 | -.005748 |
| #2 | -.014501 | .6000578 | 23.36518 | 2.685743 | 5.040616 | -.007252 |
| #3 | -.014586 | .6031566 | 23.80590 | 2.690713 | 5.016679 | -.004425 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1506185 |
| Stddev | .0002558 |
| %RSD | .1698271 |
| #1 | .1507725 |
| #2 | .1503232 |
| #3 | .1507597 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6067.221 | 103732.4 | 11153.23 | 4664.505 | 7151.557 |
| Stddev | 10.232 | 153.0 | 57.84 | 10.476 | 16.761 |
| %RSD | .1686489 | .1475357 | .5185860 | .2245920 | .2343672 |
| #1 | 6055.408 | 103619.5 | 11106.45 | 4676.570 | 7132.228 |
| #2 | 6073.343 | 103906.6 | 11135.34 | 4659.235 | 7160.370 |
| #3 | 6072.911 | 103671.2 | 11217.90 | 4657.711 | 7162.072 |

Sample Name: Q2814-22 Acquired: 8/20/2025 16:47:55 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0006515** | **-.001398** | **.0003394** | **.0020946** | **.0033435** | **.0398809** |
| Stddev | .0016170 | .001002 | .0011691 | .0023535 | .0025587 | .0079037 |
| %RSD | 248.2096 | 71.68796 | 344.4583 | 112.3589 | 76.52804 | 19.81829 |
| #1 | .0001495 | -.002367 | -.000958 | .0042156 | .0061952 | .0463774 |
| #2 | .0024600 | -.001462 | .000666 | -.000437 | .0012483 | .0310815 |
| #3 | -.000655 | -.000366 | .001310 | .002505 | .0025871 | .0421837 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0550895** | **-.000151** | **.0000666** | **41.40174** | **.0008411** | **-.000396** |
| Stddev | .0008912 | .000021 | .0000198 | .13302 | .0002417 | .000106 |
| %RSD | 1.617737 | 13.66315 | 29.72916 | .3212860 | 28.73187 | 26.71268 |
| #1 | .0548555 | -.000173 | .0000455 | 41.43924 | .0007862 | -.000492 |
| #2 | .0560743 | -.000131 | .0000695 | 41.51198 | .0011055 | -.000414 |
| #3 | .0543386 | -.000149 | .0000847 | 41.25399 | .0006316 | -.000283 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0104719** | **.0349873** | **.0080960** | **23.60127** | **.0007293** | **.0000161** |
| Stddev | .0001022 | .0050762 | .0002424 | .10353 | .0001640 | .0002092 |
| %RSD | .9758884 | 14.50867 | 2.993900 | .4386532 | 22.48670 | 1299.438 |
| #1 | .0105473 | .0300437 | .0079287 | 23.56984 | .0005570 | .0002360 |
| #2 | .0105129 | .0347318 | .0079852 | 23.71687 | .0007474 | -.000181 |
| #3 | .0103556 | .0401864 | .0083739 | 23.51710 | .0008835 | -.000007 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **130.8633** | **.0057501** | **.0237107** | **25.29151** | **.1708207** | **.0024760** |
| Stddev | .3246 | .0005209 | .0001070 | .07742 | .0006139 | .0001987 |
| %RSD | .2480456 | 9.058455 | .4512061 | .3061138 | .3594007 | 8.024982 |
| #1 | 130.5347 | .0053389 | .0237212 | 25.21590 | .1709224 | .0025249 |
| #2 | 131.1838 | .0055756 | .0235988 | 25.28799 | .1713774 | .0026457 |
| #3 | 130.8713 | .0063358 | .0238120 | 25.37063 | .1701622 | .0022574 |

Sample Name: Q2814-22 Acquired: 8/20/2025 16:47:55 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.016537 | -.000873 | F 11.23132 | .8053637 | 4.226290 | -.017609 |
| Stddev | .000315 | .000310 | .01485 | .0022384 | .012424 | .000825 |
| %RSD | 1.904163 | 35.51178 | .1322156 | .2779303 | .2939591 | 4.686739 |
| #1 | -.016817 | -.000873 | 11.21590 | .8074264 | 4.231392 | -.018016 |
| #2 | -.016196 | -.000563 | 11.23254 | .8029836 | 4.212128 | -.016659 |
| #3 | -.016598 | -.001184 | 11.24552 | .8056811 | 4.235350 | -.018151 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3447642 |
| Stddev | .0014678 |
| %RSD | .4257410 |
| #1 | .3447916 |
| #2 | .3462181 |
| #3 | .3432829 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5958.082 | 103380.0 | 11158.81 | 4630.086 | 6993.512 |
| Stddev | 2.589 | 76.2 | 60.06 | 6.640 | 12.041 |
| %RSD | .0434509 | .0737014 | .5382620 | .1434004 | .1721712 |
| #1 | 5956.779 | 103365.4 | 11131.08 | 4637.752 | 7000.150 |
| #2 | 5961.064 | 103312.1 | 11117.62 | 4626.360 | 7000.773 |
| #3 | 5956.404 | 103462.4 | 11227.73 | 4626.147 | 6979.613 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: Q2814-23 Acquired: 8/20/2025 16:52:09 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0031780** | **-.000543** | **.0127019** | **.0017224** | **.0027934** | **.5956646** | **.0213885** |
| Stddev | .0012436 | .001511 | .0005470 | .0014119 | .0001096 | .0058991 | .0005848 |
| %RSD | 39.13105 | 278.0610 | 4.306127 | 81.97038 | 3.924341 | .9903367 | 2.734134 |
| #1 | .0022392 | .000901 | .0132677 | .0003610 | .0026967 | .5971445 | .0212370 |
| #2 | .0027065 | -.000419 | .0121760 | .0031798 | .0027710 | .5891665 | .0220341 |
| #3 | .0045884 | -.002112 | .0126619 | .0016265 | .0029125 | .6006829 | .0208943 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000153** | **.0003280** | **39.52109** | **.0019792** | **-.000070** | **.1470114** | **.0777607** |
| Stddev | .000110 | .0000931 | .09068 | .0001296 | .000121 | .0001889 | .0015244 |
| %RSD | 71.86977 | 28.38891 | .2294377 | 6.545728 | 172.2442 | .1285177 | 1.960305 |
| #1 | -.000027 | .0002414 | 39.42235 | .0018305 | .000069 | .1468537 | .0764047 |
| #2 | -.000203 | .0003161 | 39.60062 | .0020395 | -.000130 | .1472208 | .0794106 |
| #3 | -.000229 | .0004265 | 39.54031 | .0020676 | -.000149 | .1469597 | .0774669 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0405737** | **14.70714** | **.0022815** | **.0002129** | **91.98060** | **.0092889** | **.0397045** |
| Stddev | .0000877 | .06583 | .0002573 | .0002194 | .44853 | .0026365 | .0001454 |
| %RSD | .2161606 | .4476058 | 11.27826 | 103.0672 | .4876401 | 28.38384 | .3660732 |
| #1 | .0406712 | 14.66637 | .0025144 | .0001495 | 92.41278 | .0064243 | .0396070 |
| #2 | .0405012 | 14.67197 | .0023249 | .0000322 | 92.01167 | .0098283 | .0398716 |
| #3 | .0405485 | 14.78309 | .0020053 | .0004571 | 91.51733 | .0116140 | .0396349 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.526774** | **.1872066** | **.0019461** | **-.015969** | **-.000272** | **9.880860** | **1.082686** |
| Stddev | .029000 | .0012185 | .0000645 | .000603 | .001280 | .037928 | .001901 |
| %RSD | .3044000 | .6508742 | 3.313597 | 3.775579 | 471.1032 | .3838540 | .1755364 |
| #1 | 9.551317 | .1858422 | .0020086 | -.016429 | .000662 | 9.913010 | 1.082995 |
| #2 | 9.534231 | .1875909 | .0019500 | -.015286 | -.001731 | 9.890541 | 1.084413 |
| #3 | 9.494774 | .1881865 | .0018798 | -.016191 | .000253 | 9.839030 | 1.080650 |

Sample Name: Q2814-23 Acquired: 8/20/2025 16:52:09 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 5.915526 | -.020449 | .1806446 |
| Stddev | .005216 | .001201 | .0003039 |
| %RSD | .0881830 | 5.873059 | .1682565 |
| #1 | 5.921390 | -.019148 | .1804433 |
| #2 | 5.911402 | -.020683 | .1809943 |
| #3 | 5.913785 | -.021516 | .1804963 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6082.023 | 104271.4 | 11184.74 | 4692.837 | 7226.191 |
| Stddev | 8.508 | 248.6 | 68.88 | 13.115 | 6.167 |
| %RSD | .1398893 | .2384248 | .6158633 | .2794786 | .0853476 |
| #1 | 6090.919 | 104490.6 | 11264.22 | 4682.141 | 7228.445 |
| #2 | 6081.184 | 104001.3 | 11147.55 | 4707.470 | 7230.914 |
| #3 | 6073.965 | 104322.3 | 11142.45 | 4688.901 | 7219.213 |

Sample Name: Q2815-20 Acquired: 8/20/2025 16:56:22 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0240717** | **-.004490** | **.1050691** | **.0062142** | **.0042926** | **25.91292** |
| Stddev | .0015378 | .001692 | .0004962 | .0014585 | .0010301 | .04843 |
| %RSD | 6.388344 | 37.69443 | .4723099 | 23.46994 | 23.99594 | .1869104 |
| #1 | .0248835 | -.002537 | .1056391 | .0045533 | .0048868 | 25.95910 |
| #2 | .0250335 | -.005537 | .1048354 | .0068034 | .0031032 | 25.86251 |
| #3 | .0222981 | -.005395 | .1047329 | .0072859 | .0048877 | 25.91717 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1216148** | **.0056817** | **.0024382** | **75.65848** | **.0773608** | **.0091066** |
| Stddev | .0003682 | .0000836 | .0000515 | .14927 | .0000395 | .0001123 |
| %RSD | .3027734 | 1.470776 | 2.113135 | .1972980 | .0511008 | 1.232943 |
| #1 | .1217900 | .0056176 | .0023905 | 75.64952 | .0773153 | .0089849 |
| #2 | .1211917 | .0056514 | .0024928 | 75.51389 | .0773861 | .0091287 |
| #3 | .1218627 | .0057762 | .0024312 | 75.81203 | .0773811 | .0092061 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0617113** | **31.05451** | **.3208699** | **12.22032** | **.0316383** | **.0016056** |
| Stddev | .0003485 | .07197 | .0003441 | .03171 | .0004852 | .0002736 |
| %RSD | .5646754 | .2317540 | .1072315 | .2595234 | 1.533437 | 17.04149 |
| #1 | .0613377 | 31.09540 | .3212195 | 12.24290 | .0316211 | .0019191 |
| #2 | .0617687 | 31.09672 | .3208587 | 12.18406 | .0321318 | .0014145 |
| #3 | .0620275 | 30.97141 | .3205316 | 12.23400 | .0311619 | .0014833 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **28.28671** | **.0714547** | **.3735011** | **9.621208** | **.1025343** | **.0069589** |
| Stddev | .01340 | .0021693 | .0004103 | .035363 | .0009337 | .0003439 |
| %RSD | .0473865 | 3.035930 | .1098442 | .3675539 | .9105862 | 4.941988 |
| #1 | 28.27152 | .0696277 | .3730539 | 9.610661 | .1015958 | .0072680 |
| #2 | 28.29175 | .0738522 | .3735894 | 9.660644 | .1034630 | .0070203 |
| #3 | 28.29686 | .0708840 | .3738601 | 9.592318 | .1025441 | .0065885 |

Sample Name: Q2815-20 Acquired: 8/20/2025 16:56:22 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.015361 | .7881832 | F 39.20197 | 2.197841 | F 10.17426 | .0132221 |
| Stddev | .000397 | .0027773 | .09751 | .003568 | .02965 | .0008892 |
| %RSD | 2.584713 | .3523728 | .2487442 | .1623387 | .2914617 | 6.724840 |
| #1 | -.015130 | .7909940 | 39.12325 | 2.195843 | 10.19217 | .0122189 |
| #2 | -.015133 | .7881148 | 39.31105 | 2.201961 | 10.19058 | .0139132 |
| #3 | -.015819 | .7854406 | 39.17161 | 2.195720 | 10.14003 | .0135341 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3852554 |
| Stddev | .0012630 |
| %RSD | .3278316 |
| #1 | .3866239 |
| #2 | .3841347 |
| #3 | .3850076 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6099.968 | 105625.7 | 11361.48 | 4748.695 | 7154.251 |
| Stddev | 6.440 | 55.4 | 45.72 | 5.916 | .325 |
| %RSD | .1055724 | .0524587 | .4024289 | .1245752 | .0045475 |
| #1 | 6101.776 | 105593.2 | 11313.95 | 4751.833 | 7153.888 |
| #2 | 6105.311 | 105594.3 | 11405.15 | 4741.872 | 7154.350 |
| #3 | 6092.818 | 105689.7 | 11365.33 | 4752.381 | 7154.516 |

Sample Name: Q2815-25 Acquired: 8/20/2025 17:00:28 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0058836** | **-.001055** | **.0002186** | **.0001954** | **.0024374** | **.1262662** |
| Stddev | .0012157 | .001265 | .0005671 | .0041941 | .0011454 | .0090185 |
| %RSD | 20.66303 | 119.9217 | 259.4402 | 2146.542 | 46.99383 | 7.142422 |
| #1 | .0071009 | -.001550 | .0008580 | -.000862 | .0016503 | .1309976 |
| #2 | .0046694 | .000383 | .0000213 | .004817 | .0037515 | .1158667 |
| #3 | .0058805 | -.001998 | -.000224 | -.003369 | .0019104 | .1319345 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0209617** | **-.000135** | **.0001088** | **66.50006** | **.0009846** | **.0004793** |
| Stddev | .0003347 | .000054 | .0000336 | .11722 | .0002215 | .0001243 |
| %RSD | 1.596756 | 39.96709 | 30.93630 | .1762691 | 22.49940 | 25.94232 |
| #1 | .0211664 | -.000145 | .0001071 | 66.53802 | .0007967 | .0003507 |
| #2 | .0211432 | -.000183 | .0001433 | 66.36856 | .0012288 | .0004883 |
| #3 | .0205754 | -.000076 | .0000760 | 66.59359 | .0009281 | .0005989 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0138930** | **.0300416** | **.0897540** | **8.230929** | **.0024788** | **.0003303** |
| Stddev | .0004775 | .0023279 | .0006162 | .023740 | .0004416 | .0004360 |
| %RSD | 3.437006 | 7.748876 | .6865588 | .2884279 | 17.81394 | 131.9935 |
| #1 | .0133448 | .0274444 | .0890528 | 8.236806 | .0029594 | -.000103 |
| #2 | .0142183 | .0307401 | .0900000 | 8.204802 | .0023864 | .000324 |
| #3 | .0141159 | .0319403 | .0902093 | 8.251179 | .0020908 | .000769 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **25.44803** | **.0157602** | **.0365656** | **6.965964** | **.1218824** | **.0038590** |
| Stddev | .17904 | .0021922 | .0001638 | .072938 | .0004097 | .0001841 |
| %RSD | .7035357 | 13.90944 | .4479004 | 1.047057 | .3361066 | 4.771125 |
| #1 | 25.36247 | .0170400 | .0367459 | 6.901429 | .1221950 | .0040088 |
| #2 | 25.32782 | .0170117 | .0365248 | 6.951365 | .1214187 | .0036534 |
| #3 | 25.65379 | .0132290 | .0364261 | 7.045096 | .1220335 | .0039147 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: Q2815-25 Acquired: 8/20/2025 17:00:28 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.016698 | -.001836 | F 16.14529 | .4084977 | 5.515582 | -.024173 |
| Stddev | .000057 | .000611 | .08663 | .0033430 | .060824 | .001715 |
| %RSD | .3387573 | 33.25001 | .5365384 | .8183603 | 1.102768 | 7.093131 |
| #1 | -.016633 | -.001355 | 16.08211 | .4047193 | 5.445443 | -.022756 |
| #2 | -.016738 | -.001630 | 16.10973 | .4110712 | 5.547483 | -.023685 |
| #3 | -.016722 | -.002523 | 16.24404 | .4097025 | 5.553819 | -.026079 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3562528 |
| Stddev | .0009313 |
| %RSD | .2614224 |
| #1 | .3564914 |
| #2 | .3552253 |
| #3 | .3570415 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6151.012 | 107170.6 | 11282.90 | 4742.015 | 7429.871 |
| Stddev | 7.113 | 399.3 | 36.74 | 22.808 | 3.811 |
| %RSD | .1156348 | .3726115 | .3256614 | .4809698 | .0512996 |
| #1 | 6158.783 | 107298.2 | 11255.59 | 4766.012 | 7432.298 |
| #2 | 6144.824 | 107490.5 | 11324.67 | 4739.413 | 7431.837 |
| #3 | 6149.428 | 106723.0 | 11268.44 | 4720.620 | 7425.478 |

Sample Name: PB169301TB Acquired: 8/20/2025 17:04:42 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.002140** | **-.001250** | **.0008032** | **.0014581** | **.0004702** | **-.013752** | **-.003300** |
| Stddev | .001071 | .000804 | .0005481 | .0012925 | .0014639 | .005334 | .000372 |
| %RSD | 50.03515 | 64.30374 | 68.24121 | 88.64141 | 311.3647 | 38.78631 | 11.28297 |
| #1 | -.003358 | -.001119 | .0012188 | .0000447 | -.001169 | -.012961 | -.003384 |
| #2 | -.001351 | -.000520 | .0001820 | .0017499 | .001649 | -.019437 | -.002893 |
| #3 | -.001710 | -.002112 | .0010088 | .0025797 | .000930 | -.008858 | -.003623 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000093** | **-.000005** | **.0016975** | **-.000679** | **-.000106** | **-.000152** | **-.000509** |
| Stddev | .000047 | .000017 | .0074158 | .000358 | .000108 | .000350 | .005122 |
| %RSD | 50.65583 | 327.6591 | 436.8704 | 52.70615 | 102.2487 | 230.1489 | 1005.423 |
| #1 | -.000114 | -.000014 | .0089619 | -.001061 | -.000060 | .000241 | .002765 |
| #2 | -.000039 | .000014 | .0019916 | -.000626 | -.000028 | -.000428 | -.006412 |
| #3 | -.000127 | -.000016 | -.005861 | -.000351 | -.000229 | -.000269 | .002119 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0014885** | **-.012566** | **-.000165** | **.0002311** | **-.191429** | **.0043945** | **-.000369** |
| Stddev | .0000681 | .010595 | .000031 | .0001654 | .004220 | .0027393 | .000225 |
| %RSD | 4.574451 | 84.31291 | 18.63026 | 71.53502 | 2.204614 | 62.33442 | 61.04630 |
| #1 | .0015011 | -.006447 | -.000198 | .0000806 | -.195980 | .0040026 | -.000135 |
| #2 | .0014150 | -.006452 | -.000136 | .0004081 | -.190665 | .0018723 | -.000585 |
| #3 | .0015495 | -.024800 | -.000162 | .0002047 | -.187644 | .0073086 | -.000388 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.397097** | **-.000078** | **.0000427** | **-.016517** | **-.000429** | **-.014704** | **.0009953** |
| Stddev | .023022 | .000462 | .0001684 | .000110 | .001027 | .014869 | .0013485 |
| %RSD | 5.797574 | 590.6855 | 394.4523 | .6636453 | 239.3351 | 101.1245 | 135.4834 |
| #1 | -.371180 | .000388 | .0001483 | -.016413 | .000288 | -.031610 | -.000556 |
| #2 | -.415180 | -.000535 | -.000152 | -.016506 | .000030 | -.008850 | .001885 |
| #3 | -.404930 | -.000087 | .000131 | -.016632 | -.001605 | -.003652 | .001657 |

Sample Name: PB169301TB Acquired: 8/20/2025 17:04:42 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 8.566890 | -.015333 | .0000072 |
| Stddev | .049563 | .000507 | .0000736 |
| %RSD | .5785464 | 3.308806 | 1020.177 |
| #1 | 8.622732 | -.015600 | -.000068 |
| #2 | 8.528116 | -.014748 | .000011 |
| #3 | 8.549823 | -.015652 | .000079 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6597.152 | 110848.8 | 11773.42 | 4989.496 | 8460.050 |
| Stddev | 4.562 | 574.3 | 14.53 | 39.595 | 5.307 |
| %RSD | .0691480 | .5181226 | .1234219 | .7935734 | .0627282 |
| #1 | 6600.783 | 110216.4 | 11784.77 | 4946.367 | 8457.917 |
| #2 | 6598.642 | 111337.9 | 11778.45 | 5024.202 | 8466.091 |
| #3 | 6592.032 | 110992.1 | 11757.05 | 4997.919 | 8456.141 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: CCV05 Acquired: 8/20/2025 17:09:00 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.988917** | **5.029429** | **4.916765** | **5.024130** | **4.991234** | **9.860197** | **9.693877** |
| Stddev | .003750 | .077790 | .004643 | .006462 | .004655 | .003628 | .042120 |
| %RSD | .0751569 | 1.546704 | .0944369 | .1286136 | .0932570 | .0367982 | .4344978 |
| #1 | 4.992738 | 5.112878 | 4.912991 | 5.031589 | 4.994913 | 9.856724 | 9.692168 |
| #2 | 4.985243 | 5.016491 | 4.915353 | 5.020240 | 4.986001 | 9.863963 | 9.736825 |
| #3 | 4.988770 | 4.958919 | 4.921950 | 5.020561 | 4.992788 | 9.859905 | 9.652638 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2513909** | **2.482989** | **24.46243** | **1.014986** | **2.472796** | **1.250606** | **4.927202** |
| Stddev | .0007661 | .002488 | .03839 | .000765 | .001847 | .000960 | .015556 |
| %RSD | .3047537 | .1002198 | .1569367 | .0753798 | .0746812 | .0767732 | .3157175 |
| #1 | .2520476 | 2.480432 | 24.50632 | 1.014144 | 2.470703 | 1.250095 | 4.922266 |
| #2 | .2515759 | 2.485403 | 24.43507 | 1.015639 | 2.474197 | 1.250009 | 4.914713 |
| #3 | .2505492 | 2.483131 | 24.44590 | 1.015176 | 2.473486 | 1.251713 | 4.944628 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.424829** | **24.50149** | **2.476442** | **1.252056** | **23.43871** | **2.464836** | **2.536996** |
| Stddev | .009388 | .06595 | .001739 | .000659 | .12198 | .006901 | .005363 |
| %RSD | .3871571 | .2691594 | .0702350 | .0526625 | .5204122 | .2799598 | .2114015 |
| #1 | 2.433315 | 24.53719 | 2.474889 | 1.252058 | 23.45075 | 2.463899 | 2.539427 |
| #2 | 2.414745 | 24.54189 | 2.478321 | 1.252714 | 23.31116 | 2.458453 | 2.530848 |
| #3 | 2.426427 | 24.42539 | 2.476115 | 1.251395 | 23.55422 | 2.472158 | 2.540713 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **24.56762** | **4.969698** | **5.062463** | **4.972081** | **4.863941** | **4.944930** | **4.926962** |
| Stddev | .14711 | .014236 | .006158 | .004472 | .017382 | .024485 | .013487 |
| %RSD | .5988119 | .2864519 | .1216357 | .0899426 | .3573747 | .4951587 | .2737313 |
| #1 | 24.50309 | 4.985986 | 5.069142 | 4.971147 | 4.874870 | 4.916657 | 4.935613 |
| #2 | 24.46379 | 4.963474 | 5.057012 | 4.976946 | 4.843896 | 4.958988 | 4.933851 |
| #3 | 24.73597 | 4.959634 | 5.061234 | 4.968149 | 4.873055 | 4.959144 | 4.911422 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: CCV05 Acquired: 8/20/2025 17:09:00 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **4.904548** | **4.694384** | **4.893141** |
| Stddev | .017494 | .016981 | .049015 |
| %RSD | .3566819 | .3617283 | 1.001711 |
| | | | |
| #1 | 4.917940 | 4.701498 | 4.849565 |
| #2 | 4.910948 | 4.675003 | 4.883651 |
| #3 | 4.884755 | 4.706650 | 4.946207 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **6089.243** | **103617.1** | **11027.01** | **4664.715** | **7085.665** |
| Stddev | 16.745 | 95.7 | 38.12 | 10.953 | 18.971 |
| %RSD | .2749988 | .0923446 | .3456809 | .2348115 | .2677329 |
| | | | | | |
| #1 | 6104.387 | 103654.4 | 10992.83 | 4652.615 | 7107.140 |
| #2 | 6092.084 | 103508.4 | 11020.09 | 4667.578 | 7078.665 |
| #3 | 6071.260 | 103688.5 | 11068.12 | 4673.953 | 7071.188 |

Reviewed By:MOHAN
On:8/21/2025 5:53:36 PM
Inst Id :P4
LB :LB136898

Sample Name: CCB05 Acquired: 8/20/2025 17:13:12 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.001061** | **.0005517** | **.0006540** | **-.001009** | **-.000680** | **-.001434** |
| Stddev | .001299 | .0000901 | .0001803 | .002349 | .000483 | .004206 |
| %RSD | 122.3911 | 16.34103 | 27.57635 | 232.6600 | 70.99688 | 293.3022 |
| #1 | .000304 | .0005192 | .0004589 | .001220 | -.000123 | .003124 |
| #2 | -.002281 | .0004823 | .0006886 | -.000787 | -.000979 | -.002262 |
| #3 | -.001207 | .0006536 | .0008146 | -.003461 | -.000938 | -.005164 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.001389** | **-.000027** | **.0000408** | **.0011462** | **-.000185** | **-.000076** |
| Stddev | .001125 | .000017 | .0000147 | .0108421 | .000209 | .000146 |
| %RSD | 81.01107 | 62.78884 | 36.15193 | 945.9365 | 113.0787 | 192.5595 |
| #1 | -.002007 | -.000014 | .0000486 | -.008317 | -.000424 | -.000238 |
| #2 | -.000090 | -.000046 | .0000238 | .012976 | -.000096 | .000044 |
| #3 | -.002070 | -.000020 | .0000500 | -.001220 | -.000035 | -.000033 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000446** | **-.007317** | **.0004652** | **-.017445** | **-.000045** | **.0004840** |
| Stddev | .000238 | .003837 | .0003689 | .021745 | .000160 | .0004534 |
| %RSD | 53.25139 | 52.44711 | 79.31561 | 124.6503 | 354.1563 | 93.67346 |
| #1 | -.000511 | -.008843 | .0002057 | -.003474 | -.000161 | .0005708 |
| #2 | -.000645 | -.010156 | .0008875 | -.042499 | .000138 | .0008878 |
| #3 | -.000183 | -.002951 | .0003022 | -.006362 | -.000112 | -.000006 |

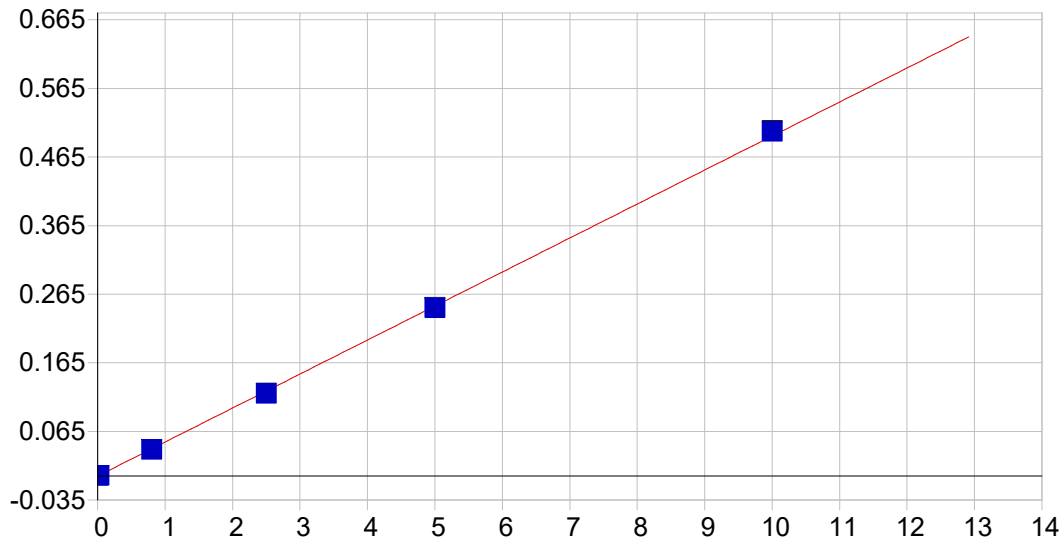
| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0521629** | **.0035252** | **-.000923** | **.0756746** | **.0042506** | **.0004999** |
| Stddev | .0204943 | .0015340 | .000080 | .0847813 | .0008001 | .0000891 |
| %RSD | 39.28907 | 43.51478 | 8.678222 | 112.0339 | 18.82268 | 17.81669 |
| #1 | .0288777 | .0040969 | -.000879 | -.018798 | .0051587 | .0005538 |
| #2 | .0674617 | .0046911 | -.001015 | .100684 | .0036496 | .0005488 |
| #3 | .0601493 | .0017874 | -.000875 | .145138 | .0039434 | .0003971 |

Sample Name: CCB05 Acquired: 8/20/2025 17:13:12 Type: Unk
Method: 6010-200.7 NEW(v122) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.002010** | **-.001117** | **.0123610** | **.0007288** | F **.0202850** | **-.006745** |
| Stddev | .000321 | .000551 | .0120712 | .0015597 | .0023101 | .000834 |
| %RSD | 15.95860 | 49.34322 | 97.65569 | 214.0016 | 11.38815 | 12.36637 |
| #1 | -.002335 | -.000564 | .0111450 | -.000872 | .0204553 | -.007399 |
| #2 | -.002003 | -.001122 | .0009438 | .000814 | .0225053 | -.007030 |
| #3 | -.001693 | -.001666 | .0249942 | .002244 | .0178945 | -.005806 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | **.0002383** |
| Stddev | .0000270 |
| %RSD | 11.33842 |
| #1 | .0002694 |
| #2 | .0002254 |
| #3 | .0002202 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **6308.810** | **108487.6** | **11182.78** | **4828.382** | **8044.106** |
| Stddev | 7.383 | 131.2 | 24.69 | 27.032 | 5.948 |
| %RSD | .1170238 | .1208976 | .2207726 | .5598560 | .0739380 |
| #1 | 6301.884 | 108595.8 | 11210.83 | 4807.391 | 8048.012 |
| #2 | 6307.968 | 108341.7 | 11164.35 | 4818.869 | 8047.045 |
| #3 | 6316.577 | 108525.1 | 11173.16 | 4858.884 | 8037.261 |

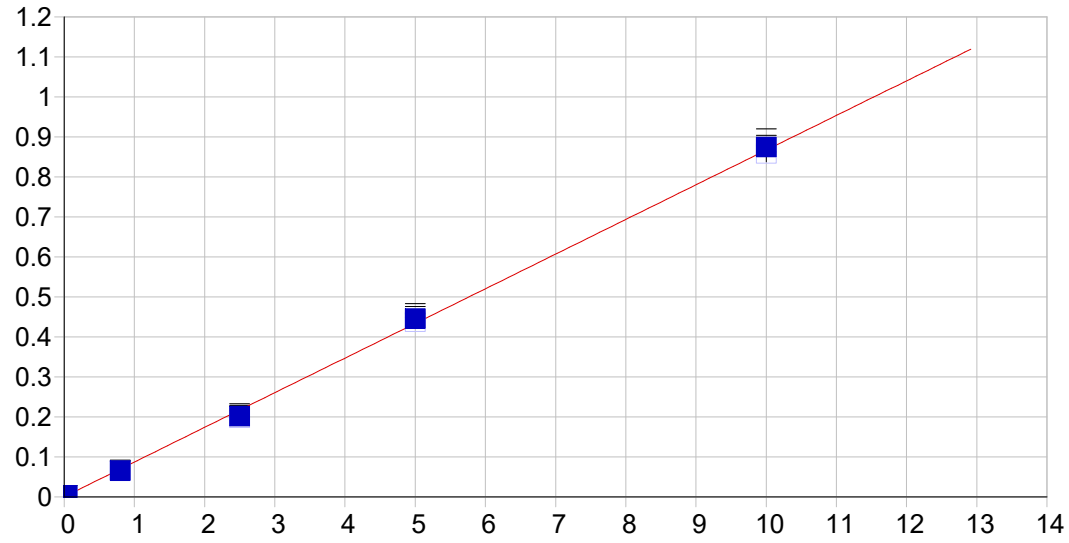



**As 189.042 {479}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000108 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.049569 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999864 | Status: | OK. |
| Std Error of Est: | 0.000019 | | |
| Predicted MDL: | 0.002111 | | |
| Predicted MQL: | 0.007037 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00011 | .000 | 1 |
| S1 | .02000 | .01932 | -.001 | -3.42 | .00084 | .000 | 1 |
| S3 | 2.5000 | 2.4311 | -.069 | -2.76 | .12027 | .000 | 1 |
| S4 | 5.0000 | 4.9490 | -.051 | -1.02 | .24494 | .001 | 1 |
| S5 | 10.000 | 10.141 | .141 | 1.41 | .50206 | .001 | 1 |
| S2 | .80000 | .77909 | -.021 | -2.61 | .03847 | .000 | 1 |

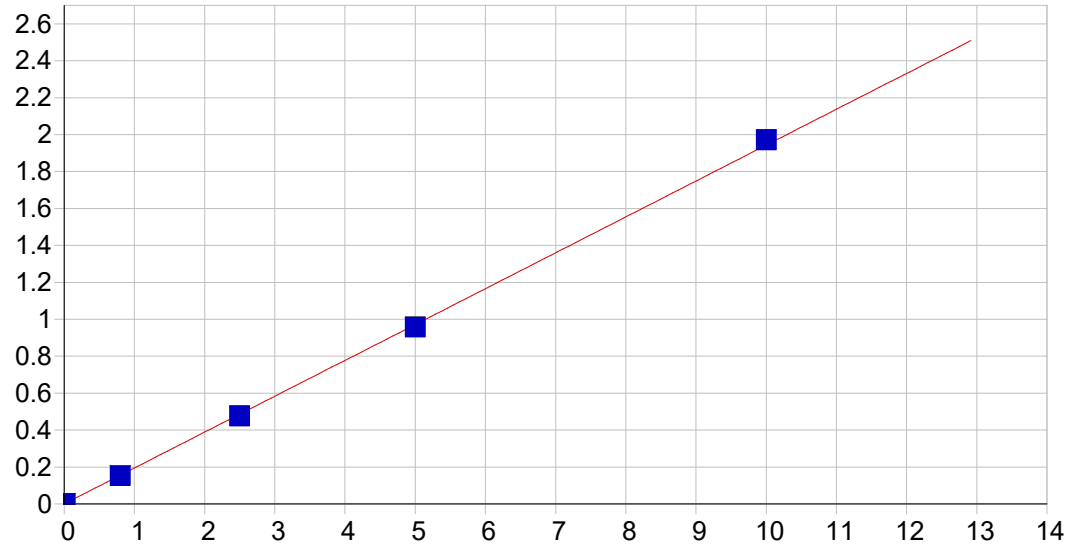



**Tl 190.856 {477}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000548 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.086635 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999439 | Status: | OK. |
| Std Error of Est: | 0.000094 | | |
| Predicted MDL: | 0.001451 | | |
| Predicted MQL: | 0.004837 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | .00055 | .000 | 1 |
| S1 | .04000 | .03844 | -.002 | -3.90 | .00366 | .000 | 1 |
| S3 | 2.5000 | 2.3229 | -.177 | -7.08 | .19784 | .006 | 1 |
| S4 | 5.0000 | 5.1393 | .139 | 2.79 | .43789 | .013 | 1 |
| S5 | 10.000 | 10.085 | .085 | .851 | .85848 | .021 | 1 |
| S2 | .80000 | .75423 | -.046 | -5.72 | .06463 | .001 | 1 |

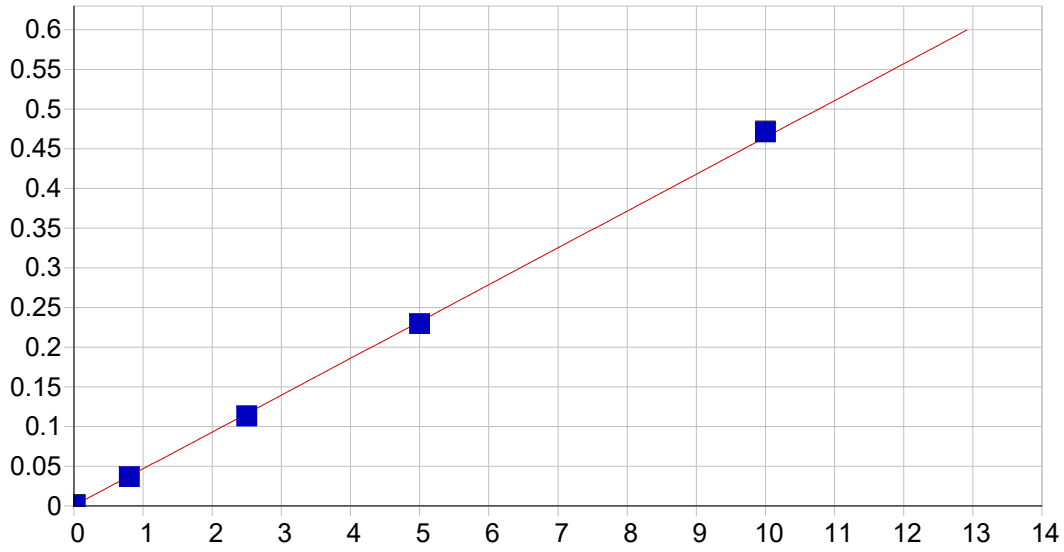



**Pb 220.353 {453}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000190 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.194247 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999874 | Status: | OK. |
| Std Error of Est: | 0.000056 | | |
| Predicted MDL: | 0.001248 | | |
| Predicted MQL: | 0.004161 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00019 | .000 | 1 |
| S1 | .01200 | .01192 | -.000 | -.656 | .00246 | .000 | 1 |
| S3 | 2.5000 | 2.4474 | -.053 | -2.11 | .47508 | .001 | 1 |
| S4 | 5.0000 | 4.9248 | -.075 | -1.50 | .95583 | .001 | 1 |
| S5 | 10.000 | 10.143 | .143 | 1.43 | 1.9685 | .002 | 1 |
| S2 | .80000 | .78457 | -.015 | -1.93 | .15243 | .000 | 1 |

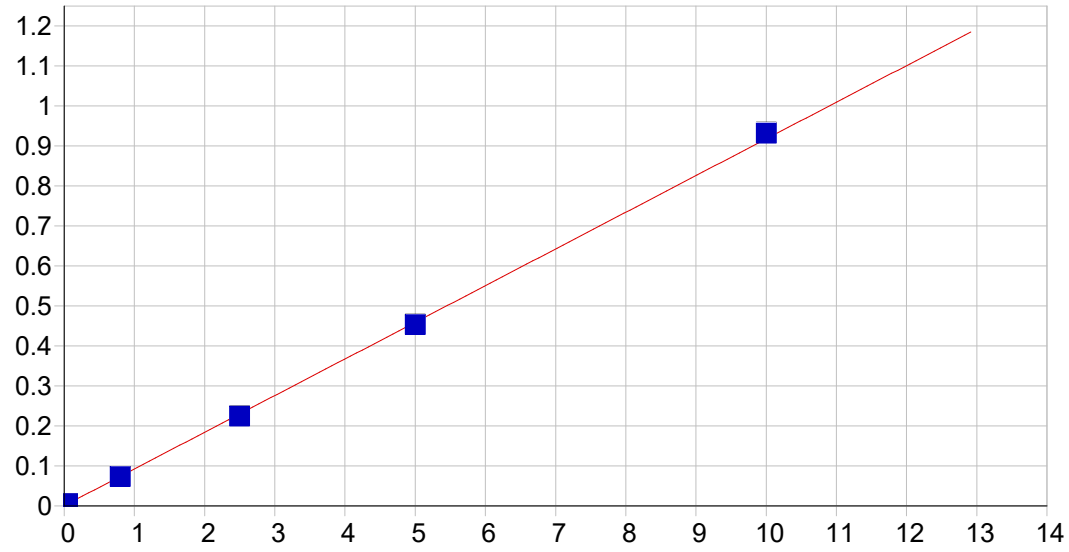



**Se 196.090 {472}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000346 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.046410 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999849 | Status: | OK. |
| Std Error of Est: | 0.000019 | | |
| Predicted MDL: | 0.002847 | | |
| Predicted MQL: | 0.009490 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00035 | .000 | 1 |
| S1 | .02000 | .02228 | .002 | 11.4 | .00138 | .000 | 1 |
| S3 | 2.5000 | 2.4292 | -.071 | -2.83 | .11305 | .000 | 1 |
| S4 | 5.0000 | 4.9379 | -.062 | -1.24 | .22945 | .001 | 1 |
| S5 | 10.000 | 10.147 | .147 | 1.47 | .47115 | .001 | 1 |
| S2 | .80000 | .78352 | -.016 | -2.06 | .03670 | .000 | 1 |

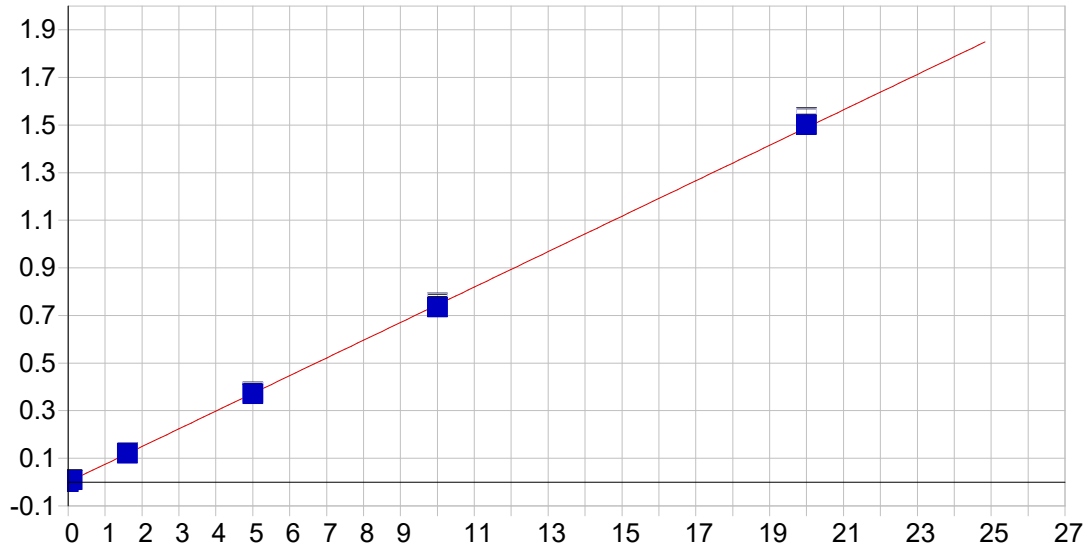



**Sb 206.833 {463}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000660 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.091706 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999867 | Status: | OK. |
| Std Error of Est: | 0.000056 | | |
| Predicted MDL: | 0.001816 | | |
| Predicted MQL: | 0.006054 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00066 | .000 | 1 |
| S1 | .05000 | .04975 | -.000 | -.499 | .00523 | .000 | 1 |
| S3 | 2.5000 | 2.4361 | -.064 | -2.56 | .22469 | .000 | 1 |
| S4 | 5.0000 | 4.9290 | -.071 | -1.42 | .45393 | .000 | 1 |
| S5 | 10.000 | 10.146 | .146 | 1.46 | .93360 | .001 | 1 |
| S2 | .80000 | .78911 | -.011 | -1.36 | .07323 | .000 | 1 |

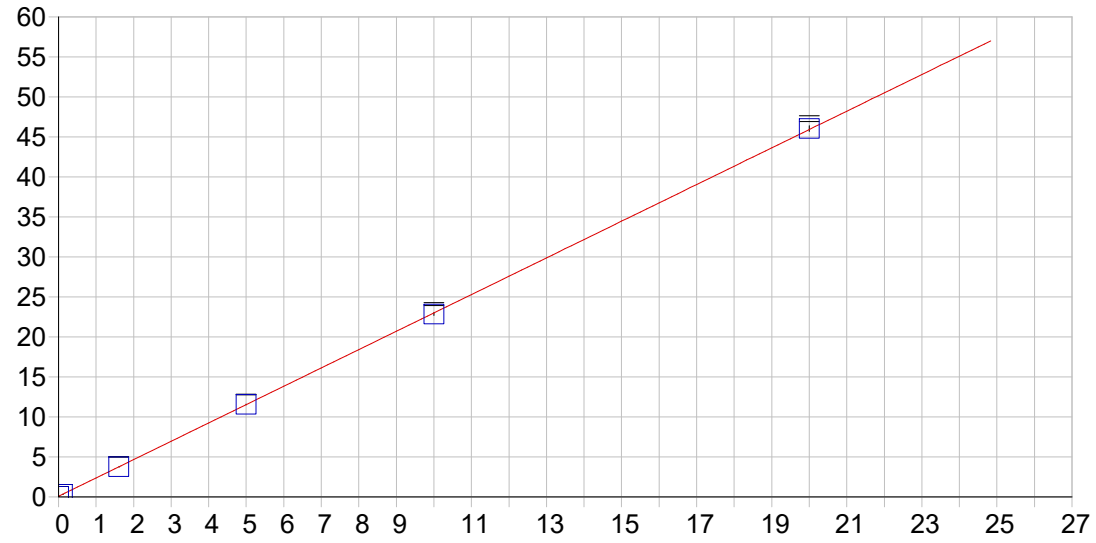



**Al 396.152 { 85}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000594 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.074441 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999951 | Status: | OK. |
| Std Error of Est: | 0.000056 | | |
| Predicted MDL: | 0.010514 | | |
| Predicted MQL: | 0.035048 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00001 | -.000 | .000 | .00059 | .001 | 1 |
| S1 | .10000 | .10567 | .006 | 5.67 | .00904 | .001 | 1 |
| S3 | 5.0000 | 4.9609 | -.039 | -.782 | .37711 | .001 | 1 |
| S4 | 10.000 | 9.8646 | -.135 | -1.35 | .74937 | .003 | 1 |
| S5 | 20.000 | 20.155 | .155 | .777 | 1.5299 | .003 | 1 |
| S2 | 1.6000 | 1.6131 | .013 | .816 | .12298 | .000 | 1 |

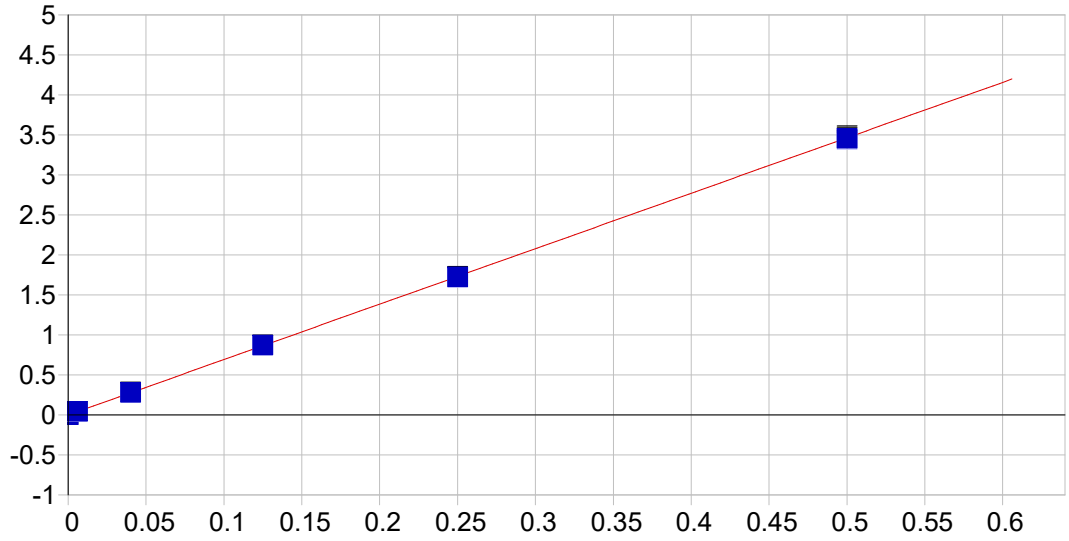



**Ba 493.409 { 68}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.078271 | Re-Slope: | 1.000000 |
| A1 (Gain): | 2.292122 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999992 | Status: | OK. |
| Std Error of Est: | 0.000686 | | |
| Predicted MDL: | 0.000977 | | |
| Predicted MQL: | 0.003257 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .07827 | .003 | 1 |
| S1 | .10000 | .09945 | -.001 | -.547 | .30623 | .001 | 1 |
| S3 | 5.0000 | 5.0025 | .003 | .051 | 11.545 | .038 | 1 |
| S4 | 10.000 | 9.9366 | -.063 | -.634 | 22.854 | .166 | 1 |
| S5 | 20.000 | 20.052 | .052 | .259 | 46.039 | .352 | 1 |
| S2 | 1.6000 | 1.6096 | .010 | .602 | 3.7677 | .010 | 1 |

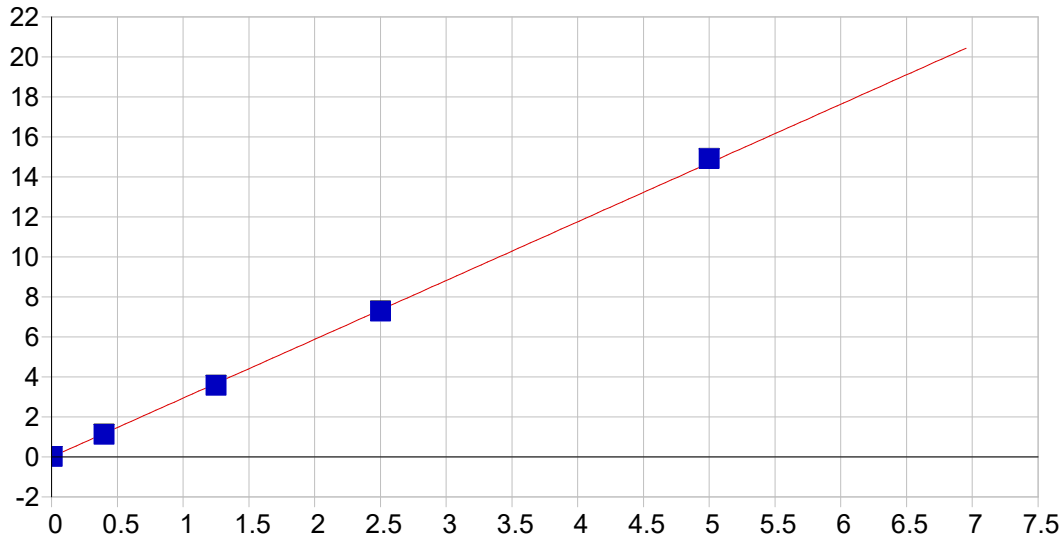



**Be 234.861 {144}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.001333 | Re-Slope: | 1.000000 |
| A1 (Gain): | 6.930431 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999976 | Status: | OK. |
| Std Error of Est: | 0.000138 | | |
| Predicted MDL: | 0.000068 | | |
| Predicted MQL: | 0.000227 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | -.00134 | .000 | 1 |
| S1 | .00600 | .00628 | .000 | 4.63 | .04186 | .001 | 1 |
| S3 | .12500 | .12592 | .001 | .737 | .86747 | .001 | 1 |
| S4 | .25000 | .24888 | -.001 | -.448 | 1.7157 | .009 | 1 |
| S5 | .50000 | .49908 | -.001 | -.184 | 3.4420 | .031 | 1 |
| S2 | .04000 | .04084 | .001 | 2.11 | .28048 | .003 | 1 |

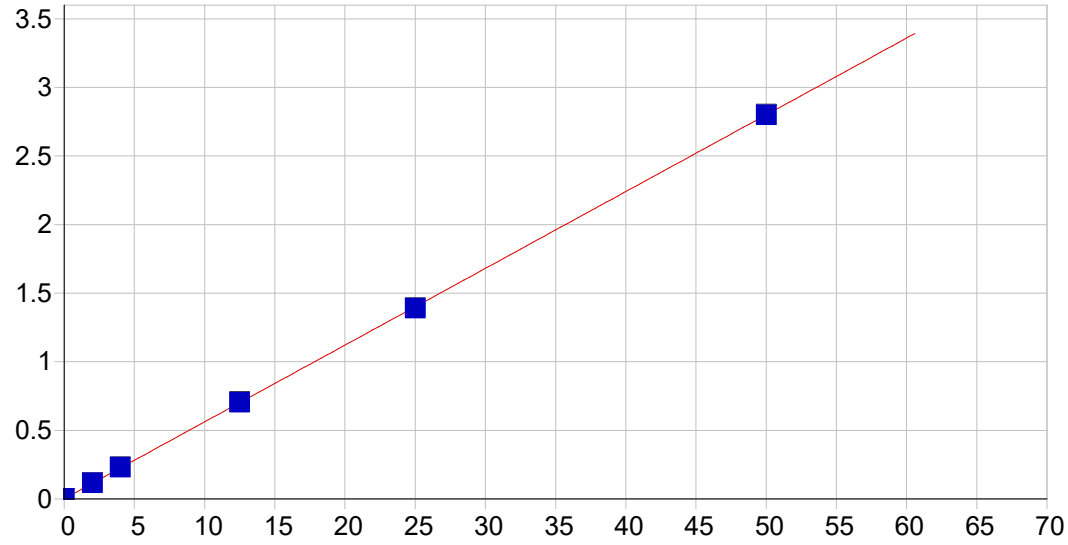



**Cd 226.502 {449}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000412 | Re-Slope: | 1.000000 |
| A1 (Gain): | 2.939402 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999846 | Status: | OK. |
| Std Error of Est: | 0.000469 | | |
| Predicted MDL: | 0.000071 | | |
| Predicted MQL: | 0.000235 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00041 | .000 | 1 |
| S1 | .00600 | .00574 | -.000 | -4.26 | .01653 | .000 | 1 |
| S3 | 1.2500 | 1.2167 | -.033 | -2.66 | 3.5784 | .006 | 1 |
| S4 | 2.5000 | 2.4774 | -.023 | -.903 | 7.2866 | .002 | 1 |
| S5 | 5.0000 | 5.0726 | .073 | 1.45 | 14.920 | .016 | 1 |
| S2 | .40000 | .38354 | -.016 | -4.12 | 1.1277 | .002 | 1 |

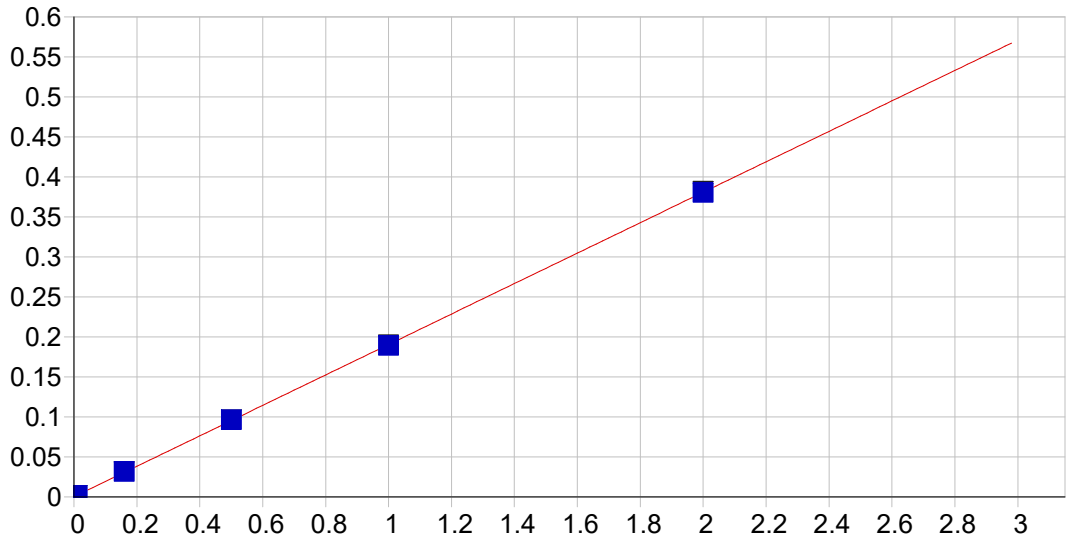



**Ca 373.690 { 90}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.002125 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.055961 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999974 | Status: | OK. |
| Std Error of Est: | 0.000214 | | |
| Predicted MDL: | 0.011013 | | |
| Predicted MQL: | 0.036709 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00009 | -.000 | .000 | .00212 | .000 | 1 |
| S2 | 4.0000 | 4.0850 | .085 | 2.12 | .23073 | .001 | 1 |
| S3 | 12.500 | 12.559 | .059 | .471 | .70494 | .001 | 1 |
| S4 | 25.000 | 24.811 | -.189 | -.756 | 1.3906 | .001 | 1 |
| S5 | 50.000 | 49.993 | -.007 | -.015 | 2.7998 | .004 | 1 |
| S1 | 2.0000 | 2.0524 | .052 | 2.62 | .11698 | .001 | 1 |

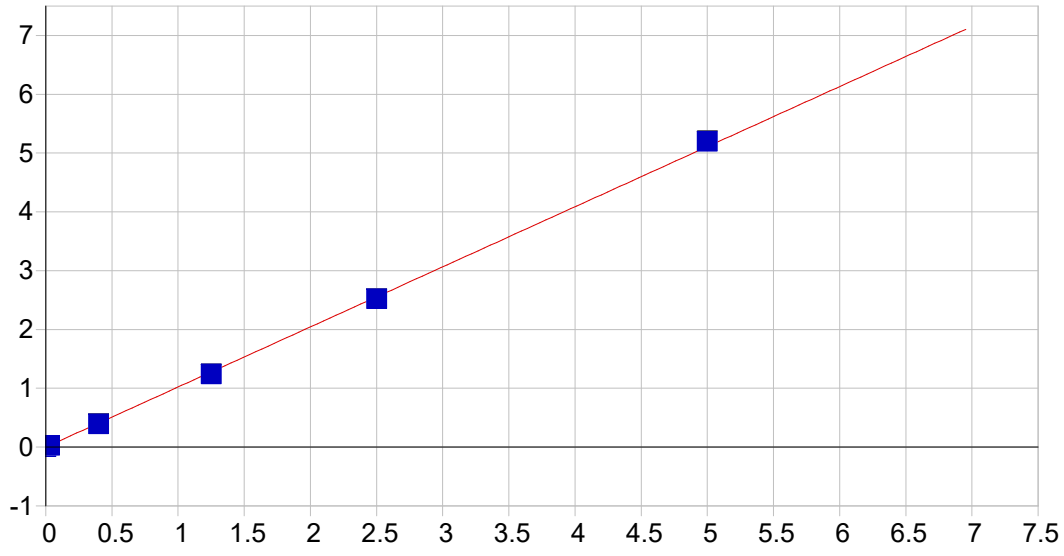



**Cr 267.716 {126}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000230 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.190301 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999974 | Status: | OK. |
| Std Error of Est: | 0.000010 | | |
| Predicted MDL: | 0.000335 | | |
| Predicted MQL: | 0.001118 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00023 | .000 | 1 |
| S1 | .01000 | .01000 | -.000 | -.017 | .00213 | .000 | 1 |
| S3 | .50000 | .50455 | .005 | .910 | .09628 | .000 | 1 |
| S4 | 1.0000 | .99329 | -.007 | -.671 | .18933 | .001 | 1 |
| S5 | 2.0000 | 1.9981 | -.002 | -.093 | .38063 | .001 | 1 |
| S2 | .16000 | .16402 | .004 | 2.51 | .03145 | .000 | 1 |

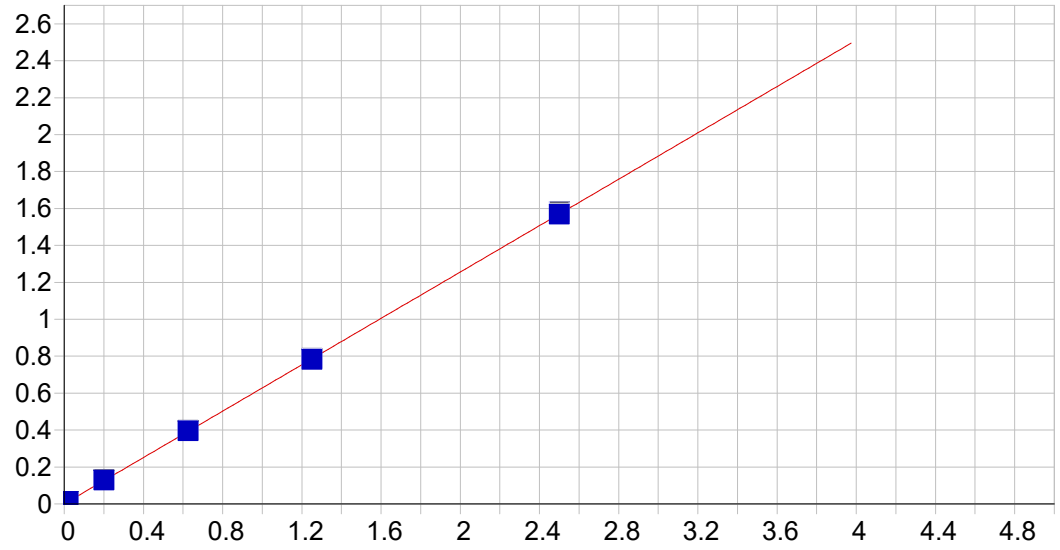



**Co 228.616 {448}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000073 | Re-Slope: | 1.000000 |
| A1 (Gain): | 1.021839 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999806 | Status: | OK. |
| Std Error of Est: | 0.000409 | | |
| Predicted MDL: | 0.000180 | | |
| Predicted MQL: | 0.000599 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00007 | .000 | 1 |
| S1 | .03000 | .02954 | -.000 | -1.53 | .02999 | .000 | 1 |
| S3 | 1.2500 | 1.2129 | -.037 | -2.97 | 1.2415 | .002 | 1 |
| S4 | 2.5000 | 2.4648 | -.035 | -1.41 | 2.5229 | .001 | 1 |
| S5 | 5.0000 | 5.0865 | .086 | 1.73 | 5.2062 | .002 | 1 |
| S2 | .40000 | .38626 | -.014 | -3.43 | .39532 | .001 | 1 |

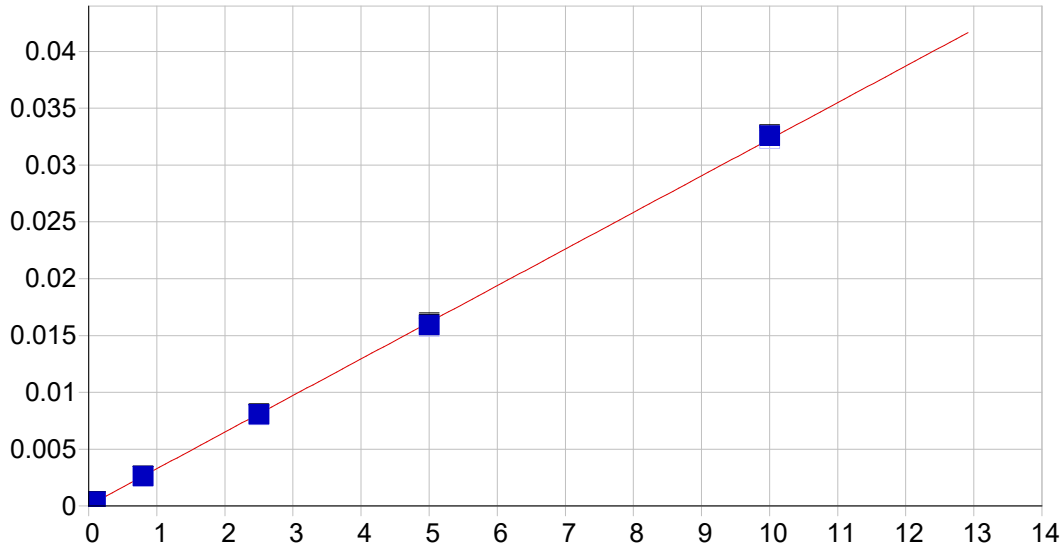



**Cu 224.700 {450}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000393 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.627823 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999975 | Status: | OK. |
| Std Error of Est: | 0.000053 | | |
| Predicted MDL: | 0.000402 | | |
| Predicted MQL: | 0.001339 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00039 | .000 | 1 |
| S1 | .02000 | .02141 | .001 | 7.03 | .01397 | .000 | 1 |
| S3 | .62500 | .62772 | .003 | .435 | .39776 | .001 | 1 |
| S4 | 1.2500 | 1.2438 | -.006 | -.497 | .78781 | .000 | 1 |
| S5 | 2.5000 | 2.4978 | -.002 | -.088 | 1.5816 | .001 | 1 |
| S2 | .20000 | .20429 | .004 | 2.14 | .12970 | .000 | 1 |

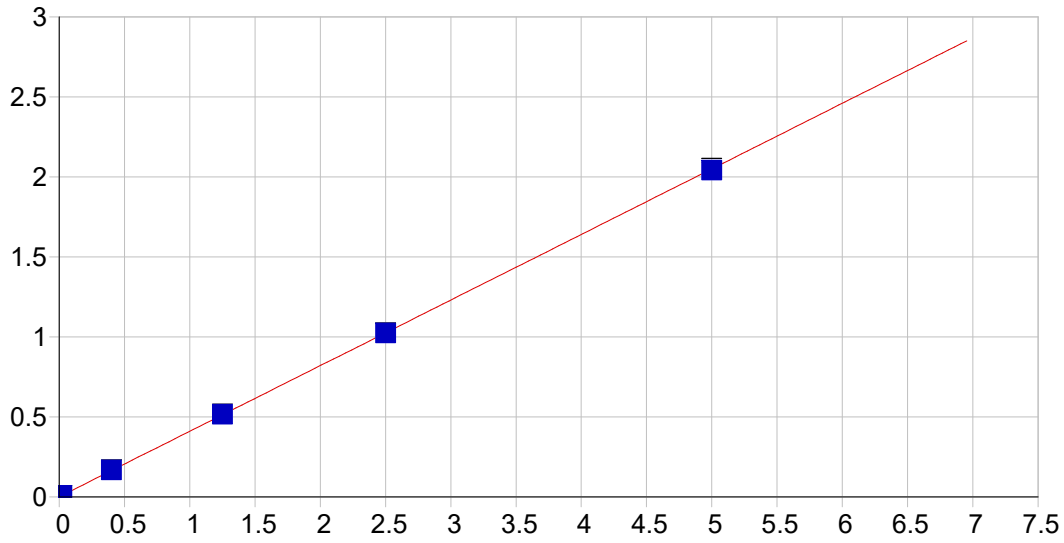



**Fe 240.488 {140}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000048 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.003223 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999936 | Status: | OK. |
| Std Error of Est: | 0.000002 | | |
| Predicted MDL: | 0.006377 | | |
| Predicted MQL: | 0.021256 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | .00005 | .000 | 1 |
| S1 | .10000 | .09508 | -.005 | -4.92 | .00035 | .000 | 1 |
| S3 | 2.5000 | 2.4875 | -.013 | -.501 | .00800 | .000 | 1 |
| S4 | 5.0000 | 4.9250 | -.075 | -1.50 | .01578 | .000 | 1 |
| S5 | 10.000 | 10.094 | .094 | .941 | .03230 | .000 | 1 |
| S2 | .80000 | .79838 | -.002 | -.203 | .00260 | .000 | 1 |

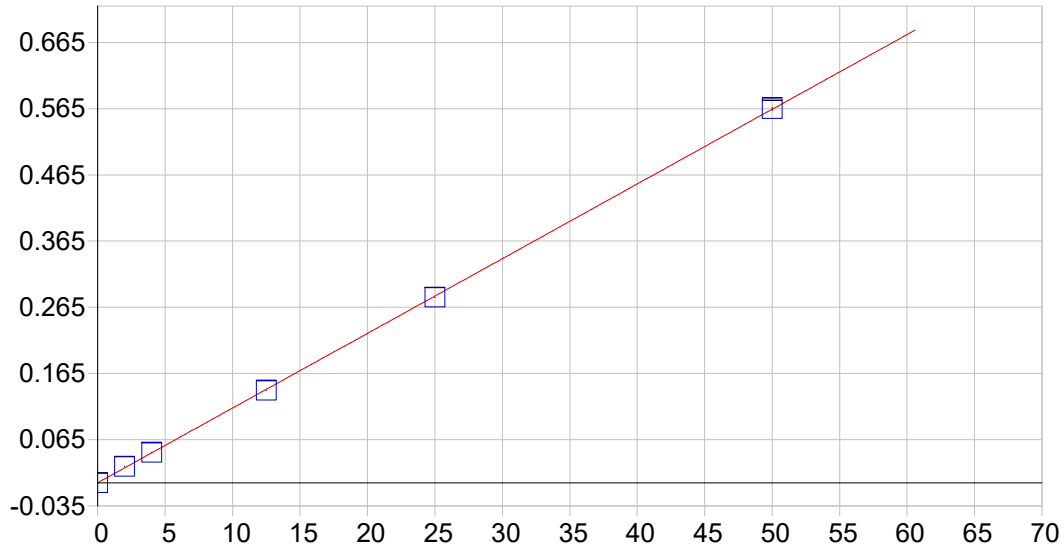



**Mn 257.610 {131}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000381 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.409953 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999971 | Status: | OK. |
| Std Error of Est: | 0.000052 | | |
| Predicted MDL: | 0.000561 | | |
| Predicted MQL: | 0.001869 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00038 | .000 | 1 |
| S1 | .02000 | .02147 | .001 | 7.36 | .00919 | .000 | 1 |
| S3 | 1.2500 | 1.2601 | .010 | .810 | .51707 | .001 | 1 |
| S4 | 2.5000 | 2.4971 | -.003 | -.114 | 1.0243 | .002 | 1 |
| S5 | 5.0000 | 4.9808 | -.019 | -.384 | 2.0427 | .012 | 1 |
| S2 | .40000 | .41046 | .010 | 2.61 | .16868 | .001 | 1 |

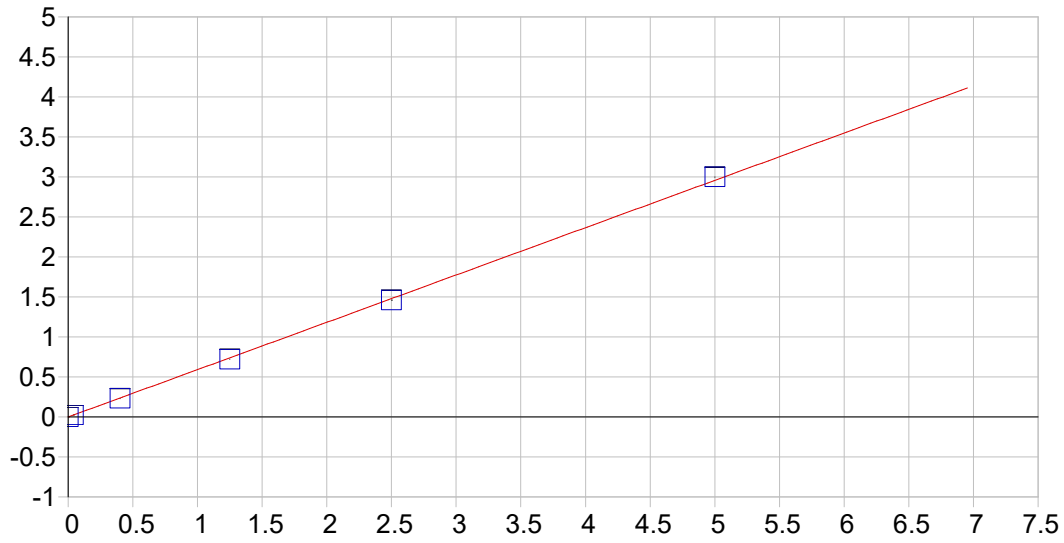



**Mg 279.079 {121}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000060 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.011284 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999881 | Status: | OK. |
| Std Error of Est: | 0.000092 | | |
| Predicted MDL: | 0.026174 | | |
| Predicted MQL: | 0.087245 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00019 | -.000 | .000 | -.00006 | .000 | 1 |
| S2 | 4.0000 | 4.0716 | .072 | 1.79 | .04588 | .000 | 1 |
| S3 | 12.500 | 12.366 | -.134 | -1.07 | .13948 | .000 | 1 |
| S4 | 25.000 | 24.814 | -.186 | -.745 | .27993 | .000 | 1 |
| S5 | 50.000 | 50.058 | .058 | .117 | .56479 | .002 | 1 |
| S1 | 2.0000 | 2.1901 | .190 | 9.51 | .02465 | .000 | 1 |

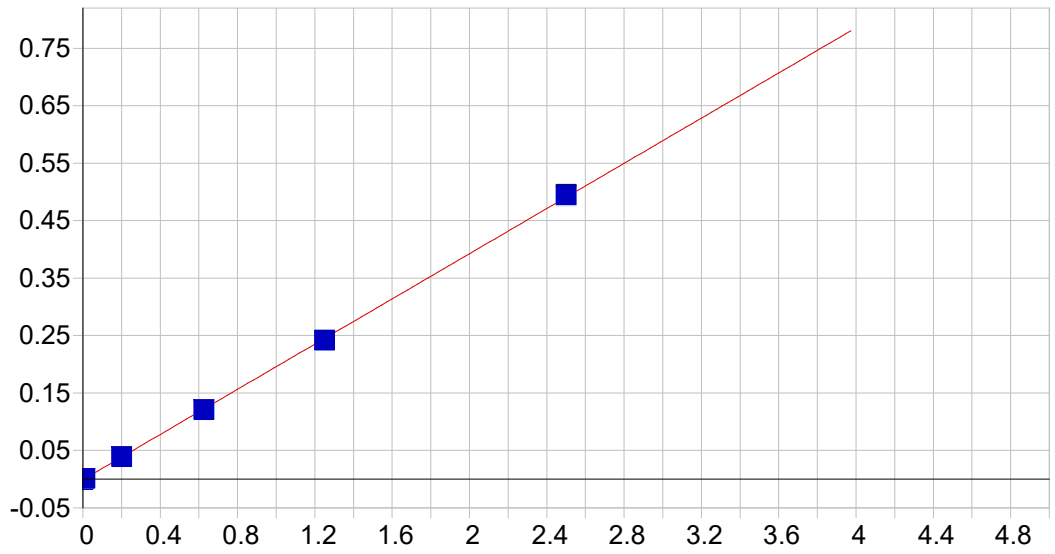



**Ni 231.604 {446}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000513 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.591481 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999874 | Status: | OK. |
| Std Error of Est: | 0.000220 | | |
| Predicted MDL: | 0.000332 | | |
| Predicted MQL: | 0.001105 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00051 | .000 | 1 |
| S1 | .04000 | .03971 | -.000 | -.735 | .02297 | .000 | 1 |
| S3 | 1.2500 | 1.2210 | -.029 | -2.32 | .72169 | .001 | 1 |
| S4 | 2.5000 | 2.4687 | -.031 | -1.25 | 1.4597 | .001 | 1 |
| S5 | 5.0000 | 5.0705 | .071 | 1.41 | 2.9986 | .001 | 1 |
| S2 | .40000 | .39008 | -.010 | -2.48 | .23021 | .000 | 1 |

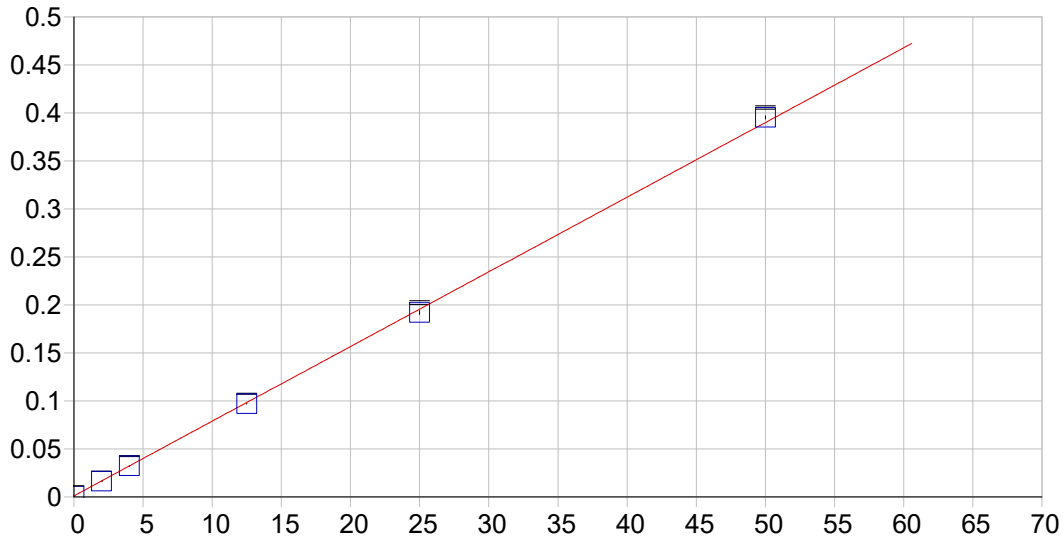



**Ag 328.068 {103}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000846 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.196641 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999950 | Status: | OK. |
| Std Error of Est: | 0.000016 | | |
| Predicted MDL: | 0.000513 | | |
| Predicted MQL: | 0.001710 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00085 | .000 | 1 |
| S1 | .01000 | .00974 | -.000 | -2.59 | .00105 | .000 | 1 |
| S3 | .62500 | .61955 | -.005 | -.872 | .12039 | .000 | 1 |
| S4 | 1.2500 | 1.2335 | -.016 | -1.32 | .24052 | .000 | 1 |
| S5 | 2.5000 | 2.5202 | .020 | .810 | .49235 | .001 | 1 |
| S2 | .20000 | .20196 | .002 | .980 | .03868 | .000 | 1 |

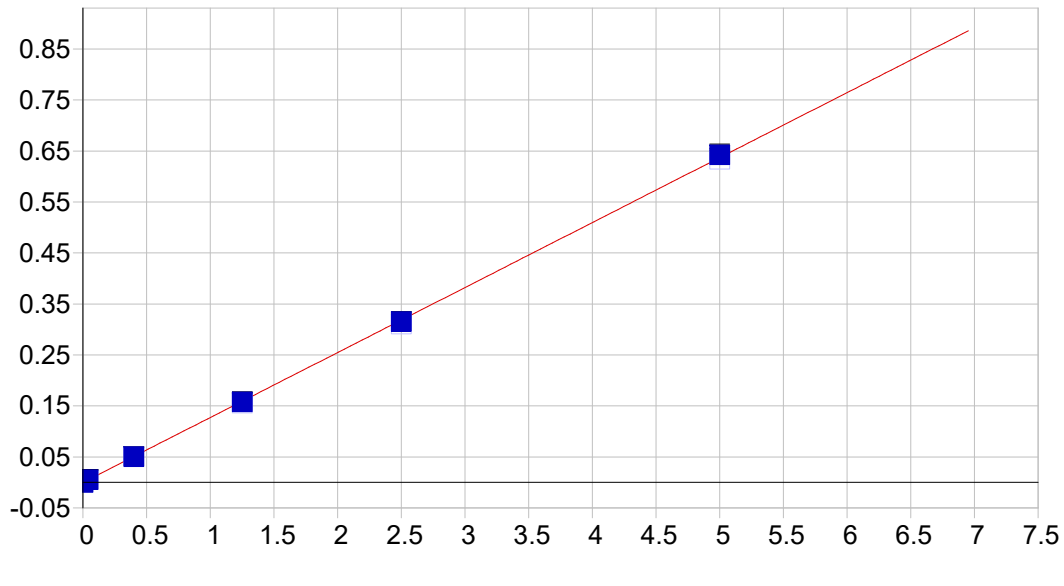



**Na 589.592 { 57}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.001142 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.007777 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999887 | Status: | OK. |
| Std Error of Est: | 0.000062 | | |
| Predicted MDL: | 0.018002 | | |
| Predicted MQL: | 0.060006 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00008 | .000 | .000 | .00114 | .000 | 1 |
| S2 | 4.0000 | 3.9950 | -.005 | -.124 | .03221 | .001 | 1 |
| S3 | 12.500 | 12.333 | -.167 | -1.33 | .09706 | .000 | 1 |
| S4 | 25.000 | 24.537 | -.463 | -1.85 | .19197 | .002 | 1 |
| S5 | 50.000 | 50.679 | .679 | 1.36 | .39528 | .002 | 1 |
| S1 | 2.0000 | 1.9556 | -.044 | -2.22 | .01635 | .000 | 1 |

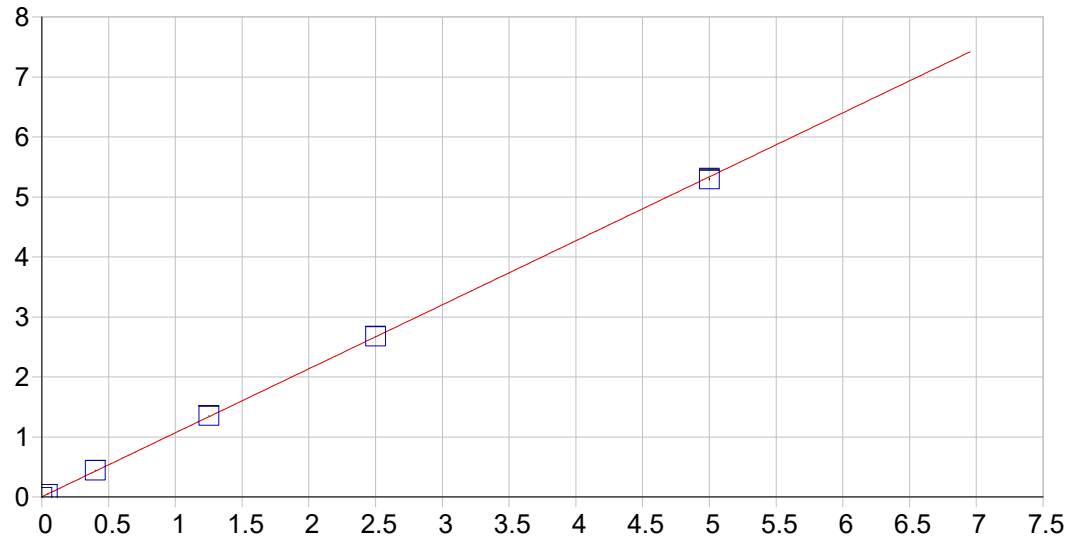



**V 292.402 {115}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000137 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.127453 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999954 | Status: | OK. |
| Std Error of Est: | 0.000028 | | |
| Predicted MDL: | 0.002723 | | |
| Predicted MQL: | 0.009078 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00014 | .000 | 1 |
| S1 | .04000 | .04068 | .001 | 1.70 | .00486 | .000 | 1 |
| S3 | 1.2500 | 1.2378 | -.012 | -.979 | .15530 | .000 | 1 |
| S4 | 2.5000 | 2.4734 | -.027 | -1.06 | .31046 | .000 | 1 |
| S5 | 5.0000 | 5.0424 | .042 | .848 | .63324 | .002 | 1 |
| S2 | .40000 | .39577 | -.004 | -1.06 | .04956 | .000 | 1 |

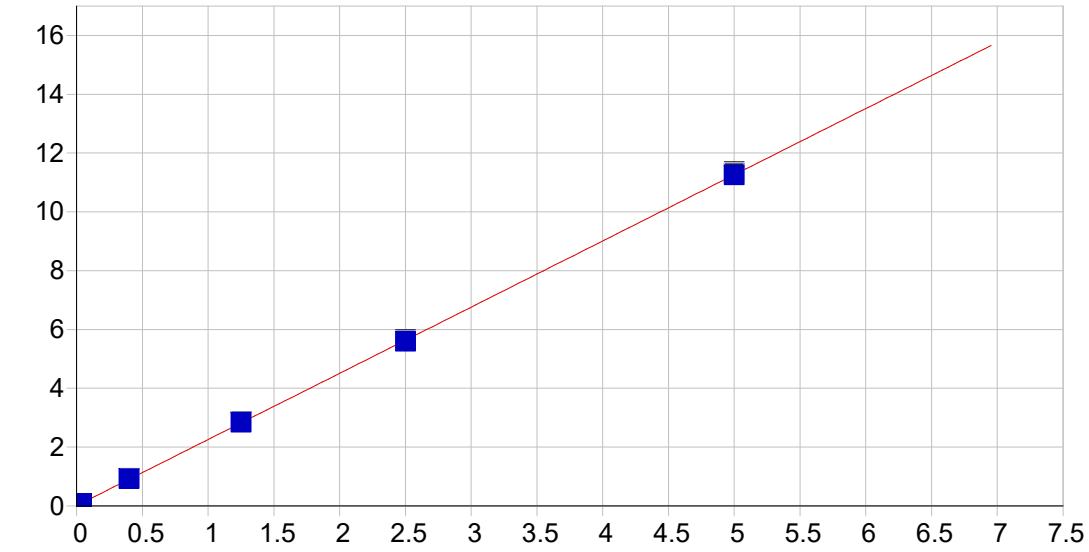



**Zn 206.200 {464}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.002404 | Re-Slope: | 1.000000 |
| A1 (Gain): | 1.066565 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999950 | Status: | OK. |
| Std Error of Est: | 0.000251 | | |
| 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 | .00240 | .000 | 1 |
| S1 | .04000 | .04095 | .001 | 2.37 | .04608 | .000 | 1 |
| S3 | 1.2500 | 1.2678 | .018 | 1.42 | 1.3546 | .003 | 1 |
| S4 | 2.5000 | 2.5060 | .006 | .240 | 2.6752 | .002 | 1 |
| S5 | 5.0000 | 4.9632 | -.037 | -.736 | 5.2960 | .014 | 1 |
| S2 | .40000 | .41205 | .012 | 3.01 | .44189 | .001 | 1 |

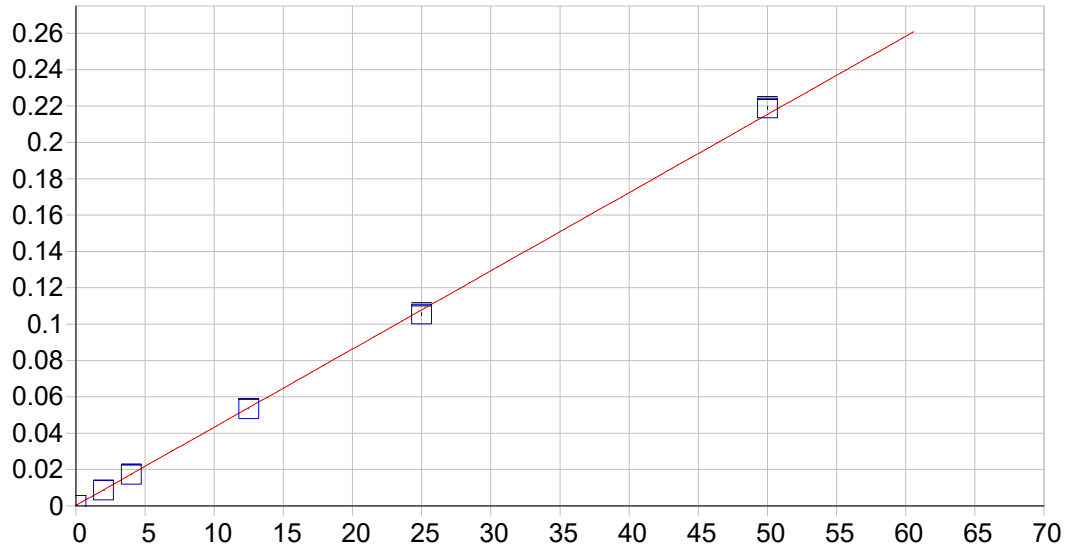



**Zn 213.856 {158}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.006831 | Re-Slope: | 1.000000 |
| A1 (Gain): | 2.251183 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999976 | Status: | OK. |
| Std Error of Est: | 0.000370 | | |
| Predicted MDL: | 0.000239 | | |
| Predicted MQL: | 0.000798 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00683 | .000 | 1 |
| S1 | .04000 | .04054 | .001 | 1.34 | .09872 | .000 | 1 |
| S3 | 1.2500 | 1.2608 | .011 | .863 | 2.8647 | .008 | 1 |
| S4 | 2.5000 | 2.4835 | -.016 | -.659 | 5.6368 | .019 | 1 |
| S5 | 5.0000 | 4.9954 | -.005 | -.092 | 11.331 | .033 | 1 |
| S2 | .40000 | .40976 | .010 | 2.44 | .93555 | .001 | 1 |

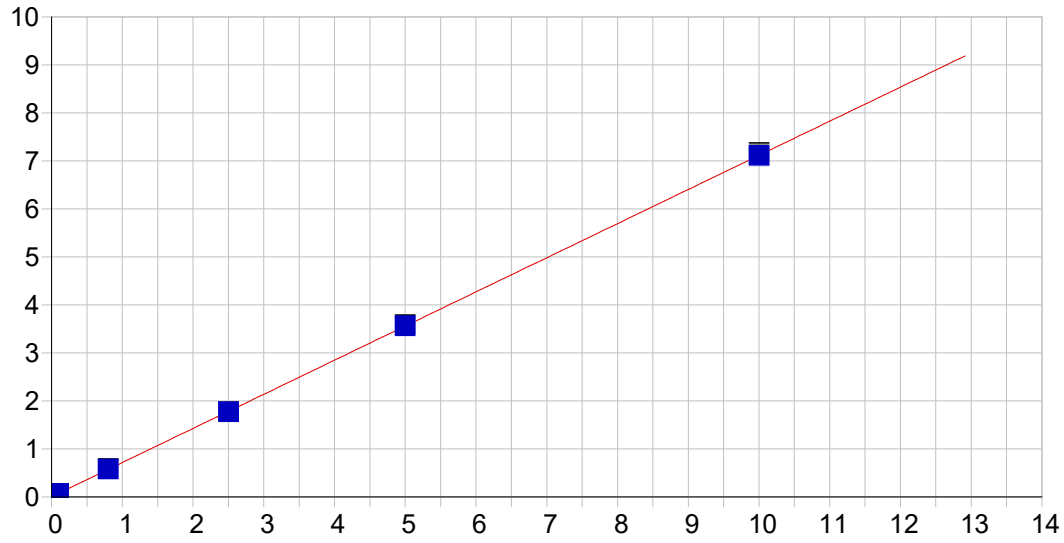



**K 766.490 { 44}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000298 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.004301 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999833 | Status: | OK. |
| Std Error of Est: | 0.000042 | | |
| Predicted MDL: | 0.039314 | | |
| Predicted MQL: | 0.131047 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00013 | .000 | .000 | .00030 | .000 | 1 |
| S2 | 4.0000 | 3.9565 | -.044 | -1.09 | .01732 | .000 | 1 |
| S3 | 12.500 | 12.346 | -.154 | -1.23 | .05340 | .000 | 1 |
| S4 | 25.000 | 24.443 | -.557 | -2.23 | .10543 | .001 | 1 |
| S5 | 50.000 | 50.827 | .827 | 1.65 | .21891 | .001 | 1 |
| S1 | 2.0000 | 1.9268 | -.073 | -3.66 | .00859 | .000 | 1 |

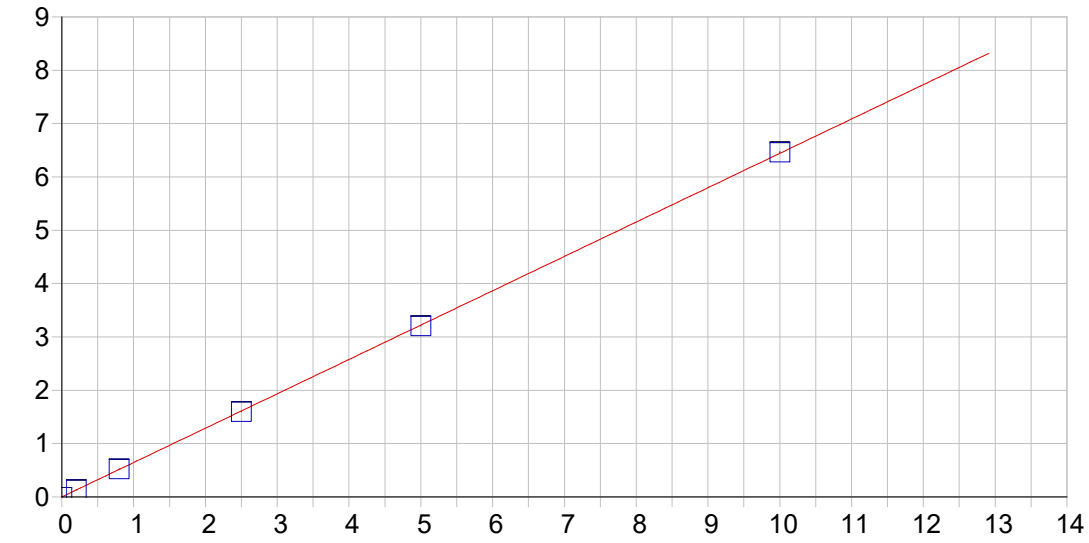



**B 249.678 {135}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.004132 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.711180 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999995 | Status: | OK. |
| Std Error of Est: | 0.000115 | | |
| Predicted MDL: | 0.000714 | | |
| Predicted MQL: | 0.002380 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00413 | .000 | 1 |
| S1 | .10000 | .10109 | .001 | 1.09 | .07561 | .001 | 1 |
| S3 | 2.5000 | 2.4838 | -.016 | -.649 | 1.7641 | .002 | 1 |
| S4 | 5.0000 | 5.0098 | .010 | .197 | 3.5542 | .018 | 1 |
| S5 | 10.000 | 9.9998 | -.000 | -.002 | 7.0901 | .056 | 1 |
| S2 | .80000 | .80551 | .006 | .689 | .57494 | .007 | 1 |

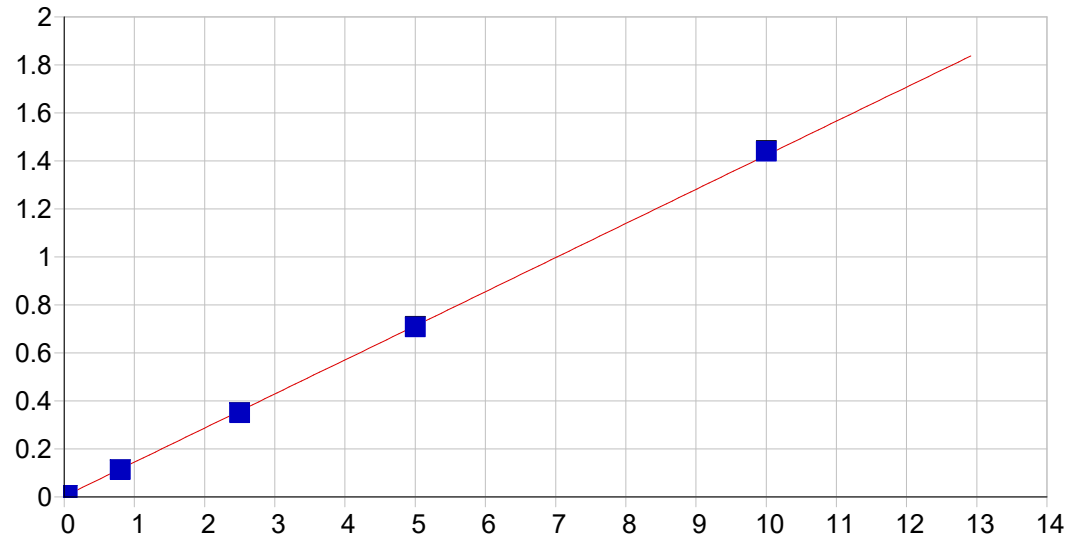



**Mo 202.030 {467}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000550 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.644145 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999986 | Status: | OK. |
| Std Error of Est: | 0.000254 | | |
| Predicted MDL: | 0.000248 | | |
| Predicted MQL: | 0.000826 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00055 | .000 | 1 |
| S1 | .20000 | .20324 | .003 | 1.62 | .13146 | .000 | 1 |
| S3 | 2.5000 | 2.4791 | -.021 | -.837 | 1.5974 | .003 | 1 |
| S4 | 5.0000 | 4.9764 | -.024 | -.472 | 3.2061 | .002 | 1 |
| S5 | 10.000 | 10.034 | .034 | .341 | 6.4640 | .010 | 1 |
| S2 | .80000 | .80718 | .007 | .897 | .52049 | .001 | 1 |

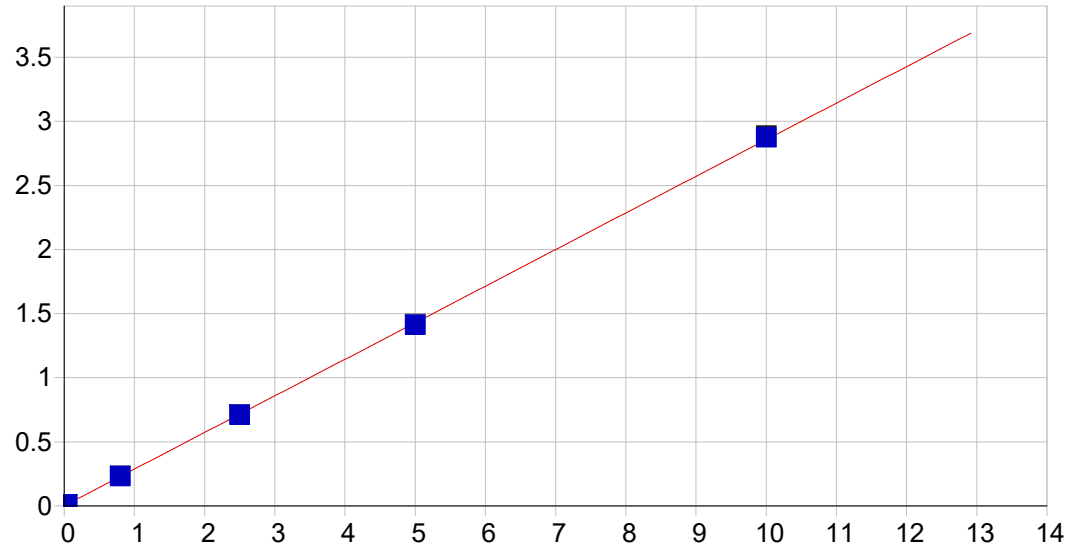



**Sn 189.989 {478}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.002565 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.142076 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999890 | Status: | OK. |
| Std Error of Est: | 0.000070 | | |
| Predicted MDL: | 0.000610 | | |
| Predicted MQL: | 0.002035 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | .00257 | .000 | 1 |
| S1 | .04000 | .03544 | -.005 | -11.4 | .00759 | .000 | 1 |
| S3 | 2.5000 | 2.4472 | -.053 | -2.11 | .34989 | .001 | 1 |
| S4 | 5.0000 | 4.9637 | -.036 | -.726 | .70706 | .003 | 1 |
| S5 | 10.000 | 10.118 | .118 | 1.18 | 1.4386 | .003 | 1 |
| S2 | .80000 | .77581 | -.024 | -3.02 | .11267 | .000 | 1 |

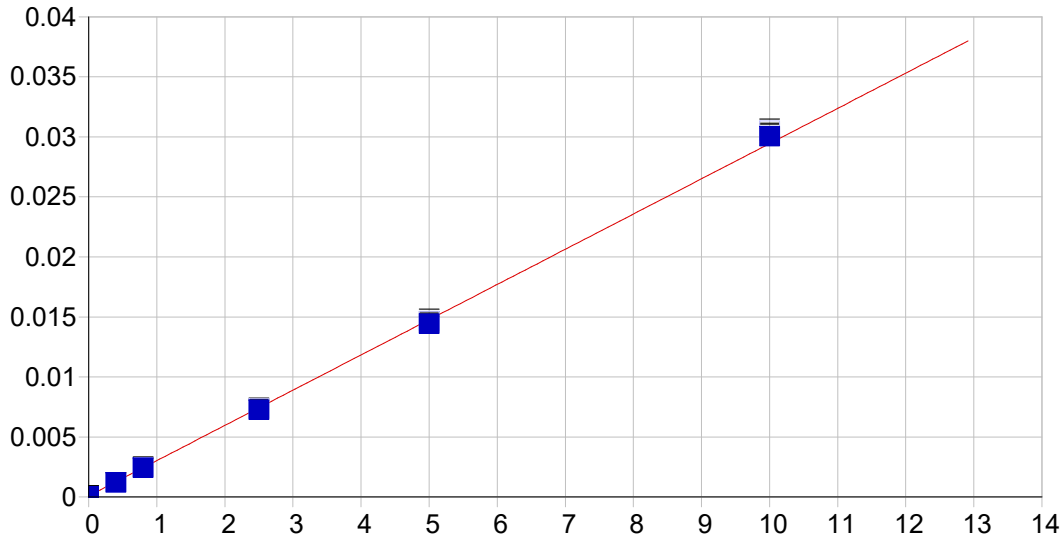



**Ti 336.121 {100}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.001703 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.285509 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999966 | Status: | OK. |
| Std Error of Est: | 0.000078 | | |
| Predicted MDL: | 0.001566 | | |
| Predicted MQL: | 0.005219 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00170 | .000 | 1 |
| S1 | .04000 | .03786 | -.002 | -5.35 | .01250 | .000 | 1 |
| S3 | 2.5000 | 2.4832 | -.017 | -.673 | .71041 | .002 | 1 |
| S4 | 5.0000 | 4.9474 | -.053 | -1.05 | 1.4137 | .003 | 1 |
| S5 | 10.000 | 10.067 | .067 | .674 | 2.8750 | .010 | 1 |
| S2 | .80000 | .80415 | .004 | .519 | .23121 | .001 | 1 |

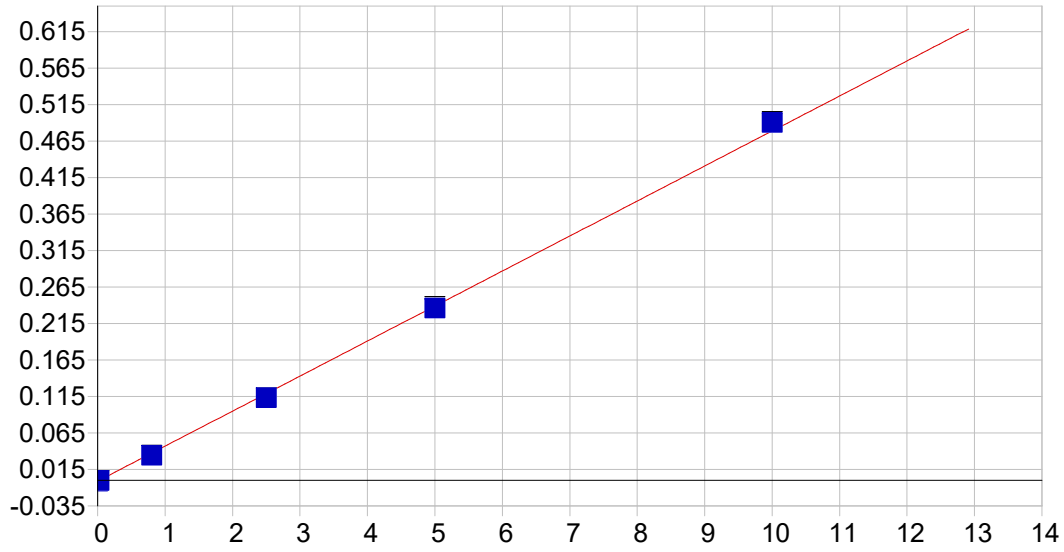



**Si 288.158 {117}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000087 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.002936 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999738 | Status: | OK. |
| Std Error of Est: | 0.000007 | | |
| Predicted MDL: | 0.012536 | | |
| Predicted MQL: | 0.041786 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00004 | .000 | .000 | .00009 | .000 | 1 |
| S1 | .40000 | .37490 | -.025 | -6.28 | .00119 | .000 | 1 |
| S3 | 2.5000 | 2.4406 | -.059 | -2.37 | .00736 | .000 | 1 |
| S4 | 5.0000 | 4.8837 | -.116 | -2.33 | .01464 | .000 | 1 |
| S5 | 10.000 | 10.208 | .208 | 2.08 | .03049 | .000 | 1 |
| S2 | .80000 | .79269 | -.007 | -.913 | .00245 | .000 | 1 |

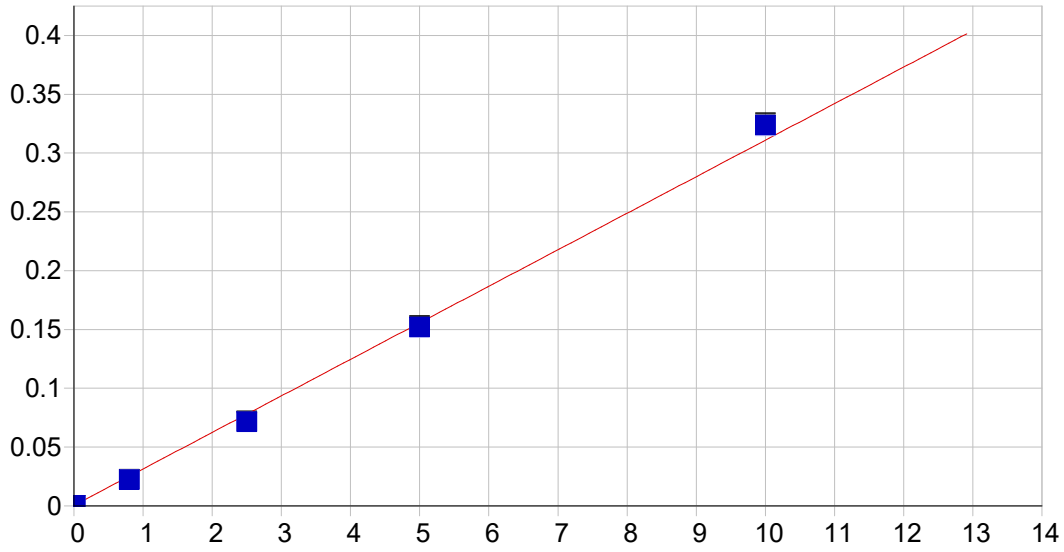



**P 177.495 {490}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.001091 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.047991 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999531 | Status: | OK. |
| Std Error of Est: | 0.000034 | | |
| Predicted MDL: | 0.001549 | | |
| Predicted MQL: | 0.005164 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00109 | .000 | 1 |
| S1 | .02000 | .01931 | -.001 | -3.44 | -.00016 | .000 | 1 |
| S3 | 2.5000 | 2.3788 | -.121 | -4.85 | .11305 | .001 | 1 |
| S4 | 5.0000 | 4.9426 | -.057 | -1.15 | .23607 | .002 | 1 |
| S5 | 10.000 | 10.241 | .241 | 2.41 | .49033 | .001 | 1 |
| S2 | .80000 | .73802 | -.062 | -7.75 | .03432 | .000 | 1 |

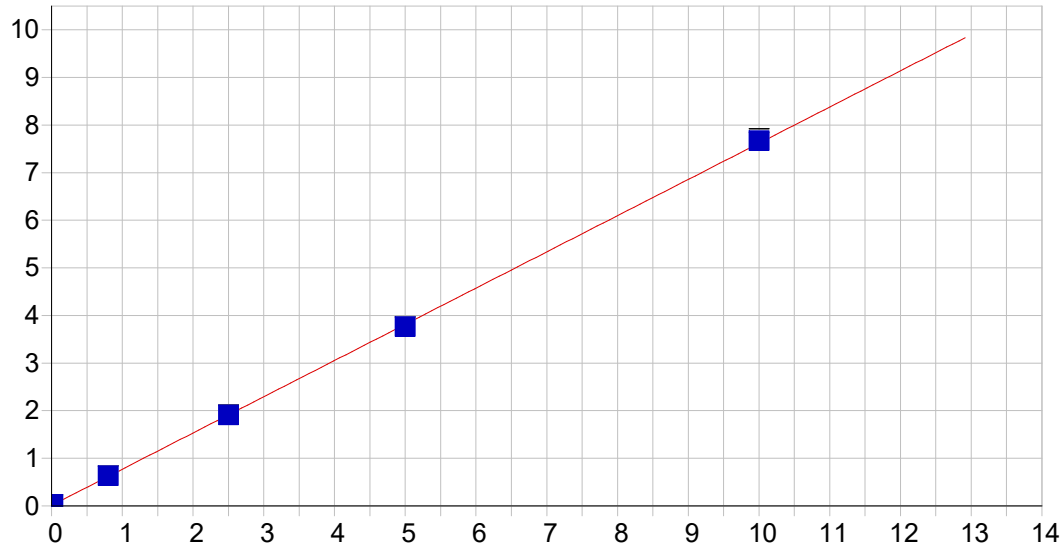



**S 182.034 {485}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000357 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.031061 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.998697 | Status: | OK. |
| Std Error of Est: | 0.000037 | | |
| Predicted MDL: | 0.002592 | | |
| Predicted MQL: | 0.008640 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | .00036 | .000 | 1 |
| S1 | .02000 | .01704 | -.003 | -14.8 | .00086 | .000 | 1 |
| S3 | 2.5000 | 2.2931 | -.207 | -8.27 | .07138 | .001 | 1 |
| S4 | 5.0000 | 4.8820 | -.118 | -2.36 | .15159 | .001 | 1 |
| S5 | 10.000 | 10.417 | .417 | 4.17 | .32310 | .002 | 1 |
| S2 | .80000 | .71104 | -.089 | -11.1 | .02238 | .000 | 1 |

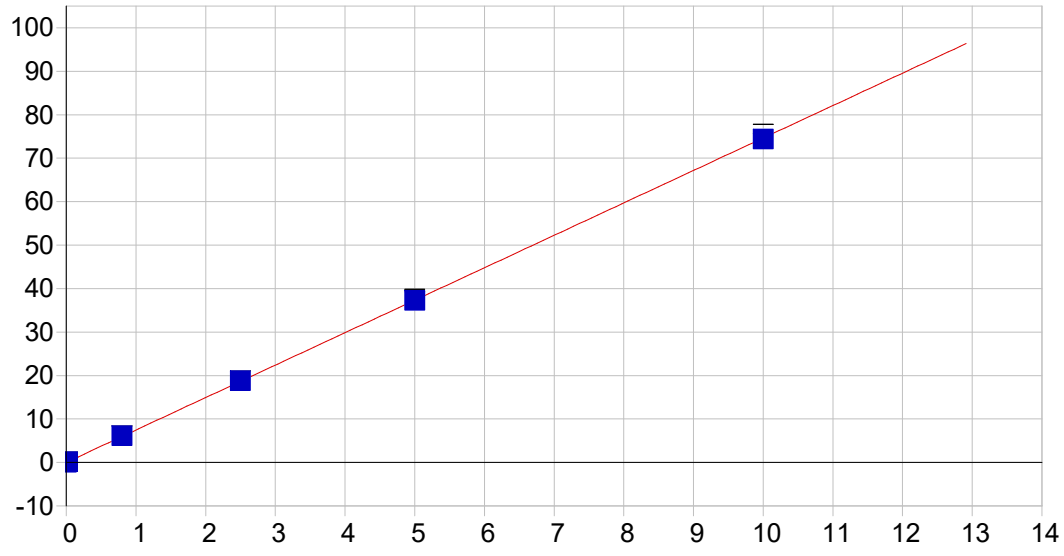



**Li 670.784 { 50}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.010786 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.760780 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999948 | Status: | OK. |
| Std Error of Est: | 0.000182 | | |
| Predicted MDL: | 0.001894 | | |
| Predicted MQL: | 0.006314 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .01079 | .001 | 1 |
| S5 | 10.000 | 10.066 | .066 | .660 | 7.6749 | .040 | 1 |
| S4 | 5.0000 | 4.9303 | -.070 | -1.39 | 3.7647 | .009 | 1 |
| S3 | 2.5000 | 2.4912 | -.009 | -.353 | 1.9075 | .007 | 1 |
| S1 | .02000 | .01798 | -.002 | -10.1 | .02473 | .001 | 1 |
| S2 | .80000 | .81465 | .015 | 1.83 | .63104 | .002 | 1 |

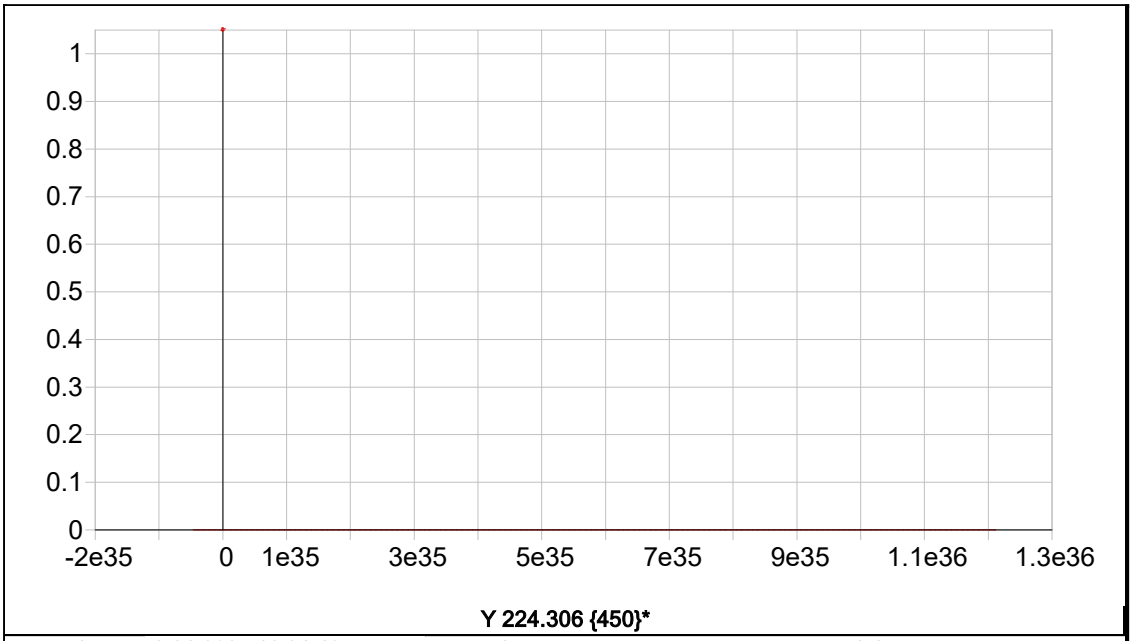



**Sr 407.771 { 83}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000373 | Re-Slope: | 1.000000 |
| A1 (Gain): | 7.463842 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999976 | Status: | OK. |
| Std Error of Est: | 0.001201 | | |
| Predicted MDL: | 0.000101 | | |
| Predicted MQL: | 0.000338 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00037 | .001 | 1 |
| S1 | .02000 | .02015 | .000 | .729 | .15145 | .001 | 1 |
| S3 | 2.5000 | 2.5189 | .019 | .755 | 18.819 | .061 | 1 |
| S4 | 5.0000 | 4.9905 | -.010 | -.191 | 37.284 | .285 | 1 |
| S5 | 10.000 | 9.9685 | -.031 | -.315 | 74.476 | 1.08 | 1 |
| S2 | .80000 | .82197 | .022 | 2.75 | 6.1412 | .014 | 1 |

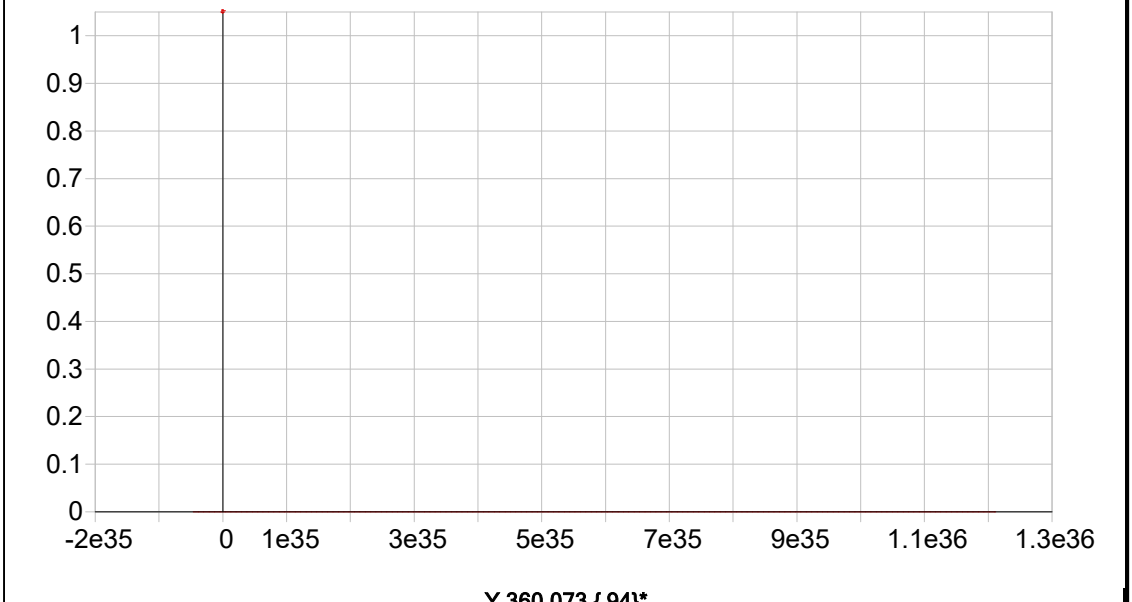



**Y 224.306 {450}***

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/21/2025 16:31:49 | 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}***

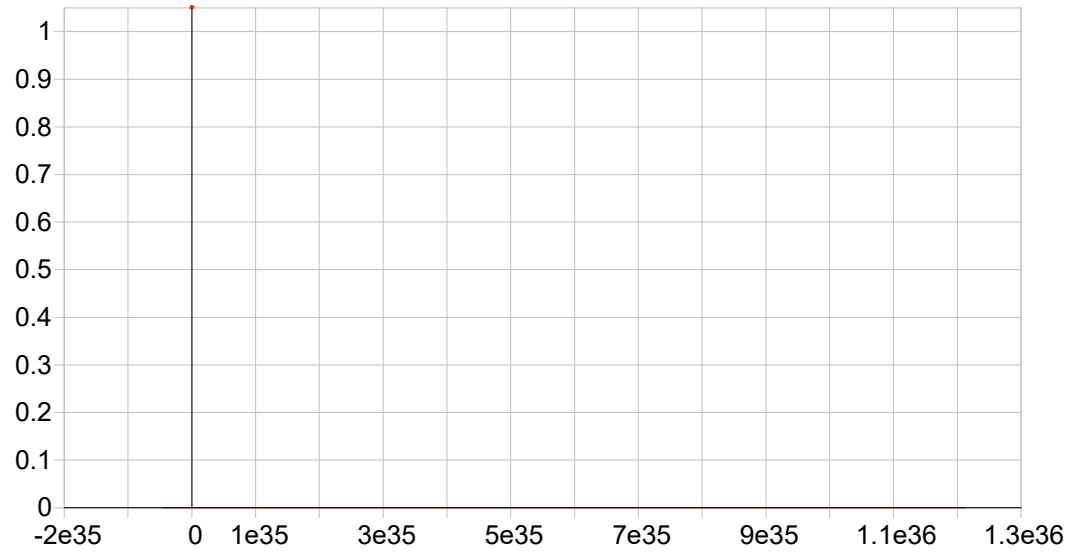
| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | <not fit> | Type of Fit: | Linear | Weighting: | 1/Conc |

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

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

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

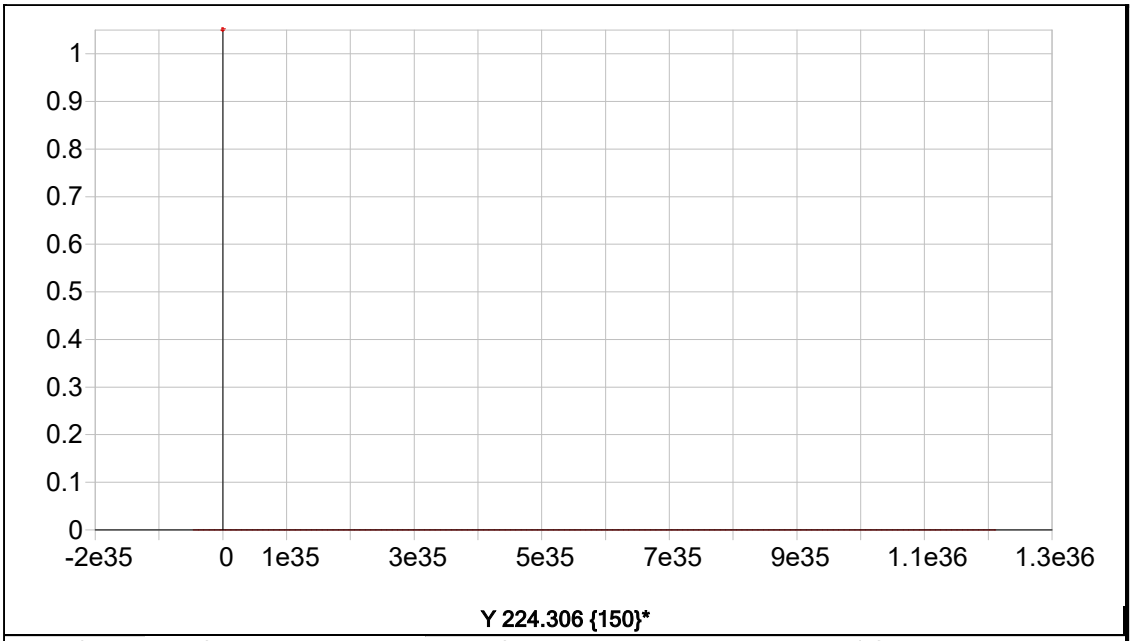
| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|




**Y 371.030 { 91}***

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

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

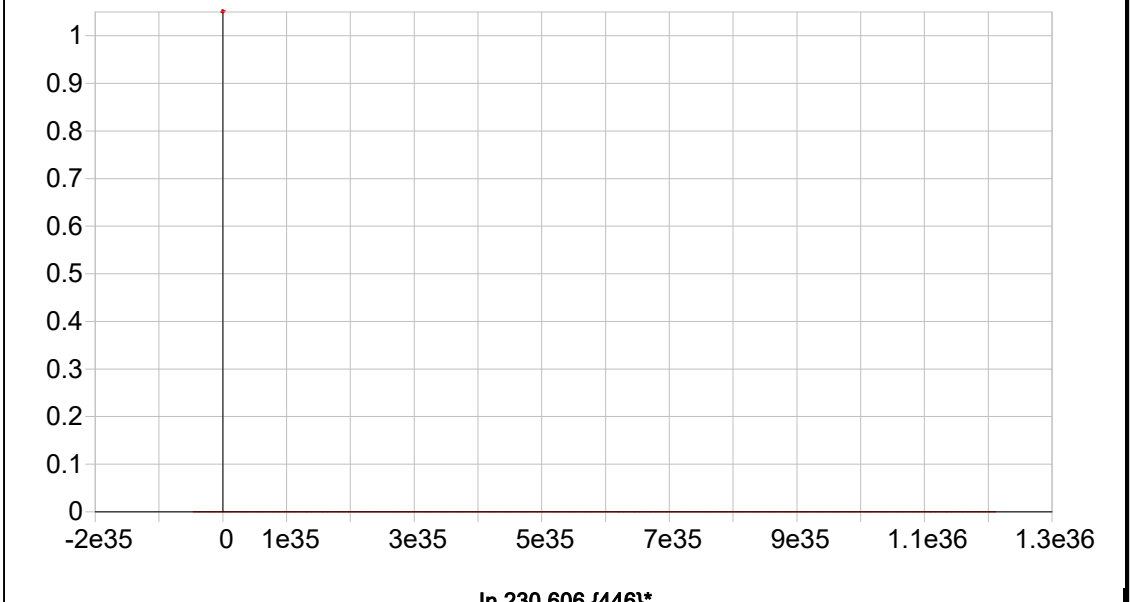



**Y 224.306 {150}***

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

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

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




**In 230.606 {446}***

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

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 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:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: S0 Acquired: 8/21/2025 13:58:53 Type: Cal
Method: 6010-200.7 NEW(v123) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | **-.00011** | **.00055** | **.00019** | **.00035** | **.00066** | **.00059** | **.07827** | **-.00134** |
| Stddev | .00002 | .00006 | .00012 | .00003 | .00015 | .00100 | .00287 | .00019 |
| %RSD | 14.527 | 10.500 | 64.404 | 8.7864 | 22.117 | 167.81 | 3.6731 | 13.924 |
| #1 | -.00009 | .00051 | .00032 | .00038 | .00059 | -.00032 | .07516 | -.00114 |
| #2 | -.00012 | .00061 | .00008 | .00033 | .00056 | .00166 | .08083 | -.00135 |
| #3 | -.00012 | .00053 | .00017 | .00033 | .00083 | .00044 | .07883 | -.00151 |

| Elem | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **-.00041** | **.00212** | **.00023** | **-.00007** | **.00039** | **.00005** | **.00038** | **-.00006** |
| Stddev | .00016 | .00027 | .00005 | .00009 | .00010 | .00001 | .00016 | .00010 |
| %RSD | 39.241 | 12.655 | 20.075 | 125.58 | 25.998 | 17.852 | 41.020 | 156.13 |
| #1 | -.00049 | .00204 | .00028 | -.00016 | .00030 | .00005 | .00037 | -.00009 |
| #2 | -.00051 | .00242 | .00019 | -.00007 | .00050 | .00004 | .00023 | -.00014 |
| #3 | -.00022 | .00191 | .00022 | .00002 | .00038 | .00006 | .00054 | .00005 |

| Elem | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **-.00051** | **-.00085** | **.00114** | **-.00014** | **.00683** | **.00030** | **.00413** | **.00055** |
| Stddev | .00011 | .00012 | .00017 | .00031 | .00040 | .00011 | .00022 | .00011 |
| %RSD | 21.318 | 14.288 | 14.562 | 223.40 | 5.9227 | 37.058 | 5.4346 | 19.704 |
| #1 | -.00057 | -.00079 | .00095 | -.00037 | .00685 | .00042 | .00412 | .00049 |
| #2 | -.00058 | -.00076 | .00122 | .00021 | .00722 | .00021 | .00436 | .00067 |
| #3 | -.00039 | -.00098 | .00126 | -.00025 | .00641 | .00027 | .00391 | .00048 |

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.00257** | **.00170** | **.00009** | **-.00109** | **.00036** | **.01079** | **.00037** |
| Stddev | .00004 | .00009 | .00003 | .00002 | .00008 | .00102 | .00087 |
| %RSD | 1.6478 | 5.1776 | 32.256 | 1.8355 | 22.506 | 9.4309 | 236.17 |
| #1 | .00252 | .00176 | .00012 | -.00110 | .00027 | .01183 | -.00063 |
| #2 | .00260 | .00175 | .00006 | -.00110 | .00037 | .00979 | .00075 |
| #3 | .00258 | .00160 | .00008 | -.00107 | .00043 | .01074 | .00097 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: S0 Acquired: 8/21/2025 13:58:53 Type: Cal
Method: 6010-200.7 NEW(v123) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | 6337.0 | 106380. | 10465. | 4926.5 | 7972.4 |
| Stddev | 10.4 | 404. | 24. | 15.3 | 13.1 |
| %RSD | .16409 | .38000 | .23168 | .31059 | .16460 |
| #1 | 6331.0 | 105930. | 10482. | 4936.7 | 7959.6 |
| #2 | 6331.1 | 106710. | 10437. | 4933.9 | 7971.6 |
| #3 | 6349.0 | 106500. | 10476. | 4908.9 | 7985.9 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: S1 Acquired: 8/21/2025 14:03:14 Type: Cal
Method: 6010-200.7 NEW(v123) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | **.00084** | **.00366** | **.00246** | **.00138** | **.00523** | **.00904** | **.30623** | **.04186** |
| Stddev | .00004 | .00007 | .00008 | .00003 | .00018 | .00054 | .00125 | .00065 |
| %RSD | 4.6650 | 1.9168 | 3.0533 | 2.2737 | 3.3917 | 5.9769 | .40851 | 1.5472 |
| #1 | .00080 | .00374 | .00242 | .00137 | .00543 | .00911 | .30575 | .04140 |
| #2 | .00088 | .00361 | .00255 | .00135 | .00510 | .00846 | .30765 | .04260 |
| #3 | .00085 | .00363 | .00242 | .00142 | .00517 | .00954 | .30529 | .04158 |

| Elem | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.01653** | **.11698** | **.00213** | **.02999** | **.01397** | **.00035** | **.00919** | **.02465** |
| Stddev | .00007 | .00085 | .00005 | .00021 | .00015 | .00002 | .00013 | .00011 |
| %RSD | .42886 | .72409 | 2.4743 | .68837 | 1.0855 | 4.7321 | 1.3846 | .46443 |
| #1 | .01655 | .11681 | .00213 | .02984 | .01383 | .00035 | .00905 | .02460 |
| #2 | .01659 | .11790 | .00208 | .02990 | .01413 | .00037 | .00921 | .02458 |
| #3 | .01645 | .11623 | .00219 | .03022 | .01396 | .00033 | .00930 | .02478 |

| Elem | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.02297** | **.00105** | **.01635** | **.00486** | **.09872** | **.00859** | **.07561** | **.13146** |
| Stddev | .00006 | .00011 | .00012 | .00010 | .00026 | .00001 | .00081 | .00028 |
| %RSD | .24136 | 10.029 | .75391 | 1.9899 | .26662 | .14061 | 1.0695 | .21417 |
| #1 | .02297 | .00101 | .01622 | .00478 | .09844 | .00857 | .07501 | .13178 |
| #2 | .02303 | .00097 | .01638 | .00483 | .09874 | .00858 | .07653 | .13123 |
| #3 | .02292 | .00117 | .01646 | .00496 | .09896 | .00860 | .07529 | .13139 |

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.00759** | **.01250** | **.00119** | **-.00016** | **.00086** | **.02473** | **.15145** |
| Stddev | .00009 | .00041 | .00001 | .00005 | .00004 | .00105 | .00078 |
| %RSD | 1.1435 | 3.2894 | 1.2536 | 30.969 | 4.4265 | 4.2480 | .51516 |
| #1 | .00763 | .01207 | .00118 | -.00012 | .00085 | .02556 | .15097 |
| #2 | .00765 | .01289 | .00121 | -.00016 | .00090 | .02509 | .15235 |
| #3 | .00749 | .01254 | .00118 | -.00022 | .00083 | .02355 | .15104 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: S1 Acquired: 8/21/2025 14:03:14 Type: Cal
Method: 6010-200.7 NEW(v123) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | 6361.0 | 108960. | 10787. | 4971.0 | 7871.0 |
| Stddev | 3.7 | 300. | 69. | 19.2 | 15.8 |
| %RSD | .05775 | .27541 | .64173 | .38553 | .20049 |
| #1 | 6363.3 | 108920. | 10866. | 4953.1 | 7885.7 |
| #2 | 6356.8 | 109280. | 10757. | 4991.2 | 7854.3 |
| #3 | 6362.9 | 108680. | 10737. | 4968.6 | 7872.9 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: S2 Acquired: 8/21/2025 14:07:31 Type: Cal
Method: 6010-200.7 NEW(v123) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 | Cd2265 |
|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.03847** | **.06463** | **.15243** | **.03670** | **.07323** | **.12298** | **3.7677** | **.28048** | **1.1277** |
| Stddev | .00015 | .00101 | .00030 | .00013 | .00023 | .00037 | .0097 | .00283 | .0020 |
| %RSD | .39181 | 1.5597 | .19875 | .34937 | .30731 | .30320 | .25833 | 1.0088 | .17566 |
| #1 | .03844 | .06494 | .15212 | .03668 | .07345 | .12300 | 3.7674 | .28339 | 1.1262 |
| #2 | .03833 | .06350 | .15272 | .03658 | .07323 | .12335 | 3.7582 | .27774 | 1.1270 |
| #3 | .03863 | .06544 | .15245 | .03684 | .07300 | .12260 | 3.7776 | .28032 | 1.1300 |

| Elem | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.23073** | **.03145** | **.39532** | **.12970** | **.00260** | **.16868** | **.04588** | **.23021** | **.03868** |
| Stddev | .00087 | .00008 | .00101 | .00021 | .00000 | .00062 | .00047 | .00031 | .00006 |
| %RSD | .37658 | .26163 | .25506 | .16053 | .19042 | .36621 | 1.0338 | .13340 | .16526 |
| #1 | .23118 | .03139 | .39417 | .12955 | .00259 | .16907 | .04632 | .22987 | .03875 |
| #2 | .22973 | .03143 | .39606 | .12961 | .00260 | .16797 | .04538 | .23047 | .03865 |
| #3 | .23127 | .03155 | .39573 | .12993 | .00260 | .16901 | .04594 | .23029 | .03863 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.03221** | **.04956** | **.93555** | **.01732** | **.57494** | **.52049** | **.11267** | **.23121** | **.00245** |
| Stddev | .00052 | .00012 | .00102 | .00024 | .00666 | .00058 | .00037 | .00095 | .00005 |
| %RSD | 1.6046 | .23599 | .10899 | 1.3721 | 1.1585 | .11125 | .32706 | .41157 | 2.0105 |
| #1 | .03181 | .04962 | .93473 | .01704 | .58192 | .51999 | .11225 | .23093 | .00241 |
| #2 | .03202 | .04964 | .93523 | .01744 | .56865 | .52035 | .11294 | .23044 | .00244 |
| #3 | .03280 | .04943 | .93669 | .01747 | .57425 | .52112 | .11283 | .23228 | .00250 |

| Elem | P_1774 | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.03432** | **.02238** | **.63104** | **6.1412** |
| Stddev | .00005 | .00012 | .00240 | .0145 |
| %RSD | .13799 | .53296 | .37987 | .23571 |
| #1 | .03427 | .02233 | .63260 | 6.1415 |
| #2 | .03436 | .02229 | .62828 | 6.1266 |
| #3 | .03434 | .02251 | .63224 | 6.1555 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: S2 Acquired: 8/21/2025 14:07:31 Type: Cal
Method: 6010-200.7 NEW(v123) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | 6320.2 | 105630. | 10687. | 4945.0 | 7685.3 |
| Stddev | 10.1 | 286. | 100. | 18.1 | 24.1 |
| %RSD | .16044 | .27102 | .93387 | .36611 | .31328 |
| | | | | | |
| #1 | 6331.5 | 105940. | 10576. | 4961.3 | 7713.1 |
| #2 | 6317.2 | 105580. | 10770. | 4948.3 | 7670.4 |
| #3 | 6311.9 | 105380. | 10714. | 4925.5 | 7672.5 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: S3 Acquired: 8/21/2025 14:11:35 Type: Cal
Method: 6010-200.7 NEW(v123) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 | Cd2265 |
|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.12027** | **.19784** | **.47508** | **.11305** | **.22469** | **.37711** | **11.545** | **.86747** | **3.5784** |
| Stddev | .00021 | .00599 | .00090 | .00044 | .00037 | .00144 | .038 | .00100 | .0057 |
| %RSD | .17826 | 3.0255 | .18948 | .38671 | .16290 | .38165 | .33319 | .11493 | .15979 |
| #1 | .12016 | .19460 | .47450 | .11255 | .22437 | .37605 | 11.537 | .86840 | 3.5766 |
| #2 | .12013 | .20475 | .47463 | .11334 | .22461 | .37653 | 11.511 | .86760 | 3.5738 |
| #3 | .12051 | .19417 | .47612 | .11326 | .22509 | .37875 | 11.586 | .86642 | 3.5848 |

| Elem | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.70494** | **.09628** | **1.2415** | **.39776** | **.00800** | **.51707** | **.13948** | **.72169** | **.12039** |
| Stddev | .00135 | .00046 | .0022 | .00073 | .00004 | .00115 | .00046 | .00092 | .00017 |
| %RSD | .19102 | .47768 | .18101 | .18342 | .53253 | .22241 | .33324 | .12683 | .14252 |
| #1 | .70508 | .09680 | 1.2408 | .39787 | .00803 | .51687 | .13957 | .72101 | .12058 |
| #2 | .70352 | .09590 | 1.2396 | .39698 | .00795 | .51604 | .13989 | .72134 | .12030 |
| #3 | .70620 | .09615 | 1.2440 | .39843 | .00801 | .51831 | .13897 | .72273 | .12028 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.09706** | **.15530** | **2.8647** | **.05340** | **1.7641** | **1.5974** | **.34989** | **.71041** | **.00736** |
| Stddev | .00046 | .00017 | .0081 | .00011 | .0024 | .0034 | .00095 | .00151 | .00004 |
| %RSD | .47275 | .10706 | .28317 | .20101 | .13420 | .21420 | .27081 | .21277 | .53314 |
| #1 | .09729 | .15536 | 2.8701 | .05332 | 1.7652 | 1.5935 | .34882 | .71160 | .00740 |
| #2 | .09653 | .15542 | 2.8554 | .05336 | 1.7658 | 1.5994 | .35027 | .70871 | .00736 |
| #3 | .09736 | .15511 | 2.8685 | .05352 | 1.7614 | 1.5994 | .35059 | .71092 | .00732 |

| Elem | P_1774 | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.11305** | **.07138** | **1.9075** | **18.819** |
| Stddev | .00072 | .00061 | .0067 | .061 |
| %RSD | .63742 | .85603 | .35410 | .32310 |
| #1 | .11269 | .07114 | 1.9055 | 18.883 |
| #2 | .11388 | .07208 | 1.9020 | 18.762 |
| #3 | .11258 | .07093 | 1.9151 | 18.812 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: S3 Acquired: 8/21/2025 14:11:35 Type: Cal
Method: 6010-200.7 NEW(v123) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | 6224.1 | 104950. | 10717. | 4882.6 | 7359.8 |
| Stddev | 8.7 | 372. | 20. | 20.7 | 10.9 |
| %RSD | .14031 | .35485 | .18387 | .42475 | .14874 |
| #1 | 6225.9 | 104520. | 10695. | 4881.5 | 7361.1 |
| #2 | 6231.8 | 105160. | 10722. | 4903.8 | 7370.0 |
| #3 | 6214.6 | 105170. | 10734. | 4862.4 | 7348.2 |

Sample Name: S4 Acquired: 8/21/2025 14:15:38 Type: Cal
Method: 6010-200.7 NEW(v123) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 | Cd2265 |
|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | .24494 | .43789 | .95583 | .22945 | .45393 | .74937 | 22.854 | 1.7157 | 7.2866 |
| Stddev | .00060 | .01299 | .00104 | .00055 | .00046 | .00304 | .166 | .0089 | .0024 |
| %RSD | .24625 | 2.9671 | .10857 | .24168 | .10025 | .40583 | .72838 | .51848 | .03356 |
| #1 | .24546 | .45081 | .95639 | .23003 | .45441 | .75042 | 22.784 | 1.7257 | 7.2844 |
| #2 | .24509 | .43804 | .95646 | .22940 | .45351 | .75174 | 23.044 | 1.7085 | 7.2892 |
| #3 | .24428 | .42483 | .95463 | .22892 | .45386 | .74594 | 22.735 | 1.7131 | 7.2861 |

| Elem | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 1.3906 | .18933 | 2.5229 | .78781 | .01578 | 1.0243 | .27993 | 1.4597 | .24052 |
| Stddev | .0009 | .00053 | .0007 | .00049 | .00019 | .0019 | .00038 | .0013 | .00023 |
| %RSD | .06385 | .28157 | .02618 | .06158 | 1.1856 | .18402 | .13673 | .08600 | .09445 |
| #1 | 1.3904 | .18907 | 2.5230 | .78810 | .01557 | 1.0232 | .28033 | 1.4598 | .24032 |
| #2 | 1.3916 | .18898 | 2.5236 | .78725 | .01584 | 1.0232 | .27957 | 1.4608 | .24048 |
| #3 | 1.3898 | .18994 | 2.5223 | .78808 | .01594 | 1.0265 | .27991 | 1.4583 | .24077 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | .19197 | .31046 | 5.6368 | .10543 | 3.5542 | 3.2061 | .70706 | 1.4137 | .01464 |
| Stddev | .00190 | .00033 | .0190 | .00090 | .0182 | .0017 | .00259 | .0032 | .00018 |
| %RSD | .99033 | .10614 | .33688 | .84948 | .51207 | .05407 | .36606 | .22488 | 1.2004 |
| #1 | .19005 | .31071 | 5.6574 | .10440 | 3.5744 | 3.2080 | .70947 | 1.4107 | .01446 |
| #2 | .19199 | .31058 | 5.6199 | .10591 | 3.5491 | 3.2046 | .70739 | 1.4170 | .01466 |
| #3 | .19386 | .31009 | 5.6332 | .10599 | 3.5391 | 3.2056 | .70432 | 1.4134 | .01481 |

| Elem | P_1774 | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | .23607 | .15159 | 3.7647 | 37.284 |
| Stddev | .00198 | .00123 | .0086 | .285 |
| %RSD | .83934 | .80951 | .22889 | .76514 |
| #1 | .23782 | .15286 | 3.7557 | 37.054 |
| #2 | .23648 | .15151 | 3.7654 | 37.195 |
| #3 | .23392 | .15041 | 3.7729 | 37.603 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: S4 Acquired: 8/21/2025 14:15:38 Type: Cal
Method: 6010-200.7 NEW(v123) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | 6159.2 | 105180. | 10637. | 4860.4 | 7121.0 |
| Stddev | 5.7 | 263. | 54. | 17.2 | 12.4 |
| %RSD | .09310 | .25047 | .50589 | .35478 | .17423 |
| #1 | 6152.9 | 105440. | 10577. | 4844.1 | 7109.1 |
| #2 | 6164.0 | 105170. | 10653. | 4878.4 | 7119.9 |
| #3 | 6160.7 | 104920. | 10681. | 4858.7 | 7133.9 |

Sample Name: S5 Acquired: 8/21/2025 14:19:50 Type: Cal
Method: 6010-200.7 NEW(v123) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 | Be2348 | Cd2265 |
|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.50206** | **.85848** | **1.9685** | **.47115** | **.93360** | **1.5299** | **46.039** | **3.4420** | **14.920** |
| Stddev | .00081 | .02094 | .0018 | .00121 | .00077 | .0026 | .352 | .0313 | .016 |
| %RSD | .16075 | 2.4387 | .09341 | .25621 | .08275 | .16746 | .76562 | .91024 | .10496 |
| #1 | .50292 | .88087 | 1.9703 | .47250 | .93446 | 1.5326 | 46.098 | 3.4679 | 14.937 |
| #2 | .50131 | .83939 | 1.9685 | .47018 | .93339 | 1.5295 | 45.661 | 3.4072 | 14.916 |
| #3 | .50196 | .85517 | 1.9666 | .47076 | .93296 | 1.5275 | 46.359 | 3.4509 | 14.906 |

| Elem | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **2.7998** | **.38063** | **5.2062** | **1.5816** | **.03230** | **2.0427** | **.56479** | **2.9986** | **.49235** |
| Stddev | .0042 | .00145 | .0016 | .0005 | .00010 | .0122 | .00221 | .0013 | .00094 |
| %RSD | .15154 | .38084 | .03152 | .03425 | .31298 | .59539 | .39113 | .04389 | .19187 |
| #1 | 2.8038 | .38221 | 5.2072 | 1.5819 | .03219 | 2.0466 | .56712 | 3.0001 | .49343 |
| #2 | 2.7954 | .37937 | 5.2070 | 1.5820 | .03233 | 2.0291 | .56453 | 2.9975 | .49168 |
| #3 | 2.8002 | .38031 | 5.2043 | 1.5810 | .03239 | 2.0524 | .56272 | 2.9983 | .49195 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 |
|---|---|---|---|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.39528** | **.63324** | **11.331** | **.21891** | **7.0901** | **6.4640** | **1.4386** | **2.8750** | **.03049** |
| Stddev | .00170 | .00151 | .033 | .00079 | .0565 | .0099 | .0032 | .0100 | .00017 |
| %RSD | .43116 | .23825 | .29220 | .36303 | .79688 | .15270 | .22020 | .34937 | .57036 |
| #1 | .39366 | .63189 | 11.367 | .21801 | 7.1355 | 6.4750 | 1.4422 | 2.8761 | .03035 |
| #2 | .39513 | .63297 | 11.301 | .21951 | 7.0268 | 6.4560 | 1.4375 | 2.8645 | .03069 |
| #3 | .39706 | .63487 | 11.324 | .21922 | 7.1081 | 6.4609 | 1.4362 | 2.8845 | .03045 |

| Elem | P_1774 | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.49033** | **.32310** | **7.6749** | **74.476** |
| Stddev | .00135 | .00173 | .0401 | 1.077 |
| %RSD | .27569 | .53645 | .52315 | 1.4459 |
| #1 | .49189 | .32456 | 7.6815 | 74.694 |
| #2 | .48950 | .32119 | 7.6318 | 73.306 |
| #3 | .48959 | .32356 | 7.7113 | 75.426 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: S5 Acquired: 8/21/2025 14:19:50 Type: Cal
Method: 6010-200.7 NEW(v123) Mode: IR Corr. Factor: 1.000000
User: Jaswal Custom ID1: 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 | 6003.3 | 103480. | 10679. | 4671.1 | 6766.3 |
| Stddev | 1.6 | 634. | 108. | 25.1 | 5.2 |
| %RSD | .02693 | .61280 | 1.0155 | .53682 | .07717 |
| #1 | 6001.6 | 102770. | 10561. | 4645.0 | 6761.0 |
| #2 | 6003.5 | 103670. | 10775. | 4673.3 | 6766.5 |
| #3 | 6004.8 | 103990. | 10703. | 4695.1 | 6771.5 |

Sample Name: ICV01 Acquired: 8/21/2025 14:24:01 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.870986** | **3.830387** | F **3.762221** | **3.901310** | **4.048968** | **7.872013** |
| Stddev | .007917 | .065510 | .000595 | .012650 | .003169 | .018031 |
| %RSD | .2045191 | 1.710265 | .0158258 | .3242491 | .0782786 | .2290534 |
| #1 | 3.878828 | 3.838916 | 3.761668 | 3.905084 | 4.051221 | 7.867385 |
| #2 | 3.871135 | 3.891215 | 3.762143 | 3.911643 | 4.045344 | 7.891907 |
| #3 | 3.862996 | 3.761031 | 3.762852 | 3.887202 | 4.050339 | 7.856747 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.018720** | **.1940973** | **1.911793** | **19.68444** | **.7890724** | **1.945510** |
| Stddev | .043691 | .0014610 | .000831 | .04770 | .0008603 | .000699 |
| %RSD | .5448652 | .7526971 | .0434579 | .2422985 | .1090219 | .0359156 |
| #1 | 7.993682 | .1936226 | 1.912652 | 19.63855 | .7881376 | 1.944725 |
| #2 | 7.993308 | .1929327 | 1.911733 | 19.68100 | .7898307 | 1.945742 |
| #3 | 8.069170 | .1957366 | 1.910993 | 19.73376 | .7892490 | 1.946064 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.000662** | **4.104563** | **2.000336** | **19.60801** | **1.940947** | **.9822066** |
| Stddev | .001236 | .033149 | .001223 | .08078 | .000567 | .0010916 |
| %RSD | .1235658 | .8076216 | .0611355 | .4119837 | .0292356 | .1111406 |
| #1 | 1.001373 | 4.097992 | 1.999077 | 19.52743 | 1.941118 | .9812527 |
| #2 | .999234 | 4.140505 | 2.001519 | 19.60759 | 1.940313 | .9819700 |
| #3 | 1.001379 | 4.075190 | 2.000413 | 19.68900 | 1.941409 | .9833971 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **20.98596** | **2.010369** | **1.981226** | **20.34438** | F **.0127906** | F **.0005589** |
| Stddev | .15407 | .001299 | .005307 | .16352 | .0003457 | .0003087 |
| %RSD | .7341738 | .0645937 | .2678882 | .8037388 | 2.702956 | 55.23104 |
| #1 | 21.00469 | 2.011254 | 1.975590 | 20.30202 | .0131395 | .0008985 |
| #2 | 21.12982 | 2.008879 | 1.981961 | 20.52491 | .0127842 | .0004828 |
| #3 | 20.82338 | 2.010976 | 1.986129 | 20.20621 | .0124482 | .0002954 |

Sample Name: ICV01 Acquired: 8/21/2025 14:24:01 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICV01 Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F -.002165 | F -.005340 | F -.030242 | F .0055970 | F .0074167 | F -.001773 |
| Stddev | .000059 | .001255 | .011645 | .0022713 | .0034525 | .001405 |
| %RSD | 2.713501 | 23.50176 | 38.50637 | 40.58048 | 46.54976 | 79.25110 |
| #1 | -.002219 | -.004230 | -.023032 | .0059365 | .0076492 | -.003314 |
| #2 | -.002173 | -.005089 | -.024018 | .0031751 | .0038539 | -.000562 |
| #3 | -.002103 | -.006702 | -.043677 | .0076795 | .0107471 | -.001443 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | F -.003364 |
| Stddev | .000056 |
| %RSD | 1.652941 |
| #1 | -.003300 |
| #2 | -.003399 |
| #3 | -.003392 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6330.646 | 107821.5 | 11402.35 | 4996.290 | 7443.746 |
| Stddev | 7.164 | 90.8 | 83.26 | 13.093 | 6.364 |
| %RSD | .1131634 | .0841744 | .7302242 | .2620480 | .0854904 |
| #1 | 6322.452 | 107912.9 | 11404.54 | 5011.143 | 7437.075 |
| #2 | 6335.723 | 107731.4 | 11484.50 | 4991.306 | 7449.750 |
| #3 | 6333.764 | 107820.1 | 11318.01 | 4986.422 | 7444.413 |

Sample Name: LLICV01 Acquired: 8/21/2025 14:33:10 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0203787** | **.0399239** | **.0126240** | **.0204589** | **.0489030** | **.1070484** |
| Stddev | .0018832 | .0002195 | .0011116 | .0030674 | .0004624 | .0057035 |
| %RSD | 9.241284 | .5497760 | 8.805286 | 14.99281 | .9455626 | 5.327968 |
| #1 | .0183459 | .0397322 | .0113499 | .0204286 | .0484122 | .1005437 |
| #2 | .0207260 | .0398762 | .0133955 | .0174068 | .0493305 | .1111933 |
| #3 | .0220641 | .0401634 | .0131267 | .0235413 | .0489661 | .1094081 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1004057** | **.0061066** | **.0057380** | **2.065369** | **.0097665** | **.0295244** |
| Stddev | .0002237 | .0000371 | .0000121 | .001717 | .0002204 | .0000309 |
| %RSD | .2227816 | .6079679 | .2101611 | .0831307 | 2.256426 | .1046407 |
| #1 | .1002812 | .0060717 | .0057335 | 2.067189 | .0095129 | .0294936 |
| #2 | .1006639 | .0061456 | .0057288 | 2.063778 | .0099115 | .0295243 |
| #3 | .1002719 | .0061026 | .0057516 | 2.065141 | .0098750 | .0295554 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0213519** | **.1015281** | **.0222550** | **2.179286** | **.0395650** | **.0098425** |
| Stddev | .0002779 | .0076168 | .0002525 | .032680 | .0003127 | .0001142 |
| %RSD | 1.301357 | 7.502169 | 1.134723 | 1.499596 | .7902730 | 1.160160 |
| #1 | .0211423 | .0997122 | .0222058 | 2.174333 | .0398834 | .0097205 |
| #2 | .0216671 | .0949834 | .0225285 | 2.149364 | .0395532 | .0099468 |
| #3 | .0212464 | .1098888 | .0220307 | 2.214160 | .0392584 | .0098604 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.107180** | **.0401342** | **.0414427** | **1.950226** | **.1040833** | **.2048150** |
| Stddev | .022219 | .0028646 | .0002408 | .042045 | .0015136 | .0000721 |
| %RSD | 1.054460 | 7.137440 | .5809933 | 2.155892 | 1.454245 | .0351821 |
| #1 | 2.090220 | .0408210 | .0411649 | 1.902098 | .1040576 | .2048879 |
| #2 | 2.132332 | .0369887 | .0415914 | 1.979814 | .1056096 | .2047438 |
| #3 | 2.098987 | .0425930 | .0415719 | 1.968766 | .1025827 | .2048135 |

Sample Name: LLICV01 Acquired: 8/21/2025 14:33:10 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: LLICV01 Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0357138 | .0372540 | .3814172 | .0190333 | F .0153891 | .0202656 |
| Stddev | .0005409 | .0004090 | .0048972 | .0002422 | .0003992 | .0006642 |
| %RSD | 1.514467 | 1.097805 | 1.283959 | 1.272489 | 2.594335 | 3.277585 |
| #1 | .0350929 | .0374393 | .3861258 | .0190478 | .0153724 | .0196512 |
| #2 | .0359656 | .0375376 | .3763509 | .0192680 | .0149985 | .0209704 |
| #3 | .0360828 | .0367852 | .3817748 | .0187842 | .0157965 | .0201751 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0207603 |
| Stddev | .0001027 |
| %RSD | .4948283 |
| #1 | .0207884 |
| #2 | .0208461 |
| #3 | .0206464 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6465.990 | 110767.4 | 11318.68 | 5062.254 | 8009.633 |
| Stddev | 7.446 | 372.4 | 22.59 | 15.759 | 14.772 |
| %RSD | .1151565 | .3362121 | .1995905 | .3112990 | .1844245 |
| #1 | 6462.233 | 111136.0 | 11343.36 | 5080.439 | 8001.196 |
| #2 | 6461.171 | 110774.8 | 11299.02 | 5053.729 | 8001.013 |
| #3 | 6474.566 | 110391.3 | 11313.65 | 5052.594 | 8026.689 |

Sample Name: ICB01 Acquired: 8/21/2025 14:37:26 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0006272** | **-.000913** | **-.001106** | **.0009257** | **-.002059** | **.0039809** | **-.003882** |
| Stddev | .0010194 | .001451 | .000877 | .0009852 | .001036 | .0124444 | .000188 |
| %RSD | 162.5344 | 158.9225 | 79.27870 | 106.4300 | 50.34213 | 312.6007 | 4.834377 |
| #1 | .0008656 | -.001585 | -.001215 | .0001864 | -.002749 | .0044003 | -.004018 |
| #2 | .0015062 | -.001905 | -.001923 | .0020442 | -.000867 | .0162104 | -.003668 |
| #3 | -.000490 | .000752 | -.000180 | .0005465 | -.002559 | -.008668 | -.003959 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000345** | **-.000045** | **-.007568** | **-.000293** | **.0000813** | **.0000755** | **-.004256** |
| Stddev | .0000155 | .000043 | .009707 | .000337 | .0000476 | .0000757 | .001084 |
| %RSD | 44.93989 | 96.41152 | 128.2702 | 114.8105 | 58.57841 | 100.3159 | 25.45899 |
| #1 | .0000170 | .000005 | -.016402 | -.000157 | .0000478 | -.000008 | -.005507 |
| #2 | .0000400 | -.000074 | -.009125 | -.000676 | .0000603 | .000141 | -.003637 |
| #3 | .0000464 | -.000064 | .002824 | -.000046 | .0001358 | .000093 | -.003624 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000225** | **-.007012** | **-.000285** | **.0000594** | **.0130161** | **-.000415** | **-.000937** |
| Stddev | .000233 | .008819 | .000279 | .0000713 | .0059059 | .002419 | .000409 |
| %RSD | 103.5991 | 125.7711 | 98.03874 | 119.9808 | 45.37404 | 583.4384 | 43.70015 |
| #1 | -.000488 | .003166 | -.000336 | .0000838 | .0198189 | .000936 | -.000547 |
| #2 | -.000141 | -.011811 | .000017 | .0001153 | .0092003 | -.003208 | -.001364 |
| #3 | -.000045 | -.012391 | -.000534 | -.000021 | .0100292 | .001027 | -.000900 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0155177** | **.0027537** | **-.000088** | **-.002304** | **-.000824** | **.0208537** | **.0015192** |
| Stddev | .0389445 | .0007767 | .000169 | .000586 | .000931 | .0061719 | .0000704 |
| %RSD | 250.9679 | 28.20588 | 190.9004 | 25.45969 | 113.0033 | 29.59605 | 4.635648 |
| #1 | -.014793 | .0033162 | -.000258 | -.002369 | -.001327 | .0279763 | .0015019 |
| #2 | .001904 | .0030773 | -.000085 | -.002855 | .000251 | .0175012 | .0014590 |
| #3 | .059442 | .0018675 | .000079 | -.001687 | -.001396 | .0170836 | .0015967 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: ICB01 Acquired: 8/21/2025 14:37:26 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICB01 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **-.004386** | **-.003746** | **-.000034** |
| Stddev | .000550 | .000887 | .000061 |
| %RSD | 12.53287 | 23.67093 | 179.3766 |
| | | | |
| #1 | -.004383 | -.003364 | -.000105 |
| #2 | -.003839 | -.003114 | .000000 |
| #3 | -.004938 | -.004760 | .000002 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **6477.009** | **111210.4** | **11347.99** | **5089.134** | **8180.463** |
| Stddev | 11.743 | 466.1 | 12.13 | 36.227 | 12.035 |
| %RSD | .1813009 | .4191299 | .1069076 | .7118584 | .1471177 |
| | | | | | |
| #1 | 6484.642 | 110676.4 | 11340.10 | 5047.340 | 8189.367 |
| #2 | 6482.899 | 111419.6 | 11361.96 | 5111.570 | 8185.251 |
| #3 | 6463.487 | 111535.3 | 11341.90 | 5108.491 | 8166.771 |

Sample Name: CRI01 Acquired: 8/21/2025 14:41:45 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0209316** | **.0414851** | **.0123388** | **.0197530** | **.0489839** | **.1093775** | **.0985869** |
| Stddev | .0009393 | .0009713 | .0002889 | .0014945 | .0009823 | .0041502 | .0009761 |
| %RSD | 4.487374 | 2.341391 | 2.341152 | 7.565885 | 2.005266 | 3.794391 | .9900791 |
| #1 | .0206251 | .0408029 | .0126290 | .0183454 | .0490685 | .1079514 | .0980667 |
| #2 | .0201838 | .0410553 | .0120513 | .0195923 | .0499211 | .1061284 | .0979811 |
| #3 | .0219858 | .0425972 | .0123361 | .0213214 | .0479621 | .1140528 | .0997129 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0060663** | **.0056638** | **2.050917** | **.0099202** | **.0292494** | **.0212646** | **.1009021** |
| Stddev | .0000467 | .0000414 | .013985 | .0001778 | .0001599 | .0003201 | .0026401 |
| %RSD | .7694070 | .7312649 | .6819049 | 1.791992 | .5468160 | 1.505464 | 2.616471 |
| #1 | .0060440 | .0056168 | 2.043622 | .0100528 | .0291261 | .0209273 | .0988239 |
| #2 | .0060349 | .0056946 | 2.042088 | .0097182 | .0294301 | .0213022 | .1038728 |
| #3 | .0061199 | .0056802 | 2.067042 | .0099895 | .0291920 | .0215642 | .1000097 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0213634** | **2.172131** | **.0391671** | **.0098758** | **2.030642** | **.0406429** | **.0409679** |
| Stddev | .0005176 | .014591 | .0003507 | .0004584 | .032660 | .0017099 | .0001570 |
| %RSD | 2.422762 | .6717256 | .8954471 | 4.641226 | 1.608356 | 4.207031 | .3832088 |
| #1 | .0208047 | 2.172148 | .0394218 | .0100634 | 1.995641 | .0386693 | .0410392 |
| #2 | .0214590 | 2.157532 | .0387671 | .0093534 | 2.035981 | .0415800 | .0407880 |
| #3 | .0218265 | 2.186713 | .0393125 | .0102106 | 2.060303 | .0416793 | .0410767 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.896882** | **.0996222** | **.2038802** | **.0355235** | **.0379852** | **.4032610** | **.0189692** |
| Stddev | .046032 | .0000567 | .0004713 | .0005744 | .0010090 | .0076346 | .0017330 |
| %RSD | 2.426725 | .0568725 | .2311579 | 1.617015 | 2.656407 | 1.893216 | 9.135792 |
| #1 | 1.858603 | .0996755 | .2033942 | .0351882 | .0389046 | .4009827 | .0209615 |
| #2 | 1.884085 | .0995627 | .2043352 | .0351955 | .0381453 | .3970250 | .0178110 |
| #3 | 1.947959 | .0996285 | .2039112 | .0361868 | .0369056 | .4117754 | .0181351 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: CRI01 Acquired: 8/21/2025 14:41:45 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CRI01 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0149584 | .0192023 | .0204808 |
| Stddev | .0019930 | .0001643 | .0001362 |
| %RSD | 13.32355 | .8556770 | .6650928 |
| #1 | .0159542 | .0192203 | .0203239 |
| #2 | .0162572 | .0193568 | .0205504 |
| #3 | .0126638 | .0190297 | .0205683 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6442.062 | 110754.0 | 11327.14 | 5081.354 | 8001.858 |
| Stddev | 17.806 | 526.5 | 42.22 | 19.474 | 17.175 |
| %RSD | .2764070 | .4754101 | .3727126 | .3832475 | .2146327 |
| #1 | 6458.891 | 111269.7 | 11296.67 | 5078.896 | 8016.160 |
| #2 | 6443.879 | 110774.9 | 11375.33 | 5101.941 | 8006.604 |
| #3 | 6423.417 | 110217.3 | 11309.42 | 5063.226 | 7982.809 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: ICSA01 Acquired: 8/21/2025 14:45:59 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0121636** | **-.003564** | **-.007000** | **.0014919** | **-.002546** | **243.2782** | **.0002457** |
| Stddev | .0020777 | .001295 | .001811 | .0013071 | .001733 | .5531 | .0000868 |
| %RSD | 17.08119 | 36.34112 | 25.86294 | 87.61035 | 68.08893 | .2273396 | 35.33131 |
| #1 | .0136328 | -.002087 | -.009082 | .0020280 | -.004295 | 242.9543 | .0001976 |
| #2 | .0097865 | -.004104 | -.006127 | .0000020 | -.000829 | 242.9636 | .0001936 |
| #3 | .0130715 | -.004503 | -.005792 | .0024457 | -.002513 | 243.9168 | .0003459 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0014704** | **.0017285** | **231.8001** | **.0583660** | **.0021048** | **.0100532** | **100.6300** |
| Stddev | .0000788 | .0000585 | .2216 | .0001384 | .0000811 | .0004805 | .3903 |
| %RSD | 5.359383 | 3.383875 | .0955798 | .2370351 | 3.855254 | 4.779872 | .3878326 |
| #1 | .0014001 | .0017688 | 231.6712 | .0582063 | .0020156 | .0101882 | 100.2150 |
| #2 | .0014554 | .0017553 | 231.6731 | .0584507 | .0021246 | .0104518 | 100.9896 |
| #3 | .0015556 | .0016614 | 232.0559 | .0584409 | .0021742 | .0095196 | 100.6855 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0071207** | **244.2005** | **.0058492** | **.0034308** | **.1091908** | **.0045023** | **.0016491** |
| Stddev | .0006877 | .2395 | .0003613 | .0008562 | .0180118 | .0017359 | .0001512 |
| %RSD | 9.657117 | .0980554 | 6.177519 | 24.95740 | 16.49573 | 38.55672 | 9.168952 |
| #1 | .0063323 | 243.9713 | .0054527 | .0026066 | .0887231 | .0063328 | .0017930 |
| #2 | .0074326 | 244.1810 | .0061599 | .0043158 | .1226232 | .0028796 | .0014915 |
| #3 | .0075970 | 244.4490 | .0059350 | .0033699 | .1162261 | .0042945 | .0016627 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2854592** | **.0810018** | **.0010575** | **-.004638** | **-.006506** | **.0313169** | **.0076250** |
| Stddev | .0352241 | .0016606 | .0001171 | .000377 | .000422 | .0088065 | .0016282 |
| %RSD | 12.33944 | 2.050069 | 11.07213 | 8.134839 | 6.487263 | 28.12065 | 21.35351 |
| #1 | .2447968 | .0790873 | .0010945 | -.004695 | -.006965 | .0241530 | .0075074 |
| #2 | .3066025 | .0820517 | .0009264 | -.004235 | -.006417 | .0411489 | .0093088 |
| #3 | .3049785 | .0818663 | .0011516 | -.004983 | -.006135 | .0286487 | .0060588 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: ICSA01 Acquired: 8/21/2025 14:45:59 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **-.012825** | F **-.027847** | **.0012962** |
| Stddev | .001922 | .001614 | .0004790 |
| %RSD | 14.98835 | 5.795817 | 36.95082 |
| #1 | -.014217 | -.027630 | .0015367 |
| #2 | -.013626 | -.026352 | .0007447 |
| #3 | -.010632 | -.029558 | .0016073 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5792.960** | **98894.90** | **11105.95** | **4556.247** | **6442.275** |
| Stddev | 5.362 | 463.87 | 54.12 | 16.294 | 12.102 |
| %RSD | .0925664 | .4690532 | .4872779 | .3576178 | .1878534 |
| #1 | 5794.555 | 99375.54 | 11098.46 | 4559.456 | 6447.822 |
| #2 | 5797.343 | 98859.29 | 11163.42 | 4570.697 | 6450.609 |
| #3 | 5786.981 | 98449.86 | 11055.96 | 4538.587 | 6428.394 |

Sample Name: ICSAB01 Acquired: 8/21/2025 14:50:40 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1069847** | **.0959571** | **.0370810** | **.0484886** | **.5853805** | **248.0891** |
| Stddev | .0023285 | .0032109 | .0022762 | .0029414 | .0017243 | .3515 |
| %RSD | 2.176453 | 3.346162 | 6.138464 | 6.066089 | .2945609 | .1416762 |
| #1 | .1050531 | .0946956 | .0348301 | .0458193 | .5871413 | 247.7381 |
| #2 | .1095702 | .0935685 | .0370314 | .0480045 | .5836952 | 248.0879 |
| #3 | .1063308 | .0996071 | .0393817 | .0516420 | .5853051 | 248.4411 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4782072** | **.4704464** | **.9601949** | **235.6065** | **.5403366** | **.4839252** |
| Stddev | .0009320 | .0025438 | .0014741 | .1109 | .0013828 | .0006375 |
| %RSD | .1948972 | .5407102 | .1535183 | .0470497 | .2559131 | .1317355 |
| #1 | .4771446 | .4694372 | .9610497 | 235.6803 | .5396636 | .4839350 |
| #2 | .4788864 | .4685622 | .9584927 | 235.6602 | .5394193 | .4832829 |
| #3 | .4785906 | .4733399 | .9610421 | 235.4790 | .5419271 | .4845578 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4777383** | **101.7690** | **.4787478** | **248.9017** | **.9602841** | **.2095879** |
| Stddev | .0009669 | .3344 | .0015262 | .0490 | .0009230 | .0003590 |
| %RSD | .2023958 | .3285811 | .3187949 | .0196943 | .0961175 | .1712830 |
| #1 | .4787427 | 101.4689 | .4786424 | 248.9008 | .9596369 | .2092664 |
| #2 | .4768138 | 102.1295 | .4803239 | 248.9511 | .9613411 | .2095222 |
| #3 | .4776582 | 101.7087 | .4772769 | 248.8531 | .9598744 | .2099753 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0702488** | **.4699542** | **1.008229** | **-.028406** | F **.0797996** | F **.0010608** |
| Stddev | .0084682 | .0022029 | .003195 | .034253 | .0024998 | .0001479 |
| %RSD | 12.05456 | .4687571 | .3169034 | 120.5866 | 3.132605 | 13.93878 |
| #1 | .0625775 | .4693020 | 1.006327 | -.059132 | .0802712 | .0011987 |
| #2 | .0793355 | .4681510 | 1.006443 | -.034611 | .0820301 | .0010790 |
| #3 | .0688334 | .4724096 | 1.011918 | .008526 | .0770976 | .0009047 |

Sample Name: ICSAB01 Acquired: 8/21/2025 14:50:40 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01 Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | F -.007203 | F -.008479 | F .0148632 | F .0125321 | F -.007585 | F -.031373 |
| Stddev | .000730 | .000379 | .0049091 | .0011316 | .002234 | .001875 |
| %RSD | 10.13426 | 4.471448 | 33.02873 | 9.029384 | 29.45681 | 5.975515 |
| #1 | -.007030 | -.008042 | .0205258 | .0127985 | -.005185 | -.032960 |
| #2 | -.008004 | -.008723 | .0122563 | .0135067 | -.009605 | -.029304 |
| #3 | -.006575 | -.008672 | .0118074 | .0112911 | -.007964 | -.031854 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | F .0021431 |
| Stddev | .0002673 |
| %RSD | 12.47435 |
| #1 | .0023520 |
| #2 | .0018418 |
| #3 | .0022353 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5782.457 | 98834.65 | 11049.69 | 4568.452 | 6444.106 |
| Stddev | 9.746 | 136.94 | 29.82 | 6.232 | 11.887 |
| %RSD | .1685515 | .1385527 | .2698414 | .1364140 | .1844700 |
| #1 | 5771.332 | 98985.82 | 11057.33 | 4561.362 | 6430.655 |
| #2 | 5789.491 | 98718.90 | 11074.95 | 4570.927 | 6453.202 |
| #3 | 5786.549 | 98799.21 | 11016.80 | 4573.066 | 6448.461 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: ICSADLX20 Acquired: 8/21/2025 14:54:45 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01DLX20 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0008080** | **-.002106** | **-.000462** | **.0000014** | **-.001914** | **11.90024** | **-.002854** |
| Stddev | .0002881 | .001183 | .001149 | .0038086 | .000191 | .02505 | .000439 |
| %RSD | 35.65819 | 56.16784 | 248.9795 | 265982.4 | 9.997035 | .2105183 | 15.39115 |
| #1 | .0009906 | -.003424 | -.001710 | .0032813 | -.001775 | 11.88291 | -.003361 |
| #2 | .0009575 | -.001761 | -.000226 | .0008987 | -.002132 | 11.92897 | -.002585 |
| #3 | .0004758 | -.001135 | .000552 | -.004176 | -.001835 | 11.88886 | -.002617 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0001341** | **.0000531** | **11.82556** | **.0026764** | **.0001686** | **.0007153** | **4.780051** |
| Stddev | .0000516 | .0000192 | .04251 | .0003274 | .0000060 | .0003956 | .020669 |
| %RSD | 38.43525 | 36.21719 | .3594802 | 12.23442 | 3.586013 | 55.31042 | .4324102 |
| #1 | .0000826 | .0000309 | 11.78167 | .0030144 | .0001702 | .0002754 | 4.801273 |
| #2 | .0001341 | .0000650 | 11.82845 | .0026540 | .0001736 | .0010419 | 4.759983 |
| #3 | .0001857 | .0000633 | 11.86654 | .0023607 | .0001619 | .0008285 | 4.778897 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000173** | **12.23093** | **.0003271** | **.0000134** | **-.044186** | **.0000284** | **-.000801** |
| Stddev | .000099 | .04715 | .0000381 | .0003132 | .008158 | .0007085 | .000344 |
| %RSD | 57.10383 | .3855171 | 11.63619 | 2331.102 | 18.46353 | 2491.586 | 42.94721 |
| #1 | -.000075 | 12.17762 | .0003685 | -.000143 | -.052475 | -.000599 | -.001064 |
| #2 | -.000170 | 12.24803 | .0003190 | -.000191 | -.043919 | .000797 | -.000928 |
| #3 | -.000273 | 12.26715 | .0002937 | .000374 | -.036165 | -.000113 | -.000412 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.289096** | **.0017139** | **.0000227** | **-.003704** | **-.002368** | **.0111392** | **.0025915** |
| Stddev | .022985 | .0003574 | .0000786 | .000211 | .001658 | .0120304 | .0015776 |
| %RSD | 7.950479 | 20.85487 | 345.4958 | 5.701232 | 69.99591 | 108.0004 | 60.87576 |
| #1 | -.297265 | .0019290 | -.000011 | -.003521 | -.001399 | .0040725 | .0041749 |
| #2 | -.306881 | .0013013 | -.000033 | -.003656 | -.004283 | .0043152 | .0025800 |
| #3 | -.263143 | .0019113 | .000113 | -.003935 | -.001424 | .0250300 | .0010197 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: ICSADLX20 Acquired: 8/21/2025 14:54:45 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSA01DLX20 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.007361 | -.006089 | .0002103 |
| Stddev | .003336 | .001068 | .0000584 |
| %RSD | 45.31588 | 17.53182 | 27.75579 |
| | | | |
| #1 | -.010738 | -.006704 | .0001889 |
| #2 | -.004068 | -.004857 | .0001657 |
| #3 | -.007277 | -.006708 | .0002764 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6393.589 | 110385.9 | 11390.79 | 5046.820 | 7830.636 |
| Stddev | 14.314 | 239.4 | 93.59 | 23.072 | 14.751 |
| %RSD | .2238765 | .2168709 | .8216658 | .4571624 | .1883730 |
| | | | | | |
| #1 | 6377.271 | 110304.8 | 11494.37 | 5032.629 | 7819.697 |
| #2 | 6399.474 | 110197.5 | 11365.71 | 5073.442 | 7824.799 |
| #3 | 6404.022 | 110655.3 | 11312.30 | 5034.389 | 7847.412 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: ICSABDLX20 Acquired: 8/21/2025 14:59:00 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01DLX20 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0057668** | **.0044146** | **.0016422** | **-.000073** | **.0269570** | **12.26892** | **.0207979** |
| Stddev | .0011918 | .0004450 | .0005581 | .001965 | .0010458 | .02286 | .0012208 |
| %RSD | 20.66610 | 10.08058 | 33.98692 | 2691.481 | 3.879661 | .1863044 | 5.869839 |
| #1 | .0044727 | .0048288 | .0013538 | .002171 | .0261157 | 12.25035 | .0221965 |
| #2 | .0060085 | .0044710 | .0012872 | -.000908 | .0266275 | 12.29444 | .0202509 |
| #3 | .0068192 | .0039441 | .0022855 | -.001482 | .0281279 | 12.26196 | .0199463 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0237051** | **.0454470** | **12.20435** | **.0269314** | **.0229313** | **.0248965** | **5.025805** |
| Stddev | .0001476 | .0000887 | .02802 | .0002755 | .0001475 | .0000153 | .012813 |
| %RSD | .6226183 | .1950649 | .2295698 | 1.023015 | .6433182 | .0612661 | .2549427 |
| #1 | .0237231 | .0455097 | 12.19183 | .0272496 | .0228174 | .0249090 | 5.011370 |
| #2 | .0235493 | .0453456 | 12.18478 | .0267743 | .0228785 | .0249010 | 5.030214 |
| #3 | .0238429 | .0454858 | 12.23645 | .0267705 | .0230979 | .0248795 | 5.035831 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0243123** | **12.59339** | **.0458345** | **.0092333** | **-.038861** | **.0247902** | **.0487474** |
| Stddev | .0001753 | .03148 | .0004419 | .0003076 | .004594 | .0015744 | .0002702 |
| %RSD | .7209316 | .2499914 | .9642290 | 3.331455 | 11.82153 | 6.351047 | .5543898 |
| #1 | .0245128 | 12.56430 | .0457091 | .0093727 | -.033557 | .0235890 | .0487747 |
| #2 | .0241885 | 12.58907 | .0454688 | .0088807 | -.041441 | .0242090 | .0490029 |
| #3 | .0242355 | 12.62681 | .0463256 | .0094465 | -.041585 | .0265727 | .0484645 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.294539** | **.0020850** | **-.000065** | **-.003271** | **-.001622** | **.0109409** | **.0019465** |
| Stddev | .032899 | .0002682 | .000099 | .000555 | .000705 | .0116254 | .0011555 |
| %RSD | 11.16954 | 12.86129 | 151.7864 | 16.96307 | 43.44264 | 106.2564 | 59.36033 |
| #1 | -.332357 | .0020186 | -.000023 | -.003194 | -.000875 | .0011076 | .0026225 |
| #2 | -.272514 | .0023801 | -.000178 | -.003861 | -.002275 | .0079436 | .0006124 |
| #3 | -.278748 | .0018562 | .000006 | -.002759 | -.001716 | .0237714 | .0026048 |

Sample Name: ICSABDLX20 Acquired: 8/21/2025 14:59:00 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: ICSAB01DLX20 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.004579 | -.005458 | .0001706 |
| Stddev | .003358 | .001903 | .0000769 |
| %RSD | 73.33141 | 34.85942 | 45.10763 |
| | | | |
| #1 | -.004449 | -.004496 | .0002589 |
| #2 | -.007999 | -.007650 | .0001186 |
| #3 | -.001288 | -.004229 | .0001342 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6362.948 | 108424.1 | 11401.73 | 4997.140 | 7772.969 |
| Stddev | 6.579 | 84.4 | 41.15 | 11.144 | 14.275 |
| %RSD | .1033943 | .0778468 | .3609531 | .2230097 | .1836517 |
| | | | | | |
| #1 | 6366.473 | 108328.5 | 11390.46 | 4984.495 | 7778.375 |
| #2 | 6367.013 | 108455.8 | 11447.34 | 5001.397 | 7783.752 |
| #3 | 6355.358 | 108488.2 | 11367.38 | 5005.528 | 7756.781 |

Sample Name: CCV01 Acquired: 8/21/2025 15:03:10 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.954150** | **5.156620** | **4.910359** | **4.957720** | **4.933255** | **9.888634** | **9.927297** |
| Stddev | .007923 | .079607 | .003236 | .014261 | .016058 | .035223 | .045929 |
| %RSD | .1599276 | 1.543778 | .0659099 | .2876448 | .3255128 | .3562007 | .4626532 |
| #1 | 4.948418 | 5.157895 | 4.907673 | 4.942338 | 4.917020 | 9.929290 | 9.970183 |
| #2 | 4.950841 | 5.076384 | 4.909452 | 4.960323 | 4.933616 | 9.867324 | 9.932873 |
| #3 | 4.963191 | 5.235582 | 4.913952 | 4.970500 | 4.949131 | 9.869286 | 9.878834 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2443253** | **2.480355** | **24.77802** | **.9935540** | **2.469779** | **1.246687** | **5.002362** |
| Stddev | .0008543 | .002277 | .06448 | .0032243 | .000363 | .000866 | .018690 |
| %RSD | .3496698 | .0918101 | .2602253 | .3245202 | .0146889 | .0694459 | .3736318 |
| #1 | .2447634 | 2.482864 | 24.84436 | .9935016 | 2.470084 | 1.246305 | 5.004065 |
| #2 | .2433407 | 2.478418 | 24.77412 | .9968041 | 2.469378 | 1.246077 | 5.020143 |
| #3 | .2448717 | 2.479784 | 24.71558 | .9903562 | 2.469874 | 1.247678 | 4.982879 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.479075** | **24.55778** | **2.468784** | **1.235601** | **25.17504** | **2.471137** | **2.501588** |
| Stddev | .006251 | .09765 | .001206 | .001120 | .11801 | .006639 | .004954 |
| %RSD | .2521699 | .3976427 | .0488574 | .0906480 | .4687734 | .2686731 | .1980242 |
| #1 | 2.485904 | 24.65288 | 2.467848 | 1.236280 | 25.27535 | 2.470394 | 2.495902 |
| #2 | 2.473635 | 24.56268 | 2.468360 | 1.234308 | 25.20476 | 2.478117 | 2.504974 |
| #3 | 2.477687 | 24.45777 | 2.470145 | 1.236215 | 25.04501 | 2.464901 | 2.503887 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **24.77175** | **4.899705** | **4.993669** | **4.965273** | **4.956897** | **4.970732** | **4.965409** |
| Stddev | .11499 | .026795 | .005692 | .000989 | .017701 | .032091 | .011152 |
| %RSD | .4641798 | .5468700 | .1139926 | .0199140 | .3571013 | .6455931 | .2245860 |
| #1 | 24.87116 | 4.907818 | 4.995526 | 4.965834 | 4.977314 | 4.958254 | 4.978025 |
| #2 | 24.79826 | 4.869791 | 4.987279 | 4.965853 | 4.945860 | 5.007188 | 4.956868 |
| #3 | 24.64582 | 4.921506 | 4.998200 | 4.964131 | 4.947517 | 4.946755 | 4.961335 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: CCV01 Acquired: 8/21/2025 15:03:10 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV01 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **4.914484** | **4.944589** | **5.037948** |
| Stddev | .008599 | .018460 | .019072 |
| %RSD | .1749724 | .3733397 | .3785748 |
| #1 | 4.911679 | 4.965789 | 5.015945 |
| #2 | 4.907639 | 4.935910 | 5.048139 |
| #3 | 4.924136 | 4.932067 | 5.049760 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **6206.022** | **106168.1** | **10997.63** | **4901.743** | **7172.486** |
| Stddev | 10.220 | 287.1 | 29.09 | 25.951 | 8.596 |
| %RSD | .1646864 | .2704663 | .2645551 | .5294271 | .1198493 |
| #1 | 6201.280 | 106251.6 | 10975.51 | 4893.359 | 7166.623 |
| #2 | 6217.752 | 105848.5 | 11030.59 | 4881.021 | 7182.354 |
| #3 | 6199.033 | 106404.3 | 10986.78 | 4930.850 | 7168.480 |

Sample Name: CCB01 Acquired: 8/21/2025 15:07:20 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000866** | **-.000117** | **-.000631** | **-.000272** | **-.001296** | **-.000354** | **-.003096** |
| Stddev | .001202 | .000627 | .000963 | .001454 | .001301 | .006158 | .000389 |
| %RSD | 138.8495 | 536.5750 | 152.6408 | 534.4166 | 100.4149 | 1741.687 | 12.56575 |
| #1 | -.002040 | .000182 | -.001305 | -.001024 | -.002501 | .002112 | -.002975 |
| #2 | -.000919 | -.000838 | .000472 | -.001196 | .000084 | -.007362 | -.003531 |
| #3 | .000362 | .000305 | -.001059 | .001404 | -.001470 | .004190 | -.002782 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000264** | **.0000181** | **-.014006** | **-.000033** | **-.000040** | **.0001218** | **-.006277** |
| Stddev | .0000600 | .0000642 | .010846 | .000276 | .000257 | .0003949 | .004754 |
| %RSD | 226.8945 | 354.8445 | 77.44121 | 830.3892 | 643.4983 | 324.3365 | 75.73420 |
| #1 | -.000026 | .0000470 | -.002574 | -.000348 | -.000226 | -.000269 | -.002791 |
| #2 | .000013 | .0000628 | -.015292 | .000169 | .000253 | .000114 | -.011692 |
| #3 | .000092 | -.000056 | -.024152 | .000079 | -.000147 | .000521 | -.004347 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0003157** | **.0186499** | **-.000360** | **.0000967** | **-.038031** | **.0007724** | **-.000995** |
| Stddev | .0004308 | .0203464 | .000260 | .0001391 | .006720 | .0014528 | .000272 |
| %RSD | 136.4483 | 109.0967 | 72.33139 | 143.8777 | 17.67070 | 188.0909 | 27.35482 |
| #1 | .0000927 | .0284067 | -.000303 | .0001203 | -.034223 | .0001956 | -.001309 |
| #2 | .0008122 | .0322805 | -.000133 | .0002225 | -.034079 | .0024250 | -.000851 |
| #3 | .0000421 | -.004737 | -.000644 | -.000053 | -.045791 | -.000303 | -.000826 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.243363** | **.0037325** | **.0003177** | **-.002257** | **-.002013** | **.0175217** | **.0020359** |
| Stddev | .034181 | .0005288 | .0002180 | .000241 | .000670 | .0024462 | .0002240 |
| %RSD | 14.04532 | 14.16746 | 68.61501 | 10.67121 | 33.26707 | 13.96086 | 11.00333 |
| #1 | -.262298 | .0036369 | .0005149 | -.002506 | -.002778 | .0202926 | .0021320 |
| #2 | -.203904 | .0043026 | .0000836 | -.002238 | -.001729 | .0166111 | .0021959 |
| #3 | -.263886 | .0032581 | .0003546 | -.002026 | -.001533 | .0156614 | .0017799 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: CCB01 Acquired: 8/21/2025 15:07:20 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB01 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.005003 | -.004325 | .0000173 |
| Stddev | .001226 | .001132 | .0001006 |
| %RSD | 24.50745 | 26.16522 | 582.0036 |
| | | | |
| #1 | -.006227 | -.003088 | .0000772 |
| #2 | -.003775 | -.004576 | .0000734 |
| #3 | -.005006 | -.005309 | -.000099 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6492.895 | 109679.6 | 11182.11 | 5051.523 | 8177.430 |
| Stddev | 11.905 | 298.7 | 26.56 | 16.125 | 13.527 |
| %RSD | .1833514 | .2723437 | .2375543 | .3192156 | .1654192 |
| | | | | | |
| #1 | 6482.106 | 109992.3 | 11198.40 | 5069.712 | 8163.782 |
| #2 | 6490.914 | 109649.2 | 11151.46 | 5038.979 | 8177.675 |
| #3 | 6505.667 | 109397.2 | 11196.48 | 5045.878 | 8190.833 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: LR-2 Acquired: 8/21/2025 15:16:19 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2564138** | **-.370946** | **-.120612** | **.0313263** | **-.176292** | **1908.458** | **.0215329** |
| Stddev | .0040153 | .005158 | .004078 | .0059525 | .009974 | 23.812 | .0006406 |
| %RSD | 1.565938 | 1.390608 | 3.381406 | 19.00161 | 5.657392 | 1.247729 | 2.974936 |
| #1 | .2610318 | -.374282 | -.125187 | .0339863 | -.187331 | 1881.541 | .0215568 |
| #2 | .2544623 | -.373552 | -.119294 | .0354849 | -.167930 | 1926.780 | .0221612 |
| #3 | .2537472 | -.365005 | -.117356 | .0245076 | -.173614 | 1917.051 | .0208806 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0426223** | **.1020271** | **^ *****| **-.045869** | **.0914718** | **.2681714** | **2862.452** |
| Stddev | .0002110 | .0016786 | ----- | .000196 | .0014200 | .0076580 | 16.161 |
| %RSD | .4950342 | 1.645252 | ----- | .4282623 | 1.552435 | 2.855646 | .5645753 |
| #1 | .0427676 | .1017332 | ^ ----- | -.046061 | .0908020 | .2691755 | 2867.441 |
| #2 | .0423803 | .1005149 | 9.817340 | -.045668 | .0905106 | .2600608 | 2875.529 |
| #3 | .0427191 | .1038333 | ^ ----- | -.045877 | .0931029 | .2752778 | 2844.385 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.218701** | **1.126895** | **.0570511** | **^ *****| **2.989360** | **.0529666** | **.0844768** |
| Stddev | .000608 | .001948 | .0009036 | ----- | .035621 | .0028470 | .0020101 |
| %RSD | .2780600 | .1728258 | 1.583894 | ----- | 1.191593 | 5.375093 | 2.379427 |
| #1 | -.218687 | 1.125518 | .0580524 | ^ ----- | 2.997471 | .0559809 | .0823125 |
| #2 | -.218100 | 1.126044 | .0562962 | ^ ----- | 3.020226 | .0503232 | .0848327 |
| #3 | -.219316 | 1.129123 | .0568046 | ^ ----- | 2.950383 | .0525957 | .0862851 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1888.420** | **^ *****| **-.015178** | **.0167845** | **.0021534** | **.5392264** | **.1139528** |
| Stddev | 13.145 | ----- | .000087 | .0029401 | .0016770 | .0126653 | .0022871 |
| %RSD | .6960798 | ----- | .5737955 | 17.51682 | 77.87744 | 2.348790 | 2.007085 |
| #1 | 1883.496 | ^ ----- | -.015256 | .0174068 | .0020101 | .5305775 | .1162310 |
| #2 | 1903.316 | ^ ----- | -.015084 | .0135830 | .0005527 | .5333378 | .1139705 |
| #3 | 1878.448 | ^ ----- | -.015194 | .0193636 | .0038975 | .5537640 | .1116568 |

Sample Name: LR-2 Acquired: 8/21/2025 15:16:19 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.463414 | k .2900498 | -2.74375 |
| Stddev | .010995 | .0014490 | .01547 |
| %RSD | 2.372506 | .4995751 | .5637405 |
| | | | |
| #1 | -.473809 | k .2911009 | -2.74850 |
| #2 | -.451905 | .2883969 | -2.75628 |
| #3 | -.464528 | k .2906517 | -2.72646 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5033.465 | 84651.59 | 10807.00 | 3923.048 | 4358.535 |
| Stddev | 4.616 | 184.31 | 19.71 | 12.871 | 5.117 |
| %RSD | .0917047 | .2177257 | .1824052 | .3280740 | .1174005 |
| | | | | | |
| #1 | 5038.406 | 84471.50 | 10806.39 | 3932.170 | 4359.029 |
| #2 | 5032.727 | 84643.44 | 10827.01 | 3928.647 | 4363.387 |
| #3 | 5029.263 | 84839.84 | 10787.59 | 3908.326 | 4353.189 |

Sample Name: LR-3 Acquired: 8/21/2025 15:20:46 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0932202** | **.0106134** | **226.8502** | **.0007616** | **.1233691** | **.1358505** | **-.001933** |
| Stddev | .0024685 | .0021925 | .6896 | .0013559 | .0009043 | .0148933 | .000786 |
| %RSD | 2.648009 | 20.65793 | .3039718 | 178.0416 | .7329769 | 10.96303 | 40.67876 |
| #1 | .0960493 | .0123458 | 227.4067 | .0021064 | .1224317 | .1300378 | -.001902 |
| #2 | .0921064 | .0081484 | 226.0787 | -.000605 | .1234394 | .1247401 | -.001163 |
| #3 | .0915049 | .0113459 | 227.0651 | .000783 | .1242362 | .1527737 | -.002734 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.005048** | **-.001465** | **.2241001** | **23.51165** | **.0059842** | **53.19335** | **.1452815** |
| Stddev | .000097 | .000031 | .0111970 | .15270 | .0001993 | .02723 | .0162257 |
| %RSD | 1.918001 | 2.146281 | 4.996430 | .6494596 | 3.330843 | .0511898 | 11.16846 |
| #1 | -.005089 | -.001442 | .2147563 | 23.66354 | .0058649 | 53.18880 | .1620608 |
| #2 | -.005118 | -.001501 | .2210329 | 23.35815 | .0058734 | 53.22256 | .1296728 |
| #3 | -.004937 | -.001452 | .2365110 | 23.51325 | .0062143 | 53.16868 | .1441108 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **50.18505** | **-.196678** | **23.62850** | **.0039821** | **.2505870** | **-.039250** | **29.26948** |
| Stddev | .59644 | .023303 | .03628 | .0004752 | .0148615 | .001744 | .55014 |
| %RSD | 1.188489 | 11.84818 | .1535241 | 11.93470 | 5.930660 | 4.444580 | 1.879558 |
| #1 | 50.38706 | -.206324 | 23.66971 | .0035313 | .2373267 | -.037235 | 29.70471 |
| #2 | 50.65426 | -.213609 | 23.61436 | .0044785 | .2477839 | -.040257 | 28.65114 |
| #3 | 49.51384 | -.170101 | 23.60142 | .0039364 | .2666504 | -.040257 | 29.45260 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5502131** | **.0014149** | **-.014478** | **-.012496** | **-.043342** | **-.136877** | **.1674445** |
| Stddev | .0050659 | .0006266 | .000221 | .000157 | .000502 | .013514 | .0038251 |
| %RSD | .9207201 | 44.28249 | 1.526683 | 1.256274 | 1.159017 | 9.872754 | 2.284429 |
| #1 | .5517987 | .0013245 | -.014733 | -.012325 | -.042825 | -.132191 | .1717678 |
| #2 | .5445441 | .0020818 | -.014347 | -.012531 | -.043828 | -.152110 | .1660663 |
| #3 | .5542966 | .0008385 | -.014354 | -.012633 | -.043373 | -.126330 | .1644994 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: LR-3 Acquired: 8/21/2025 15:20:46 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0458016 | -.000157 | .0004218 |
| Stddev | .0018609 | .000080 | .0000623 |
| %RSD | 4.062953 | 50.68599 | 14.76582 |
| #1 | .0475504 | -.000069 | .0003985 |
| #2 | .0438459 | -.000224 | .0003746 |
| #3 | .0460086 | -.000179 | .0004924 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5994.317 | 110661.0 | 11197.63 | 4849.807 | 7758.814 |
| Stddev | 26.385 | 479.2 | 53.53 | 30.176 | 42.484 |
| %RSD | .4401739 | .4330637 | .4780118 | .6222044 | .5475575 |
| #1 | 5965.160 | 110160.6 | 11181.93 | 4824.922 | 7710.437 |
| #2 | 6016.549 | 111115.8 | 11153.70 | 4883.371 | 7790.048 |
| #3 | 6001.243 | 110706.7 | 11257.24 | 4841.127 | 7775.957 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: PB169331BL Acquired: 8/21/2025 15:25:41 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0010518** | **-.003203** | **.0027373** | **.0007077** | **-.002158** | **.0225393** | **-.003531** |
| Stddev | .0006287 | .000578 | .0006712 | .0019068 | .001333 | .0064612 | .000735 |
| %RSD | 59.77640 | 18.04375 | 24.51984 | 269.4387 | 61.76902 | 28.66620 | 20.81852 |
| #1 | .0016581 | -.002670 | .0019755 | -.000910 | -.002760 | .0152223 | -.002749 |
| #2 | .0010943 | -.003818 | .0029950 | .002810 | -.000630 | .0274599 | -.004207 |
| #3 | .0004029 | -.003123 | .0032416 | .000223 | -.003082 | .0249356 | -.003638 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000204** | **.0000271** | **-.000586** | **.0006955** | **.0000471** | **.0009085** | **.0096305** |
| Stddev | .0000461 | .0000577 | .009941 | .0001689 | .0000922 | .0002129 | .0007740 |
| %RSD | 226.4528 | 212.6781 | 1696.270 | 24.28339 | 195.6580 | 23.43747 | 8.037264 |
| #1 | .0000414 | .0000268 | .001780 | .0008745 | .0001072 | .0008144 | .0087396 |
| #2 | -.000032 | .0000850 | .007958 | .0006729 | .0000933 | .0011523 | .0100143 |
| #3 | .000052 | -.000030 | -.011496 | .0005390 | -.000059 | .0007589 | .0101377 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0006279** | **.0066753** | **.0002079** | **.0001713** | **.2707880** | **.0012750** | **.0006492** |
| Stddev | .0004048 | .0112939 | .0000502 | .0003270 | .0183205 | .0019530 | .0003179 |
| %RSD | 64.46988 | 169.1883 | 24.13320 | 190.9051 | 6.765629 | 153.1844 | 48.97527 |
| #1 | .0008697 | .0067004 | .0001596 | -.000138 | .2500028 | .0033860 | .0009772 |
| #2 | .0008536 | .0179566 | .0002043 | .000513 | .2777713 | -.000468 | .0003424 |
| #3 | .0001606 | -.004631 | .0002598 | .000139 | .2845899 | .000907 | .0006280 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5082536** | **-.001609** | **-.000014** | **-.002910** | **-.001441** | **.0224158** | **.0020540** |
| Stddev | .0990496 | .000292 | .000102 | .000214 | .000597 | .0097613 | .0008308 |
| %RSD | 19.48822 | 18.14932 | 743.1066 | 7.367561 | 41.45923 | 43.54673 | 40.44559 |
| #1 | .3971617 | -.001945 | -.000130 | -.003148 | -.001664 | .0158797 | .0018947 |
| #2 | .5402461 | -.001419 | .000031 | -.002732 | -.001894 | .0177313 | .0029528 |
| #3 | .5873529 | -.001463 | .000058 | -.002850 | -.000764 | .0336364 | .0013144 |

Sample Name: PB169331BL Acquired: 8/21/2025 15:25:41 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.005007 | .0018562 | -.000069 |
| Stddev | .002234 | .0018385 | .000061 |
| %RSD | 44.62790 | 99.04534 | 88.27526 |
| #1 | -.007052 | .0000342 | -.000004 |
| #2 | -.002622 | .0037106 | -.000079 |
| #3 | -.005347 | .0018237 | -.000124 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6490.396 | 111589.9 | 11281.75 | 5115.674 | 8218.451 |
| Stddev | 9.974 | 279.6 | 86.49 | 33.255 | 7.387 |
| %RSD | .1536718 | .2505713 | .7666197 | .6500637 | .0898818 |
| #1 | 6480.771 | 111556.2 | 11183.34 | 5103.621 | 8210.447 |
| #2 | 6500.685 | 111884.8 | 11345.67 | 5153.275 | 8225.005 |
| #3 | 6489.733 | 111328.6 | 11316.23 | 5090.126 | 8219.902 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: PB169331BS Acquired: 8/21/2025 15:34:38 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7801446** | **2.031859** | **.9579641** | **1.979946** | **.7872637** | **2.002890** | **.1968564** |
| Stddev | .0035021 | .031465 | .0023753 | .009196 | .0033629 | .011850 | .0010460 |
| %RSD | .4489088 | 1.548592 | .2479485 | .4644588 | .4271602 | .5916571 | .5313657 |
| #1 | .7796042 | 2.066293 | .9556404 | 1.988992 | .7911106 | 2.002425 | .1957735 |
| #2 | .7769441 | 2.004604 | .9603877 | 1.970607 | .7848821 | 1.991279 | .1978612 |
| #3 | .7838855 | 2.024679 | .9578641 | 1.980238 | .7857984 | 2.014966 | .1969344 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2035906** | **.1917364** | **1.106519** | **.4004216** | **.1959631** | **.3114399** | **2.974619** |
| Stddev | .0010797 | .0001034 | .005408 | .0007546 | .0004420 | .0002816 | .001058 |
| %RSD | .5303425 | .0539487 | .4887109 | .1884525 | .2255594 | .0904146 | .0355598 |
| #1 | .2024941 | .1917436 | 1.104343 | .4012914 | .1961920 | .3113941 | 2.974471 |
| #2 | .2046527 | .1918360 | 1.102538 | .4000316 | .1954535 | .3111840 | 2.975742 |
| #3 | .2036250 | .1916295 | 1.112676 | .3999417 | .1962437 | .3117415 | 2.973642 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2062734** | **2.090394** | **.4913738** | **.0749157** | **3.599012** | **.3007236** | **.2075829** |
| Stddev | .0006427 | .032114 | .0007365 | .0003932 | .052425 | .0012802 | .0000055 |
| %RSD | .3116021 | 1.536244 | .1498836 | .5248783 | 1.456650 | .4257129 | .0026431 |
| #1 | .2066029 | 2.069920 | .4915136 | .0752200 | 3.656321 | .2992893 | .2075892 |
| #2 | .2066846 | 2.073856 | .4905775 | .0750554 | 3.587245 | .3011308 | .2075807 |
| #3 | .2055327 | 2.127406 | .4920304 | .0744717 | 3.553471 | .3017507 | .2075789 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.823536** | **.2980822** | **.3986683** | **.6632714** | **.1908088** | **.8733754** | **5.591860** |
| Stddev | .070894 | .0006831 | .0007767 | .0021193 | .0005569 | .0030864 | .007092 |
| %RSD | .7216717 | .2291807 | .1948107 | .3195199 | .2918795 | .3533876 | .1268199 |
| #1 | 9.894403 | .2973422 | .3990058 | .6647166 | .1914068 | .8727454 | 5.600002 |
| #2 | 9.752616 | .2986887 | .3977800 | .6608385 | .1907146 | .8767282 | 5.587033 |
| #3 | 9.823588 | .2982159 | .3992191 | .6642590 | .1903049 | .8706526 | 5.588545 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: PB169331BS Acquired: 8/21/2025 15:34:38 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | F -.005701 | .2171740 | .2003427 |
| Stddev | .002693 | .0013432 | .0002536 |
| %RSD | 47.24102 | .6184743 | .1265603 |
| #1 | -.002858 | .2160815 | .2000705 |
| #2 | -.006031 | .2186736 | .2005722 |
| #3 | -.008213 | .2167669 | .2003852 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6323.152 | 109301.2 | 10897.57 | 4946.063 | 7743.797 |
| Stddev | 3.694 | 134.1 | 54.98 | 10.534 | 2.432 |
| %RSD | .0584231 | .1227029 | .5044968 | .2129795 | .0314050 |
| #1 | 6326.746 | 109156.9 | 10954.94 | 4951.201 | 7746.534 |
| #2 | 6323.346 | 109324.9 | 10845.34 | 4933.946 | 7741.884 |
| #3 | 6319.365 | 109422.0 | 10892.43 | 4953.042 | 7742.973 |

Sample Name: PB169325TB Acquired: 8/21/2025 15:43:17 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.002840** | **-.005120** | **-.000869** | **.0071386** | **.0017998** | **.0055625** | **-.007699** |
| Stddev | .002557 | .001249 | .000649 | .0022153 | .0002605 | .0085086 | .001070 |
| %RSD | 90.02277 | 24.39694 | 74.69253 | 31.03296 | 14.47077 | 152.9646 | 13.89169 |
| #1 | -.002014 | -.003678 | -.001570 | .0087327 | .0015028 | .0130593 | -.006475 |
| #2 | -.005708 | -.005807 | -.000289 | .0046090 | .0019075 | .0073135 | -.008166 |
| #3 | -.000799 | -.005875 | -.000748 | .0080741 | .0019891 | -.003685 | -.008455 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000117** | **-.000046** | **.0474958** | **.0002551** | **-.000325** | **.0004162** | **.0131709** |
| Stddev | .000059 | .000020 | .0113933 | .0002283 | .000063 | .0001562 | .0021307 |
| %RSD | 50.55696 | 44.08194 | 23.98793 | 89.50667 | 19.24039 | 37.54118 | 16.17770 |
| #1 | -.000142 | -.000058 | .0600981 | .0000241 | -.000301 | .0005243 | .0108651 |
| #2 | -.000160 | -.000022 | .0379247 | .0002606 | -.000396 | .0004872 | .0135803 |
| #3 | -.000050 | -.000057 | .0444646 | .0004807 | -.000278 | .0002370 | .0150672 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0041285** | **.0055892** | **.0011935** | **-.000393** | **467.4308** | **-.000046** | **.0015988** |
| Stddev | .0003689 | .0201838 | .0001815 | .000266 | 10.0169 | .001322 | .0001066 |
| %RSD | 8.935612 | 361.1222 | 15.20317 | 67.53084 | 2.142961 | 2869.550 | 6.669833 |
| #1 | .0037282 | .0165940 | .0013374 | -.000149 | 457.1595 | .000107 | .0015026 |
| #2 | .0044548 | .0178788 | .0012535 | -.000354 | 477.1721 | -.001438 | .0015803 |
| #3 | .0042024 | -.017705 | .0009897 | -.000676 | 467.9607 | .001192 | .0017135 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5040188** | **.0015057** | **.0004930** | **-.015527** | **-.001811** | **.0397313** | **.0089470** |
| Stddev | .0313972 | .0006420 | .0001473 | .000655 | .000566 | .0055713 | .0008703 |
| %RSD | 6.229363 | 42.63800 | 29.87797 | 4.221242 | 31.27641 | 14.02238 | 9.727198 |
| #1 | .4761818 | .0021636 | .0005385 | -.016284 | -.002314 | .0408801 | .0082682 |
| #2 | .4978226 | .0014724 | .0006122 | -.015145 | -.001197 | .0446386 | .0099282 |
| #3 | .5380521 | .0008810 | .0003283 | -.015153 | -.001922 | .0336752 | .0086448 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: PB169325TB Acquired: 8/21/2025 15:43:17 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0794273 | -.010263 | .0002038 |
| Stddev | .0043343 | .001063 | .0000320 |
| %RSD | 5.456910 | 10.35296 | 15.69030 |
| #1 | .0816554 | -.010949 | .0002407 |
| #2 | .0744322 | -.010801 | .0001858 |
| #3 | .0821942 | -.009039 | .0001848 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6002.994 | 102657.0 | 11713.45 | 4668.950 | 6931.549 |
| Stddev | 9.824 | 328.8 | 115.51 | 19.540 | 4.013 |
| %RSD | .1636520 | .3203055 | .9861356 | .4185056 | .0578993 |
| #1 | 6003.923 | 102550.7 | 11586.30 | 4677.120 | 6932.822 |
| #2 | 6012.320 | 102394.6 | 11811.92 | 4646.651 | 6934.771 |
| #3 | 5992.738 | 103025.9 | 11742.12 | 4683.078 | 6927.054 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2840-05 Acquired: 8/21/2025 15:52:23 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.003264** | **-.004505** | **.0423720** | **.0055890** | **.0039184** | **.5515930** | **.2993377** |
| Stddev | .000347 | .000397 | .0005316 | .0032724 | .0014824 | .0026101 | .0011506 |
| %RSD | 10.63762 | 8.818596 | 1.254641 | 58.55123 | 37.83151 | .4731980 | .3843888 |
| #1 | -.003130 | -.004187 | .0428303 | .0040804 | .0030108 | .5490405 | .2980203 |
| #2 | -.003658 | -.004950 | .0417892 | .0093436 | .0031153 | .5514814 | .3001454 |
| #3 | -.003004 | -.004378 | .0424967 | .0033430 | .0056290 | .5542572 | .2998475 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000169** | **.0005579** | **8.077655** | **.0014237** | **.0036060** | **.0088761** | **.7488117** |
| Stddev | .000046 | .0000342 | .023683 | .0002790 | .0001404 | .0003783 | .0084622 |
| %RSD | 27.33502 | 6.125982 | .2931888 | 19.59931 | 3.894297 | 4.262320 | 1.130088 |
| #1 | -.000173 | .0005626 | 8.100423 | .0016405 | .0034591 | .0091153 | .7431710 |
| #2 | -.000213 | .0005216 | 8.053153 | .0015216 | .0036199 | .0084399 | .7447221 |
| #3 | -.000121 | .0005895 | 8.079389 | .0011089 | .0037390 | .0090732 | .7585419 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.530427** | **1.229658** | **.0017473** | **-.000149** | **242.2557** | **.0028604** | **.5808115** |
| Stddev | .000918 | .017863 | .0000641 | .000291 | 2.0022 | .0009005 | .0003968 |
| %RSD | .0600105 | 1.452675 | 3.670188 | 194.9904 | .8264627 | 31.48152 | .0683252 |
| #1 | 1.531236 | 1.249126 | .0018056 | .000010 | 240.3318 | .0019790 | .5809995 |
| #2 | 1.529429 | 1.214022 | .0017577 | -.000485 | 242.1074 | .0037788 | .5810793 |
| #3 | 1.530615 | 1.225826 | .0016786 | .000027 | 244.3278 | .0028235 | .5803556 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **7.618461** | **.1792548** | **.0001255** | **-.012149** | **.0187086** | **1.050140** | **.2205490** |
| Stddev | .042316 | .0018094 | .0001476 | .000886 | .0003331 | .013721 | .0026107 |
| %RSD | .5554466 | 1.009383 | 117.5848 | 7.295436 | 1.780502 | 1.306548 | 1.183738 |
| #1 | 7.578306 | .1781688 | -.000028 | -.012670 | .0188744 | 1.060624 | .2177563 |
| #2 | 7.614426 | .1813435 | .000266 | -.012650 | .0183252 | 1.034611 | .2229285 |
| #3 | 7.662650 | .1782522 | .000139 | -.011125 | .0189263 | 1.055183 | .2209623 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2840-05 Acquired: 8/21/2025 15:52:23 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **2.203068** | **-.009369** | **.0499305** |
| Stddev | .013230 | .001011 | .0000286 |
| %RSD | .6005053 | 10.78993 | .0573197 |
| #1 | 2.187820 | -.010411 | .0499610 |
| #2 | 2.209893 | -.009303 | .0499262 |
| #3 | 2.211491 | -.008393 | .0499043 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **6215.250** | **109463.4** | **12189.21** | **4873.806** | **7301.119** |
| Stddev | 10.560 | 415.3 | 107.64 | 15.467 | 14.131 |
| %RSD | .1699102 | .3793886 | .8830967 | .3173531 | .1935423 |
| #1 | 6203.242 | 109322.8 | 12117.11 | 4864.136 | 7285.765 |
| #2 | 6223.091 | 109136.5 | 12137.57 | 4865.638 | 7304.015 |
| #3 | 6219.417 | 109930.7 | 12312.94 | 4891.645 | 7313.578 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2857-12 Acquired: 8/21/2025 16:01:23 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.002030** | **-.003123** | **-.000785** | **.0024292** | **.0001458** | **-.010053** | **-.004796** |
| Stddev | .002183 | .001226 | .000038 | .0008818 | .0005240 | .007365 | .000467 |
| %RSD | 107.5480 | 39.25601 | 4.893547 | 36.29788 | 359.3565 | 73.26004 | 9.733807 |
| #1 | -.003929 | -.004459 | -.000743 | .0031595 | -.000121 | -.016076 | -.004360 |
| #2 | -.002515 | -.002050 | -.000818 | .0026785 | -.000191 | -.012243 | -.005288 |
| #3 | .000355 | -.002861 | -.000794 | .0014497 | .000750 | -.001842 | -.004740 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000132** | **-.000049** | **.0359074** | **.0001867** | **-.000231** | **.0002889** | **-.003013** |
| Stddev | .000036 | .000043 | .0105903 | .0001951 | .000109 | .0000444 | .006282 |
| %RSD | 27.43565 | 87.62222 | 29.49335 | 104.4758 | 47.22868 | 15.38461 | 208.4920 |
| #1 | -.000092 | -.000099 | .0237056 | .0002073 | -.000154 | .0002455 | -.008589 |
| #2 | -.000162 | -.000025 | .0427098 | .0003707 | -.000182 | .0003343 | .003793 |
| #3 | -.000142 | -.000023 | .0413067 | -.000018 | -.000355 | .0002868 | -.004242 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0034324** | **.0387522** | **-.000217** | **-.000307** | **.2969744** | **-.001314** | **.0012498** |
| Stddev | .0001402 | .0160168 | .000142 | .000433 | .0230973 | .000726 | .0000732 |
| %RSD | 4.084217 | 41.33132 | 65.43909 | 140.9043 | 7.777552 | 55.21770 | 5.860366 |
| #1 | .0032728 | .0208278 | -.000237 | -.000284 | .3190955 | -.001977 | .0012518 |
| #2 | .0035354 | .0437679 | -.000347 | .000114 | .2988165 | -.001427 | .0013220 |
| #3 | .0034890 | .0516610 | -.000066 | -.000751 | .2730111 | -.000539 | .0011756 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.124245** | **-.001269** | **.0002659** | **-.015658** | **-.001470** | **.0253784** | **.0080983** |
| Stddev | .022630 | .000488 | .0002288 | .000452 | .000593 | .0090675 | .0008837 |
| %RSD | 18.21440 | 38.50722 | 86.04642 | 2.885125 | 40.35875 | 35.72905 | 10.91284 |
| #1 | -.098123 | -.001114 | .0004564 | -.015186 | -.001898 | .0226460 | .0076578 |
| #2 | -.137918 | -.001815 | .0000121 | -.015702 | -.000793 | .0179914 | .0075214 |
| #3 | -.136693 | -.000876 | .0003292 | -.016086 | -.001718 | .0354979 | .0091157 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2857-12 Acquired: 8/21/2025 16:01:23 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0231018 | -.008236 | .0000289 |
| Stddev | .0022435 | .000703 | .0000610 |
| %RSD | 9.711479 | 8.542040 | 211.5411 |
| #1 | .0243308 | -.008785 | .0000349 |
| #2 | .0205123 | -.007443 | .0000867 |
| #3 | .0244623 | -.008479 | -.000035 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6531.714 | 113215.0 | 11598.71 | 5073.148 | 8364.939 |
| Stddev | 6.317 | 195.3 | 39.23 | 10.605 | 7.697 |
| %RSD | .0967095 | .1725354 | .3381973 | .2090407 | .0920190 |
| #1 | 6538.916 | 113211.1 | 11563.22 | 5072.882 | 8359.980 |
| #2 | 6529.111 | 113021.7 | 11592.08 | 5062.678 | 8361.031 |
| #3 | 6527.114 | 113412.3 | 11640.83 | 5083.883 | 8373.807 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2883-04 Acquired: 8/21/2025 16:10:21 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.002754** | **-.002414** | **.0053342** | **.0059815** | **.0012887** | **.1042161** | **.2836083** |
| Stddev | .002193 | .001141 | .0004533 | .0020328 | .0015624 | .0024153 | .0004367 |
| %RSD | 79.62292 | 47.25120 | 8.497791 | 33.98457 | 121.2396 | 2.317549 | .1539925 |
| #1 | -.000547 | -.003012 | .0048232 | .0080005 | -.000515 | .1035192 | .2833042 |
| #2 | -.004933 | -.003131 | .0056877 | .0039352 | .002152 | .1069032 | .2841088 |
| #3 | -.002783 | -.001099 | .0054918 | .0060087 | .002229 | .1022260 | .2834119 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000084** | **.0008055** | **31.86456** | **.0004858** | **.0000693** | **.0046262** | **.0450678** |
| Stddev | .000060 | .0000460 | .06619 | .0003139 | .0002126 | .0003362 | .0070187 |
| %RSD | 71.92300 | 5.711144 | .2077104 | 64.61132 | 306.8257 | 7.268165 | 15.57364 |
| #1 | -.000108 | .0008570 | 31.91288 | .0008481 | .0003127 | .0047549 | .0392106 |
| #2 | -.000128 | .0007684 | 31.78912 | .0003137 | -.000080 | .0048791 | .0431454 |
| #3 | -.000015 | .0007912 | 31.89168 | .0002956 | -.000025 | .0042447 | .0528473 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2418859** | **3.165317** | **.0012063** | **-.000448** | **327.9460** | **-.000070** | **.2610703** |
| Stddev | .0004123 | .046814 | .0002906 | .000119 | 2.2847 | .000651 | .0006266 |
| %RSD | .1704322 | 1.478956 | 24.08821 | 26.67524 | .6966611 | 929.7928 | .2400120 |
| #1 | .2423353 | 3.219373 | .0013257 | -.000436 | 330.0716 | .000671 | .2603479 |
| #2 | .2417969 | 3.138403 | .0014182 | -.000572 | 328.2365 | -.000329 | .2614665 |
| #3 | .2415254 | 3.138176 | .0008751 | -.000334 | 325.5300 | -.000551 | .2613965 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.477589** | **.0585210** | **.0005904** | **-.017489** | **-.000891** | **1.860600** | **.0979045** |
| Stddev | .041342 | .0013184 | .0001289 | .000402 | .000285 | .013623 | .0008297 |
| %RSD | 1.188805 | 2.252942 | 21.82775 | 2.297294 | 31.95825 | .7321728 | .8474894 |
| #1 | 3.433091 | .0599795 | .0007331 | -.017935 | -.001178 | 1.845366 | .0973250 |
| #2 | 3.514807 | .0574136 | .0004827 | -.017155 | -.000609 | 1.864825 | .0988549 |
| #3 | 3.484871 | .0581700 | .0005552 | -.017377 | -.000886 | 1.871610 | .0975334 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2883-04 Acquired: 8/21/2025 16:10:21 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **1.217573** | **-.014787** | **.1189640** |
| Stddev | .010598 | .000721 | .0001469 |
| %RSD | .8703824 | 4.875525 | .1234858 |
| #1 | 1.206601 | -.015557 | .1191283 |
| #2 | 1.227752 | -.014679 | .1189180 |
| #3 | 1.218367 | -.014127 | .1188455 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **6028.218** | **104463.3** | **11864.90** | **4741.163** | **6967.481** |
| Stddev | 22.134 | 206.7 | 114.72 | 9.047 | 33.767 |
| %RSD | .3671662 | .1978617 | .9669106 | .1908171 | .4846429 |
| #1 | 6052.540 | 104364.0 | 11739.50 | 4731.854 | 7004.423 |
| #2 | 6022.857 | 104325.0 | 11964.58 | 4749.923 | 6959.810 |
| #3 | 6009.257 | 104700.9 | 11890.62 | 4741.713 | 6938.209 |

Sample Name: LR-1 Acquired: 8/21/2025 16:14:46 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0013481** | **.0087901** | **.0114360** | **-.015856** | **.0161625** | **.0978678** | **-.016834** |
| Stddev | .0015689 | .0022534 | .0009715 | .002854 | .0009279 | .0080177 | .000325 |
| %RSD | 116.3739 | 25.63527 | 8.495432 | 17.99855 | 5.741404 | 8.192354 | 1.929430 |
| #1 | -.000174 | .0063105 | .0123975 | -.015671 | .0166217 | .0973119 | -.016915 |
| #2 | .002960 | .0093469 | .0114556 | -.018798 | .0167712 | .0901426 | -.016476 |
| #3 | .001258 | .0107128 | .0104548 | -.013099 | .0150944 | .1061490 | -.017111 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0001279** | **.0003836** | **2243.323** | **.0114886** | **-.000017** | **.0028118** | **.4230824** |
| Stddev | .0000869 | .0000120 | 17.076 | .0005857 | .000381 | .0004905 | .0065938 |
| %RSD | 67.89466 | 3.125626 | .7612110 | 5.098377 | 2275.393 | 17.44555 | 1.558509 |
| #1 | .0002277 | .0003840 | 2235.638 | .0108447 | -.000125 | .0022518 | .4154763 |
| #2 | .0000689 | .0003954 | 2231.439 | .0116312 | -.000332 | .0031655 | .4271817 |
| #3 | .0000873 | .0003714 | 2262.891 | .0119898 | .000407 | .0030181 | .4265893 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0136620** | **2123.099** | **.0080683** | **-.002914** | **2154.450** | **.0041376** | **.0443593** |
| Stddev | .0009144 | 8.197 | .0005630 | .000754 | 19.878 | .0021851 | .0006421 |
| %RSD | 6.693099 | .3860935 | 6.977337 | 25.86512 | .9226259 | 52.81108 | 1.447418 |
| #1 | .0142534 | 2116.057 | .0074203 | -.003067 | 2173.686 | .0058096 | .0444572 |
| #2 | .0126088 | 2121.142 | .0083483 | -.002096 | 2155.676 | .0049381 | .0449468 |
| #3 | .0141238 | 2132.097 | .0084364 | -.003580 | 2133.987 | .0016651 | .0436740 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **11.56424** | **.0060708** | **.0025783** | **-.016278** | **-.106711** | **-.018267** | **.0129347** |
| Stddev | .77135 | .0011011 | .0004591 | .001107 | .001335 | .005523 | .0017670 |
| %RSD | 6.670135 | 18.13784 | 17.80521 | 6.802544 | 1.251165 | 30.23672 | 13.66062 |
| #1 | 10.74262 | .0067209 | .0024315 | -.017128 | -.105689 | -.015285 | .0120112 |
| #2 | 11.67723 | .0066920 | .0022107 | -.016681 | -.106221 | -.014875 | .0149720 |
| #3 | 12.27286 | .0047994 | .0030929 | -.015026 | -.108221 | -.024640 | .0118208 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: LR-1 Acquired: 8/21/2025 16:14:46 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .1896111 | -.356508 | .0609770 |
| Stddev | .0039188 | .002885 | .0005581 |
| %RSD | 2.066772 | .8091769 | .9152262 |
| #1 | .1886886 | -.355979 | .0615420 |
| #2 | .1939089 | -.353924 | .0604261 |
| #3 | .1862358 | -.359620 | .0609628 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 3946.639 | 73045.38 | 10082.02 | 3137.029 | 4199.261 |
| Stddev | 2.729 | 109.36 | 34.49 | 14.275 | 5.422 |
| %RSD | .0691468 | .1497166 | .3421033 | .4550372 | .1291173 |
| #1 | 3949.092 | 72951.48 | 10049.20 | 3124.368 | 4205.521 |
| #2 | 3947.125 | 73019.21 | 10117.97 | 3152.500 | 4196.018 |
| #3 | 3943.699 | 73165.45 | 10078.91 | 3134.219 | 4196.246 |

Sample Name: Q2909-02 Acquired: 8/21/2025 16:19:26 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.003731** | **-.003603** | **.0006681** | **.0065532** | **.0036448** | **.0704642** | **.0949499** |
| Stddev | .001487 | .001378 | .0010132 | .0022835 | .0009955 | .0006529 | .0003223 |
| %RSD | 39.85963 | 38.25322 | 151.6628 | 34.84601 | 27.31299 | .9266205 | .3394026 |
| #1 | -.004027 | -.002014 | .0010988 | .0082331 | .0044849 | .0700676 | .0946026 |
| #2 | -.005048 | -.004473 | .0013947 | .0039532 | .0039042 | .0701073 | .0952394 |
| #3 | -.002118 | -.004324 | -.000489 | .0074733 | .0025452 | .0712178 | .0950076 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000126** | **.0005940** | **5.420864** | **.0018336** | **.0000225** | **.0175707** | **.2529307** |
| Stddev | .000024 | .0000424 | .025395 | .0002256 | .0000621 | .0001781 | .0081256 |
| %RSD | 19.29859 | 7.143634 | .4684640 | 12.30475 | 275.3339 | 1.013656 | 3.212561 |
| #1 | -.000154 | .0006427 | 5.407712 | .0017923 | -.000048 | .0177268 | .2466373 |
| #2 | -.000113 | .0005655 | 5.450137 | .0020770 | .000047 | .0176085 | .2500510 |
| #3 | -.000111 | .0005737 | 5.404743 | .0016315 | .000068 | .0173767 | .2621040 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0321958** | **.3970342** | **.0040547** | **-.000381** | **330.6480** | **-.002565** | **1.142148** |
| Stddev | .0005597 | .0031034 | .0002915 | .000349 | 1.3267 | .002533 | .003337 |
| %RSD | 1.738529 | .7816536 | 7.189394 | 91.58521 | .4012285 | 98.76195 | .2921277 |
| #1 | .0316903 | .3937069 | .0038077 | -.000318 | 331.6416 | -.005366 | 1.140948 |
| #2 | .0320998 | .3998503 | .0043762 | -.000068 | 329.1415 | -.000434 | 1.139578 |
| #3 | .0327973 | .3975455 | .0039802 | -.000757 | 331.1609 | -.001895 | 1.145919 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **17.04696** | **.0993240** | **.2545976** | **-.014934** | **-.001037** | **.1931747** | **.2754576** |
| Stddev | .09490 | .0006156 | .0006888 | .000361 | .001057 | .0046625 | .0017302 |
| %RSD | .5566979 | .6197807 | .2705313 | 2.414198 | 101.8755 | 2.413629 | .6281333 |
| #1 | 17.09224 | .0999943 | .2538159 | -.014757 | -.002209 | .1967777 | .2750502 |
| #2 | 16.93790 | .0987839 | .2548615 | -.014696 | -.000157 | .1879086 | .2739675 |
| #3 | 17.11073 | .0991937 | .2551154 | -.015349 | -.000745 | .1948376 | .2773552 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2909-02 Acquired: 8/21/2025 16:19:26 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 1.716659 | -.001754 | .0193220 |
| Stddev | .007958 | .001047 | .0001178 |
| %RSD | .4635530 | 59.67613 | .6097515 |
| #1 | 1.710661 | -.002069 | .0194411 |
| #2 | 1.713630 | -.002607 | .0192055 |
| #3 | 1.725686 | -.000586 | .0193195 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6092.139 | 107690.3 | 12535.04 | 4791.987 | 7125.079 |
| Stddev | 12.500 | 71.2 | 15.50 | 16.017 | 16.196 |
| %RSD | .2051852 | .0661180 | .1236794 | .3342488 | .2273089 |
| #1 | 6094.255 | 107641.3 | 12522.56 | 4801.427 | 7136.262 |
| #2 | 6103.446 | 107657.7 | 12530.17 | 4801.040 | 7132.469 |
| #3 | 6078.716 | 107772.0 | 12552.40 | 4773.493 | 7106.506 |

Sample Name: CCV02 Acquired: 8/21/2025 16:23:49 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.079761** | **5.026590** | **4.893696** | **5.136489** | **5.136227** | **9.950036** | **10.08344** |
| Stddev | .003153 | .036135 | .007279 | .011085 | .005666 | .006730 | .12517 |
| %RSD | .0620715 | .7188676 | .1487407 | .2158151 | .1103196 | .0676384 | 1.241310 |
| #1 | 5.077596 | 4.988463 | 4.893794 | 5.130938 | 5.130185 | 9.945418 | 9.94366 |
| #2 | 5.078308 | 5.060332 | 4.886368 | 5.129276 | 5.137072 | 9.957757 | 10.12151 |
| #3 | 5.083379 | 5.030976 | 4.900925 | 5.149253 | 5.141423 | 9.946931 | 10.18516 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2320459** | **2.461003** | **24.89238** | **.9837177** | **2.477404** | **1.262492** | **5.301812** |
| Stddev | .0020637 | .003258 | .07483 | .0016660 | .001738 | .002545 | .041771 |
| %RSD | .8893601 | .1323938 | .3006236 | .1693563 | .0701436 | .2015937 | .7878538 |
| #1 | .2298497 | 2.458383 | 24.84006 | .9824557 | 2.475563 | 1.259968 | 5.311615 |
| #2 | .2323432 | 2.459975 | 24.85899 | .9856061 | 2.477636 | 1.262450 | 5.337810 |
| #3 | .2339449 | 2.464651 | 24.97810 | .9830912 | 2.479015 | 1.265058 | 5.256012 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.510279** | **24.41812** | **2.468011** | **1.245827** | **27.05761** | **2.524255** | **2.525829** |
| Stddev | .006878 | .08891 | .001419 | .001880 | .16720 | .010295 | .001596 |
| %RSD | .2740061 | .3641225 | .0575157 | .1508824 | .6179398 | .4078496 | .0631931 |
| #1 | 2.502753 | 24.31852 | 2.466626 | 1.247983 | 27.16994 | 2.516825 | 2.525333 |
| #2 | 2.511843 | 24.48949 | 2.467944 | 1.244531 | 27.13743 | 2.519934 | 2.524539 |
| #3 | 2.516241 | 24.44634 | 2.469462 | 1.244967 | 26.86546 | 2.536007 | 2.527614 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **25.36158** | **4.683165** | **5.084663** | **4.925779** | **5.083327** | **5.252971** | **4.939496** |
| Stddev | .12465 | .032479 | .003986 | .005558 | .007153 | .006489 | .004305 |
| %RSD | .4915096 | .6935341 | .0784004 | .1128408 | .1407073 | .1235250 | .0871531 |
| #1 | 25.47847 | 4.651580 | 5.080084 | 4.921180 | 5.076201 | 5.258247 | 4.942477 |
| #2 | 25.37588 | 4.681445 | 5.086544 | 4.931955 | 5.083273 | 5.254940 | 4.941451 |
| #3 | 25.23039 | 4.716470 | 5.087360 | 4.924201 | 5.090506 | 5.245726 | 4.934561 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: CCV02 Acquired: 8/21/2025 16:23:49 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV02 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **4.952504** | **4.724238** | **5.184071** |
| Stddev | .005924 | .008186 | .063232 |
| %RSD | .1196244 | .1732741 | 1.219735 |
| #1 | 4.946709 | 4.716204 | 5.151098 |
| #2 | 4.952252 | 4.723943 | 5.144140 |
| #3 | 4.958550 | 4.732568 | 5.256974 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **6133.069** | **108131.9** | **11775.58** | **4818.447** | **7177.243** |
| Stddev | 7.707 | 115.5 | 98.24 | 4.928 | 5.587 |
| %RSD | .1256585 | .1068087 | .8342365 | .1022694 | .0778367 |
| #1 | 6139.815 | 108188.5 | 11879.56 | 4817.558 | 7183.090 |
| #2 | 6134.721 | 107999.1 | 11762.85 | 4823.759 | 7176.678 |
| #3 | 6124.670 | 108208.2 | 11684.33 | 4814.025 | 7171.960 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: CCB02 Acquired: 8/21/2025 16:27:59 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000002** | **-.000297** | **-.000117** | **.0002119** | **-.000799** | **-.002136** | **-.007141** |
| Stddev | .000463 | .001055 | .000840 | .0018134 | .001897 | .006757 | .001127 |
| %RSD | 18869.54 | 355.2762 | 719.9292 | 855.7505 | 237.3329 | 316.2810 | 15.78787 |
| #1 | .000458 | .000365 | .000501 | .0014562 | -.001465 | .004646 | -.006192 |
| #2 | -.000468 | .000258 | -.001073 | -.001869 | .001341 | -.002189 | -.006844 |
| #3 | .000002 | -.001513 | .000222 | .001048 | -.002274 | -.008867 | -.008388 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000377** | **.0000861** | **-.005177** | **-.000384** | **.0000181** | **.0000631** | **.0017974** |
| Stddev | .0000597 | .0000542 | .006300 | .000307 | .0000822 | .0002366 | .0023070 |
| %RSD | 158.5956 | 62.90776 | 121.6997 | 79.99822 | 453.9590 | 374.9266 | 128.3462 |
| #1 | -.000030 | .0001487 | -.007069 | -.000030 | -.000019 | .0003298 | .0040885 |
| #2 | .000084 | .0000543 | -.010314 | -.000580 | .000112 | -.000121 | -.000525 |
| #3 | .000059 | .0000554 | .001853 | -.000541 | -.000039 | -.000019 | .001829 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0008145** | **-.010233** | **-.000256** | **-.000067** | **.5721117** | **.0000173** | **.0003681** |
| Stddev | .0003674 | .009401 | .000286 | .000143 | .0155042 | .0027450 | .0001325 |
| %RSD | 45.10754 | 91.87054 | 111.7163 | 212.3572 | 2.709999 | 15836.06 | 35.98549 |
| #1 | .0009799 | -.018365 | -.000456 | -.000184 | .5603607 | .0029983 | .0003091 |
| #2 | .0010701 | .000060 | .000071 | .000092 | .5662904 | -.002406 | .0005199 |
| #3 | .0003935 | -.012393 | -.000382 | -.000109 | .5896841 | -.000540 | .0002755 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0831933** | **.0007328** | **.0003865** | **-.002177** | **-.001235** | **.0141868** | **.0032169** |
| Stddev | .0314810 | .0001624 | .0001803 | .000232 | .001794 | .0045407 | .0004082 |
| %RSD | 37.84074 | 22.15593 | 46.65684 | 10.67676 | 145.2237 | 32.00637 | 12.69014 |
| #1 | .0999797 | .0006595 | .0003308 | -.002179 | .000177 | .0194270 | .0034550 |
| #2 | .1027236 | .0009189 | .0005881 | -.001944 | -.000630 | .0114167 | .0034503 |
| #3 | .0468768 | .0006201 | .0002405 | -.002409 | -.003254 | .0117166 | .0027455 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: CCB02 Acquired: 8/21/2025 16:27:59 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB02 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.000361 | -.003520 | .0001708 |
| Stddev | .001149 | .000934 | .0000649 |
| %RSD | 317.8207 | 26.54754 | 37.98084 |
| | | | |
| #1 | .000667 | -.002709 | .0002003 |
| #2 | -.001601 | -.003308 | .0002156 |
| #3 | -.000151 | -.004542 | .0000964 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6466.108 | 109696.6 | 11753.15 | 5000.987 | 8243.459 |
| Stddev | 19.125 | 340.8 | 35.54 | 12.881 | 22.335 |
| %RSD | .2957726 | .3106357 | .3023918 | .2575734 | .2709426 |
| | | | | | |
| #1 | 6483.063 | 110024.4 | 11784.46 | 5011.397 | 8253.272 |
| #2 | 6469.885 | 109721.1 | 11760.46 | 4986.581 | 8259.207 |
| #3 | 6445.377 | 109344.2 | 11714.52 | 5004.982 | 8217.897 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2909-02DUP Acquired: 8/21/2025 16:32:19 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.003366** | **-.003247** | **.0031112** | **.0061461** | **.0059720** | **.0842965** | **.1247521** |
| Stddev | .001145 | .000445 | .0002998 | .0040657 | .0009509 | .0037390 | .0013928 |
| %RSD | 34.02251 | 13.71625 | 9.636263 | 66.15116 | 15.92307 | 4.435568 | 1.116497 |
| #1 | -.002947 | -.003093 | .0031234 | .0087751 | .0052595 | .0875268 | .1255885 |
| #2 | -.002490 | -.003748 | .0034046 | .0082001 | .0070517 | .0851620 | .1255236 |
| #3 | -.004662 | -.002899 | .0028054 | .0014632 | .0056046 | .0802006 | .1231442 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000154** | **.0007126** | **6.905155** | **.0023997** | **.0000350** | **.0224417** | **.3331362** |
| Stddev | .000017 | .0000424 | .037252 | .0000411 | .0000401 | .0002997 | .0072665 |
| %RSD | 11.16005 | 5.954133 | .5394849 | 1.711598 | 114.4714 | 1.335420 | 2.181228 |
| #1 | -.000170 | .0007050 | 6.947381 | .0023826 | .0000655 | .0221345 | .3247503 |
| #2 | -.000136 | .0006744 | 6.891149 | .0023699 | -.000010 | .0224571 | .3375726 |
| #3 | -.000155 | .0007582 | 6.876937 | .0024465 | .000050 | .0227333 | .3370855 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0415333** | **.4610589** | **.0050971** | **-.000332** | **430.0655** | **-.003685** | **1.444375** |
| Stddev | .0003373 | .0038865 | .0000356 | .000238 | 5.8498 | .001354 | .000752 |
| %RSD | .8121993 | .8429423 | .6976514 | 71.75338 | 1.360203 | 36.73740 | .0520895 |
| #1 | .0417874 | .4645955 | .0050573 | -.000420 | 435.6895 | -.003415 | 1.443785 |
| #2 | .0416619 | .4568982 | .0051258 | -.000514 | 424.0135 | -.002486 | 1.444118 |
| #3 | .0411506 | .4616830 | .0051083 | -.000062 | 430.4935 | -.005153 | 1.445222 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **21.34725** | **.1305375** | **.3188981** | **-.014261** | **-.000609** | **.2551211** | **.3499287** |
| Stddev | .12999 | .0007447 | .0009163 | .000874 | .001093 | .0075687 | .0009781 |
| %RSD | .6089317 | .5704734 | .2873431 | 6.127430 | 179.2843 | 2.966719 | .2795203 |
| #1 | 21.49408 | .1296998 | .3179554 | -.013414 | -.001871 | .2634564 | .3492153 |
| #2 | 21.30081 | .1311246 | .3189533 | -.014210 | -.000009 | .2532288 | .3495270 |
| #3 | 21.24686 | .1307881 | .3197856 | -.015159 | .000052 | .2486780 | .3510437 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2909-02DUP Acquired: 8/21/2025 16:32:19 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **2.192400** | **.0003271** | **.0243415** |
| Stddev | .020271 | .0003154 | .0002865 |
| %RSD | .9246084 | 96.44811 | 1.177161 |
| #1 | 2.175146 | .0001382 | .0246710 |
| #2 | 2.187330 | .0001518 | .0242027 |
| #3 | 2.214725 | .0006912 | .0241508 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5938.387** | **102141.0** | **11891.66** | **4626.262** | **6877.668** |
| Stddev | 8.462 | 399.1 | 2.06 | 18.489 | 14.827 |
| %RSD | .1424956 | .3906976 | .0173126 | .3996631 | .2155770 |
| #1 | 5933.557 | 102152.1 | 11891.57 | 4619.763 | 6873.548 |
| #2 | 5948.158 | 102534.4 | 11893.76 | 4647.123 | 6894.119 |
| #3 | 5933.447 | 101736.5 | 11889.64 | 4611.900 | 6865.337 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2909-02LX5 Acquired: 8/21/2025 16:36:41 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000455** | **-.001765** | **.0010434** | **.0029677** | **.0010478** | **.0196666** | **.0153099** |
| Stddev | .001954 | .000594 | .0008283 | .0011790 | .0005167 | .0025189 | .0018210 |
| %RSD | 429.5057 | 33.66310 | 79.38980 | 39.72668 | 49.31700 | 12.80784 | 11.89425 |
| #1 | -.002352 | -.002173 | .0017541 | .0018876 | .0015945 | .0168498 | .0170023 |
| #2 | -.000564 | -.002038 | .0001337 | .0042254 | .0009815 | .0217027 | .0133830 |
| #3 | .001551 | -.001083 | .0012423 | .0027901 | .0005674 | .0204472 | .0155443 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000024** | **.0000992** | **1.232008** | **.0000791** | **-.000007** | **.0037992** | **.0449589** |
| Stddev | .000055 | .0000237 | .004597 | .0000925 | .000035 | .0004006 | .0020454 |
| %RSD | 225.0475 | 23.93029 | .3731477 | 116.9119 | 533.1444 | 10.54429 | 4.549428 |
| #1 | -.000087 | .0001100 | 1.227315 | .0000043 | .000022 | .0034745 | .0428889 |
| #2 | .000016 | .0000720 | 1.236503 | .0001825 | .000004 | .0042468 | .0450090 |
| #3 | -.000003 | .0001156 | 1.232205 | .0000506 | -.000046 | .0036762 | .0469787 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0066937** | **.0904976** | **.0005431** | **-.000053** | **71.87343** | **-.000397** | **.2557306** |
| Stddev | .0002093 | .0012417 | .0003216 | .000256 | .18444 | .000320 | .0012354 |
| %RSD | 3.126367 | 1.372070 | 59.22216 | 479.8654 | .2566198 | 80.67564 | .4830663 |
| #1 | .0068458 | .0910177 | .0001835 | .000141 | 71.66048 | -.000417 | .2553718 |
| #2 | .0067803 | .0913947 | .0006424 | -.000344 | 71.97720 | -.000067 | .2547143 |
| #3 | .0064550 | .0890804 | .0008034 | .000042 | 71.98261 | -.000706 | .2571056 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.494994** | **.0246370** | **.0536430** | **-.005337** | **-.000566** | **.0596186** | **.0602565** |
| Stddev | .010940 | .0007956 | .0006298 | .000171 | .000914 | .0108168 | .0021890 |
| %RSD | .3130156 | 3.229369 | 1.174113 | 3.197414 | 161.4064 | 18.14344 | 3.632756 |
| #1 | 3.482432 | .0240482 | .0543617 | -.005153 | -.001455 | .0711708 | .0626859 |
| #2 | 3.502427 | .0243207 | .0533798 | -.005489 | -.000616 | .0579550 | .0596462 |
| #3 | 3.500124 | .0255421 | .0531875 | -.005369 | .000372 | .0497298 | .0584375 |

Sample Name: Q2909-02LX5 Acquired: 8/21/2025 16:36:41 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .3630525 | -.002551 | .0043266 |
| Stddev | .0088544 | .000961 | .0000302 |
| %RSD | 2.438874 | 37.68099 | .6973144 |
| | | | |
| #1 | .3730473 | -.002542 | .0043394 |
| #2 | .3599204 | -.001594 | .0042921 |
| #3 | .3561899 | -.003516 | .0043482 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6245.797 | 110312.5 | 11873.46 | 4920.742 | 7522.683 |
| Stddev | 6.597 | 424.7 | 81.12 | 17.636 | 4.942 |
| %RSD | .1056233 | .3849930 | .6832114 | .3584094 | .0656906 |
| | | | | | |
| #1 | 6238.180 | 110728.5 | 11825.56 | 4915.667 | 7517.028 |
| #2 | 6249.676 | 110329.3 | 11827.71 | 4940.360 | 7524.845 |
| #3 | 6249.536 | 109879.6 | 11967.12 | 4906.200 | 7526.175 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2909-02MS Acquired: 8/21/2025 16:40:58 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8355867** | **1.870154** | **.9367829** | **2.106629** | **.8433747** | **2.048068** | **.2848801** |
| Stddev | .0053257 | .016548 | .0008066 | .007937 | .0024913 | .004231 | .0027636 |
| %RSD | .6373549 | .8848236 | .0861037 | .3767741 | .2954029 | .2065784 | .9700865 |
| #1 | .8298572 | 1.852116 | .9362982 | 2.107933 | .8406083 | 2.050273 | .2847921 |
| #2 | .8403858 | 1.884631 | .9363366 | 2.113834 | .8440747 | 2.050741 | .2876866 |
| #3 | .8365171 | 1.873716 | .9377141 | 2.098121 | .8454413 | 2.043190 | .2821616 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1803641** | **.1988100** | **5.689697** | **.4108372** | **.2030231** | **.3187299** | **3.572610** |
| Stddev | .0002349 | .0002158 | .002759 | .0011955 | .0000363 | .0004508 | .021819 |
| %RSD | .1302431 | .1085648 | .0484842 | .2909875 | .0178923 | .1414381 | .6107206 |
| #1 | .1806281 | .1989874 | 5.686517 | .4096398 | .2029830 | .3188962 | 3.552446 |
| #2 | .1801781 | .1985697 | 5.691137 | .4120308 | .2030537 | .3190739 | 3.595773 |
| #3 | .1802860 | .1988730 | 5.691438 | .4108409 | .2030327 | .3182196 | 3.569611 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2362013** | **2.244420** | **.5076860** | **.0752994** | **283.0134** | **.3076180** | **1.178534** |
| Stddev | .0012094 | .014468 | .0000795 | .0003654 | 1.8098 | .0015388 | .000767 |
| %RSD | .5120316 | .6446115 | .0156528 | .4852348 | .6394664 | .5002311 | .0650538 |
| #1 | .2370213 | 2.260720 | .5076295 | .0754750 | 280.9838 | .3068490 | 1.179409 |
| #2 | .2367703 | 2.233100 | .5077769 | .0755438 | 283.5968 | .3066153 | 1.178213 |
| #3 | .2348123 | 2.239440 | .5076518 | .0748793 | 284.4594 | .3093898 | 1.177980 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **24.12567** | **.3398999** | **.6530290** | **.6885886** | **.2046806** | **1.155192** | **6.105442** |
| Stddev | .14213 | .0008279 | .0003131 | .0010848 | .0022761 | .013641 | .022293 |
| %RSD | .5891261 | .2435713 | .0479463 | .1575344 | 1.112047 | 1.180858 | .3651399 |
| #1 | 24.05554 | .3407507 | .6530597 | .6886514 | .2032613 | 1.147269 | 6.101237 |
| #2 | 24.28924 | .3398520 | .6533255 | .6896406 | .2073060 | 1.170943 | 6.129538 |
| #3 | 24.03224 | .3390970 | .6527016 | .6874738 | .2034747 | 1.147364 | 6.085550 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2909-02MS Acquired: 8/21/2025 16:40:58 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 1.445825 | .1919232 | .2161183 |
| Stddev | .006281 | .0009644 | .0011715 |
| %RSD | .4344424 | .5024743 | .5420544 |
| #1 | 1.444506 | .1930175 | .2168637 |
| #2 | 1.452662 | .1915548 | .2167233 |
| #3 | 1.440308 | .1911975 | .2147680 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5943.755 | 104953.7 | 11842.78 | 4685.106 | 6940.827 |
| Stddev | 2.219 | 150.9 | 26.02 | 11.965 | 4.783 |
| %RSD | .0373312 | .1437547 | .2196805 | .2553776 | .0689148 |
| #1 | 5945.803 | 105092.6 | 11830.86 | 4698.886 | 6946.264 |
| #2 | 5941.397 | 104975.3 | 11872.62 | 4677.356 | 6938.950 |
| #3 | 5944.063 | 104793.2 | 11824.85 | 4679.075 | 6937.267 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2909-02MSD Acquired: 8/21/2025 16:45:07 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8253526** | **1.855114** | **.9255628** | **2.091291** | **.8250345** | **2.024166** | **.2771521** |
| Stddev | .0010986 | .039008 | .0024222 | .006338 | .0017741 | .002531 | .0004594 |
| %RSD | .1331024 | 2.102713 | .2617010 | .3030664 | .2150389 | .1250241 | .1657489 |
| #1 | .8251746 | 1.837578 | .9233175 | 2.085092 | .8255707 | 2.024824 | .2772589 |
| #2 | .8243539 | 1.827953 | .9252411 | 2.091022 | .8264787 | 2.026303 | .2775488 |
| #3 | .8265293 | 1.899813 | .9281298 | 2.097760 | .8230541 | 2.021371 | .2766488 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1786867** | **.1965902** | **5.469413** | **.4071779** | **.2009616** | **.3150085** | **3.512380** |
| Stddev | .0012279 | .0004569 | .016264 | .0012859 | .0003342 | .0007705 | .018872 |
| %RSD | .6871689 | .2324075 | .2973718 | .3158174 | .1662903 | .2445949 | .5372976 |
| #1 | .1796998 | .1965532 | 5.483229 | .4057540 | .2006422 | .3144650 | 3.492551 |
| #2 | .1790392 | .1961529 | 5.451488 | .4082546 | .2009336 | .3146702 | 3.514469 |
| #3 | .1773212 | .1970645 | 5.473521 | .4075249 | .2013088 | .3158903 | 3.530121 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2310471** | **2.213110** | **.5017812** | **.0749682** | **270.0203** | **.3060331** | **1.130614** |
| Stddev | .0005294 | .017785 | .0011936 | .0004431 | 3.5249 | .0038137 | .003429 |
| %RSD | .2291243 | .8036391 | .2378687 | .5910568 | 1.305427 | 1.246182 | .3033087 |
| #1 | .2313535 | 2.226123 | .5014713 | .0751555 | 269.7505 | .3016295 | 1.133725 |
| #2 | .2313519 | 2.192844 | .5007731 | .0752869 | 266.6381 | .3082599 | 1.131180 |
| #3 | .2304358 | 2.220363 | .5030991 | .0744622 | 273.6724 | .3082099 | 1.126937 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **23.35344** | **.3332542** | **.6353406** | **.6706648** | **.2004573** | **1.119584** | **6.028114** |
| Stddev | .18349 | .0014475 | .0008711 | .0036641 | .0002584 | .023049 | .030716 |
| %RSD | .7856982 | .4343442 | .1371021 | .5463396 | .1289241 | 2.058753 | .5095454 |
| #1 | 23.18137 | .3348143 | .6344638 | .6705297 | .2001760 | 1.094167 | 6.006267 |
| #2 | 23.33240 | .3329934 | .6353522 | .6670701 | .2005118 | 1.125454 | 6.014840 |
| #3 | 23.54654 | .3319548 | .6362059 | .6743945 | .2006842 | 1.139131 | 6.063235 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2909-02MSD Acquired: 8/21/2025 16:45:07 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 1.374692 | .1896990 | .2137111 |
| Stddev | .010756 | .0006960 | .0003080 |
| %RSD | .7823974 | .3668954 | .1441313 |
| #1 | 1.367047 | .1902086 | .2135325 |
| #2 | 1.370038 | .1889060 | .2140668 |
| #3 | 1.386991 | .1899825 | .2135341 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6164.538 | 109164.8 | 12267.36 | 4864.684 | 7208.465 |
| Stddev | 4.255 | 428.5 | 60.43 | 28.321 | 7.160 |
| %RSD | .0690205 | .3925376 | .4925747 | .5821773 | .0993274 |
| #1 | 6168.917 | 109580.5 | 12202.70 | 4853.590 | 7210.517 |
| #2 | 6164.278 | 109189.5 | 12276.99 | 4843.590 | 7214.375 |
| #3 | 6160.419 | 108724.5 | 12322.39 | 4896.873 | 7200.503 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2909-02A Acquired: 8/21/2025 16:49:14 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.004094** | **-.004675** | **.0001565** | **.0066040** | **.0053172** | **.0732043** | **.1082302** |
| Stddev | .001819 | .000324 | .0007545 | .0003770 | .0009687 | .0063490 | .0002997 |
| %RSD | 44.42517 | 6.936408 | 482.0904 | 5.708817 | 18.21742 | 8.673026 | .2769350 |
| #1 | -.002295 | -.004683 | .0002986 | .0068094 | .0063435 | .0658799 | .1085554 |
| #2 | -.005932 | -.004996 | .0008299 | .0061689 | .0044189 | .0771403 | .1079650 |
| #3 | -.004054 | -.004347 | -.000659 | .0068338 | .0051893 | .0765926 | .1081704 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000164** | **.0006073** | **6.088291** | **.0021720** | **.0000703** | **.0196504** | **.2754542** |
| Stddev | .000012 | .0000494 | .016132 | .0002138 | .0001246 | .0000585 | .0057234 |
| %RSD | 7.493258 | 8.138810 | .2649652 | 9.843895 | 177.2226 | .2975440 | 2.077808 |
| #1 | -.000171 | .0005598 | 6.081281 | .0019632 | .0001427 | .0196028 | .2807042 |
| #2 | -.000150 | .0006036 | 6.076850 | .0021622 | -.000074 | .0196326 | .2693528 |
| #3 | -.000171 | .0006585 | 6.106742 | .0023905 | .000142 | .0197156 | .2763054 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0334818** | **.4111927** | **.0043229** | **-.000528** | **355.8702** | **-.001606** | **1.273438** |
| Stddev | .0004044 | .0122602 | .0004780 | .000431 | 4.9245 | .001747 | .002691 |
| %RSD | 1.207714 | 2.981612 | 11.05712 | 81.75620 | 1.383788 | 108.7716 | .2113563 |
| #1 | .0334784 | .4047898 | .0039056 | -.000456 | 356.4328 | -.003609 | 1.275105 |
| #2 | .0330792 | .4253287 | .0048444 | -.000136 | 360.4892 | -.000816 | 1.274877 |
| #3 | .0338879 | .4034596 | .0042187 | -.000990 | 350.6885 | -.000394 | 1.270333 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **17.95046** | **.1165927** | **.2826085** | **-.015216** | **-.001200** | **.2239181** | **.3104487** |
| Stddev | .11449 | .0012248 | .0003994 | .000280 | .000771 | .0256538 | .0014345 |
| %RSD | .6377885 | 1.050532 | .1413174 | 1.839138 | 64.29880 | 11.45677 | .4620764 |
| #1 | 18.06562 | .1153174 | .2821515 | -.014935 | -.000827 | .2283741 | .3107062 |
| #2 | 17.83666 | .1177600 | .2827833 | -.015494 | -.002087 | .2470520 | .3089029 |
| #3 | 17.94910 | .1167006 | .2828907 | -.015221 | -.000686 | .1963282 | .3117371 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2909-02A Acquired: 8/21/2025 16:49:14 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 1.930057 | -.002563 | .0212229 |
| Stddev | .011523 | .000834 | .0000907 |
| %RSD | .5970030 | 32.53226 | .4271944 |
| #1 | 1.933320 | -.002256 | .0211881 |
| #2 | 1.917254 | -.003507 | .0211549 |
| #3 | 1.939596 | -.001927 | .0213259 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6084.942 | 106311.0 | 11905.58 | 4781.059 | 7041.284 |
| Stddev | 3.897 | 445.1 | 67.95 | 23.589 | 10.984 |
| %RSD | .0640476 | .4186655 | .5707151 | .4933795 | .1559931 |
| #1 | 6080.547 | 105798.9 | 11981.93 | 4772.703 | 7031.730 |
| #2 | 6087.977 | 106528.9 | 11851.78 | 4762.785 | 7053.285 |
| #3 | 6086.302 | 106605.1 | 11883.01 | 4807.688 | 7038.838 |

Sample Name: PB169324BL Acquired: 8/21/2025 16:53:36 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0001719** | **-.002585** | **-.000704** | **.0029027** | **-.001394** | **.0039237** | **-.007137** |
| Stddev | .0019252 | .000454 | .000662 | .0018414 | .000457 | .0052301 | .000806 |
| %RSD | 1120.129 | 17.56311 | 93.99881 | 63.44017 | 32.81369 | 133.2944 | 11.29770 |
| #1 | -.001113 | -.002439 | -.000611 | .0009726 | -.000883 | -.001620 | -.008055 |
| #2 | .002385 | -.002222 | -.001408 | .0046404 | -.001766 | .004620 | -.006541 |
| #3 | -.000757 | -.003094 | -.000094 | .0030951 | -.001532 | .008771 | -.006816 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000031** | **-.000016** | **-.010845** | **-.000332** | **.0000453** | **.0000582** | **-.007093** |
| Stddev | .000086 | .000031 | .010324 | .000086 | .0001042 | .0001121 | .004576 |
| %RSD | 279.8450 | 202.3818 | 95.19891 | 26.03294 | 229.8746 | 192.5240 | 64.51694 |
| #1 | -.000130 | .000013 | .000542 | -.000256 | .0001102 | .0001727 | -.011926 |
| #2 | .000012 | -.000049 | -.013481 | -.000314 | .0001005 | -.000051 | -.002825 |
| #3 | .000025 | -.000011 | -.019596 | -.000425 | -.000075 | .000053 | -.006530 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000145** | **.0130491** | **-.000024** | **-.000346** | **.5947387** | **-.001692** | **-.001067** |
| Stddev | .000167 | .0067279 | .000197 | .000389 | .0144514 | .001658 | .000134 |
| %RSD | 115.3610 | 51.55818 | 825.0264 | 112.4848 | 2.429880 | 97.97877 | 12.52455 |
| #1 | .000047 | .0188922 | .000083 | .000096 | .5942049 | -.000675 | -.000946 |
| #2 | -.000259 | .0145612 | .000097 | -.000496 | .6094496 | -.003604 | -.001045 |
| #3 | -.000223 | .0056938 | -.000252 | -.000638 | .5805616 | -.000796 | -.001211 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0246619** | **-.002968** | **-.000183** | **-.002737** | **-.002812** | **.0270758** | **.0024798** |
| Stddev | .0284670 | .000707 | .000089 | .000217 | .000772 | .0119348 | .0006034 |
| %RSD | 115.4290 | 23.82780 | 48.88776 | 7.915936 | 27.44085 | 44.07903 | 24.33077 |
| #1 | .0342312 | -.002802 | -.000286 | -.002933 | -.003324 | .0293459 | .0031713 |
| #2 | -.007357 | -.002359 | -.000127 | -.002504 | -.001925 | .0141691 | .0020606 |
| #3 | .047111 | -.003744 | -.000135 | -.002776 | -.003189 | .0377126 | .0022075 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: PB169324BL Acquired: 8/21/2025 16:53:36 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.003932 | -.000609 | -.000042 |
| Stddev | .001044 | .001190 | .000080 |
| %RSD | 26.55809 | 195.4594 | 190.5757 |
| | | | |
| #1 | -.002845 | .000480 | -.000010 |
| #2 | -.004024 | -.000427 | -.000132 |
| #3 | -.004928 | -.001880 | .000017 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6463.939 | 113108.1 | 11695.32 | 5076.311 | 8216.727 |
| Stddev | 5.931 | 348.7 | 61.94 | 9.838 | 16.813 |
| %RSD | .0917541 | .3082863 | .5295878 | .1937989 | .2046137 |
| | | | | | |
| #1 | 6470.726 | 113268.6 | 11743.68 | 5075.431 | 8235.741 |
| #2 | 6461.335 | 113347.7 | 11716.79 | 5066.942 | 8203.828 |
| #3 | 6459.755 | 112708.1 | 11625.51 | 5086.559 | 8210.612 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: PB169324BS Acquired: 8/21/2025 16:57:54 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7602023** | **1.923521** | **.9212292** | **1.931591** | **.7724051** | **1.925659** | **.1845105** |
| Stddev | .0043412 | .023364 | .0005126 | .004784 | .0031551 | .009193 | .0004798 |
| %RSD | .5710581 | 1.214637 | .0556449 | .2476943 | .4084812 | .4773823 | .2600389 |
| #1 | .7642712 | 1.915775 | .9215545 | 1.931968 | .7690596 | 1.929799 | .1839788 |
| #2 | .7556323 | 1.905014 | .9206383 | 1.926629 | .7728288 | 1.932054 | .1846416 |
| #3 | .7607034 | 1.949774 | .9214949 | 1.936176 | .7753270 | 1.915124 | .1849111 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1892513** | **.1838855** | **.9833396** | **.3883546** | **.1892709** | **.3012842** | **2.980037** |
| Stddev | .0004425 | .0002608 | .0025367 | .0020366 | .0002469 | .0003921 | .013220 |
| %RSD | .2338269 | .1418486 | .2579667 | .5244163 | .1304424 | .1301418 | .4436108 |
| #1 | .1894321 | .1838307 | .9806816 | .3869942 | .1891878 | .3012454 | 2.966769 |
| #2 | .1887470 | .1836564 | .9857345 | .3873735 | .1890763 | .3009130 | 2.980133 |
| #3 | .1895748 | .1841694 | .9836027 | .3906960 | .1895486 | .3016943 | 2.993208 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1979444** | **1.931505** | **.4734709** | **.0723536** | **3.153951** | **.2907346** | **.2019977** |
| Stddev | .0014371 | .003281 | .0000640 | .0002266 | .049433 | .0011940 | .0003554 |
| %RSD | .7260201 | .1698912 | .0135086 | .3132271 | 1.567337 | .4106915 | .1759539 |
| #1 | .1971873 | 1.935235 | .4733979 | .0721605 | 3.098436 | .2921104 | .2019796 |
| #2 | .1996018 | 1.930219 | .4734981 | .0726031 | 3.193206 | .2899686 | .2023618 |
| #3 | .1970441 | 1.929062 | .4735168 | .0722973 | 3.170211 | .2901248 | .2016516 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.223706** | **.2771327** | **.3881331** | **.6364762** | **.1855889** | **.8989351** | **5.312730** |
| Stddev | .053179 | .0004969 | .0006317 | .0012647 | .0009319 | .0088362 | .030839 |
| %RSD | .5765453 | .1793067 | .1627493 | .1987074 | .5021211 | .9829593 | .5804771 |
| #1 | 9.169507 | .2776785 | .3880031 | .6379155 | .1858606 | .8888799 | 5.339990 |
| #2 | 9.275802 | .2767065 | .3875766 | .6359704 | .1845514 | .9024637 | 5.279258 |
| #3 | 9.225808 | .2770130 | .3888197 | .6355426 | .1863548 | .9054617 | 5.318943 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: PB169324BS Acquired: 8/21/2025 16:57:54 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | F -.003919 | .1842751 | .1919132 |
| Stddev | .003671 | .0018582 | .0007800 |
| %RSD | 93.66792 | 1.008396 | .4064399 |
| #1 | -.001838 | .1823741 | .1911691 |
| #2 | -.001761 | .1843638 | .1927247 |
| #3 | -.008158 | .1860874 | .1918458 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6403.143 | 111291.7 | 11589.91 | 5008.992 | 7898.093 |
| Stddev | 6.732 | 174.0 | 24.44 | 12.035 | 11.248 |
| %RSD | .1051325 | .1563196 | .2108427 | .2402595 | .1424151 |
| #1 | 6396.577 | 111481.5 | 11575.12 | 5013.425 | 7885.123 |
| #2 | 6410.029 | 111253.9 | 11618.11 | 4995.370 | 7905.176 |
| #3 | 6402.824 | 111139.7 | 11576.49 | 5018.182 | 7903.978 |

Sample Name: Q2814-23 Acquired: 8/21/2025 17:01:55 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0018148** | **-.002493** | **.0086016** | **.0032160** | **.0026931** | **.5470637** | **.0136461** |
| Stddev | .0018329 | .000613 | .0016429 | .0011456 | .0011480 | .0120911 | .0013149 |
| %RSD | 100.9987 | 24.60445 | 19.09969 | 35.62132 | 42.62783 | 2.210189 | 9.635970 |
| #1 | .0017384 | -.001921 | .0085567 | .0019821 | .0014066 | .5566328 | .0124601 |
| #2 | .0036848 | -.003141 | .0102664 | .0042458 | .0036132 | .5334746 | .0150602 |
| #3 | .0000213 | -.002419 | .0069816 | .0034201 | .0030594 | .5510837 | .0134181 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000054** | **.0001446** | **36.73827** | **.0016859** | **-.000197** | **.1043405** | **.1073909** |
| Stddev | .000055 | .0000606 | .06618 | .0001953 | .000154 | .0002097 | .0052872 |
| %RSD | 103.1846 | 41.89504 | .1801388 | 11.58583 | 77.97507 | .2010026 | 4.923273 |
| #1 | -.000004 | .0001051 | 36.68963 | .0018701 | -.000283 | .1041613 | .1108586 |
| #2 | -.000113 | .0002143 | 36.81364 | .0014811 | -.000020 | .1042890 | .1013056 |
| #3 | -.000044 | .0001143 | 36.71155 | .0017066 | -.000289 | .1045712 | .1100085 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0173594** | **13.57399** | **.0023107** | **-.000324** | **85.90423** | **.0044018** | **.0238785** |
| Stddev | .0003562 | .05494 | .0000578 | .000357 | .63032 | .0009603 | .0002341 |
| %RSD | 2.051948 | .4047109 | 2.499837 | 110.3777 | .7337489 | 21.81494 | .9803678 |
| #1 | .0177688 | 13.63015 | .0023070 | -.000636 | 86.13657 | .0032989 | .0237272 |
| #2 | .0171884 | 13.57146 | .0023702 | .000066 | 85.19071 | .0050519 | .0241482 |
| #3 | .0171209 | 13.52037 | .0022548 | -.000400 | 86.38540 | .0048547 | .0237602 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.735120** | **.1567648** | **.0016459** | **-.017213** | **-.000144** | **9.591604** | **1.002879** |
| Stddev | .112786 | .0018912 | .0001480 | .000239 | .000315 | .089613 | .003402 |
| %RSD | 1.291177 | 1.206393 | 8.993090 | 1.389504 | 218.2716 | .9342822 | .3392303 |
| #1 | 8.788860 | .1557384 | .0017169 | -.016938 | -.000420 | 9.606274 | 1.004910 |
| #2 | 8.605514 | .1589473 | .0017450 | -.017369 | -.000212 | 9.495561 | 1.004776 |
| #3 | 8.810985 | .1556087 | .0014757 | -.017333 | .000199 | 9.672976 | .998951 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2814-23 Acquired: 8/21/2025 17:01:55 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **5.489351** | **-.014871** | **.1663265** |
| Stddev | .006346 | .000968 | .0002970 |
| %RSD | .1156038 | 6.510678 | .1785910 |
| #1 | 5.484526 | -.015446 | .1659934 |
| #2 | 5.496539 | -.015413 | .1664226 |
| #3 | 5.486987 | -.013753 | .1665637 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **6288.007** | **110142.5** | **11717.98** | **4926.345** | **7475.594** |
| Stddev | 11.942 | 236.1 | 102.22 | 5.261 | 7.351 |
| %RSD | .1899250 | .2143632 | .8723109 | .1067831 | .0983358 |
| #1 | 6294.264 | 110341.0 | 11790.68 | 4927.113 | 7484.002 |
| #2 | 6295.520 | 110205.2 | 11601.11 | 4931.180 | 7472.397 |
| #3 | 6274.236 | 109881.4 | 11762.15 | 4920.743 | 7470.383 |

Sample Name: Q2916-01 Acquired: 8/21/2025 17:06:06 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1053325** | **-.036315** | **.1871706** | **.0060589** | **-.024054** | **187.5423** |
| Stddev | .0018915 | .002486 | .0021453 | .0045376 | .000442 | .0405 |
| %RSD | 1.795727 | 6.844404 | 1.146179 | 74.89263 | 1.837433 | .0215910 |
| #1 | .1068252 | -.033834 | .1848072 | .0110481 | -.023715 | 187.5576 |
| #2 | .1032054 | -.036307 | .1877095 | .0021784 | -.023894 | 187.5729 |
| #3 | .1059670 | -.038805 | .1889951 | .0049500 | -.024554 | 187.4964 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7486311** | **.0104689** | **.0129402** | **54.37602** | **.3508488** | **.2350437** |
| Stddev | .0032817 | .0001624 | .0000968 | .03869 | .0007043 | .0005450 |
| %RSD | .4383614 | 1.550856 | .7483759 | .0711607 | .2007292 | .2318881 |
| #1 | .7524196 | .0105889 | .0130323 | 54.36881 | .3502159 | .2346729 |
| #2 | .7468101 | .0105336 | .0129491 | 54.41782 | .3507230 | .2347888 |
| #3 | .7466637 | .0102841 | .0128392 | 54.34144 | .3516075 | .2356695 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4277466** | **384.2937** | **6.552734** | **47.78490** | **.3106234** | **.0173746** |
| Stddev | .0005032 | 1.5533 | .020844 | .12200 | .0002341 | .0002972 |
| %RSD | .1176418 | .4041888 | .3181023 | .2553068 | .0753589 | 1.710799 |
| #1 | .4283181 | 382.5210 | 6.570037 | 47.65690 | .3105102 | .0170342 |
| #2 | .4273700 | 384.9444 | 6.558572 | 47.89984 | .3108926 | .0175824 |
| #3 | .4275517 | 385.4159 | 6.529593 | 47.79796 | .3104675 | .0175073 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **22.02314** | **.9070415** | **.6207274** | **12.78541** | **.4014646** | **.0155289** |
| Stddev | .09320 | .0030136 | .0006742 | .07099 | .0101096 | .0002304 |
| %RSD | .4231813 | .3322416 | .1086107 | .5552384 | 2.518187 | 1.483470 |
| #1 | 21.96814 | .9062225 | .6214963 | 12.77295 | .3919023 | .0153545 |
| #2 | 21.97053 | .9103799 | .6204487 | 12.72147 | .4004469 | .0154421 |
| #3 | 22.13074 | .9045220 | .6202373 | 12.86180 | .4120446 | .0157900 |

Sample Name: Q2916-01 Acquired: 8/21/2025 17:06:06 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0028105 | F 10.24499 | 6.184741 | 8.950097 | 3.730737 | .1294203 |
| Stddev | .0006382 | .02289 | .037558 | .045317 | .032046 | .0010936 |
| %RSD | 22.70867 | .2234462 | .6072703 | .5063342 | .8589809 | .8449800 |
| #1 | .0022044 | 10.27063 | 6.226445 | 8.909908 | 3.703163 | .1305582 |
| #2 | .0027505 | 10.23775 | 6.174195 | 8.999214 | 3.765895 | .1283772 |
| #3 | .0034766 | 10.22660 | 6.153583 | 8.941169 | 3.723151 | .1293256 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | -.180316 |
| Stddev | .002194 |
| %RSD | 1.216801 |
| #1 | -.177803 |
| #2 | -.181291 |
| #3 | -.181853 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 7264.016 | 126710.6 | 14507.87 | 5708.380 | 6663.636 |
| Stddev | 7.540 | 402.3 | 63.43 | 10.137 | 8.631 |
| %RSD | .1037934 | .3175054 | .4371912 | .1775795 | .1295220 |
| #1 | 7269.364 | 127174.1 | 14470.66 | 5702.475 | 6671.153 |
| #2 | 7255.393 | 126507.1 | 14471.85 | 5720.085 | 6654.211 |
| #3 | 7267.292 | 126450.8 | 14581.11 | 5702.580 | 6665.544 |

Sample Name: Q2904-02 Acquired: 8/21/2025 17:10:05 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.003025** | **-.004206** | **-.000729** | **.0034103** | **.0027107** | **.1395525** |
| Stddev | .001076 | .000248 | .000167 | .0031372 | .0015011 | .0130891 |
| %RSD | 35.55243 | 5.886806 | 22.92349 | 91.99182 | 55.37584 | 9.379331 |
| #1 | -.003797 | -.004472 | -.000920 | .0003105 | .0022060 | .1318296 |
| #2 | -.001797 | -.003983 | -.000660 | .0065835 | .0015270 | .1546653 |
| #3 | -.003482 | -.004162 | -.000608 | .0033368 | .0043990 | .1321626 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1500778** | **-.000050** | **.0000163** | **54.48073** | **.0011902** | **.0001244** |
| Stddev | .0018151 | .000029 | .0000077 | .19072 | .0000073 | .0001756 |
| %RSD | 1.209429 | 58.40830 | 46.91630 | .3500605 | .6089513 | 141.1579 |
| #1 | .1516734 | -.000053 | .0000233 | 54.65497 | .0011899 | .0002645 |
| #2 | .1481031 | -.000019 | .0000175 | 54.27698 | .0011831 | -.000073 |
| #3 | .1504570 | -.000077 | .0000082 | 54.51024 | .0011976 | .000181 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0845021** | **.2006147** | **.0248915** | **7.994386** | **.0016834** | **-.000932** |
| Stddev | .0004405 | .0016904 | .0002639 | .056616 | .0003834 | .000379 |
| %RSD | .5213129 | .8426246 | 1.060165 | .7081919 | 22.77665 | 40.62676 |
| #1 | .0848180 | .2025440 | .0247760 | 8.035932 | .0014234 | -.000602 |
| #2 | .0846894 | .1993933 | .0251935 | 7.929900 | .0021238 | -.000849 |
| #3 | .0839989 | .1999067 | .0247051 | 8.017326 | .0015032 | -.001345 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **37.68455** | **.0019904** | **.0331009** | **5.094741** | **.0194514** | **.0009891** |
| Stddev | .22667 | .0003724 | .0000542 | .017728 | .0001418 | .0000894 |
| %RSD | .6014939 | 18.70825 | .1635950 | .3479570 | .7289042 | 9.033675 |
| #1 | 37.47880 | .0024204 | .0330469 | 5.074434 | .0192920 | .0010870 |
| #2 | 37.64732 | .0017772 | .0331552 | 5.107123 | .0195632 | .0009685 |
| #3 | 37.92753 | .0017736 | .0331004 | 5.102668 | .0194991 | .0009119 |

Sample Name: Q2904-02 Acquired: 8/21/2025 17:10:05 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.014773 | -.002027 | F 11.54593 | .5576959 | 9.902689 | -.014978 |
| Stddev | .000288 | .001176 | .09377 | .0027682 | .046579 | .000400 |
| %RSD | 1.950166 | 58.01747 | .8121167 | .4963567 | .4703699 | 2.668732 |
| #1 | -.015097 | -.002625 | 11.43771 | .5596484 | 9.952779 | -.014674 |
| #2 | -.014548 | -.000672 | 11.59702 | .5589114 | 9.894611 | -.015431 |
| #3 | -.014672 | -.002783 | 11.60305 | .5545280 | 9.860677 | -.014830 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1891832 |
| Stddev | .0009589 |
| %RSD | .5068783 |
| #1 | .1899310 |
| #2 | .1881021 |
| #3 | .1895166 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6343.826 | 110876.6 | 11795.76 | 4957.479 | 7683.763 |
| Stddev | 22.596 | 321.1 | 82.87 | 3.667 | 32.131 |
| %RSD | .3561844 | .2895615 | .7025607 | .0739746 | .4181691 |
| #1 | 6317.746 | 111100.3 | 11704.89 | 4960.276 | 7647.384 |
| #2 | 6357.529 | 111020.7 | 11867.17 | 4958.833 | 7695.645 |
| #3 | 6356.203 | 110508.7 | 11815.23 | 4953.327 | 7708.262 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: CCV03 Acquired: 8/21/2025 17:14:19 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.042180** | **4.967977** | **4.947853** | **5.068446** | **5.069656** | **9.865227** | **9.824822** |
| Stddev | .001160 | .041288 | .008137 | .006056 | .009864 | .023537 | .049960 |
| %RSD | .0230097 | .8310924 | .1644556 | .1194779 | .1945640 | .2385825 | .5085129 |
| #1 | 5.043239 | 4.971786 | 4.940910 | 5.062236 | 5.071123 | 9.889865 | 9.775388 |
| #2 | 5.042361 | 5.007229 | 4.945842 | 5.074334 | 5.059141 | 9.842973 | 9.823784 |
| #3 | 5.040940 | 4.924916 | 4.956807 | 5.068768 | 5.078705 | 9.862843 | 9.875293 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2430043** | **2.492281** | **24.67973** | **.9966273** | **2.500682** | **1.265700** | **5.058684** |
| Stddev | .0016742 | .004235 | .03177 | .0014155 | .005317 | .002998 | .018301 |
| %RSD | .6889705 | .1699395 | .1287354 | .1420290 | .2126052 | .2368258 | .3617821 |
| #1 | .2423123 | 2.488597 | 24.64568 | .9954905 | 2.495906 | 1.263237 | 5.045238 |
| #2 | .2417869 | 2.491337 | 24.68494 | .9982128 | 2.499730 | 1.264827 | 5.079526 |
| #3 | .2449136 | 2.496908 | 24.70858 | .9961787 | 2.506410 | 1.269038 | 5.051288 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.468735** | **24.52115** | **2.493668** | **1.246409** | **24.16851** | **2.490424** | **2.517436** |
| Stddev | .016797 | .03770 | .003770 | .001113 | .12201 | .004897 | .006387 |
| %RSD | .6804036 | .1537629 | .1511968 | .0892875 | .5048207 | .1966397 | .2537200 |
| #1 | 2.456162 | 24.48685 | 2.490000 | 1.246233 | 24.04565 | 2.493604 | 2.510417 |
| #2 | 2.462231 | 24.51508 | 2.493471 | 1.247600 | 24.28965 | 2.484785 | 2.522907 |
| #3 | 2.487812 | 24.56152 | 2.497533 | 1.245395 | 24.17021 | 2.492883 | 2.518984 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **24.08486** | **4.866630** | **5.059106** | **4.974787** | **4.970495** | **5.034075** | **4.982000** |
| Stddev | .10060 | .036070 | .002967 | .005211 | .016363 | .048081 | .021556 |
| %RSD | .4177076 | .7411791 | .0586506 | .1047483 | .3292067 | .9551050 | .4326756 |
| #1 | 23.99949 | 4.853286 | 5.059315 | 4.972465 | 4.957815 | 5.058004 | 4.992658 |
| #2 | 24.19578 | 4.839133 | 5.056040 | 4.980755 | 4.964705 | 5.065496 | 4.996151 |
| #3 | 24.05931 | 4.907471 | 5.061964 | 4.971140 | 4.988966 | 4.978725 | 4.957192 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: CCV03 Acquired: 8/21/2025 17:14:19 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **4.960947** | **4.548469** | **5.017385** |
| Stddev | .025046 | .023809 | .021281 |
| %RSD | .5048672 | .5234558 | .4241542 |
| #1 | 4.973106 | 4.527913 | 4.993308 |
| #2 | 4.977593 | 4.542936 | 5.033679 |
| #3 | 4.932143 | 4.574558 | 5.025170 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **6129.839** | **106670.2** | **11187.40** | **4843.467** | **7125.612** |
| Stddev | 12.417 | 268.3 | 67.41 | 17.704 | 12.471 |
| %RSD | .2025712 | .2515061 | .6025460 | .3655256 | .1750107 |
| #1 | 6136.240 | 106526.0 | 11199.38 | 4860.530 | 7136.494 |
| #2 | 6137.750 | 106504.9 | 11248.01 | 4825.185 | 7128.336 |
| #3 | 6115.527 | 106979.8 | 11114.80 | 4844.686 | 7112.004 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: CCB03 Acquired: 8/21/2025 17:18:30 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0008108** | **-.001285** | **.0003187** | **.0009511** | **-.001149** | **.0082314** | **-.004682** |
| Stddev | .0009234 | .000984 | .0002238 | .0012904 | .000923 | .0063007 | .001077 |
| %RSD | 113.8850 | 76.59575 | 70.21868 | 135.6691 | 80.36589 | 76.54468 | 23.00106 |
| #1 | .0002235 | -.001052 | .0005771 | .0024352 | -.000637 | .0148800 | -.005703 |
| #2 | .0003338 | -.000438 | .0001889 | .0003239 | -.002215 | .0023485 | -.004786 |
| #3 | .0018752 | -.002365 | .0001901 | .0000943 | -.000595 | .0074659 | -.003557 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000017** | **-.000009** | **-.007426** | **-.000153** | **.0000965** | **-.000171** | **-.010187** |
| Stddev | .000051 | .000056 | .004695 | .000176 | .0000912 | .000242 | .002508 |
| %RSD | 305.8002 | 593.0767 | 63.22809 | 114.8749 | 94.58763 | 141.6912 | 24.62212 |
| #1 | .000026 | .000052 | -.008345 | -.000354 | .0001846 | -.000440 | -.011380 |
| #2 | -.000073 | -.000059 | -.011594 | -.000081 | .0000025 | .000030 | -.007305 |
| #3 | -.000003 | -.000021 | -.002339 | -.000025 | .0001023 | -.000103 | -.011875 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0003018** | **-.000201** | **-.000239** | **-.000575** | **.2791795** | **-.001528** | **.0000644** |
| Stddev | .0006348 | .022747 | .000342 | .000373 | .0572677 | .001528 | .0002645 |
| %RSD | 210.3691 | 11310.09 | 142.9451 | 64.89673 | 20.51286 | 99.99653 | 410.7002 |
| #1 | .0002076 | -.017660 | .000143 | -.000508 | .2194637 | -.000500 | .0003647 |
| #2 | -.000281 | .025522 | -.000517 | -.000976 | .2844384 | -.000800 | -.000038 |
| #3 | .000978 | -.008465 | -.000345 | -.000239 | .3336363 | -.003283 | -.000134 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4491385** | **.0017263** | **.0003166** | **-.002539** | **-.000892** | **.0177421** | **.0038045** |
| Stddev | .0961783 | .0004518 | .0001233 | .000389 | .001280 | .0074000 | .0006269 |
| %RSD | 21.41395 | 26.16954 | 38.96681 | 15.32579 | 143.4889 | 41.70902 | 16.47684 |
| #1 | .3510279 | .0014584 | .0003812 | -.002299 | .000569 | .0132655 | .0041013 |
| #2 | .4531270 | .0022479 | .0003941 | -.002989 | -.001817 | .0136771 | .0042278 |
| #3 | .5432604 | .0014726 | .0001743 | -.002331 | -.001428 | .0262836 | .0030843 |

Sample Name: CCB03 Acquired: 8/21/2025 17:18:30 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB03 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0014476 | -.003557 | .0001299 |
| Stddev | .0023888 | .000746 | .0000397 |
| %RSD | 165.0215 | 20.96264 | 30.59180 |
| | | | |
| #1 | .0004451 | -.003209 | .0001529 |
| #2 | .0041743 | -.003049 | .0001527 |
| #3 | -.000277 | -.004413 | .0000840 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6509.225 | 112981.8 | 11330.85 | 5074.776 | 8229.689 |
| Stddev | 5.535 | 260.3 | 74.97 | 3.634 | 3.763 |
| %RSD | .0850285 | .2303485 | .6616371 | .0715996 | .0457208 |
| | | | | | |
| #1 | 6515.543 | 113244.3 | 11352.13 | 5072.137 | 8233.119 |
| #2 | 6505.230 | 112723.9 | 11247.54 | 5073.271 | 8230.284 |
| #3 | 6506.903 | 112977.1 | 11392.88 | 5078.920 | 8225.664 |

Sample Name: Q2904-04 Acquired: 8/21/2025 17:22:49 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0013152** | **-.002883** | **.0396570** | **.0019652** | **.0013256** | **3.483482** |
| Stddev | .0018677 | .001668 | .0004782 | .0010776 | .0022300 | .014345 |
| %RSD | 142.0156 | 57.85831 | 1.205743 | 54.83382 | 168.2231 | .4117902 |
| #1 | .0016514 | -.004707 | .0401870 | .0019459 | -.000817 | 3.471266 |
| #2 | -.000698 | -.002503 | .0392581 | .0030524 | .001160 | 3.479902 |
| #3 | .002992 | -.001437 | .0395258 | .0008974 | .003634 | 3.499278 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0859183** | **.0002283** | **.0004868** | **49.73515** | **.0108508** | **.0029446** |
| Stddev | .0007650 | .0000264 | .0000414 | .16828 | .0000874 | .0000677 |
| %RSD | .8903372 | 11.54871 | 8.514420 | .3383478 | .8053484 | 2.297881 |
| #1 | .0857580 | .0002582 | .0005132 | 49.59546 | .0107587 | .0030226 |
| #2 | .0852461 | .0002179 | .0005082 | 49.68803 | .0109325 | .0029016 |
| #3 | .0867507 | .0002087 | .0004391 | 49.92197 | .0108613 | .0029097 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0797220** | **11.59787** | **.2634681** | **7.198216** | **.0082942** | **.0001313** |
| Stddev | .0001216 | .04194 | .0019358 | .039897 | .0001555 | .0004696 |
| %RSD | .1525052 | .3616297 | .7347307 | .5542596 | 1.874470 | 357.5621 |
| #1 | .0796972 | 11.58001 | .2616048 | 7.160179 | .0081227 | .0005562 |
| #2 | .0798541 | 11.56782 | .2633305 | 7.194725 | .0084260 | .0002106 |
| #3 | .0796148 | 11.64579 | .2654690 | 7.239743 | .0083338 | -.000373 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **28.51875** | **.0103211** | **.4144712** | **7.672632** | **.0408827** | **.0048299** |
| Stddev | .15674 | .0013249 | .0008490 | .045645 | .0003664 | .0002974 |
| %RSD | .5495863 | 12.83662 | .2048289 | .5949043 | .8962749 | 6.157949 |
| #1 | 28.48299 | .0103065 | .4154502 | 7.633642 | .0404727 | .0051373 |
| #2 | 28.38298 | .0116533 | .4139386 | 7.661415 | .0411782 | .0048088 |
| #3 | 28.69028 | .0090036 | .4140247 | 7.722840 | .0409973 | .0045436 |

Sample Name: Q2904-04 Acquired: 8/21/2025 17:22:49 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.015325 | .1554543 | F 10.53322 | 2.319127 | 2.814614 | -.009328 |
| Stddev | .000180 | .0025308 | .04559 | .005224 | .003433 | .001243 |
| %RSD | 1.174981 | 1.628006 | .4327894 | .2252704 | .1219850 | 13.32950 |
| #1 | -.015178 | .1534611 | 10.58016 | 2.322748 | 2.813665 | -.009264 |
| #2 | -.015526 | .1583017 | 10.48912 | 2.321495 | 2.818422 | -.010602 |
| #3 | -.015271 | .1546002 | 10.53037 | 2.313138 | 2.811755 | -.008118 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .1311923 |
| Stddev | .0007623 |
| %RSD | .5810268 |
| #1 | .1305902 |
| #2 | .1309373 |
| #3 | .1320494 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6405.413 | 111946.1 | 12075.60 | 5049.707 | 7678.404 |
| Stddev | 6.130 | 152.1 | 58.71 | 16.460 | 14.887 |
| %RSD | .0957005 | .1358421 | .4861694 | .3259512 | .1938765 |
| #1 | 6411.529 | 111821.2 | 12139.15 | 5034.232 | 7692.561 |
| #2 | 6405.440 | 112115.5 | 12064.28 | 5067.000 | 7679.770 |
| #3 | 6399.269 | 111901.7 | 12023.38 | 5047.890 | 7662.882 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2904-04DUP Acquired: 8/21/2025 17:26:58 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000598** | **-.002418** | **.0008357** | **.0009398** | **.0019724** | **.1577432** |
| Stddev | .000590 | .001668 | .0013567 | .0008091 | .0014334 | .0015735 |
| %RSD | 98.63697 | 69.00321 | 162.3335 | 86.10083 | 72.67282 | .9975150 |
| #1 | -.001229 | -.003566 | -.000601 | .0009261 | .0021231 | .1593355 |
| #2 | -.000506 | -.000504 | .002095 | .0017556 | .0033245 | .1561892 |
| #3 | -.000060 | -.003184 | .001013 | .0001375 | .0004696 | .1577048 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1610629** | **-.000018** | **.0001199** | **58.08882** | **.0011393** | **.0002193** |
| Stddev | .0007089 | .000034 | .0000783 | .12349 | .0000576 | .0001128 |
| %RSD | .4401576 | 183.0098 | 65.30486 | .2125946 | 5.055440 | 51.40201 |
| #1 | .1615404 | -.000047 | .0000528 | 57.94640 | .0011956 | .0000923 |
| #2 | .1614000 | .000019 | .0001010 | 58.16627 | .0011417 | .0002582 |
| #3 | .1602483 | -.000027 | .0002059 | 58.15379 | .0010805 | .0003075 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0874440** | **.2088821** | **.0338058** | **8.479328** | **.0017000** | **-.000451** |
| Stddev | .0006681 | .0059322 | .0002879 | .019163 | .0001390 | .000350 |
| %RSD | .7640094 | 2.839964 | .8514969 | .2260023 | 8.178140 | 77.70910 |
| #1 | .0868218 | .2025784 | .0336606 | 8.470214 | .0016835 | -.000716 |
| #2 | .0873600 | .2097124 | .0336196 | 8.466423 | .0015700 | -.000583 |
| #3 | .0881500 | .2143553 | .0341374 | 8.501348 | .0018466 | -.000054 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **39.06280** | **.0003715** | **.0326150** | **5.463679** | **.0231525** | **.0014608** |
| Stddev | .29584 | .0013976 | .0002654 | .029574 | .0006894 | .0000589 |
| %RSD | .7573378 | 376.1732 | .8138150 | .5412919 | 2.977505 | 4.032289 |
| #1 | 39.37496 | -.001228 | .0326173 | 5.459980 | .0228079 | .0014076 |
| #2 | 38.78657 | .000989 | .0328792 | 5.436129 | .0227034 | .0015241 |
| #3 | 39.02689 | .001354 | .0323484 | 5.494930 | .0239462 | .0014505 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2904-04DUP Acquired: 8/21/2025 17:26:58 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.015701 | -.001697 | F 12.26069 | .6056408 | F 10.80882 | -.013129 |
| Stddev | .000640 | .001227 | .06845 | .0029117 | .04273 | .000573 |
| %RSD | 4.074117 | 72.28346 | .5582841 | .4807588 | .3953289 | 4.366730 |
| #1 | -.016285 | -.000283 | 12.26133 | .6027071 | 10.76012 | -.012552 |
| #2 | -.015801 | -.002478 | 12.19192 | .6056854 | 10.82634 | -.013139 |
| #3 | -.015018 | -.002329 | 12.32881 | .6085300 | 10.84001 | -.013698 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2021949 |
| Stddev | .0003060 |
| %RSD | .1513204 |
| #1 | .2021534 |
| #2 | .2025195 |
| #3 | .2019118 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6379.007 | 109638.5 | 11590.96 | 4982.625 | 7691.772 |
| Stddev | 11.226 | 288.8 | 67.25 | 7.466 | 12.356 |
| %RSD | .1759868 | .2634295 | .5802277 | .1498415 | .1606432 |
| #1 | 6388.894 | 109313.7 | 11629.39 | 4977.745 | 7706.035 |
| #2 | 6381.323 | 109735.6 | 11513.30 | 4991.220 | 7684.973 |
| #3 | 6366.803 | 109866.4 | 11630.19 | 4978.912 | 7684.309 |

Sample Name: Q2904-04LX5 Acquired: 8/21/2025 17:31:12 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.001511** | **-.001299** | **.0080440** | **.0021391** | **-.000222** | **.8956799** | **.0153838** |
| Stddev | .000794 | .000259 | .0004040 | .0006205 | .002186 | .0098204 | .0006887 |
| %RSD | 52.53703 | 19.92863 | 5.022384 | 29.00701 | 982.9506 | 1.096418 | 4.476938 |
| #1 | -.001257 | -.001412 | .0078138 | .0025141 | -.002382 | .9066439 | .0158886 |
| #2 | -.002401 | -.001003 | .0078077 | .0014229 | .001990 | .8876913 | .0145992 |
| #3 | -.000875 | -.001482 | .0085104 | .0024802 | -.000275 | .8927045 | .0156638 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000896** | **.0000770** | **11.39014** | **.0022966** | **.0007696** | **.0178769** | **2.603438** |
| Stddev | .0000674 | .0000357 | .02930 | .0001487 | .0000854 | .0002121 | .017940 |
| %RSD | 75.13096 | 46.33684 | .2571998 | 6.475129 | 11.09997 | 1.186147 | .6890895 |
| #1 | .0000857 | .0001179 | 11.42395 | .0022128 | .0006740 | .0181218 | 2.605761 |
| #2 | .0000244 | .0000527 | 11.37416 | .0022086 | .0008384 | .0177553 | 2.620103 |
| #3 | .0001589 | .0000603 | 11.37231 | .0024683 | .0007963 | .0177538 | 2.584449 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0605942** | **1.659545** | **.0015950** | **-.000531** | **6.432601** | **.0017181** | **.0905776** |
| Stddev | .0007114 | .015946 | .0001852 | .000318 | .038431 | .0023700 | .0004760 |
| %RSD | 1.174077 | .9608474 | 11.61040 | 59.89939 | .5974457 | 137.9447 | .5254679 |
| #1 | .0612514 | 1.651006 | .0014881 | -.000198 | 6.418763 | .0028579 | .0911017 |
| #2 | .0606925 | 1.649687 | .0018089 | -.000831 | 6.476035 | -.001006 | .0904586 |
| #3 | .0598388 | 1.677942 | .0014881 | -.000563 | 6.403005 | .003303 | .0901724 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.778971** | **.0075071** | **.0008992** | **-.005166** | **.0546512** | **2.763358** | **.5010053** |
| Stddev | .037477 | .0004727 | .0001462 | .000008 | .0037657 | .062156 | .0020151 |
| %RSD | 2.106641 | 6.297099 | 16.26204 | .1604307 | 6.890344 | 2.249276 | .4022135 |
| #1 | 1.735707 | .0070532 | .0008593 | -.005168 | .0569540 | 2.827735 | .5023301 |
| #2 | 1.801429 | .0079967 | .0007771 | -.005173 | .0503055 | 2.703693 | .5019996 |
| #3 | 1.799777 | .0074715 | .0010612 | -.005157 | .0566939 | 2.758647 | .4986863 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2904-04LX5 Acquired: 8/21/2025 17:31:12 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .6115367 | -.006164 | .0300408 |
| Stddev | .0099849 | .000605 | .0001688 |
| %RSD | 1.632754 | 9.809841 | .5620441 |
| #1 | .6200889 | -.006819 | .0301864 |
| #2 | .6139572 | -.006047 | .0300802 |
| #3 | .6005641 | -.005627 | .0298557 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6438.724 | 109946.1 | 11630.20 | 5046.855 | 7946.465 |
| Stddev | 11.614 | 77.0 | 31.50 | 18.722 | 9.753 |
| %RSD | .1803848 | .0700674 | .2708043 | .3709717 | .1227280 |
| #1 | 6444.259 | 110001.3 | 11593.87 | 5054.168 | 7948.855 |
| #2 | 6446.536 | 109858.1 | 11649.94 | 5025.580 | 7954.801 |
| #3 | 6425.377 | 109978.7 | 11646.78 | 5060.818 | 7935.740 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2904-04MS Acquired: 8/21/2025 17:35:28 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7810873** | **1.724198** | **.9078584** | **1.924113** | **.7995962** | **2.122281** |
| Stddev | .0018564 | .023652 | .0045717 | .006714 | .0026594 | .007257 |
| %RSD | .2376691 | 1.371791 | .5035663 | .3489427 | .3325876 | .3419648 |
| #1 | .7789440 | 1.707590 | .9027074 | 1.916765 | .7967098 | 2.127282 |
| #2 | .7821898 | 1.751279 | .9114343 | 1.929929 | .8019470 | 2.113957 |
| #3 | .7821282 | 1.713725 | .9094334 | 1.925645 | .8001319 | 2.125604 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3532026** | **.1857388** | **.1862524** | **56.79588** | **.4043724** | **.1941308** |
| Stddev | .0028466 | .0002598 | .0007584 | .13673 | .0024181 | .0007037 |
| %RSD | .8059289 | .1398574 | .4071875 | .2407356 | .5979970 | .3625113 |
| #1 | .3542201 | .1857765 | .1853835 | 56.95181 | .4016633 | .1934200 |
| #2 | .3554006 | .1854622 | .1865923 | 56.73937 | .4051416 | .1941451 |
| #3 | .3499871 | .1859776 | .1867813 | 56.69647 | .4063124 | .1948272 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3789035** | **3.299503** | **.2264785** | **10.07603** | **.4802867** | **.0274954** |
| Stddev | .0012052 | .009791 | .0020732 | .04359 | .0017107 | .0005233 |
| %RSD | .3180773 | .2967504 | .9154041 | .4325930 | .3561748 | 1.903360 |
| #1 | .3775194 | 3.302539 | .2277596 | 10.08408 | .4783585 | .0270460 |
| #2 | .3797211 | 3.307417 | .2275892 | 10.02898 | .4808791 | .0280699 |
| #3 | .3794699 | 3.288554 | .2240866 | 10.11503 | .4816223 | .0273701 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **41.24898** | **.3022008** | **.2355766** | **14.87173** | **.2774292** | **.4271433** |
| Stddev | .34050 | .0016754 | .0013255 | .11050 | .0009646 | .0012908 |
| %RSD | .8254695 | .5544080 | .5626695 | .7430114 | .3476796 | .3021988 |
| #1 | 41.41591 | .3007948 | .2360347 | 14.88098 | .2784250 | .4256673 |
| #2 | 41.47380 | .3040546 | .2340828 | 14.97730 | .2773633 | .4280611 |
| #3 | 40.85723 | .3017530 | .2366123 | 14.75689 | .2764992 | .4277015 |

Sample Name: Q2904-04MS Acquired: 8/21/2025 17:35:28 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6529352 | .1964301 | F 12.62121 | 6.056002 | F 10.04123 | .1742179 |
| Stddev | .0022481 | .0009988 | .02058 | .017511 | .05625 | .0009468 |
| %RSD | .3442985 | .5084956 | .1630912 | .2891554 | .5602089 | .5434298 |
| #1 | .6504984 | .1956877 | 12.61653 | 6.036437 | 9.97630 | .1745986 |
| #2 | .6533790 | .1975657 | 12.60336 | 6.061364 | 10.07227 | .1749150 |
| #3 | .6549283 | .1960369 | 12.64373 | 6.070206 | 10.07513 | .1731401 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3911062 |
| Stddev | .0026584 |
| %RSD | .6797132 |
| #1 | .3928380 |
| #2 | .3924352 |
| #3 | .3880454 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6311.228 | 110130.5 | 11659.18 | 4972.435 | 7578.829 |
| Stddev | 14.854 | 247.5 | 15.81 | 49.408 | 22.722 |
| %RSD | .2353624 | .2247637 | .1356318 | .9936441 | .2998092 |
| #1 | 6327.254 | 110341.0 | 11658.73 | 4989.418 | 7604.751 |
| #2 | 6297.922 | 110192.8 | 11675.22 | 5011.113 | 7562.356 |
| #3 | 6308.508 | 109857.8 | 11643.60 | 4916.775 | 7569.379 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2904-04MSD Acquired: 8/21/2025 17:39:25 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7995126** | **1.813733** | **.9284386** | **1.967129** | **.8152163** | **2.206968** |
| Stddev | .0017642 | .093577 | .0015293 | .007596 | .0028315 | .010278 |
| %RSD | .2206642 | 5.159350 | .1647122 | .3861581 | .3473331 | .4657054 |
| #1 | .7974892 | 1.712716 | .9298976 | 1.959184 | .8165212 | 2.217307 |
| #2 | .8007292 | 1.831026 | .9268476 | 1.967883 | .8119676 | 2.206845 |
| #3 | .8003193 | 1.897457 | .9285705 | 1.974320 | .8171601 | 2.196752 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3728053** | **.1882497** | **.1910463** | **61.21196** | **.4142465** | **.1988812** |
| Stddev | .0018591 | .0013368 | .0003584 | .10137 | .0007047 | .0001484 |
| %RSD | .4986786 | .7101024 | .1875981 | .1656042 | .1701109 | .0746189 |
| #1 | .3733443 | .1892505 | .1906868 | 61.23669 | .4136222 | .1988299 |
| #2 | .3743353 | .1887670 | .1910485 | 61.29868 | .4141068 | .1990485 |
| #3 | .3707362 | .1867316 | .1914036 | 61.10052 | .4150106 | .1987653 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3899179** | **3.470047** | **.2448314** | **10.56891** | **.4924349** | **.0360795** |
| Stddev | .0003442 | .019834 | .0017718 | .01674 | .0004481 | .0036513 |
| %RSD | .0882871 | .5715642 | .7236595 | .1583614 | .0909908 | 10.12020 |
| #1 | .3897681 | 3.457986 | .2468640 | 10.56928 | .4929267 | .0402918 |
| #2 | .3896738 | 3.459217 | .2440166 | 10.58546 | .4920498 | .0341303 |
| #3 | .3903116 | 3.492938 | .2436137 | 10.55199 | .4923282 | .0338164 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **44.30821** | **.3084957** | **.2433587** | **15.42850** | **.2811272** | **.4369917** |
| Stddev | .08912 | .0013364 | .0008102 | .04194 | .0027245 | .0007245 |
| %RSD | .2011323 | .4332044 | .3329066 | .2718516 | .9691496 | .1657825 |
| #1 | 44.22391 | .3085933 | .2426790 | 15.38049 | .2838198 | .4365233 |
| #2 | 44.29925 | .3071132 | .2442552 | 15.44701 | .2811900 | .4366257 |
| #3 | 44.40147 | .3097806 | .2431419 | 15.45801 | .2783718 | .4378262 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2904-04MSD Acquired: 8/21/2025 17:39:25 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6697100 | .2005726 | F 13.47793 | 6.217964 | F 11.78671 | .1801011 |
| Stddev | .0021876 | .0013848 | .08661 | .040344 | .14322 | .0008870 |
| %RSD | .3266448 | .6904418 | .6426132 | .6488328 | 1.215056 | .4924790 |
| #1 | .6672039 | .2009320 | 13.41865 | 6.171918 | 11.62825 | .1810859 |
| #2 | .6712370 | .2017423 | 13.43781 | 6.234870 | 11.82495 | .1798522 |
| #3 | .6706890 | .1990435 | 13.57733 | 6.247106 | 11.90692 | .1793652 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .4161966 |
| Stddev | .0014159 |
| %RSD | .3401917 |
| #1 | .4167168 |
| #2 | .4172787 |
| #3 | .4145942 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6308.226 | 108884.7 | 11683.18 | 4924.852 | 7561.231 |
| Stddev | 7.145 | 81.5 | 88.93 | 22.962 | 1.529 |
| %RSD | .1132680 | .0748890 | .7611581 | .4662432 | .0202155 |
| #1 | 6300.478 | 108829.6 | 11623.62 | 4951.180 | 7559.580 |
| #2 | 6309.643 | 108846.1 | 11640.52 | 4914.399 | 7561.517 |
| #3 | 6314.556 | 108978.3 | 11785.40 | 4908.976 | 7562.597 |

Sample Name: Q2909-04A Acquired: 8/21/2025 17:43:23 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7927433** | **1.857239** | **.9379807** | **1.958342** | **.7979972** | **3.647627** |
| Stddev | .0050259 | .056211 | .0019708 | .003301 | .0012882 | .032125 |
| %RSD | .6339922 | 3.026590 | .2101110 | .1685380 | .1614340 | .8807064 |
| #1 | .7922754 | 1.893032 | .9399233 | 1.954894 | .7990776 | 3.620295 |
| #2 | .7879677 | 1.792451 | .9359828 | 1.958658 | .7965715 | 3.683013 |
| #3 | .7979869 | 1.886234 | .9380359 | 1.961473 | .7983426 | 3.639574 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3280794** | **.1889971** | **.1886969** | **55.81401** | **.4077736** | **.1970510** |
| Stddev | .0006537 | .0007490 | .0003132 | .13921 | .0013612 | .0002183 |
| %RSD | .1992402 | .3963020 | .1659630 | .2494222 | .3338202 | .1107626 |
| #1 | .3285531 | .1886530 | .1890379 | 55.85948 | .4074547 | .1972264 |
| #2 | .3283515 | .1898564 | .1884221 | 55.92481 | .4092660 | .1968066 |
| #3 | .3273337 | .1884821 | .1886308 | 55.65775 | .4066002 | .1971200 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3835794** | **7.900345** | **.3278667** | **9.996789** | **.4916525** | **.0684018** |
| Stddev | .0006886 | .023423 | .0010373 | .043853 | .0006151 | .0027654 |
| %RSD | .1795154 | .2964768 | .3163751 | .4386696 | .1251078 | 4.042893 |
| #1 | .3843743 | 7.902408 | .3274966 | 9.976462 | .4921943 | .0659682 |
| #2 | .3831665 | 7.922669 | .3290383 | 10.04712 | .4917793 | .0714090 |
| #3 | .3831973 | 7.875960 | .3270652 | 9.96679 | .4909839 | .0678282 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **38.89859** | **.3079048** | **.3933463** | **16.17111** | **.2915425** | **.4190161** |
| Stddev | .08327 | .0020229 | .0013702 | .05003 | .0012836 | .0009752 |
| %RSD | .2140724 | .6570019 | .3483569 | .3093762 | .4402764 | .2327480 |
| #1 | 38.83985 | .3056660 | .3937515 | 16.11845 | .2913617 | .4194691 |
| #2 | 38.99388 | .3096013 | .3944682 | 16.21800 | .2929069 | .4178968 |
| #3 | 38.86202 | .3084471 | .3918191 | 16.17689 | .2903589 | .4196826 |

Sample Name: Q2909-04A Acquired: 8/21/2025 17:43:23 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6507265 | .2839861 | F 13.55467 | 6.840753 | 7.727715 | .1765925 |
| Stddev | .0022410 | .0054116 | .06665 | .030307 | .066984 | .0004923 |
| %RSD | .3443802 | 1.905596 | .4916911 | .4430412 | .8668000 | .2787559 |
| #1 | .6513086 | .2806797 | 13.50409 | 6.862241 | 7.771972 | .1766324 |
| #2 | .6482519 | .2810473 | 13.52973 | 6.806087 | 7.650652 | .1770635 |
| #3 | .6526190 | .2902313 | 13.63019 | 6.853930 | 7.760522 | .1760815 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3693599 |
| Stddev | .0016634 |
| %RSD | .4503457 |
| #1 | .3693807 |
| #2 | .3710127 |
| #3 | .3676861 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6339.483 | 108885.0 | 11680.14 | 4961.994 | 7576.251 |
| Stddev | 16.450 | 48.0 | 31.01 | 17.643 | 19.576 |
| %RSD | .2594913 | .0441100 | .2655063 | .3555717 | .2583860 |
| #1 | 6330.162 | 108885.1 | 11662.30 | 4949.249 | 7562.269 |
| #2 | 6358.477 | 108836.9 | 11662.17 | 4954.603 | 7598.624 |
| #3 | 6329.810 | 108933.0 | 11715.95 | 4982.131 | 7567.860 |

Sample Name: Q2902-01 Acquired: 8/21/2025 17:47:20 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.002391** | **-.003553** | **.0001902** | **.0048518** | **.0018928** | **.3133593** |
| Stddev | .000935 | .002343 | .0009300 | .0021481 | .0006866 | .0064366 |
| %RSD | 39.12156 | 65.94620 | 488.9753 | 44.27377 | 36.27531 | 2.054075 |
| #1 | -.002943 | -.002353 | -.000797 | .0048679 | .0025022 | .3061754 |
| #2 | -.001311 | -.006253 | .001050 | .0069918 | .0011489 | .3186019 |
| #3 | -.002919 | -.002053 | .000317 | .0026957 | .0020274 | .3153005 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1438387** | **.0000510** | **.0000444** | **66.90113** | **.0040447** | **.0011932** |
| Stddev | .0005577 | .0000487 | .0000217 | .18574 | .0003801 | .0000566 |
| %RSD | .3876972 | 95.43524 | 48.98760 | .2776385 | 9.396985 | 4.746461 |
| #1 | .1433509 | .0000088 | .0000197 | 66.68666 | .0043542 | .0011366 |
| #2 | .1444466 | .0000400 | .0000608 | 67.00830 | .0036205 | .0011932 |
| #3 | .1437186 | .0001043 | .0000525 | 67.00844 | .0041594 | .0012498 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0793953** | **.3823387** | **.0796692** | **11.08085** | **.0035299** | **-.000744** |
| Stddev | .0000876 | .0078821 | .0008433 | .06182 | .0001493 | .000202 |
| %RSD | .1103106 | 2.061560 | 1.058454 | .5579385 | 4.228301 | 27.11116 |
| #1 | .0794202 | .3914145 | .0788908 | 11.01421 | .0034689 | -.000724 |
| #2 | .0794677 | .3772086 | .0795518 | 11.09198 | .0037000 | -.000553 |
| #3 | .0792979 | .3783931 | .0805650 | 11.13634 | .0034208 | -.000955 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **32.93417** | **.0013641** | **.0502776** | **4.881016** | **.0151287** | **.0013172** |
| Stddev | .05502 | .0008485 | .0001566 | .047492 | .0005164 | .0000809 |
| %RSD | .1670735 | 62.20176 | .3114605 | .9729920 | 3.413356 | 6.142996 |
| #1 | 32.88629 | .0014560 | .0503003 | 4.827740 | .0145327 | .0012459 |
| #2 | 32.92193 | .0004733 | .0504216 | 4.896397 | .0154440 | .0014052 |
| #3 | 32.99428 | .0021628 | .0501109 | 4.918911 | .0154093 | .0013006 |

Sample Name: Q2902-01 Acquired: 8/21/2025 17:47:20 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.017133 | .0021177 | F 12.05940 | .5758250 | 6.658432 | -.016792 |
| Stddev | .000346 | .0003901 | .00983 | .0016850 | .047815 | .000894 |
| %RSD | 2.021032 | 18.41960 | .0814875 | .2926249 | .7181087 | 5.323285 |
| #1 | -.017268 | .0019411 | 12.06376 | .5772370 | 6.672171 | -.015779 |
| #2 | -.016740 | .0018472 | 12.06630 | .5762784 | 6.697872 | -.017471 |
| #3 | -.017392 | .0025649 | 12.04815 | .5739597 | 6.605251 | -.017125 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2328086 |
| Stddev | .0010274 |
| %RSD | .4413117 |
| #1 | .2316264 |
| #2 | .2334856 |
| #3 | .2333137 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6312.120 | 111575.7 | 11556.60 | 4998.754 | 7622.324 |
| Stddev | 12.108 | 27.3 | 58.91 | 5.203 | 10.531 |
| %RSD | .1918173 | .0244934 | .5097209 | .1040861 | .1381632 |
| #1 | 6308.591 | 111549.8 | 11618.21 | 5001.298 | 7621.102 |
| #2 | 6325.600 | 111573.1 | 11500.84 | 4992.769 | 7633.413 |
| #3 | 6302.169 | 111604.3 | 11550.75 | 5002.196 | 7612.458 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2904-01 Acquired: 8/21/2025 17:51:32 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0006529** | **-.004051** | **.0366392** | **.0023659** | **.0022949** | **3.112929** | **.0819375** |
| Stddev | .0011328 | .000353 | .0006141 | .0018951 | .0013163 | .008040 | .0005719 |
| %RSD | 173.4987 | 8.726332 | 1.676170 | 80.10064 | 57.36006 | .2582698 | .6979208 |
| #1 | -.000240 | -.003746 | .0360014 | .0043720 | .0010521 | 3.121931 | .0821618 |
| #2 | .000272 | -.004438 | .0372265 | .0006059 | .0021583 | 3.106461 | .0812874 |
| #3 | .001927 | -.003968 | .0366898 | .0021198 | .0036742 | 3.110397 | .0823631 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0001732** | **.0003353** | **47.88733** | **.0096493** | **.0028714** | **.0713555** | **10.69458** |
| Stddev | .0000322 | .0000301 | .09875 | .0001338 | .0001506 | .0006110 | .08880 |
| %RSD | 18.59034 | 8.972276 | .2062184 | 1.386833 | 5.244126 | .8562174 | .8303202 |
| #1 | .0002021 | .0003628 | 47.98060 | .0095023 | .0027012 | .0706935 | 10.60328 |
| #2 | .0001385 | .0003031 | 47.78388 | .0096817 | .0029258 | .0714755 | 10.69981 |
| #3 | .0001789 | .0003400 | 47.89750 | .0097640 | .0029872 | .0718976 | 10.78065 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2502553** | **6.887170** | **.0082587** | **.0002059** | **26.90134** | **.0087531** | **.3923787** |
| Stddev | .0013087 | .007762 | .0004625 | .0001128 | .21760 | .0012646 | .0007854 |
| %RSD | .5229281 | .1127072 | 5.599741 | 54.74959 | .8088755 | 14.44741 | .2001607 |
| #1 | .2513519 | 6.893218 | .0082887 | .0000984 | 26.65340 | .0077857 | .3932213 |
| #2 | .2488066 | 6.878417 | .0087055 | .0001961 | 26.99008 | .0101841 | .3922478 |
| #3 | .2506074 | 6.889875 | .0077820 | .0003233 | 27.06055 | .0082895 | .3916669 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **7.122079** | **.0370451** | **.0041864** | **-.015087** | **.1377839** | **9.440646** | **2.182240** |
| Stddev | .048966 | .0006295 | .0000827 | .000072 | .0008420 | .089684 | .010751 |
| %RSD | .6875228 | 1.699251 | 1.975147 | .4756844 | .6111232 | .9499812 | .4926587 |
| #1 | 7.067119 | .0367502 | .0042813 | -.015026 | .1384239 | 9.338470 | 2.186427 |
| #2 | 7.138059 | .0366171 | .0041477 | -.015166 | .1368300 | 9.506341 | 2.170025 |
| #3 | 7.161058 | .0377678 | .0041302 | -.015070 | .1380977 | 9.477126 | 2.190267 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2904-01 Acquired: 8/21/2025 17:51:32 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 2.522873 | -.009835 | .1256099 |
| Stddev | .013376 | .002088 | .0003474 |
| %RSD | .5301756 | 21.22497 | .2765356 |
| #1 | 2.523037 | -.011949 | .1259285 |
| #2 | 2.509416 | -.009782 | .1252395 |
| #3 | 2.536166 | -.007775 | .1256616 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6461.363 | 112964.5 | 12014.06 | 5083.959 | 7753.311 |
| Stddev | 7.759 | 383.2 | 66.78 | 14.656 | 1.805 |
| %RSD | .1200889 | .3392636 | .5558895 | .2882831 | .0232863 |
| #1 | 6470.214 | 113406.1 | 11940.19 | 5067.392 | 7755.223 |
| #2 | 6455.732 | 112768.2 | 12070.17 | 5095.236 | 7751.636 |
| #3 | 6458.142 | 112719.1 | 12031.81 | 5089.248 | 7753.073 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: CCV04 Acquired: 8/21/2025 18:04:19 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.055623** | **4.875659** | **5.014797** | **5.057976** | **5.072961** | **9.996915** | **10.12900** |
| Stddev | .019146 | .073159 | .005613 | .017027 | .006153 | .010016 | .03913 |
| %RSD | .3787114 | 1.500490 | .1119293 | .3366446 | .1212837 | .1001873 | .3863512 |
| #1 | 5.055825 | 4.859353 | 5.012942 | 5.056287 | 5.068760 | 9.995313 | 10.13372 |
| #2 | 5.036377 | 4.812030 | 5.010347 | 5.041857 | 5.070100 | 10.00763 | 10.16555 |
| #3 | 5.074667 | 4.955595 | 5.021103 | 5.075786 | 5.080023 | 9.98780 | 10.08771 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2464221** | **2.524128** | **25.25881** | **1.003352** | **2.529233** | **1.277377** | **5.162225** |
| Stddev | .0013750 | .003452 | .05492 | .001766 | .003284 | .002731 | .032175 |
| %RSD | .5579884 | .1367554 | .2174357 | .1760016 | .1298500 | .2137961 | .6232703 |
| #1 | .2451274 | 2.524221 | 25.26926 | 1.005110 | 2.526924 | 1.276146 | 5.199258 |
| #2 | .2478654 | 2.520631 | 25.30775 | 1.003366 | 2.527782 | 1.275477 | 5.146281 |
| #3 | .2462736 | 2.527533 | 25.19941 | 1.001579 | 2.532993 | 1.280506 | 5.141135 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.542974** | **24.93438** | **2.520553** | **1.257237** | **25.17364** | **2.538247** | **2.550995** |
| Stddev | .013197 | .08923 | .001772 | .000966 | .19960 | .002743 | .001684 |
| %RSD | .5189559 | .3578412 | .0702910 | .0768740 | .7928924 | .1080557 | .0660288 |
| #1 | 2.539246 | 24.86508 | 2.519190 | 1.258146 | 25.39057 | 2.537740 | 2.549152 |
| #2 | 2.557634 | 25.03505 | 2.519913 | 1.256221 | 25.13259 | 2.541208 | 2.552455 |
| #3 | 2.532043 | 24.90300 | 2.522556 | 1.257343 | 24.99776 | 2.535793 | 2.551377 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **24.70635** | **4.949275** | **5.087841** | **5.037345** | **5.094251** | **5.093072** | **5.003620** |
| Stddev | .08535 | .035931 | .010551 | .012834 | .013755 | .047367 | .019621 |
| %RSD | .3454468 | .7259757 | .2073672 | .2547761 | .2700068 | .9300320 | .3921443 |
| #1 | 24.78689 | 4.915139 | 5.086130 | 5.035315 | 5.082498 | 5.140511 | 4.989562 |
| #2 | 24.61690 | 4.986765 | 5.078251 | 5.025647 | 5.109379 | 5.045777 | 4.995261 |
| #3 | 24.71528 | 4.945921 | 5.099143 | 5.051073 | 5.090875 | 5.092926 | 5.026037 |

Sample Name: CCV04 Acquired: 8/21/2025 18:04:19 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **4.961873** | **4.695111** | **5.128431** |
| Stddev | .026853 | .011159 | .097072 |
| %RSD | .5411870 | .2376746 | 1.892829 |
| #1 | 4.967702 | 4.698268 | 5.020876 |
| #2 | 4.932584 | 4.704352 | 5.209538 |
| #3 | 4.985332 | 4.682714 | 5.154880 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **6115.308** | **105956.2** | **11016.39** | **4837.992** | **7087.772** |
| Stddev | 6.761 | 196.1 | 69.08 | 9.667 | 6.629 |
| %RSD | .1105578 | .1851160 | .6271099 | .1998152 | .0935313 |
| #1 | 6121.291 | 105744.2 | 11079.53 | 4846.900 | 7095.209 |
| #2 | 6116.661 | 105993.2 | 10942.59 | 4839.362 | 7085.625 |
| #3 | 6107.974 | 106131.2 | 11027.04 | 4827.712 | 7082.482 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: CCB04 Acquired: 8/21/2025 18:08:31 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0008513** | **-.000304** | **.0000699** | **.0006792** | **-.001610** | **.0072135** | **-.003111** |
| Stddev | .0028944 | .000663 | .0012484 | .0012800 | .001264 | .0057756 | .001238 |
| %RSD | 339.9985 | 217.9799 | 1787.216 | 188.4394 | 78.53526 | 80.06571 | 39.79009 |
| #1 | -.000506 | -.000557 | .0014996 | .0002677 | -.001636 | .0023038 | -.004141 |
| #2 | -.001115 | .000448 | -.000485 | -.000344 | -.002861 | .0135771 | -.003456 |
| #3 | .004175 | -.000804 | -.000805 | .002114 | -.000333 | .0057596 | -.001738 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000009** | **.0001662** | **.0012408** | **-.000193** | **.0000801** | **.0001223** | **-.000966** |
| Stddev | .000046 | .0000023 | .0056315 | .000102 | .0000371 | .0000996 | .005692 |
| %RSD | 527.5152 | 1.373739 | 453.8637 | 52.69073 | 46.37411 | 81.41477 | 588.9989 |
| #1 | -.000022 | .0001681 | -.004601 | -.000289 | .0000372 | .0002294 | .001719 |
| #2 | .000042 | .0001637 | .006635 | -.000204 | .0001017 | .0001049 | .002887 |
| #3 | -.000047 | .0001669 | .001688 | -.000086 | .0001013 | .0000326 | -.007504 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0001987** | **-.002089** | **-.000065** | **-.000585** | **.2278252** | **-.000602** | **-.000334** |
| Stddev | .0000492 | .018674 | .000095 | .000145 | .0463244 | .001744 | .000070 |
| %RSD | 24.76702 | 893.8788 | 147.3674 | 24.74972 | 20.33329 | 289.9666 | 21.09678 |
| #1 | .0001861 | -.003577 | .000028 | -.000593 | .1779156 | -.002027 | -.000275 |
| #2 | .0002529 | -.019975 | -.000059 | -.000437 | .2361148 | .001344 | -.000412 |
| #3 | .0001570 | .017285 | -.000162 | -.000726 | .2694450 | -.001122 | -.000314 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3638591** | **.0012803** | **.0004978** | **-.002169** | **-.001889** | **.0312835** | **.0031340** |
| Stddev | .0534873 | .0005937 | .0000898 | .000716 | .001032 | .0107315 | .0002356 |
| %RSD | 14.69999 | 46.37502 | 18.03329 | 33.00429 | 54.62774 | 34.30392 | 7.517193 |
| #1 | .3046718 | .0019602 | .0004475 | -.002499 | -.001827 | .0194514 | .0033427 |
| #2 | .3781706 | .0010167 | .0006015 | -.001347 | -.000889 | .0340112 | .0031808 |
| #3 | .4087348 | .0008641 | .0004445 | -.002659 | -.002950 | .0403878 | .0028785 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: CCB04 Acquired: 8/21/2025 18:08:31 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB04 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.002456 | -.004652 | .0001518 |
| Stddev | .002244 | .000486 | .0000877 |
| %RSD | 91.35982 | 10.45503 | 57.77978 |
| | | | |
| #1 | -.004980 | -.004142 | .0002227 |
| #2 | -.000685 | -.004704 | .0001789 |
| #3 | -.001704 | -.005111 | .0000537 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6410.067 | 110693.9 | 11236.64 | 5055.771 | 8113.333 |
| Stddev | 3.535 | 261.2 | 25.29 | 28.707 | 5.959 |
| %RSD | .0551510 | .2359911 | .2250619 | .5678161 | .0734467 |
| | | | | | |
| #1 | 6411.875 | 110797.7 | 11208.21 | 5088.357 | 8119.883 |
| #2 | 6405.993 | 110396.7 | 11256.63 | 5034.214 | 8108.234 |
| #3 | 6412.332 | 110887.2 | 11245.08 | 5044.741 | 8111.880 |

Sample Name: Q2915-01 Acquired: 8/21/2025 18:12:49 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0417861** | **-.014370** | **.1350552** | **.0082151** | **-.009260** | **120.1077** |
| Stddev | .0010618 | .002244 | .0003810 | .0015418 | .000812 | .2125 |
| %RSD | 2.541016 | 15.61876 | .2821394 | 18.76725 | 8.765350 | .1769234 |
| #1 | .0429835 | -.016209 | .1346225 | .0094237 | -.010065 | 119.9595 |
| #2 | .0409592 | -.011869 | .1353408 | .0087429 | -.008442 | 120.3512 |
| #3 | .0414157 | -.015032 | .1352023 | .0064788 | -.009272 | 120.0124 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3428480** | **.0049444** | **.0020133** | **2.031198** | **.1413618** | **.0408279** |
| Stddev | .0008894 | .0000268 | .0000281 | .010196 | .0002737 | .0000473 |
| %RSD | .2594236 | .5417598 | 1.397227 | .5019567 | .1935832 | .1159534 |
| #1 | .3427253 | .0049148 | .0020159 | 2.020342 | .1414397 | .0408824 |
| #2 | .3437925 | .0049515 | .0020400 | 2.040571 | .1415881 | .0408048 |
| #3 | .3420264 | .0049669 | .0019839 | 2.032680 | .1410577 | .0407965 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1269414** | **146.2795** | **.6430848** | **22.66943** | **.1294116** | **.0054060** |
| Stddev | .0005221 | .4993 | .0014448 | .05252 | .0002789 | .0004109 |
| %RSD | .4112948 | .3413313 | .2246684 | .2316878 | .2155222 | 7.600665 |
| #1 | .1275390 | 146.3010 | .6436343 | 22.61803 | .1290963 | .0054960 |
| #2 | .1265736 | 145.7698 | .6441742 | 22.72301 | .1296261 | .0049575 |
| #3 | .1267116 | 146.7677 | .6414458 | 22.66724 | .1295124 | .0057644 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.065926** | **.1975552** | **.4356108** | **6.609424** | **.1295057** | **.0016255** |
| Stddev | .005476 | .0027087 | .0004619 | .033879 | .0022203 | .0001128 |
| %RSD | .5137519 | 1.371096 | .1060475 | .5125819 | 1.714451 | 6.937936 |
| #1 | 1.060017 | .1980170 | .4353043 | 6.570679 | .1307386 | .0016735 |
| #2 | 1.066930 | .1946453 | .4353861 | 6.633475 | .1269425 | .0017064 |
| #3 | 1.070830 | .2000033 | .4361422 | 6.624119 | .1308359 | .0014967 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2915-01 Acquired: 8/21/2025 18:12:49 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.002314 | .9338169 | F 17.67976 | 1.005888 | 1.255987 | .2012460 |
| Stddev | .001102 | .0052441 | .25526 | .007831 | .001334 | .0003328 |
| %RSD | 47.63069 | .5615792 | 1.443798 | .7785346 | .1062505 | .1653808 |
| #1 | -.001783 | .9394115 | 17.42303 | 1.013708 | 1.257522 | .2015945 |
| #2 | -.001579 | .9330263 | 17.93352 | 1.005910 | 1.255100 | .2012122 |
| #3 | -.003582 | .9290130 | 17.68274 | .998046 | 1.255339 | .2009314 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | -.111794 |
| Stddev | .000437 |
| %RSD | .3912392 |
| #1 | -.111676 |
| #2 | -.111427 |
| #3 | -.112278 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6548.863 | 112374.6 | 12171.22 | 5140.126 | 7401.174 |
| Stddev | 5.819 | 141.4 | 58.73 | 25.891 | 1.926 |
| %RSD | .0888477 | .1258144 | .4824957 | .5037030 | .0260246 |
| #1 | 6554.035 | 112500.8 | 12157.57 | 5147.956 | 7399.014 |
| #2 | 6549.992 | 112401.1 | 12120.53 | 5111.224 | 7401.795 |
| #3 | 6542.563 | 112221.8 | 12235.57 | 5161.199 | 7402.712 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2915-03 Acquired: 8/21/2025 18:16:53 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1124279** | **-.028817** | **.1621671** | **.0123101** | **-.016123** | **125.5446** |
| Stddev | .0030823 | .002350 | .0023774 | .0027341 | .001213 | .1523 |
| %RSD | 2.741540 | 8.155501 | 1.466031 | 22.20989 | 7.522712 | .1213301 |
| #1 | .1091766 | -.028755 | .1639521 | .0147350 | -.014789 | 125.7116 |
| #2 | .1153074 | -.031198 | .1630809 | .0093470 | -.016420 | 125.4134 |
| #3 | .1127997 | -.026498 | .1594684 | .0128485 | -.017159 | 125.5086 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2676333** | **.0079518** | **.0033714** | **3.465405** | **.1832075** | **.0707758** |
| Stddev | .0018292 | .0001602 | .0000352 | .016602 | .0001997 | .0001521 |
| %RSD | .6834692 | 2.015038 | 1.044661 | .4790857 | .1089852 | .2149104 |
| #1 | .2696994 | .0080698 | .0034050 | 3.481567 | .1832190 | .0707643 |
| #2 | .2662202 | .0080162 | .0033348 | 3.466254 | .1830023 | .0706298 |
| #3 | .2669803 | .0077694 | .0033743 | 3.448395 | .1834012 | .0709333 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2375258** | **256.5339** | **.9110510** | **31.28282** | **.1985940** | **.0123434** |
| Stddev | .0002372 | .4273 | .0053582 | .09251 | .0001752 | .0002513 |
| %RSD | .0998524 | .1665606 | .5881336 | .2957209 | .0882266 | 2.036062 |
| #1 | .2377988 | 256.0773 | .9161854 | 31.32625 | .1986717 | .0120574 |
| #2 | .2374082 | 256.6004 | .9114735 | 31.17658 | .1987170 | .0124442 |
| #3 | .2373703 | 256.9241 | .9054941 | 31.34562 | .1983934 | .0125287 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.090858** | **.2716454** | **.5531765** | **6.920796** | **.2282091** | **.0031930** |
| Stddev | .006832 | .0015316 | .0012098 | .057957 | .0006447 | .0002242 |
| %RSD | .6262994 | .5638262 | .2186945 | .8374377 | .2825186 | 7.020947 |
| #1 | 1.091352 | .2726905 | .5520642 | 6.883745 | .2280699 | .0030614 |
| #2 | 1.083792 | .2723585 | .5530007 | 6.891057 | .2289121 | .0034518 |
| #3 | 1.097430 | .2698873 | .5544645 | 6.987586 | .2276454 | .0030657 |

Sample Name: Q2915-03 Acquired: 8/21/2025 18:16:53 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0081320 | 1.087665 | F 17.35267 | 3.220238 | 1.061821 | .2525805 |
| Stddev | .0004191 | .024328 | .31465 | .013081 | .006466 | .0003471 |
| %RSD | 5.153295 | 2.236724 | 1.813276 | .4062165 | .6089182 | .1374058 |
| #1 | .0079177 | 1.060117 | 17.18337 | 3.222322 | 1.054968 | .2525702 |
| #2 | .0078634 | 1.106203 | 17.15892 | 3.232151 | 1.067814 | .2522387 |
| #3 | .0086149 | 1.096675 | 17.71573 | 3.206239 | 1.062681 | .2529326 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | -.209294 |
| Stddev | .000972 |
| %RSD | .4642975 |
| #1 | -.208879 |
| #2 | -.208600 |
| #3 | -.210405 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6618.287 | 115113.1 | 12691.94 | 5228.492 | 7284.019 |
| Stddev | 9.926 | 147.4 | 60.17 | 18.551 | 13.360 |
| %RSD | .1499837 | .1280717 | .4740871 | .3548131 | .1834158 |
| #1 | 6609.644 | 115242.6 | 12624.02 | 5224.853 | 7270.706 |
| #2 | 6616.089 | 115144.1 | 12713.23 | 5248.594 | 7283.926 |
| #3 | 6629.128 | 114952.7 | 12738.58 | 5212.030 | 7297.426 |

Sample Name: Q2917-01 Acquired: 8/21/2025 18:20:57 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0898205** | **-.028277** | **.2967600** | **.0087665** | **-.019026** | **157.1029** |
| Stddev | .0011440 | .001203 | .0017688 | .0022731 | .001607 | .1702 |
| %RSD | 1.273671 | 4.255515 | .5960436 | 25.92938 | 8.445851 | .1083154 |
| #1 | .0910539 | -.027370 | .2988024 | .0071240 | -.020685 | 156.9302 |
| #2 | .0887940 | -.027818 | .2957411 | .0113607 | -.018916 | 157.1079 |
| #3 | .0896137 | -.029642 | .2957364 | .0078147 | -.017477 | 157.2704 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8289757** | **.0102982** | **.0094517** | **78.88180** | **.2167087** | **.1594678** |
| Stddev | .0021663 | .0000197 | .0000054 | .09100 | .0012933 | .0002854 |
| %RSD | .2613225 | .1909203 | .0572927 | .1153570 | .5967790 | .1789515 |
| #1 | .8272151 | .0102803 | .0094574 | 78.77928 | .2160692 | .1591483 |
| #2 | .8283171 | .0103192 | .0094467 | 78.91311 | .2158597 | .1595574 |
| #3 | .8313949 | .0102950 | .0094510 | 78.95300 | .2181971 | .1596975 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3856256** | **320.6846** | **4.332600** | **58.22946** | **.2263591** | **.0146720** |
| Stddev | .0012964 | 1.5545 | .010815 | .16077 | .0001414 | .0005334 |
| %RSD | .3361733 | .4847543 | .2496089 | .2760922 | .0624597 | 3.635507 |
| #1 | .3845612 | 319.8410 | 4.322442 | 58.05806 | .2262285 | .0143288 |
| #2 | .3870693 | 319.7342 | 4.331390 | 58.25342 | .2265092 | .0144006 |
| #3 | .3852464 | 322.4785 | 4.343969 | 58.37690 | .2263394 | .0152865 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **11.92015** | **.6265775** | **.6024616** | **13.89019** | **1.796482** | **.0063910** |
| Stddev | .05089 | .0054428 | .0002151 | .03057 | .009020 | .0002322 |
| %RSD | .4269401 | .8686643 | .0357065 | .2201094 | .5020917 | 3.633961 |
| #1 | 11.92606 | .6204964 | .6026053 | 13.89156 | 1.787497 | .0065893 |
| #2 | 11.86656 | .6309928 | .6025651 | 13.85896 | 1.796412 | .0064480 |
| #3 | 11.96783 | .6282433 | .6022143 | 13.92006 | 1.805536 | .0061355 |

Sample Name: Q2917-01 Acquired: 8/21/2025 18:20:57 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0109171 | 6.215221 | F 13.62531 | 7.217569 | 5.945126 | .1660885 |
| Stddev | .0008602 | .019938 | .06987 | .039183 | .051431 | .0016480 |
| %RSD | 7.879205 | .3207953 | .5128168 | .5428823 | .8650889 | .9922496 |
| #1 | .0119056 | 6.192199 | 13.55189 | 7.228490 | 5.947036 | .1674861 |
| #2 | .0103383 | 6.226737 | 13.69100 | 7.174085 | 5.892768 | .1665083 |
| #3 | .0105075 | 6.226729 | 13.63303 | 7.250133 | 5.995576 | .1642712 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0346322 |
| Stddev | .0008340 |
| %RSD | 2.408094 |
| #1 | .0352090 |
| #2 | .0350117 |
| #3 | .0336760 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 7080.311 | 123332.7 | 14046.33 | 5536.880 | 6744.526 |
| Stddev | 10.534 | 447.6 | 33.38 | 7.761 | 9.542 |
| %RSD | .1487835 | .3629600 | .2376549 | .1401612 | .1414765 |
| #1 | 7091.140 | 123585.4 | 14084.75 | 5532.805 | 6754.383 |
| #2 | 7079.694 | 123596.9 | 14024.38 | 5545.829 | 6743.859 |
| #3 | 7070.099 | 122815.9 | 14029.87 | 5532.005 | 6735.334 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2919-01 Acquired: 8/21/2025 18:24:58 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0740423** | **-.022834** | **.4307981** | **.0054601** | **-.018248** | **183.1637** |
| Stddev | .0006510 | .002370 | .0004797 | .0035123 | .001829 | .3060 |
| %RSD | .8792525 | 10.38102 | .1113455 | 64.32549 | 10.02358 | .1670418 |
| #1 | .0740629 | -.020703 | .4313520 | .0029952 | -.020008 | 183.4507 |
| #2 | .0733812 | -.025387 | .4305181 | .0094817 | -.018380 | 183.1985 |
| #3 | .0746828 | -.022411 | .4305243 | .0039035 | -.016357 | 182.8418 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7861062** | **.0100362** | **.0131588** | **184.2837** | **.3236202** | **.1808829** |
| Stddev | .0010488 | .0000232 | .0001089 | .2465 | .0006772 | .0000140 |
| %RSD | .1334189 | .2307520 | .8273577 | .1337803 | .2092573 | .0077321 |
| #1 | .7870924 | .0100178 | .0132188 | 184.5565 | .3241431 | .1808866 |
| #2 | .7862219 | .0100287 | .0132244 | 184.2177 | .3238623 | .1808675 |
| #3 | .7850044 | .0100622 | .0130331 | 184.0768 | .3228552 | .1808947 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4194451** | **330.3032** | **4.077253** | **73.44865** | **.3210138** | **.0124965** |
| Stddev | .0005490 | .4146 | .006559 | .21079 | .0002939 | .0005225 |
| %RSD | .1308861 | .1255158 | .1608585 | .2869923 | .0915633 | 4.180729 |
| #1 | .4199969 | 329.8246 | 4.083000 | 73.67806 | .3208733 | .0119743 |
| #2 | .4188989 | 330.5304 | 4.078651 | 73.40438 | .3213517 | .0124960 |
| #3 | .4194397 | 330.5545 | 4.070108 | 73.26351 | .3208165 | .0130192 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **12.69649** | **.6157390** | **.8462235** | **23.59442** | **.3371876** | **.0086647** |
| Stddev | .03036 | .0007386 | .0016462 | .06240 | .0007342 | .0001440 |
| %RSD | .2391099 | .1199493 | .1945295 | .2644788 | .2177435 | 1.661899 |
| #1 | 12.66422 | .6163172 | .8454516 | 23.55265 | .3369404 | .0086441 |
| #2 | 12.70077 | .6159927 | .8451052 | 23.56446 | .3380135 | .0085321 |
| #3 | 12.72448 | .6149069 | .8481138 | 23.66616 | .3366089 | .0088179 |

Sample Name: Q2919-01 Acquired: 8/21/2025 18:24:58 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0294904 | F 10.11607 | 9.433192 | F 10.48146 | 5.757076 | .1927462 |
| Stddev | .0007077 | .00465 | .066527 | .00315 | .021321 | .0007358 |
| %RSD | 2.399856 | .0459460 | .7052388 | .0300242 | .3703442 | .3817618 |
| #1 | .0302249 | 10.12110 | 9.499889 | 10.47905 | 5.772447 | .1920152 |
| #2 | .0294335 | 10.11518 | 9.432851 | 10.48502 | 5.766046 | .1934867 |
| #3 | .0288128 | 10.11193 | 9.366837 | 10.48030 | 5.732736 | .1927366 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | -.098487 |
| Stddev | .000447 |
| %RSD | .4540583 |
| #1 | -.097977 |
| #2 | -.098674 |
| #3 | -.098811 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 7103.234 | 124476.3 | 14253.10 | 5606.765 | 6433.596 |
| Stddev | 7.876 | 137.1 | 41.31 | 16.022 | 6.185 |
| %RSD | .1108812 | .1101108 | .2898440 | .2857568 | .0961400 |
| #1 | 7103.282 | 124370.3 | 14206.26 | 5591.257 | 6432.285 |
| #2 | 7111.085 | 124631.1 | 14284.34 | 5623.255 | 6440.331 |
| #3 | 7095.333 | 124427.4 | 14268.71 | 5605.782 | 6428.171 |

Sample Name: Q2919-01DUP Acquired: 8/21/2025 18:28:59 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0808521** | **-.025723** | **.2950924** | **.0093308** | **-.018014** | **156.1076** |
| Stddev | .0031093 | .002241 | .0016214 | .0037852 | .000475 | .1778 |
| %RSD | 3.845623 | 8.710756 | .5494468 | 40.56739 | 2.636295 | .1139278 |
| #1 | .0774185 | -.026698 | .2940365 | .0106308 | -.017519 | 156.1663 |
| #2 | .0834774 | -.027312 | .2969592 | .0050668 | -.018055 | 156.2486 |
| #3 | .0816605 | -.023160 | .2942814 | .0122947 | -.018467 | 155.9078 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5708636** | **.0093834** | **.0120856** | **76.05268** | **.2580745** | **.2675611** |
| Stddev | .0018999 | .0000309 | .0001017 | .07497 | .0006486 | .0004500 |
| %RSD | .3328043 | .3293044 | .8413389 | .0985796 | .2513132 | .1681720 |
| #1 | .5730213 | .0093477 | .0120330 | 76.12815 | .2573845 | .2672708 |
| #2 | .5701276 | .0093997 | .0122028 | 75.97821 | .2581674 | .2673330 |
| #3 | .5694418 | .0094027 | .0120210 | 76.05169 | .2586716 | .2680794 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.251222** | **335.5442** | **3.468222** | **70.30810** | **.4225294** | **.0171347** |
| Stddev | .000920 | .7991 | .009417 | .18791 | .0004563 | .0003660 |
| %RSD | .0216338 | .2381467 | .2715113 | .2672691 | .1079954 | 2.136305 |
| #1 | 4.250465 | 336.3203 | 3.474916 | 70.21093 | .4222009 | .0174483 |
| #2 | 4.250955 | 334.7240 | 3.457454 | 70.18867 | .4223369 | .0167325 |
| #3 | 4.252245 | 335.5883 | 3.472295 | 70.52470 | .4230504 | .0172234 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **11.42293** | **.5577827** | **.6457775** | **23.64584** | **.3650455** | **.0057174** |
| Stddev | .01508 | .0042605 | .0003803 | .04166 | .0003978 | .0003450 |
| %RSD | .1320546 | .7638356 | .0588837 | .1761960 | .1089667 | 6.033394 |
| #1 | 11.44014 | .5620134 | .6462156 | 23.66103 | .3654563 | .0053361 |
| #2 | 11.41662 | .5578419 | .6455327 | 23.67777 | .3646622 | .0060078 |
| #3 | 11.41201 | .5534929 | .6455843 | 23.59871 | .3650180 | .0058085 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2919-01DUP Acquired: 8/21/2025 18:28:59 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .0161124 | 9.383941 | 7.722247 | F 12.40869 | F 31.77034 | .1927430 |
| Stddev | .0005785 | .011894 | .199970 | .01035 | .08338 | .0017644 |
| %RSD | 3.590488 | .1267515 | 2.589532 | .0834192 | .2624471 | .9153904 |
| #1 | .0165136 | 9.396673 | 7.735393 | 12.39985 | 31.77883 | .1946988 |
| #2 | .0154493 | 9.373114 | 7.915320 | 12.42007 | 31.84916 | .1922591 |
| #3 | .0163744 | 9.382036 | 7.516028 | 12.40614 | 31.68304 | .1912711 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | -.166632 |
| Stddev | .000512 |
| %RSD | .3070195 |
| #1 | -.167112 |
| #2 | -.166094 |
| #3 | -.166690 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 7387.483 | 129351.5 | 14698.69 | 5856.026 | 6665.444 |
| Stddev | 6.416 | 289.2 | 57.23 | 16.511 | .790 |
| %RSD | .0868543 | .2236115 | .3893608 | .2819569 | .0118594 |
| #1 | 7388.592 | 129428.9 | 14703.38 | 5875.091 | 6666.056 |
| #2 | 7380.584 | 129594.2 | 14753.43 | 5846.348 | 6665.725 |
| #3 | 7393.273 | 129031.4 | 14639.26 | 5846.639 | 6664.552 |

Sample Name: Q2919-01LX5 Acquired: 8/21/2025 18:33:01 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0187440** | **-.005764** | **.0877854** | **.0017829** | **-.005040** | **43.52656** | **.1812657** |
| Stddev | .0009201 | .001533 | .0018207 | .0024043 | .001859 | .03824 | .0014834 |
| %RSD | 4.908599 | 26.59830 | 2.074076 | 134.8496 | 36.88145 | .0878441 | .8183320 |
| #1 | .0186864 | -.004860 | .0861902 | -.000890 | -.006455 | 43.48269 | .1809895 |
| #2 | .0196916 | -.007535 | .0873970 | .003768 | -.005731 | 43.55280 | .1828677 |
| #3 | .0178541 | -.004899 | .0897690 | .002471 | -.002935 | 43.54420 | .1799398 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0026862** | **.0016421** | **45.17232** | **.0792830** | **.0357188** | **.1100708** | **74.79508** |
| Stddev | .0000732 | .0000625 | .07782 | .0002153 | .0000658 | .0005020 | .51884 |
| %RSD | 2.724892 | 3.805290 | .1722789 | .2716136 | .1842693 | .4560902 | .6936789 |
| #1 | .0027612 | .0016802 | 45.18897 | .0790491 | .0356430 | .1106200 | 74.56833 |
| #2 | .0026826 | .0016761 | 45.08752 | .0793267 | .0357614 | .1096355 | 75.38869 |
| #3 | .0026149 | .0015700 | 45.24047 | .0794731 | .0357520 | .1099571 | 74.42821 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.019691** | **18.12186** | **.0643240** | **.0012720** | **2.835658** | **.1508933** | **.2013800** |
| Stddev | .001550 | .03217 | .0001649 | .0005289 | .032450 | .0033507 | .0004835 |
| %RSD | .1520198 | .1775306 | .2563786 | 41.57992 | 1.144369 | 2.220598 | .2401123 |
| #1 | 1.020288 | 18.11971 | .0641772 | .0011412 | 2.812031 | .1539078 | .2019362 |
| #2 | 1.020854 | 18.09081 | .0645025 | .0018540 | 2.872658 | .1472856 | .2010593 |
| #3 | 1.017931 | 18.15505 | .0642924 | .0008207 | 2.822285 | .1514866 | .2011446 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.351944** | **.0538258** | **.0020971** | **.0034225** | **2.465478** | **2.865527** | **2.079138** |
| Stddev | .056661 | .0029777 | .0001144 | .0003386 | .012741 | .052784 | .006123 |
| %RSD | 1.058692 | 5.532203 | 5.455833 | 9.893004 | .5167905 | 1.842048 | .2944998 |
| #1 | 5.286532 | .0544134 | .0022292 | .0032432 | 2.475703 | 2.866859 | 2.082908 |
| #2 | 5.383486 | .0564659 | .0020301 | .0038131 | 2.469527 | 2.917633 | 2.082432 |
| #3 | 5.385814 | .0505980 | .0020320 | .0032113 | 2.451204 | 2.812089 | 2.072073 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2919-01LX5 Acquired: 8/21/2025 18:33:01 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 1.101115 | .0416522 | -.018893 |
| Stddev | .008409 | .0017150 | .000482 |
| %RSD | .7636935 | 4.117440 | 2.550018 |
| #1 | 1.102063 | .0423370 | -.018466 |
| #2 | 1.109010 | .0429190 | -.019415 |
| #3 | 1.092272 | .0397006 | -.018798 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6437.986 | 112125.0 | 11511.86 | 5155.119 | 7298.787 |
| Stddev | 3.284 | 375.1 | 14.42 | 17.973 | .833 |
| %RSD | .0510079 | .3344976 | .1252277 | .3486447 | .0114112 |
| #1 | 6434.501 | 112240.0 | 11495.71 | 5135.732 | 7298.781 |
| #2 | 6441.023 | 111705.9 | 11523.41 | 5171.226 | 7299.624 |
| #3 | 6438.433 | 112429.1 | 11516.47 | 5158.398 | 7297.958 |

Sample Name: Q2919-01MS Acquired: 8/21/2025 18:37:06 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7159700** | **1.830524** | **1.277576** | **1.605129** | **.3308924** | **157.9330** |
| Stddev | .0025378 | .046718 | .001077 | .005804 | .0004691 | .2868 |
| %RSD | .3544514 | 2.552170 | .0843069 | .3615993 | .1417828 | .1815994 |
| #1 | .7170426 | 1.881210 | 1.278197 | 1.610776 | .3303518 | 157.6239 |
| #2 | .7177954 | 1.821175 | 1.278200 | 1.605429 | .3311925 | 158.1904 |
| #3 | .7130721 | 1.789187 | 1.276333 | 1.599180 | .3311329 | 157.9848 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7350288** | **.1618146** | **.2050185** | **62.08103** | **.5790102** | **.3596787** |
| Stddev | .0027855 | .0005998 | .0006199 | .19055 | .0017522 | .0004138 |
| %RSD | .3789628 | .3706679 | .3023800 | .3069388 | .3026114 | .1150377 |
| #1 | .7324147 | .1611623 | .2055664 | 61.86979 | .5807795 | .3599420 |
| #2 | .7379588 | .1623424 | .2043456 | 62.23996 | .5772757 | .3592018 |
| #3 | .7347128 | .1619390 | .2051436 | 62.13333 | .5789754 | .3598923 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6123166** | **296.3468** | **3.660136** | **68.40794** | **.7612561** | **.0778885** |
| Stddev | .0009722 | .3075 | .015112 | .28115 | .0007653 | .0003376 |
| %RSD | .1587732 | .1037542 | .4128809 | .4109929 | .1005359 | .4333913 |
| #1 | .6111956 | 296.7009 | 3.643074 | 68.10812 | .7620242 | .0777944 |
| #2 | .6129285 | 296.1928 | 3.671835 | 68.66568 | .7604936 | .0782631 |
| #3 | .6128258 | 296.1468 | 3.665500 | 68.45001 | .7612505 | .0776079 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **14.41697** | **.8486672** | **.8024835** | **30.86043** | **.5359220** | **.3382972** |
| Stddev | .03565 | .0034084 | .0016929 | .11851 | .0038596 | .0003405 |
| %RSD | .2472702 | .4016200 | .2109526 | .3840268 | .7201734 | .1006564 |
| #1 | 14.45601 | .8447315 | .8044055 | 30.99424 | .5402107 | .3380120 |
| #2 | 14.38614 | .8506334 | .8012140 | 30.76868 | .5327281 | .3386742 |
| #3 | 14.40876 | .8506366 | .8018310 | 30.81839 | .5348272 | .3382053 |

Sample Name: Q2919-01MS Acquired: 8/21/2025 18:37:06 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6773015 | F 10.42611 | 6.506285 | F 13.62076 | 4.751687 | .3417537 |
| Stddev | .0018592 | .03087 | .129404 | .09388 | .047684 | .0017241 |
| %RSD | .2744985 | .2960991 | 1.988914 | .6892115 | 1.003514 | .5044972 |
| #1 | .6783671 | 10.39294 | 6.569638 | 13.69193 | 4.781301 | .3397635 |
| #2 | .6783826 | 10.45399 | 6.357411 | 13.65599 | 4.777080 | .3427068 |
| #3 | .6751547 | 10.43141 | 6.591806 | 13.51437 | 4.696681 | .3427909 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0477347 |
| Stddev | .0010770 |
| %RSD | 2.256222 |
| #1 | .0468696 |
| #2 | .0489409 |
| #3 | .0473934 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 7133.548 | 125448.2 | 13941.72 | 5677.915 | 6694.084 |
| Stddev | 14.768 | 125.3 | 89.01 | 37.438 | 3.625 |
| %RSD | .2070233 | .0998763 | .6384353 | .6593606 | .0541542 |
| #1 | 7150.123 | 125520.6 | 14043.76 | 5677.507 | 6697.299 |
| #2 | 7121.790 | 125520.4 | 13880.01 | 5715.556 | 6690.155 |
| #3 | 7128.731 | 125303.5 | 13901.40 | 5640.683 | 6694.798 |

Sample Name: Q2919-01MSD Acquired: 8/21/2025 18:41:01 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6951951** | **1.765852** | **1.339890** | **1.553047** | **.3088191** | **165.6428** |
| Stddev | .0015054 | .011843 | .001188 | .001665 | .0006938 | .0907 |
| %RSD | .2165405 | .6706775 | .0886654 | .1071957 | .2246627 | .0547623 |
| #1 | .6943182 | 1.753650 | 1.338554 | 1.551666 | .3083572 | 165.5398 |
| #2 | .6969334 | 1.777300 | 1.340285 | 1.552579 | .3084833 | 165.7108 |
| #3 | .6943338 | 1.766606 | 1.340830 | 1.554895 | .3096169 | 165.6777 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7507278** | **.1583223** | **.2017184** | **63.44466** | **.5896189** | **.3564192** |
| Stddev | .0029410 | .0005726 | .0001326 | .08845 | .0024018 | .0004268 |
| %RSD | .3917561 | .3616511 | .0657521 | .1394082 | .4073511 | .1197398 |
| #1 | .7528087 | .1581301 | .2015663 | 63.47265 | .5923787 | .3561957 |
| #2 | .7473631 | .1589662 | .2017794 | 63.34560 | .5880019 | .3561507 |
| #3 | .7520116 | .1578705 | .2018096 | 63.51573 | .5884760 | .3569113 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5804489** | **305.0112** | **4.105403** | **66.11670** | **.7578364** | **.0778043** |
| Stddev | .0006636 | 1.6092 | .009784 | .02579 | .0014764 | .0002959 |
| %RSD | .1143275 | .5275763 | .2383311 | .0390050 | .1948202 | .3802935 |
| #1 | .5810384 | 306.2969 | 4.112628 | 66.12239 | .7564927 | .0780345 |
| #2 | .5805783 | 303.2066 | 4.094268 | 66.13917 | .7575994 | .0774706 |
| #3 | .5797302 | 305.5300 | 4.109313 | 66.08854 | .7594169 | .0779080 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **14.56294** | **.8265445** | **.8724586** | **28.97777** | **.4991138** | **.3269881** |
| Stddev | .12459 | .0028485 | .0026350 | .21319 | .0050597 | .0003610 |
| %RSD | .8555321 | .3446284 | .3020183 | .7357050 | 1.013732 | .1104101 |
| #1 | 14.65017 | .8276664 | .8701163 | 29.01424 | .5040958 | .3272675 |
| #2 | 14.42025 | .8233059 | .8719481 | 28.74869 | .4939799 | .3271163 |
| #3 | 14.61841 | .8286613 | .8753115 | 29.17036 | .4992658 | .3265805 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2919-01MSD Acquired: 8/21/2025 18:41:01 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6779763 | 8.984700 | 8.494615 | F 14.25118 | 5.780556 | .3477414 |
| Stddev | .0015500 | .021374 | .101465 | .02603 | .006287 | .0019198 |
| %RSD | .2286226 | .2378949 | 1.194464 | .1826612 | .1087611 | .5520857 |
| #1 | .6790074 | 8.983408 | 8.395910 | 14.22118 | 5.777877 | .3483141 |
| #2 | .6787277 | 8.964001 | 8.489302 | 14.26454 | 5.776052 | .3456004 |
| #3 | .6761938 | 9.006691 | 8.598632 | 14.26782 | 5.787739 | .3493097 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0523324 |
| Stddev | .0011319 |
| %RSD | 2.162821 |
| #1 | .0510743 |
| #2 | .0532681 |
| #3 | .0526548 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 7242.283 | 125302.1 | 14090.07 | 5678.064 | 6729.443 |
| Stddev | 3.286 | 414.3 | 19.73 | 28.023 | 5.419 |
| %RSD | .0453687 | .3306535 | .1400456 | .4935340 | .0805324 |
| #1 | 7243.261 | 124897.0 | 14083.45 | 5699.683 | 6735.676 |
| #2 | 7238.619 | 125725.0 | 14074.50 | 5688.105 | 6726.803 |
| #3 | 7244.969 | 125284.2 | 14112.26 | 5646.403 | 6725.849 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2919-01A Acquired: 8/21/2025 18:44:56 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7075905** | **1.780131** | **1.303163** | **1.560451** | **.6376224** | **177.6790** |
| Stddev | .0029072 | .022641 | .000441 | .006985 | .0011818 | .2244 |
| %RSD | .4108571 | 1.271888 | .0338567 | .4475964 | .1853523 | .1262832 |
| #1 | .7056472 | 1.796184 | 1.303176 | 1.561890 | .6389833 | 177.8779 |
| #2 | .7061916 | 1.754234 | 1.303597 | 1.552860 | .6370303 | 177.7232 |
| #3 | .7109327 | 1.789976 | 1.302715 | 1.566605 | .6368536 | 177.4358 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.9019042** | **.1560732** | **.2027625** | **162.0091** | **.6107803** | **.3893434** |
| Stddev | .0051169 | .0011108 | .0002342 | .2500 | .0017304 | .0005733 |
| %RSD | .5673444 | .7117244 | .1154962 | .1543343 | .2833069 | .1472531 |
| #1 | .9068639 | .1573436 | .2027451 | 162.2726 | .6123742 | .3895859 |
| #2 | .9022056 | .1555910 | .2025376 | 161.9795 | .6089399 | .3886887 |
| #3 | .8966433 | .1552849 | .2030049 | 161.7752 | .6110269 | .3897556 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.408553** | **330.6995** | **4.100240** | **73.84036** | **.8170625** | **.0766106** |
| Stddev | .003044 | .8589 | .024907 | .09255 | .0007872 | .0004087 |
| %RSD | .2160747 | .2597160 | .6074530 | .1253374 | .0963414 | .5334563 |
| #1 | 1.410572 | 331.1187 | 4.124233 | 73.93996 | .8161914 | .0769544 |
| #2 | 1.405052 | 331.2682 | 4.101977 | 73.75701 | .8177230 | .0767187 |
| #3 | 1.410034 | 329.7115 | 4.074510 | 73.82411 | .8172730 | .0761588 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **15.03046** | **.8324670** | **.9365862** | **31.49675** | **.5416905** | **.3314282** |
| Stddev | .06869 | .0020299 | .0011592 | .03618 | .0012736 | .0003813 |
| %RSD | .4569750 | .2438453 | .1237665 | .1148707 | .2351228 | .1150399 |
| #1 | 15.09668 | .8304388 | .9377348 | 31.53274 | .5422041 | .3310845 |
| #2 | 15.03514 | .8344987 | .9366070 | 31.46038 | .5426270 | .3313619 |
| #3 | 14.95955 | .8324636 | .9354167 | 31.49713 | .5402402 | .3318384 |

Sample Name: Q2919-01A Acquired: 8/21/2025 18:44:56 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .6982344 | F 10.06127 | 9.215615 | F 16.32842 | F 10.91247 | .3512395 |
| Stddev | .0008720 | .03047 | .054088 | .06271 | .03376 | .0020990 |
| %RSD | .1248797 | .3028091 | .5869208 | .3840772 | .3094085 | .5975868 |
| #1 | .6991253 | 10.08550 | 9.154413 | 16.39481 | 10.90987 | .3529734 |
| #2 | .6981951 | 10.07123 | 9.257001 | 16.27019 | 10.88008 | .3518392 |
| #3 | .6973827 | 10.02707 | 9.235429 | 16.32025 | 10.94746 | .3489060 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0470781 |
| Stddev | .0011243 |
| %RSD | 2.388119 |
| #1 | .0483566 |
| #2 | .0466339 |
| #3 | .0462437 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 7119.415 | 124721.5 | 14126.72 | 5654.288 | 6466.272 |
| Stddev | 7.795 | 296.2 | 72.80 | 17.208 | 5.979 |
| %RSD | .1094908 | .2374685 | .5153696 | .3043364 | .0924635 |
| #1 | 7116.006 | 124398.7 | 14046.39 | 5655.832 | 6468.195 |
| #2 | 7128.334 | 124784.8 | 14145.44 | 5670.673 | 6471.052 |
| #3 | 7113.906 | 124980.8 | 14188.34 | 5636.361 | 6459.568 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2909-01 Acquired: 8/21/2025 18:48:51 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0531659** | **-.034694** | **.2101619** | **.0100910** | **.0214269** | **7.708439** | **2.359019** |
| Stddev | .0005300 | .001261 | .0013106 | .0034807 | .0016156 | .017146 | .008824 |
| %RSD | .9968473 | 3.633260 | .6235993 | 34.49337 | 7.539796 | .2224307 | .3740667 |
| #1 | .0537640 | -.033363 | .2086490 | .0100733 | .0231034 | 7.709322 | 2.354043 |
| #2 | .0529791 | -.034849 | .2109477 | .0135806 | .0212973 | 7.725127 | 2.369207 |
| #3 | .0527546 | -.035869 | .2108891 | .0066192 | .0198801 | 7.690869 | 2.353807 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0051401** | **.0069384** | **28.59287** | **.8194494** | **.0327334** | **2.327143** | **313.1918** |
| Stddev | .0000686 | .0001025 | .02719 | .0015015 | .0001775 | .002582 | .6662 |
| %RSD | 1.334546 | 1.477223 | .0951088 | .1832330 | .5421878 | .1109309 | .2127185 |
| #1 | .0050655 | .0070339 | 28.61830 | .8206471 | .0326381 | 2.329966 | 313.6309 |
| #2 | .0051546 | .0069513 | 28.56420 | .8177649 | .0326240 | 2.324901 | 313.5194 |
| #3 | .0052003 | .0068301 | 28.59613 | .8199363 | .0329382 | 2.326564 | 312.4253 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.782573** | **4.347266** | **.4084340** | **.0175815** | **34.66841** | **.1309478** | **7.879060** |
| Stddev | .001537 | .008115 | .0004652 | .0006459 | .10759 | .0021350 | .012269 |
| %RSD | .0862419 | .1866706 | .1138994 | 3.673622 | .3103407 | 1.630407 | .1557133 |
| #1 | 1.781406 | 4.345059 | .4081053 | .0168899 | 34.74227 | .1305631 | 7.890670 |
| #2 | 1.784315 | 4.356256 | .4082305 | .0181690 | 34.71798 | .1290314 | 7.880286 |
| #3 | 1.781997 | 4.340483 | .4089663 | .0176855 | 34.54497 | .1332490 | 7.866224 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **58.29439** | **.6533873** | **1.255246** | **.2406852** | **.6376840** | **3.566366** | **1.260876** |
| Stddev | .14677 | .0030521 | .001921 | .0017441 | .0073264 | .040034 | .002551 |
| %RSD | .2517789 | .4671156 | .1530715 | .7246220 | 1.148906 | 1.122553 | .2023131 |
| #1 | 58.33280 | .6569043 | 1.256724 | .2394804 | .6309602 | 3.574474 | 1.257946 |
| #2 | 58.41814 | .6518236 | 1.255939 | .2426851 | .6454921 | 3.601726 | 1.262603 |
| #3 | 58.13223 | .6514339 | 1.253074 | .2398900 | .6365995 | 3.522898 | 1.262080 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: Q2909-01 Acquired: 8/21/2025 18:48:51 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | 6.961816 | .0526988 | -.152665 |
| Stddev | .041706 | .0016149 | .000608 |
| %RSD | .5990616 | 3.064427 | .3980374 |
| #1 | 6.940486 | .0544532 | -.153314 |
| #2 | 7.009872 | .0512743 | -.152571 |
| #3 | 6.935088 | .0523691 | -.152109 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6235.251 | 110290.7 | 12040.41 | 4959.235 | 7199.636 |
| Stddev | 6.984 | 246.5 | 56.44 | 24.164 | 9.438 |
| %RSD | .1120112 | .2234912 | .4687555 | .4872470 | .1310903 |
| #1 | 6235.072 | 110344.5 | 12087.80 | 4977.886 | 7207.737 |
| #2 | 6242.322 | 110505.9 | 12055.48 | 4931.938 | 7201.898 |
| #3 | 6228.357 | 110021.8 | 11977.97 | 4967.881 | 7189.272 |

Sample Name: CCV05 Acquired: 8/21/2025 18:52:52 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.043385** | **5.066846** | **4.964780** | **5.067674** | **5.053709** | **9.969313** | **10.07556** |
| Stddev | .006001 | .072137 | .002448 | .018069 | .011222 | .048030 | .14705 |
| %RSD | .1189813 | 1.423712 | .0493012 | .3565497 | .2220596 | .4817747 | 1.459456 |
| #1 | 5.047006 | 5.149466 | 4.961966 | 5.088337 | 5.066051 | 10.02468 | 10.24325 |
| #2 | 5.036458 | 5.034712 | 4.966421 | 5.054839 | 5.044117 | 9.94433 | 9.96863 |
| #3 | 5.046690 | 5.016360 | 4.965952 | 5.059847 | 5.050959 | 9.93892 | 10.01479 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2420413** | **2.499897** | **25.10179** | **.9955650** | **2.505581** | **1.265645** | **5.215457** |
| Stddev | .0006775 | .003212 | .05996 | .0040186 | .004675 | .000629 | .034840 |
| %RSD | .2799302 | .1284698 | .2388588 | .4036508 | .1865793 | .0497336 | .6680115 |
| #1 | .2427185 | 2.500213 | 25.16285 | .9955243 | 2.503312 | 1.265536 | 5.207346 |
| #2 | .2420422 | 2.496540 | 25.04300 | .9915670 | 2.502473 | 1.265076 | 5.185388 |
| #3 | .2413634 | 2.502940 | 25.09952 | .9996039 | 2.510957 | 1.266321 | 5.253637 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.530896** | **24.82455** | **2.498531** | **1.250339** | **25.37857** | **2.524936** | **2.520795** |
| Stddev | .007285 | .02121 | .005479 | .002779 | .18397 | .012681 | .002287 |
| %RSD | .2878335 | .0854222 | .2192843 | .2222657 | .7249182 | .5022161 | .0907110 |
| #1 | 2.538736 | 24.80074 | 2.496405 | 1.250529 | 25.39090 | 2.538507 | 2.520027 |
| #2 | 2.524336 | 24.84142 | 2.494433 | 1.247469 | 25.18874 | 2.522914 | 2.523367 |
| #3 | 2.529616 | 24.83149 | 2.504754 | 1.253018 | 25.55607 | 2.513389 | 2.518991 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **24.87085** | **4.879337** | **5.049160** | **5.003927** | **5.065877** | **5.163411** | **5.019421** |
| Stddev | .18861 | .012719 | .010645 | .015041 | .009903 | .013422 | .026791 |
| %RSD | .7583745 | .2606705 | .2108285 | .3005897 | .1954826 | .2599516 | .5337533 |
| #1 | 24.82108 | 4.891084 | 5.061404 | 5.001841 | 5.076005 | 5.162206 | 5.031216 |
| #2 | 24.71211 | 4.881096 | 5.043977 | 4.990038 | 5.056216 | 5.150632 | 4.988755 |
| #3 | 25.07936 | 4.865830 | 5.042099 | 5.019903 | 5.065410 | 5.177396 | 5.038290 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: CCV05 Acquired: 8/21/2025 18:52:52 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **4.981026** | **4.693947** | **5.111582** |
| Stddev | .024651 | .022299 | .029889 |
| %RSD | .4949031 | .4750492 | .5847351 |
| #1 | 4.991737 | 4.716098 | 5.140043 |
| #2 | 4.952831 | 4.671504 | 5.114258 |
| #3 | 4.998509 | 4.694239 | 5.080444 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **6111.564** | **105887.9** | **11170.54** | **4827.578** | **7089.463** |
| Stddev | 3.721 | 336.1 | 45.29 | 12.854 | 10.929 |
| %RSD | .0608832 | .3173709 | .4054141 | .2662647 | .1541574 |
| #1 | 6107.318 | 105733.7 | 11120.39 | 4816.827 | 7096.391 |
| #2 | 6114.256 | 106273.4 | 11182.79 | 4841.816 | 7095.135 |
| #3 | 6113.118 | 105656.6 | 11208.45 | 4824.091 | 7076.865 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: CCB05 Acquired: 8/21/2025 18:57:04 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.001549** | **-.000776** | **-.000920** | **.0008140** | **-.001034** | **.0023458** | **-.004634** |
| Stddev | .000634 | .001153 | .000792 | .0017567 | .000417 | .0048027 | .000642 |
| %RSD | 40.96269 | 148.5438 | 86.10947 | 215.8224 | 40.32092 | 204.7398 | 13.85290 |
| #1 | -.000818 | .000235 | -.000020 | .0028422 | -.001221 | .0016787 | -.004241 |
| #2 | -.001956 | -.000532 | -.001230 | -.000223 | -.001326 | -.002089 | -.005374 |
| #3 | -.001872 | -.002032 | -.001511 | -.000177 | -.000557 | .007447 | -.004286 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000013** | **.0000270** | **-.012291** | **-.000208** | **-.000000** | **-.000056** | **-.005856** |
| Stddev | .000052 | .0000309 | .006668 | .000155 | .000102 | .000105 | .001077 |
| %RSD | 393.8739 | 114.5274 | 54.25321 | 74.15076 | 20998.59 | 186.5338 | 18.39005 |
| #1 | -.000048 | .0000544 | -.019948 | -.000337 | .000113 | -.000137 | -.004623 |
| #2 | -.000037 | .0000330 | -.009168 | -.000037 | -.000085 | -.000094 | -.006614 |
| #3 | .000046 | -.000006 | -.007757 | -.000251 | -.000029 | .000062 | -.006332 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000417** | **.0233433** | **-.000205** | **-.000335** | **.2334840** | **.0000302** | **-.000945** |
| Stddev | .000283 | .0089300 | .000122 | .000349 | .0196456 | .0033873 | .000233 |
| %RSD | 67.85348 | 38.25517 | 59.20338 | 104.2178 | 8.414122 | 11233.85 | 24.65849 |
| #1 | -.000530 | .0332589 | -.000340 | -.000007 | .2109890 | .0033722 | -.001149 |
| #2 | -.000095 | .0159350 | -.000171 | -.000297 | .2472677 | -.003401 | -.000994 |
| #3 | -.000626 | .0208359 | -.000105 | -.000702 | .2421954 | .000119 | -.000691 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4600530** | **.0018835** | **.0003130** | **-.002512** | **-.002209** | **.0174798** | **.0031034** |
| Stddev | .0747272 | .0007553 | .0001147 | .000285 | .000113 | .0052015 | .0008406 |
| %RSD | 16.24318 | 40.10154 | 36.64296 | 11.36318 | 5.108191 | 29.75702 | 27.08570 |
| #1 | .3750379 | .0019025 | .0003729 | -.002297 | -.002189 | .0231287 | .0024782 |
| #2 | .4897742 | .0026291 | .0003854 | -.002404 | -.002107 | .0164227 | .0027730 |
| #3 | .5153468 | .0011189 | .0001808 | -.002836 | -.002330 | .0128881 | .0040589 |

Reviewed By:Janvi
On:8/22/2025 12:08:42 PM
Inst Id :P4
LB :LB136917

Sample Name: CCB05 Acquired: 8/21/2025 18:57:04 Type: Unk
Method: 6010-200.7 NEW(v123) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB05 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | -.004406 | -.004809 | .0000392 |
| Stddev | .002289 | .000320 | .0000319 |
| %RSD | 51.95812 | 6.644943 | 81.51156 |
| | | | |
| #1 | -.001945 | -.004719 | .0000177 |
| #2 | -.006472 | -.004544 | .0000240 |
| #3 | -.004803 | -.005164 | .0000758 |

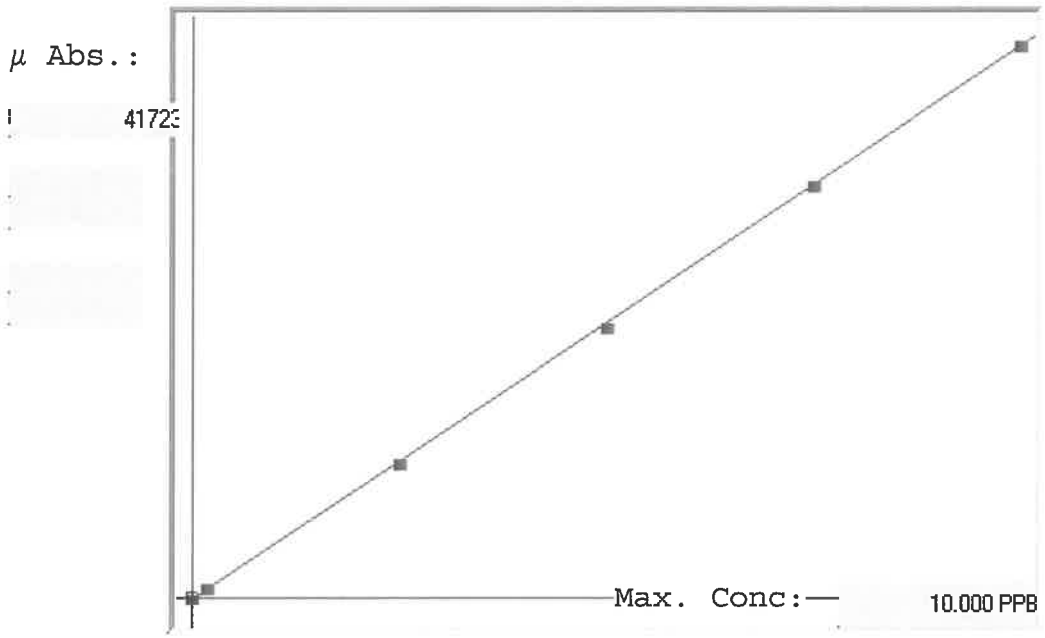
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6412.996 | 111641.6 | 11223.51 | 5052.746 | 8110.366 |
| Stddev | 10.909 | 121.8 | 42.87 | 20.658 | 9.343 |
| %RSD | .1701095 | .1091302 | .3819561 | .4088471 | .1152008 |
| | | | | | |
| #1 | 6400.913 | 111775.8 | 11174.47 | 5076.469 | 8100.013 |
| #2 | 6422.122 | 111611.1 | 11242.18 | 5043.051 | 8118.171 |
| #3 | 6415.952 | 111538.0 | 11253.87 | 5038.719 | 8112.914 |

Reviewed By:jaswal
On:8/12/2025 11:59:44 PM
Inst Id :CV1
LB :LB136788

LB136788
INSTRUMENT ID: CV1

7470A

Linear




| | |
|---|---|
| A= | 0.0000e+000 |
| B= | 2.3988e-004 |
| C= | 3.3618e-002 |
| Rho= | 0.9999451 |
| Accept= | Accepted |

| Std ID | Conc. | Calc. | Dev. | Mean | SD or %RSD | Rep 1 | Rep 2 | Rep 3 | Rep 4 | Rep 5 | %D |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.000 | 0.033 | 0.033 | -3 | 0.000 | -3 | 0 | | | | |
| 0.2 | 0.200 | 0.218 | 0.018 | 768 | 0.0 % | 768 | | | | | |
| 2.5 | 2.500 | 2.485 | -0.015 | 10218 | 0.0 % | 10218 | 0 | | | | |
| 5.0 | 5.000 | 4.926 | -0.074 | 20393 | 0.0 % | 20393 | | | | | |
| 7.5 | 7.500 | 7.497 | -0.003 | 31112 | 0.0 % | 31112 | | | | | |
| 10.0 | 10.000 | 10.042 | 0.042 | 41723 | 0.0 % | 41723 | | | | | |

Reviewed By:jaswal
On:8/12/2025 11:59:44 PM
Inst Id :CV1
LB :LB136788

# LB136788 INSTRUMENT ID:CV1

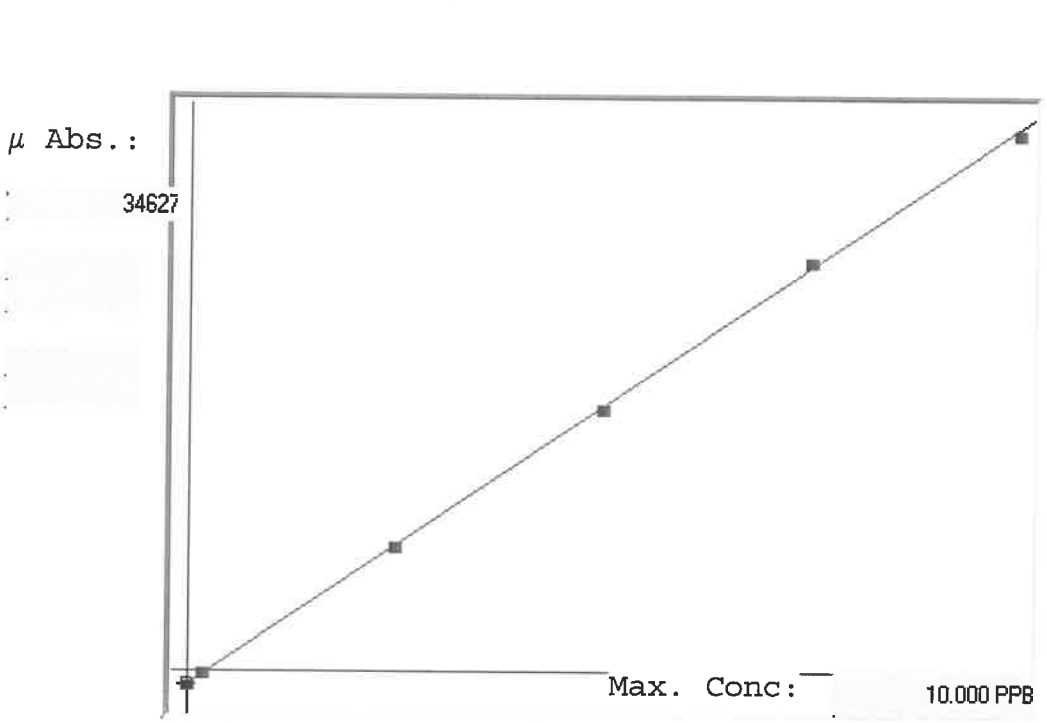
Method: 7470A Operator: Admin Date of Analysis: 12 Aug 2025 13:54:25

| Type | Sample ID | Extended ID | Conc. | µ Abs. | Units | Type | Stnd Conc | Method | Date |
|---|---|---|---|---|---|---|---|---|---|
| S | 0.0 - 1 | 50.0 | - | -3 | PPB | Std | 0.00000 | 7470A | 12 Aug 2025 14:07:24 |
| S | 0.2 - 1 | 50.2 | - | 768 | PPB | Std | 0.20000 | 7470A | 12 Aug 2025 14:09:41 |
| S | 2.5 - 1 | 52.5 | - | 10218 | PPB | Std | 2.50000 | 7470A | 12 Aug 2025 14:11:59 |
| S | 5.0 - 1 | 55.0 | - | 20393 | PPB | Std | 5.00000 | 7470A | 12 Aug 2025 14:14:15 |
| S | 7.5 - 1 | 57.5 | - | 31112 | PPB | Std | 7.50000 | 7470A | 12 Aug 2025 14:16:32 |
| S | 10.0 - 1 | 510.0 | - | 41723 | PPB | Std | 10.00000 | 7470A | 12 Aug 2025 14:18:50 |
| U | ICV10 - 1 | ICV10 | 4.1399 | 17118 | PPB | SMPL | | 7470A | 12 Aug 2025 14:21:34 |
| U | ICB10 - 1 | ICB10 | -0.0369 | -294 | PPB | SMPL | | 7470A | 12 Aug 2025 14:23:49 |
| U | CCV29 - 1 | CCV29 | 4.9296 | 20410 | PPB | SMPL | | 7470A | 12 Aug 2025 14:26:06 |
| U | CCB29 - 1 | CCB29 | -0.0273 | -254 | PPB | SMPL | | 7470A | 12 Aug 2025 14:28:24 |
| U | CRA - 1 | CRA | 0.2118 | 743 | PPB | SMPL | | 7470A | 12 Aug 2025 14:30:43 |
| U | HighStd - 1 | HighStd | 10.1276 | 42079 | PPB | SMPL | | 7470A | 12 Aug 2025 14:33:01 |
| U | ChkStd - 1 | ChkStd | 7.3618 | 30549 | PPB | SMPL | | 7470A | 12 Aug 2025 14:35:20 |
| U | PB169202BL - 1 | PBW | -0.0513 | -354 | PPB | SMPL | | 7470A | 12 Aug 2025 14:37:39 |
| U | PB169202BS - 1 | LCSW | 4.1394 | 17116 | PPB | SMPL | | 7470A | 12 Aug 2025 14:42:43 |
| U | Q2759-04 - 1 | LIQUID-DRUM | 21.1310 | 87949 | PPB | SMPL | | 7470A | 12 Aug 2025 14:44:59 |
| U | Q2776-01 - 1 | 72825 | -0.0371 | -295 | PPB | SMPL | | 7470A | 12 Aug 2025 14:47:27 |
| U | Q2814-01 - 1 | TW-84SB-E | 0.0497 | 67 | PPB | SMPL | | 7470A | 12 Aug 2025 14:50:03 |
| U | Q2814-03 - 1 | TW-17M-W | 0.1411 | 448 | PPB | SMPL | | 7470A | 12 Aug 2025 14:52:25 |
| U | Q2814-16 - 1 | FB | 0.0020 | -132 | PPB | SMPL | | 7470A | 12 Aug 2025 14:54:43 |
| U | CCV30 - 1 | CCV30 | 4.9843 | 20638 | PPB | SMPL | | 7470A | 12 Aug 2025 14:56:58 |
| U | CCB30 - 1 | CCB30 | -0.0326 | -276 | PPB | SMPL | | 7470A | 12 Aug 2025 14:59:14 |
| U | Q2814-17 - 1 | TW-518R-S | 0.2783 | 1020 | PPB | SMPL | | 7470A | 12 Aug 2025 15:01:32 |
| U | Q2815-01 - 1 | TW-705R-S | 0.3579 | 1352 | PPB | SMPL | | 7470A | 12 Aug 2025 15:03:47 |
| U | Q2815-11 - 1 | TW-22M-W | 0.0674 | 141 | PPB | SMPL | | 7470A | 12 Aug 2025 15:06:05 |
| U | Q2815-20 - 1 | TW-11M-W | 0.1461 | 469 | PPB | SMPL | | 7470A | 12 Aug 2025 15:08:23 |
| U | Q2815-26 - 1 | FB | 0.0103 | -97 | PPB | SMPL | | 7470A | 12 Aug 2025 15:10:39 |
| U | Q2821-05 - 1 | GW-COMP | 0.0351 | 6 | PPB | SMPL | | 7470A | 12 Aug 2025 15:12:55 |
| U | Q2821-08 - 1 | DM-COMP | -0.0110 | -186 | PPB | SMPL | | 7470A | 12 Aug 2025 15:15:16 |
| U | Q2821-08DUP - 1 | DM-COMPDUP | 0.0387 | 21 | PPB | SMPL | | 7470A | 12 Aug 2025 15:17:34 |
| U | Q2821-08MS - 1 | DM-COMPMS | 3.7016 | 15291 | PPB | SMPL | | 7470A | 12 Aug 2025 15:19:51 |
| U | Q2821-08MSD - 1 | DM-COMPMSD | 3.8177 | 15775 | PPB | SMPL | | 7470A | 12 Aug 2025 15:22:06 |
| U | CCV31 - 1 | CCV31 | 4.9118 | 20336 | PPB | SMPL | | 7470A | 12 Aug 2025 15:24:24 |
| U | CCB31 - 1 | CCB31 | -0.0954 | -538 | PPB | SMPL | | 7470A | 12 Aug 2025 15:26:41 |
| U | Q2821-08LX5 - 1 | | 0.0806 | 196 | PPB | SMPL | | 7470A | 12 Aug 2025 15:29:00 |
| U | Q2821-08A - 1 | | 4.1375 | 17108 | PPB | SMPL | | 7470A | 12 Aug 2025 15:31:15 |
| U | Q2759-04DLX5 - 1 | | 2.8880 | 11899 | PPB | SMPL | | 7470A | 12 Aug 2025 15:33:31 |
| U | CCV32 - 1 | CCV32 | 4.7818 | 19794 | PPB | SMPL | | 7470A | 12 Aug 2025 15:35:50 |
| U | CCB32 - 1 | CCB32 | -0.0132 | -195 | PPB | SMPL | | 7470A | 12 Aug 2025 15:38:08 |

LB136836
INSTRUMENT ID: CV1

Reviewed By:jaswal
On:8/17/2025 11:19:34 PM
Inst Id :CV1
LB :LB136836

7470A




| Std ID | Conc. | Calc. | Dev. | Mean | SD or %RSD | Rep 1 | Rep 2 | Rep 3 | Rep 4 | Rep 5 | %D |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.000 | -0.007 | -0.007 | -920 | 0.000 | -920 | 0 | | | | |
| 0.2 | 0.200 | 0.184 | -0.016 | -234 | 0.0 % | -234 | | | | | |
| 2.5 | 2.500 | 2.507 | 0.007 | 8083 | 0.0 % | 8083 | 0 | | | | |
| 5.0 | 5.000 | 4.982 | -0.018 | 16942 | 0.0 % | 16942 | | | | | |
| 7.5 | 7.500 | 7.613 | 0.113 | 26361 | 0.0 % | 26361 | | | | | |
| 10.0 | 10.000 | 9.921 | -0.079 | 34627 | 0.0 % | 34627 | | | | | |

Reviewed By:jaswal
On:8/17/2025 11:19:34 PM
Inst Id :CV1
LB :LB136836

# LB136836 INSTRUMENT ID:CV1

Method: 7470A Operator: Admin Date of Analysis: 15 Aug 2025 10:34:38

| Type | Sample ID | Extended ID | Conc. | µ Abs. | Units | Type | Stnd Conc | Method | Date |
|---|---|---|---|---|---|---|---|---|---|
| S | 0.0 - 1 | S0.0 | - | -920 | PPB | Std | 0.00000 | 7470A | 15 Aug 2025 11:25:54 |
| S | 0.2 - 1 | S0.2 | - | -234 | PPB | Std | 0.20000 | 7470A | 15 Aug 2025 11:28:11 |
| S | 2.5 - 1 | S2.5 | - | 8083 | PPB | Std | 2.50000 | 7470A | 15 Aug 2025 11:30:28 |
| S | 5.0 - 1 | S5.0 | - | 16942 | PPB | Std | 5.00000 | 7470A | 15 Aug 2025 11:32:44 |
| S | 7.5 - 1 | S7.5 | - | 26361 | PPB | Std | 7.50000 | 7470A | 15 Aug 2025 11:35:03 |
| S | 10.0 - 1 | S10.0 | - | 34627 | PPB | Std | 10.00000 | 7470A | 15 Aug 2025 11:37:20 |
| U | ICV18 - 1 | ICV18 | 4.0785 | 13708 | PPB | SMPL | | 7470A | 15 Aug 2025 11:40:06 |
| U | ICB18 - 1 | ICB18 | 0.0028 | -884 | PPB | SMPL | | 7470A | 15 Aug 2025 11:45:30 |
| U | CCV54 - 1 | CCV54 | 5.2390 | 17863 | PPB | SMPL | | 7470A | 15 Aug 2025 12:11:25 |
| U | CCB54 - 1 | CCB54 | -0.0595 | -1107 | PPB | SMPL | | 7470A | 15 Aug 2025 12:13:45 |
| U | CRA - 1 | CRA | 0.1877 | -222 | PPB | SMPL | | 7470A | 15 Aug 2025 12:16:02 |
| U | HighStd - 1 | HighStd | 9.9914 | 34878 | PPB | SMPL | | 7470A | 15 Aug 2025 12:18:20 |
| U | ChkStd - 1 | ChkStd | 7.6262 | 26410 | PPB | SMPL | | 7470A | 15 Aug 2025 12:20:35 |
| U | PB169249BL - 1 | PBW | -0.1458 | -1416 | PPB | SMPL | | 7470A | 15 Aug 2025 12:22:53 |
| U | PB169249BS - 1 | LCSW | 4.1949 | 14125 | PPB | SMPL | | 7470A | 15 Aug 2025 12:25:11 |
| U | Q2814-22 - 1 | TW-84SB-E | -0.0447 | -1054 | PPB | SMPL | | 7470A | 15 Aug 2025 12:27:28 |
| U | Q2814-23 - 1 | TW-17M-W | 0.0132 | -847 | PPB | SMPL | | 7470A | 15 Aug 2025 12:29:47 |
| U | Q2815-25 - 1 | TW-11M-W | 0.1841 | -235 | PPB | SMPL | | 7470A | 15 Aug 2025 12:32:04 |
| U | Q2837-01 - 1 | TW-WTS-13 | 0.0059 | -873 | PPB | SMPL | | 7470A | 15 Aug 2025 12:34:21 |
| U | Q2840-03 - 1 | 0804-E | 0.6824 | 1549 | PPB | SMPL | | 7470A | 15 Aug 2025 12:36:38 |
| U | CCV55 - 1 | CCV55 | 4.8250 | 16381 | PPB | SMPL | | 7470A | 15 Aug 2025 12:38:53 |
| U | CCB55 - 1 | CCB55 | -0.0111 | -934 | PPB | SMPL | | 7470A | 15 Aug 2025 12:41:15 |
| U | Q2842-03 - 1 | MW-17B-55.5-081225 | 0.0226 | -813 | PPB | SMPL | | 7470A | 15 Aug 2025 12:43:33 |
| U | Q2842-03DUP - 1 | MW-17B-55.5-081225DUP | 0.0145 | -842 | PPB | SMPL | | 7470A | 15 Aug 2025 12:45:48 |
| U | Q2842-04 - 1 | Q2842-03MS | 3.7508 | 12535 | PPB | SMPL | | 7470A | 15 Aug 2025 12:48:03 |
| U | Q2842-05 - 1 | Q2842-03MSD | 3.8882 | 13027 | PPB | SMPL | | 7470A | 15 Aug 2025 12:50:19 |
| U | Q2849-01 - 1 | BUR-25-0071 | 0.0821 | -600 | PPB | SMPL | | 7470A | 15 Aug 2025 12:52:36 |
| U | Q2856-01 - 1 | #452 | 0.5153 | 951 | PPB | SMPL | | 7470A | 15 Aug 2025 12:54:54 |
| U | Q2856-03 - 1 | #456 | -0.0533 | -1085 | PPB | SMPL | | 7470A | 15 Aug 2025 12:57:13 |
| U | Q2857-01 - 1 | 4023 | -0.0290 | -998 | PPB | SMPL | | 7470A | 15 Aug 2025 12:59:34 |
| U | Q2857-02 - 1 | 3919 | 0.0037 | -881 | PPB | SMPL | | 7470A | 15 Aug 2025 13:01:53 |
| U | Q2842-03LX5 - 1 | | 0.0129 | -848 | PPB | SMPL | | 7470A | 15 Aug 2025 13:04:09 |
| U | CCV56 - 1 | CCV56 | 5.0932 | 17341 | PPB | SMPL | | 7470A | 15 Aug 2025 13:09:07 |
| U | CCB56 - 1 | CCB56 | -0.0477 | -1065 | PPB | SMPL | | 7470A | 15 Aug 2025 13:11:23 |
| U | Q2842-03A - 1 | | 3.9251 | 13159 | PPB | SMPL | | 7470A | 15 Aug 2025 13:13:41 |
| U | CCV57 - 1 | CCV57 | 5.1775 | 17643 | PPB | SMPL | | 7470A | 15 Aug 2025 13:15:59 |
| U | CCB57 - 1 | CCB57 | -0.0651 | -1127 | PPB | SMPL | | 7470A | 15 Aug 2025 13:18:16 |

Alliance TECHNICAL GROUP

# Water Metals Preparation Sheet

PB169232

**SOP ID :** M3010A-Digestion-17

**SDG No :** N/A

**Matrix :** WATER

**Pippete ID:** ICP A

**Balance ID :** N/A

**Filter paper ID :** N/A

**pH Strip ID :** M6069

**Hood ID :** #3

**Block ID:** 1. HOT BLOCK #1 2. N/A

**Start Digest Date:** 08/13/2025 **Time :** 10:30 **Temp :** 96 °C

**End Digest Date:** 08/13/2025 **Time :** 13:33 **Temp :** 96 °C

**Digestion tube ID:** M5595

**Block thermometer ID:** MET-DIG. #1

**Dig Technician Signature:** SLH.

**Supervisor Signature:**

**Temp :** 1. 96°C 2. N/A

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| LFS-1 | 0.25 | M6180 |
| LFS-2 | 0.25 | M6181 |
| 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 |
|---|---|---|
| CONC: HNO3 | 3.00 | M6158 |
| 1:1 HCL | 5.00 | MP85156 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

HOT BLOCK#1 CELL#50 96C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 08/13/25 14:33 | SLH met dig | [illegible] |
| | Preparation Group | Analysis Group |

| Lab Sample ID | Client Sample ID | pH | Initial Vol (ml) | Final Vol (ml) | Color Before | Color After | Clarity Before | Clarity After | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| PB169232BL | PBW232 | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | N/A | 20 |
| PB169232BS | LCS232 | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | M6180,M6181 | 21 |
| Q2814-01 | TW-84SB-E | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | N/A | 22 |
| Q2814-03 | TW-17M-W | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | N/A | 23 |
| Q2814-16 | FB | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | N/A | 24 |
| Q2814-17 | TW-518R-S | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | N/A | 25 |
| Q2814-22 | TW-84SB-E | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | N/A | 26 |
| Q2814-23 | TW-17M-W | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | N/A | 27 |
| Q2815-01 | TW-705R-S | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | N/A | 28 |
| Q2815-11 | TW-22M-W | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | N/A | 29 |
| Q2815-20 | TW-11M-W | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | N/A | 30 |
| Q2815-25 | TW-11M-W | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | N/A | 31 |
| Q2815-26 | FB | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | N/A | 32 |
| Q2821-05 | GW-COMP | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | N/A | 33 |
| Q2821-08 | DM-COMP | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | N/A | 34 |
| Q2837-01 | TW-WTS-13 | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | N/A | 35 |
| Q2837-01MS | TW-WTS-13MS | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | M6180,M6181 | 37 |
| Q2837-01MSD | TW-WTS-13MSD | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | M6180,M6181 | 38 |
| Q2837-01DUP | TW-WTS-13DUP | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | N/A | 36 |

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** PB169232 **WorkList ID :** 191247 **Department :** Digestion **Date :** 08-13-2025 09:48:06

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q2814-01 | TW-84SB-E | Water | Metals ICP-TAL | 1:1 HNO3 to pH < 2 | FIRS02 | D31 | 08/05/2025 | 6010D |
| Q2814-03 | TW-17M-W | Water | Metals ICP-TAL | 1:1 HNO3 to pH < 2 | FIRS02 | D31 | 08/05/2025 | 6010D |
| Q2814-16 | FB | Water | Metals ICP-TAL | 1:1 HNO3 to pH < 2 | FIRS02 | D31 | 08/05/2025 | 6010D |
| Q2814-17 | TW-518R-S | Water | Metals ICP-TAL | 1:1 HNO3 to pH < 2 | FIRS02 | D31 | 08/04/2025 | 6010D |
| Q2814-22 | TW-84SB-E | Water | Dissolved ICP-TAL Metals | Cool 4 deg C | FIRS02 | D41 | 08/05/2025 | 6010D |
| Q2814-23 | TW-17M-W | Water | Dissolved ICP-TAL Metals | Cool 4 deg C | FIRS02 | D41 | 08/05/2025 | 6010D |
| Q2815-01 | TW-705R-S | Water | Metals ICP-TAL | 1:1 HNO3 to pH < 2 | FIRS02 | D41 | 08/05/2025 | 6010D |
| Q2815-11 | TW-22M-W | Water | Metals ICP-TAL | 1:1 HNO3 to pH < 2 | FIRS02 | D41 | 08/06/2025 | 6010D |
| Q2815-20 | TW-11M-W | Water | Metals ICP-TAL | 1:1 HNO3 to pH < 2 | FIRS02 | D41 | 08/08/2025 | 6010D |
| Q2815-25 | TW-11M-W | Water | Dissolved ICP-TAL Metals | Cool 4 deg C | FIRS02 | D41 | 08/08/2025 | 6010D |
| Q2815-26 | FB | Water | Metals ICP-TAL | 1:1 HNO3 to pH < 2 | FIRS02 | D41 | 08/08/2025 | 6010D |
| Q2821-05 | GW-COMP | Water | Metals ICP-TAL | 1:1 HNO3 to pH < 2 | PSEG03 | D31 | 08/11/2025 | 6010D |
| Q2821-08 | DM-COMP | Water | Metals ICP-TAL | 1:1 HNO3 to pH < 2 | PSEG03 | D31 | 08/11/2025 | 6010D |
| Q2837-01 | TW-WTS-13 | Water | Metals Group4 | 1:1 HNO3 to pH < 2 | ENTA05 | J23 | 08/12/2025 | 6010D |

**Date/Time** 08/13/25 10:05
**Raw Sample Received by:** SLS metals
**Raw Sample Relinquished by:** CP Cen



**Date/Time** 08/13/25 11:05
**Raw Sample Received by:** CP Cen
**Raw Sample Relinquished by:** SLS metals

Alliance TECHNICAL GROUP

**Water Mercury Preparation Sheet**

PB169202

**SOP ID :** M7470A-Mercury-20

**SDG No :** N/A

**Matrix :** WATER

**Pippete ID:** HG A

**Balance ID :** N/A

**Filter paper ID :** N/A

**pH Strip ID :** M6069

**Hood ID :** #1

**Block ID:** 1. HG HOT BLOCK#3 2. N/A

**Start Digest Date:** 08/12/2025 **Time :** 11:30 **Temp :** 95 °C

**End Digest Date:** 08/12/2025 **Time :** 11:40 **Temp :** 95 °C

**Digestion tube ID:** M5595

**Block thermometer ID:** HG-DIG#3

**Dig Technician Signature:** SKS,

**Supervisor Signature:**

**Temp :** 1. 95°C 2. N/A

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| ICV | 30mL | MP86729 |
| CCV | 30mL | MP86731 |
| CRA | 30mL | MP86733 |
| Blank Spike | 0.48mL | MP86722 |
| Matrix Spike | 0.48mL | MP86722 |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| HNO3/H2SO4(1:2) | 2.25mL | MP85892 |
| KMnO4 (5%) | 4.5mL | MP85893 |
| K2S2O8 (5%) | 2.4mL | MP85894 |
| Hydroxylamine HCL (12%) | 1.8mL | MP85895 |
| 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 |

| LAB SAMPLE ID | CLIENT SAMPLE ID | Wt(g)/Vol(ml) | Comment |
|---|---|---|---|
| 0.0 ppb | S0 | 30mL | MP86707 |
| 0.05 ppb | S0.05 | N/A | N/A |
| 0.2 ppb | S0.2 | 30mL | MP86708 |
| 2.5 ppb | S2.5 | 30mL | MP86709 |
| 5.0 ppb | S5.0 | 30mL | MP86710 |
| 7.5 ppb | S7.5 | 30mL | MP86711 |
| 10.0 ppb | S10.0 | 30mL | MP86712 |
| ICV | ICV | 30mL | MP86713 |
| ICB | ICB | 30mL | MP86714 |
| CCV | CCV | 30mL | MP86715 |
| CCB | CCB | 30mL | MP86716 |
| CRI | CRI | 30mL | MP86717 |
| CHK STD | CHK STD | 30mL | MP86718 |

**Extraction Conformance/Non-Conformance Comments:**

N/A

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 08/12/25 12:40 | SKS not dig | SG (Metals Lab) |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

## Water Mercury Preparation Sheet

## PB169202

| Lab Sample ID | Client Sample ID | Initial Vol (ml) | Final Vol (ml) | pH | Comment | Prep Pos |
|---|---|---|---|---|---|---|
| PB169202BL | PBW202 | 30 | 30 | <2 | N/A | 1-1 |
| PB169202BS | LCS202 | 30 | 30 | <2 | MP8672 | 2 |
| Q2759-04 | LIQUID-DRUM | 30 | 30 | <2 | N/A | 3 |
| Q2776-01 | 72825 | 30 | 30 | <2 | N/A | 4 |
| Q2814-01 | TW-84SB-E | 30 | 30 | <2 | N/A | 5 |
| Q2814-03 | TW-17M-W | 30 | 30 | <2 | N/A | 6 |
| Q2814-16 | FB | 30 | 30 | <2 | N/A | 7 |
| Q2814-17 | TW-518R-S | 30 | 30 | <2 | N/A | 8 |
| Q2815-01 | TW-705R-S | 30 | 30 | <2 | N/A | 9 |
| Q2815-11 | TW-22M-W | 30 | 30 | <2 | N/A | 10 |
| Q2815-20 | TW-11M-W | 30 | 30 | <2 | N/A | 11 |
| Q2815-26 | FB | 30 | 30 | <2 | N/A | 12 |
| Q2821-05 | GW-COMP | 30 | 30 | <2 | N/A | 13 |
| Q2821-08 | DM-COMP | 30 | 30 | <2 | N/A | 14 |
| Q2821-08MS | DM-COMPMS | 30 | 30 | <2 | MP86722 | 16 |
| Q2821-08MSD | DM-COMPMSD | 30 | 30 | <2 | MP86722 | 17 |
| Q2821-08DUP | DM-COMPDUP | 30 | 30 | <2 | N/A | 15 |

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** PB169202 **WorkList ID :** 191206 **Department :** Digestion **Date :** 08-11-2025 15:43:13

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q2759-04 | LIQUID-DRUM | Water | Mercury | 1:1 HNO3 to pH < 2 | PSEG03 | D31 | 08/04/2025 | 7470A |
| Q2776-01 | 72825 | Water | Mercury | 1:1 HNO3 to pH < 2 | PSEG03 | D31 | 08/05/2025 | 7470A |
| Q2814-01 | TW-84SB-E | Water | Mercury | 1:1 HNO3 to pH < 2 | FIRS02 | D31 | 08/05/2025 | 7470A |
| Q2814-03 | TW-17M-W | Water | Mercury | 1:1 HNO3 to pH < 2 | FIRS02 | D31 | 08/05/2025 | 7470A |
| Q2814-16 | FB | Water | Mercury | 1:1 HNO3 to pH < 2 | FIRS02 | D31 | 08/04/2025 | 7470A |
| Q2814-17 | TW518R-S | Water | Mercury | 1:1 HNO3 to pH < 2 | FIRS02 | D31 | 08/05/2025 | 7470A |
| Q2815-01 | TW-705R-S | Water | Mercury | 1:1 HNO3 to pH < 2 | FIRS02 | D41 | 08/06/2025 | 7470A |
| Q2815-11 | TW-22M-W | Water | Mercury | 1:1 HNO3 to pH < 2 | FIRS02 | D41 | 08/08/2025 | 7470A |
| Q2815-20 | TW-11M-W | Water | Mercury | 1:1 HNO3 to pH < 2 | FIRS02 | D41 | 08/08/2025 | 7470A |
| Q2815-26 | FB | Water | Mercury | 1:1 HNO3 to pH < 2 | FIRS02 | D41 | 08/08/2025 | 7470A |
| Q2821-05 | GW-COMP | Water | Mercury | 1:1 HNO3 to pH < 2 | PSEG03 | D31 | 08/11/2025 | 7470A |
| Q2821-08 | DM-COMP | Water | Mercury | 1:1 HNO3 to pH < 2 | PSEG03 | D31 | 08/11/2025 | 7470A |

08/12/2025 10:00

**Date/Time** ~~08~~/~~12~~/2025 ~~15~~ : ~~00~~

**Raw Sample Received by:** SLS met dig

**Raw Sample Relinquished by:** CP Cen

08/12/2025 13:10

**Date/Time** ~~08~~/~~12~~/2025 ~~15~~ : ~~00~~

**Raw Sample Received by:** CP Cen

**Raw Sample Relinquished by:** SLS met dig

Alliance TECHNICAL GROUP

# Water Mercury Preparation Sheet

PB169249

**SOP ID :** M7470A-Mercury-20

**SDG No :** N/A

**Matrix :** WATER

**Pippete ID:** HG A

**Balance ID :** N/A

**Filter paper ID :** N/A

**pH Strip ID :** M6069

**Hood ID :** #1

**Block ID:** 1. HG HOT BLOCK#3 2. N/A

**Start Digest Date:** 08/14/2025 **Time :** 10:30 **Temp :** 95 °C

**End Digest Date:** 08/14/2025 **Time :** 10:40 **Temp :** 95 °C

**Digestion tube ID:** M5595

**Block thermometer ID:** HG-DIG#3

**Dig Technician Signature:** [signature]

**Supervisor Signature:** [signature]

**Temp :** 1. 95°C 2. N/A

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| ICV | 30mL | MP86777 |
| CCV | 30mL | MP86779 |
| CRA | 30mL | MP86782 |
| Blank Spike | 0.48mL | MP86770 |
| Matrix Spike | 0.48mL | MP86770 |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| HNO3/H2SO4(1:2) | 2.25mL | MP85892 |
| KMnO4 (5%) | 4.5mL | MP85893 |
| K2S2O8 (5%) | 2.4mL | MP85894 |
| Hydroxylamine HCL (12%) | 1.8mL | MP85895 |
| 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 |

| LAB SAMPLE ID | CLIENT SAMPLE ID | Wt(g)/Vol(ml) | Comment |
|---|---|---|---|
| 0.0 ppb | S0 | 30mL | MP86771 |
| 0.05 ppb | S0.05 | N/A | N/A |
| 0.2 ppb | S0.2 | 30mL | MP86772 |
| 2.5 ppb | S2.5 | 30mL | MP86773 |
| 5.0 ppb | S5.0 | 30mL | MP86774 |
| 7.5 ppb | S7.5 | 30mL | MP86775 |
| 10.0 ppb | S10.0 | 30mL | MP86776 |
| ICV | ICV | 30mL | MP86777 |
| ICB | ICB | 30mL | MP86778 |
| CCV | CCV | 30mL | MP86779 |
| CCB | CCB | 30mL | MP86781 |
| CRI | CRI | 30mL | MP86782 |
| CHK STD | CHK STD | 30mL | MP86783 |

**Extraction Conformance/Non-Conformance Comments:**

N/A

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 08/14/25 11:40 | [signature] | [signature] |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

## Water Mercury Preparation Sheet

**PB169249**

| Lab Sample ID | Client Sample ID | Initial Vol (ml) | Final Vol (ml) | pH | Comment | Prep Pos |
|---|---|---|---|---|---|---|
| PB169249BL | PBW249 | 30 | 30 | <2 | N/A | 1-1 |
| PB169249BS | LCS249 | 30 | 30 | <2 | MP86770 | 2 |
| Q2814-22 | TW-84SB-E | 30 | 30 | <2 | N/A | 3 |
| Q2814-23 | TW-17M-W | 30 | 30 | <2 | N/A | 4 |
| Q2815-25 | TW-11M-W | 30 | 30 | <2 | N/A | 5 |
| Q2837-01 | TW-WTS-13 | 30 | 30 | <2 | N/A | 6 |
| Q2840-03 | 0804-E | 30 | 30 | <2 | N/A | 7 |
| Q2842-03 | MW-17B-55.5-081225 | 30 | 30 | <2 | N/A | 8 |
| Q2842-03DUP | MW-17B-55.5-081225DUP | 30 | 30 | <2 | N/A | 9 |
| Q2842-04 | Q2842-03MS | 30 | 30 | <2 | MP86770 | 10 |
| Q2842-05 | Q2842-03MSD | 30 | 30 | <2 | MP86770 | 11 |
| Q2849-01 | BUR-25-0071 | 30 | 30 | <2 | N/A | 12 |
| Q2856-01 | #452 | 30 | 30 | <2 | N/A | 13 |
| Q2856-03 | #456 | 30 | 30 | <2 | N/A | 14 |
| Q2857-01 | 4023 | 30 | 30 | <2 | N/A | 15 |
| Q2857-02 | 3919 | 30 | 30 | <2 | N/A | 16 |

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** PB169249 **WorkList ID :** 191275 **Department :** Digestion **Date :** 08-14-2025 12:09:21

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q2814-22 | TW-84SB-E | Water | Dissolved Mercury | 1:1 HNO3 to pH < 2 | FIRS02 | D41 | 08/05/2025 | 7470A |
| Q2814-23 | TW-17M-W | Water | Dissolved Mercury | 1:1 HNO3 to pH < 2 | FIRS02 | D41 | 08/05/2025 | 7470A |
| Q2815-25 | TW-11M-W | Water | Dissolved Mercury | 1:1 HNO3 to pH < 2 | FIRS02 | D41 | 08/08/2025 | 7470A |
| Q2837-01 | TW-WTS-13 | Water | Mercury | 1:1 HNO3 to pH < 2 | ENTA05 | J23 | 08/12/2025 | 7470A |
| Q2840-03 | 0804-E | Water | Mercury | 1:1 HNO3 to pH < 2 | PSEG03 | D31 | 08/12/2025 | 7470A |
| Q2842-03 | MW-17B-55.5-081225 | Water | Mercury | 1:1 HNO3 to pH < 2 | JACO05 | J23 | 08/12/2025 | 7470A |
| Q2842-04 | Q2842-03MS | Water | Mercury | 1:1 HNO3 to pH < 2 | JACO05 | J23 | 08/12/2025 | 7470A |
| Q2842-05 | Q2842-03MSD | Water | Mercury | 1:1 HNO3 to pH < 2 | JACO05 | J23 | 08/12/2025 | 7470A |
| Q2849-01 | BUR-25-0071 | Water | Mercury | 1:1 HNO3 to pH < 2 | PSEG03 | J22 | 08/13/2025 | 7470A |
| Q2856-01 | #452 | Water | Mercury | 1:1 HNO3 to pH < 2 | PSEG03 | J42 | 08/13/2025 | 7470A |
| Q2856-03 | #456 | Water | Mercury | 1:1 HNO3 to pH < 2 | PSEG03 | J42 | 08/13/2025 | 7470A |
| Q2857-01 | 4023 | Water | Mercury | 1:1 HNO3 to pH < 2 | PSEG03 | J12 | 08/13/2025 | 7470A |
| Q2857-02 | 3919 | Water | Mercury | 1:1 HNO3 to pH < 2 | PSEG03 | J12 | 08/13/2025 | 7470A |

08/14/2025 09 : 45

**Date/Time** ~~08/14/2025~~ ~~10:40~~

**Raw Sample Received by:** SKSmoth

**Raw Sample Relinquished by:** CP Carey

**Date/Time** 08/14/25 13:40

**Raw Sample Received by:** CP Carey

**Raw Sample Relinquished by:** SKSmoth

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136788

| | | | |
|---|---|---|---|
| Review By | sagar | Review On | 8/12/2025 4:11:06 PM |
| Supervise By | jaswal | Supervise On | 8/12/2025 11:59:44 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP86723,MP86723,MP86724,MP86725,MP86726,MP86727,MP86729 |
| ICV Standard | MP86729 |
| CCV Standard | MP86730 |
| ICSA Standard | |
| CRI Standard | MP86733 |
| LCS Standard | |
| Chk Standard | MP86730,MP86732,MP86734,MP86737 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 08/12/25 14:07 | | sagar | OK |
| 2 | S0.2 | S0.2 | CAL2 | 08/12/25 14:09 | | sagar | OK |
| 3 | S2.5 | S2.5 | CAL3 | 08/12/25 14:11 | | sagar | OK |
| 4 | S5 | S5 | CAL4 | 08/12/25 14:14 | | sagar | OK |
| 5 | S7.5 | S7.5 | CAL5 | 08/12/25 14:16 | | sagar | OK |
| 6 | S10 | S10 | CAL6 | 08/12/25 14:18 | | sagar | OK |
| 7 | ICV10 | ICV10 | ICV | 08/12/25 14:21 | | sagar | OK |
| 8 | ICB10 | ICB10 | ICB | 08/12/25 14:23 | | sagar | OK |
| 9 | CCV29 | CCV29 | CCV | 08/12/25 14:26 | | sagar | OK |
| 10 | CCB29 | CCB29 | CCB | 08/12/25 14:28 | | sagar | OK |
| 11 | CRA | CRA | CRDL | 08/12/25 14:30 | | sagar | OK |
| 12 | HighStd | HighStd | HIGH STD | 08/12/25 14:33 | | sagar | OK |
| 13 | ChkStd | ChkStd | SAM | 08/12/25 14:35 | | sagar | OK |
| 14 | PB169202BL | PB169202BL | MB | 08/12/25 14:37 | | sagar | OK |
| 15 | PB169202BS | PB169202BS | LCS | 08/12/25 14:42 | | sagar | OK |
| 16 | Q2759-04 | LIQUID-DRUM | SAM | 08/12/25 14:44 | High | sagar | Dilution |
| 17 | Q2776-01 | 72825 | SAM | 08/12/25 14:47 | | sagar | OK |
| 18 | Q2814-01 | TW-84SB-E | SAM | 08/12/25 14:50 | | sagar | OK |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136788

| | | | |
|---|---|---|---|
| Review By | sagar | Review On | 8/12/2025 4:11:06 PM |
| Supervise By | jaswal | Supervise On | 8/12/2025 11:59:44 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP86723,MP86723,MP86724,MP86725,MP86726,MP86727,MP86729 |
| ICV Standard | MP86729 |
| CCV Standard | MP86730 |
| ICSA Standard | |
| CRI Standard | MP86733 |
| LCS Standard | |
| Chk Standard | MP86730,MP86732,MP86734,MP86737 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q2814-03 | TW-17M-W | SAM | 08/12/25 14:52 | | sagar | OK |
| 20 | Q2814-16 | FB | SAM | 08/12/25 14:54 | | sagar | OK |
| 21 | CCV30 | CCV30 | CCV | 08/12/25 14:56 | | sagar | OK |
| 22 | CCB30 | CCB30 | CCB | 08/12/25 14:59 | | sagar | OK |
| 23 | Q2814-17 | TW-518R-S | SAM | 08/12/25 15:01 | | sagar | OK |
| 24 | Q2815-01 | TW-705R-S | SAM | 08/12/25 15:03 | | sagar | OK |
| 25 | Q2815-11 | TW-22M-W | SAM | 08/12/25 15:06 | | sagar | OK |
| 26 | Q2815-20 | TW-11M-W | SAM | 08/12/25 15:08 | | sagar | OK |
| 27 | Q2815-26 | FB | SAM | 08/12/25 15:10 | | sagar | OK |
| 28 | Q2821-05 | GW-COMP | SAM | 08/12/25 15:12 | | sagar | OK |
| 29 | Q2821-08 | DM-COMP | SAM | 08/12/25 15:15 | | sagar | OK |
| 30 | Q2821-08DUP | DM-COMPDUP | DUP | 08/12/25 15:17 | | sagar | OK |
| 31 | Q2821-08MS | DM-COMPMS | MS | 08/12/25 15:19 | | sagar | OK |
| 32 | Q2821-08MSD | DM-COMPMSD | MSD | 08/12/25 15:22 | | sagar | OK |
| 33 | CCV31 | CCV31 | CCV | 08/12/25 15:24 | | sagar | OK |
| 34 | CCB31 | CCB31 | CCB | 08/12/25 15:26 | | sagar | OK |
| 35 | Q2821-08L | DM-COMPL | SD | 08/12/25 15:29 | | sagar | OK |
| 36 | Q2821-08A | DM-COMPA | PS | 08/12/25 15:31 | | sagar | OK |
| 37 | Q2759-04DL | LIQUID-DRUMDL | SAM | 08/12/25 15:33 | Report 5X | sagar | Confirms |
| 38 | CCV32 | CCV32 | CCV | 08/12/25 15:35 | | sagar | OK |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136788

| | | | |
|---|---|---|---|
| Review By | sagar | Review On | 8/12/2025 4:11:06 PM |
| Supervise By | jaswal | Supervise On | 8/12/2025 11:59:44 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP86723,MP86723,MP86724,MP86725,MP86726,MP86727,MP86729 |
| ICV Standard | MP86729 |
| CCV Standard | MP86730 |
| ICSA Standard | |
| CRI Standard | MP86733 |
| LCS Standard | |
| Chk Standard | MP86730,MP86732,MP86734,MP86737 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 39 | CCB32 | CCB32 | CCB | 08/12/25 15:38 | | sagar | OK |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136836

| | | | |
|---|---|---|---|
| Review By | sagar | Review On | 8/15/2025 2:04:25 PM |
| Supervise By | jaswal | Supervise On | 8/17/2025 11:19:34 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP86771,MP86772,MP86773,MP86774,MP86775,MP86776 |
| ICV Standard | MP86777 |
| CCV Standard | MP86779 |
| ICSA Standard | |
| CRI Standard | MP86782 |
| LCS Standard | |
| Chk Standard | MP86778,MP86781,MP86783,MP86786 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 08/15/25 11:25 | | sagar | OK |
| 2 | S0.2 | S0.2 | CAL2 | 08/15/25 11:28 | | sagar | OK |
| 3 | S2.5 | S2.5 | CAL3 | 08/15/25 11:30 | | sagar | OK |
| 4 | S5 | S5 | CAL4 | 08/15/25 11:32 | | sagar | OK |
| 5 | S7.5 | S7.5 | CAL5 | 08/15/25 11:35 | | sagar | OK |
| 6 | S10 | S10 | CAL6 | 08/15/25 11:37 | | sagar | OK |
| 7 | ICV18 | ICV18 | ICV | 08/15/25 11:40 | | sagar | OK |
| 8 | ICB18 | ICB18 | ICB | 08/15/25 11:45 | | sagar | OK |
| 9 | CCV54 | CCV54 | CCV | 08/15/25 12:11 | | sagar | OK |
| 10 | CCB54 | CCB54 | CCB | 08/15/25 12:13 | | sagar | OK |
| 11 | CRA | CRA | CRDL | 08/15/25 12:16 | | sagar | OK |
| 12 | HighStd | HighStd | HIGH STD | 08/15/25 12:18 | | sagar | OK |
| 13 | ChkStd | ChkStd | SAM | 08/15/25 12:20 | | sagar | OK |
| 14 | PB169249BL | PB169249BL | MB | 08/15/25 12:22 | | sagar | OK |
| 15 | PB169249BS | PB169249BS | LCS | 08/15/25 12:25 | | sagar | OK |
| 16 | Q2814-22 | TW-84SB-E | SAM | 08/15/25 12:27 | | sagar | OK |
| 17 | Q2814-23 | TW-17M-W | SAM | 08/15/25 12:29 | | sagar | OK |
| 18 | Q2815-25 | TW-11M-W | SAM | 08/15/25 12:32 | | sagar | OK |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136836

| | | | |
|---|---|---|---|
| Review By | sagar | Review On | 8/15/2025 2:04:25 PM |
| Supervise By | jaswal | Supervise On | 8/17/2025 11:19:34 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP86771,MP86772,MP86773,MP86774,MP86775,MP86776 |
| ICV Standard | MP86777 |
| CCV Standard | MP86779 |
| ICSA Standard | |
| CRI Standard | MP86782 |
| LCS Standard | |
| Chk Standard | MP86778,MP86781,MP86783,MP86786 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q2837-01 | TW-WTS-13 | SAM | 08/15/25 12:34 | | sagar | OK |
| 20 | Q2840-03 | 0804-E | SAM | 08/15/25 12:36 | | sagar | OK |
| 21 | CCV55 | CCV55 | CCV | 08/15/25 12:38 | | sagar | OK |
| 22 | CCB55 | CCB55 | CCB | 08/15/25 12:41 | | sagar | OK |
| 23 | Q2842-03 | MW-17B-55.5-081220 | SAM | 08/15/25 12:43 | | sagar | OK |
| 24 | Q2842-03DUP | MW-17B-55.5-081220 | DUP | 08/15/25 12:45 | | sagar | OK |
| 25 | Q2842-04 | MW-17B-55.5-081225 | MS | 08/15/25 12:48 | | sagar | OK |
| 26 | Q2842-05 | MW-17B-55.5-081225 | MSD | 08/15/25 12:50 | | sagar | OK |
| 27 | Q2849-01 | BUR-25-0071 | SAM | 08/15/25 12:52 | | sagar | OK |
| 28 | Q2856-01 | #452 | SAM | 08/15/25 12:54 | | sagar | OK |
| 29 | Q2856-03 | #456 | SAM | 08/15/25 12:57 | | sagar | OK |
| 30 | Q2857-01 | 4023 | SAM | 08/15/25 12:59 | | sagar | OK |
| 31 | Q2857-02 | 3919 | SAM | 08/15/25 13:01 | | sagar | OK |
| 32 | Q2842-03L | MW-17B-55.5-081220 | SD | 08/15/25 13:04 | | sagar | OK |
| 33 | CCV56 | CCV56 | CCV | 08/15/25 13:09 | | sagar | OK |
| 34 | CCB56 | CCB56 | CCB | 08/15/25 13:11 | | sagar | OK |
| 35 | Q2842-03A | MW-17B-55.5-081220 | PS | 08/15/25 13:13 | | sagar | OK |
| 36 | CCV57 | CCV57 | CCV | 08/15/25 13:15 | | sagar | OK |
| 37 | CCB57 | CCB57 | CCB | 08/15/25 13:18 | | sagar | OK |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136837

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 8/18/2025 9:13:21 AM |
| Supervise By | jaswal | Supervise On | 8/19/2025 4:32:19 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP86640,MP86656,MP86653,MP86643,MP86642,MP86641 |
| ICV Standard | MP86752,MP86656 |
| CCV Standard | MP86646 |
| ICSA Standard | MP86651,MP86753 |
| CRI Standard | MP86656 |
| LCS Standard | |
| Chk Standard | MP86647,MP86648 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 08/14/25 11:39 | | Jaswal | OK |
| 2 | S1 | S1 | CAL2 | 08/14/25 11:44 | | Jaswal | OK |
| 3 | S2 | S2 | CAL3 | 08/14/25 11:48 | | Jaswal | OK |
| 4 | S3 | S3 | CAL4 | 08/14/25 11:52 | | Jaswal | OK |
| 5 | S4 | S4 | CAL5 | 08/14/25 11:56 | | Jaswal | OK |
| 6 | S5 | S5 | CAL6 | 08/14/25 12:00 | | Jaswal | OK |
| 7 | ICV01 | ICV01 | ICV | 08/14/25 12:05 | | Jaswal | OK |
| 8 | LLICV01 | LLICV01 | LLICV | 08/14/25 12:09 | | Jaswal | OK |
| 9 | ICB01 | ICB01 | ICB | 08/14/25 12:13 | | Jaswal | OK |
| 10 | CRI01 | CRI01 | CRDL | 08/14/25 12:23 | | Jaswal | OK |
| 11 | ICSA01 | ICSA01 | ICSA | 08/14/25 12:27 | | Jaswal | OK |
| 12 | ICSAB01 | ICSAB01 | ICSAB | 08/14/25 12:38 | | Jaswal | OK |
| 13 | ICSADL | ICSADL | ICSA | 08/14/25 12:42 | | Jaswal | OK |
| 14 | ICSABDL | ICSABDL | ICSAB | 08/14/25 12:46 | | Jaswal | OK |
| 15 | CCV01 | CCV01 | CCV | 08/14/25 12:50 | | Jaswal | OK |
| 16 | CCB01 | CCB01 | CCB | 08/14/25 12:54 | | Jaswal | OK |
| 17 | Q2832-01 | TG-S01 | SAM | 08/14/25 12:59 | | Jaswal | OK |
| 18 | PB169236BL | PB169236BL | MB | 08/14/25 13:03 | | Jaswal | OK |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136837

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 8/18/2025 9:13:21 AM |
| Supervise By | jaswal | Supervise On | 8/19/2025 4:32:19 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP86640,MP86656,MP86653,MP86643,MP86642,MP86641 |
| ICV Standard | MP86752,MP86656 |
| CCV Standard | MP86646 |
| ICSA Standard | MP86651,MP86753 |
| CRI Standard | MP86656 |
| LCS Standard | |
| Chk Standard | MP86647,MP86648 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | PB169236BS | PB169236BS | LCS | 08/14/25 13:07 | | Jaswal | OK |
| 20 | PB169232BL | PB169232BL | MB | 08/14/25 13:11 | | Jaswal | OK |
| 21 | PB169232BS | PB169232BS | LCS | 08/14/25 13:15 | | Jaswal | OK |
| 22 | PB169212TB | PB169212TB | MB | 08/14/25 13:19 | | Jaswal | OK |
| 23 | Q2732-03 | WC-A7-01-C | SAM | 08/14/25 13:24 | | Jaswal | OK |
| 24 | Q2832-02 | TG-S01 | SAM | 08/14/25 13:28 | | Jaswal | OK |
| 25 | Q2832-04 | TG-S02 | SAM | 08/14/25 13:33 | | Jaswal | OK |
| 26 | Q2832-06 | TG-S03 | SAM | 08/14/25 13:37 | | Jaswal | OK |
| 27 | CCV02 | CCV02 | CCV | 08/14/25 13:42 | | Jaswal | OK |
| 28 | CCB02 | CCB02 | CCB | 08/14/25 13:46 | | Jaswal | OK |
| 29 | Q2832-08 | TG-S04 | SAM | 08/14/25 13:50 | | Jaswal | OK |
| 30 | Q2832-10 | TG-S05 | SAM | 08/14/25 13:54 | | Jaswal | OK |
| 31 | Q2836-03 | WC-A2-15-C | SAM | 08/14/25 13:59 | | Jaswal | OK |
| 32 | Q2836-07 | WC-A2-16-C | SAM | 08/14/25 14:03 | | Jaswal | OK |
| 33 | Q2836-11 | WC-A2-17-C | SAM | 08/14/25 14:08 | | Jaswal | OK |
| 34 | Q2836-15 | WC-A5-02-C | SAM | 08/14/25 14:12 | | Jaswal | OK |
| 35 | Q2838-04 | TP-11 | SAM | 08/14/25 14:17 | | Jaswal | OK |
| 36 | Q2838-08 | TP-10 | SAM | 08/14/25 14:21 | | Jaswal | OK |
| 37 | Q2838-08DUP | TP-10DUP | DUP | 08/14/25 14:25 | | Jaswal | OK |
| 38 | Q2838-08L | TP-10L | SD | 08/14/25 14:30 | | Jaswal | OK |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136837

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 8/18/2025 9:13:21 AM |
| Supervise By | jaswal | Supervise On | 8/19/2025 4:32:19 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP86640,MP86656,MP86653,MP86643,MP86642,MP86641 |
| ICV Standard | MP86752,MP86656 |
| CCV Standard | MP86646 |
| ICSA Standard | MP86651,MP86753 |
| CRI Standard | MP86656 |
| LCS Standard | |
| Chk Standard | MP86647,MP86648 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 39 | CCV03 | CCV03 | CCV | 08/14/25 14:41 | | Jaswal | OK |
| 40 | CCB03 | CCB03 | CCB | 08/14/25 14:45 | | Jaswal | OK |
| 41 | Q2838-08MS | TP-10MS | MS | 08/14/25 14:50 | | Jaswal | OK |
| 42 | Q2838-08MSD | TP-10MSD | MSD | 08/14/25 14:54 | | Jaswal | OK |
| 43 | Q2838-08A | TP-10A | PS | 08/14/25 14:58 | 0.1ml of M6004 and M6017 of each in 10ml sample. | Jaswal | OK |
| 44 | Q2814-01 | TW-84SB-E | SAM | 08/14/25 15:02 | | Jaswal | OK |
| 45 | Q2814-03 | TW-17M-W | SAM | 08/14/25 15:06 | | Jaswal | OK |
| 46 | Q2814-16 | FB | SAM | 08/14/25 15:10 | | Jaswal | OK |
| 47 | Q2814-17DL | TW-518R-SDL | SAM | 08/14/25 15:15 | Straight 5x for all elemenst | Jaswal | OK |
| 48 | Q2814-22 | TW-84SB-E | SAM | 08/14/25 15:19 | Not used | Jaswal | Not Ok |
| 49 | Q2814-23 | TW-17M-W | SAM | 08/14/25 15:23 | Not used | Jaswal | Not Ok |
| 50 | Q2815-01 | TW-705R-S | SAM | 08/14/25 15:27 | | Jaswal | OK |
| 51 | CCV04 | CCV04 | CCV | 08/14/25 15:58 | | Jaswal | OK |
| 52 | CCB04 | CCB04 | CCB | 08/14/25 16:02 | | Jaswal | OK |
| 53 | Q2815-11 | TW-22M-W | SAM | 08/14/25 16:06 | | Jaswal | OK |
| 54 | Q2815-20 | TW-11M-W | SAM | 08/14/25 16:10 | | Jaswal | OK |
| 55 | Q2815-25 | TW-11M-W | SAM | 08/14/25 16:14 | Not used | Jaswal | Not Ok |
| 56 | Q2815-26 | FB | SAM | 08/14/25 16:18 | | Jaswal | OK |
| 57 | Q2821-05 | GW-COMP | SAM | 08/14/25 16:23 | | Jaswal | OK |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136837

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 8/18/2025 9:13:21 AM |
| Supervise By | jaswal | Supervise On | 8/19/2025 4:32:19 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP86640,MP86656,MP86653,MP86643,MP86642,MP86641 |
| ICV Standard | MP86752,MP86656 |
| CCV Standard | MP86646 |
| ICSA Standard | MP86651,MP86753 |
| CRI Standard | MP86656 |
| LCS Standard | |
| Chk Standard | MP86647,MP86648 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 58 | Q2821-08 | DM-COMP | SAM | 08/14/25 16:27 | | Jaswal | OK |
| 59 | Q2837-01 | TW-WTS-13 | SAM | 08/14/25 16:31 | | Jaswal | OK |
| 60 | Q2837-01DUP | TW-WTS-13DUP | DUP | 08/14/25 16:36 | | Jaswal | OK |
| 61 | Q2837-01L | TW-WTS-13L | SD | 08/14/25 16:41 | | Jaswal | OK |
| 62 | Q2837-01MS | TW-WTS-13MS | MS | 08/14/25 16:45 | | Jaswal | OK |
| 63 | CCV05 | CCV05 | CCV | 08/14/25 16:50 | | Jaswal | OK |
| 64 | CCB05 | CCB05 | CCB | 08/14/25 17:00 | | Jaswal | OK |
| 65 | Q2837-01MSD | TW-WTS-13MSD | MSD | 08/14/25 17:04 | | Jaswal | OK |
| 66 | Q2837-01A | TW-WTS-13A | PS | 08/14/25 17:09 | 0.1ml of M6004 and M6017 of each in 10ml sample. | Jaswal | OK |
| 67 | Q2858-01 | VNJ 216 | SAM | 08/14/25 17:13 | | Jaswal | OK |
| 68 | Q2858-01DUP | VNJ 216DUP | DUP | 08/14/25 17:17 | | Jaswal | OK |
| 69 | Q2858-01L | VNJ 216L | SD | 08/14/25 17:21 | | Jaswal | OK |
| 70 | Q2858-01MS | VNJ 216MS | MS | 08/14/25 17:25 | | Jaswal | OK |
| 71 | Q2858-01MSD | VNJ 216MSD | MSD | 08/14/25 17:29 | | Jaswal | OK |
| 72 | Q2858-01A | VNJ 216A | PS | 08/14/25 17:33 | 0.1ml of M6004 and M6017 of each in 10ml sample. | Jaswal | OK |
| 73 | CCV06 | CCV06 | CCV | 08/14/25 17:54 | | Jaswal | OK |
| 74 | CCB06 | CCB06 | CCB | 08/14/25 18:05 | | Jaswal | OK |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136898

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 8/21/2025 9:30:15 AM |
| Supervise By | MOHAN | Supervise On | 8/21/2025 5:53:36 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP86640,MP86656,MP86653,MP86643,MP86642,MP86641 |
| ICV Standard | MP86752,MP86656 |
| CCV Standard | MP86646 |
| ICSA Standard | MP86651,MP86753 |
| CRI Standard | MP86656 |
| LCS Standard | |
| Chk Standard | MP86647,MP86648 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 08/20/25 12:38 | | Jaswal | OK |
| 2 | S1 | S1 | CAL2 | 08/20/25 12:43 | | Jaswal | OK |
| 3 | S2 | S2 | CAL3 | 08/20/25 12:47 | | Jaswal | OK |
| 4 | S3 | S3 | CAL4 | 08/20/25 12:51 | | Jaswal | OK |
| 5 | S4 | S4 | CAL5 | 08/20/25 12:55 | | Jaswal | OK |
| 6 | S5 | S5 | CAL6 | 08/20/25 12:59 | | Jaswal | OK |
| 7 | ICV01 | ICV01 | ICV | 08/20/25 13:04 | | Jaswal | OK |
| 8 | LLICV01 | LLICV01 | LLICV | 08/20/25 13:17 | | Jaswal | OK |
| 9 | ICB01 | ICB01 | ICB | 08/20/25 13:21 | | Jaswal | OK |
| 10 | CRI01 | CRI01 | CRDL | 08/20/25 13:26 | | Jaswal | OK |
| 11 | ICSA01 | ICSA01 | ICSA | 08/20/25 13:30 | | Jaswal | OK |
| 12 | ICSAB01 | ICSAB01 | ICSAB | 08/20/25 13:34 | | Jaswal | OK |
| 13 | ICSADL | ICSADL | ICSA | 08/20/25 13:38 | | Jaswal | OK |
| 14 | ICSABDL | ICSABDL | ICSAB | 08/20/25 13:42 | | Jaswal | OK |
| 15 | CCV01 | CCV01 | CCV | 08/20/25 13:47 | | Jaswal | OK |
| 16 | CCB01 | CCB01 | CCB | 08/20/25 13:51 | | Jaswal | OK |
| 17 | LR-1 | LR-1 | HIGH STD | 08/20/25 13:55 | | Jaswal | OK |
| 18 | LR-2 | LR-2 | HIGH STD | 08/20/25 14:00 | | Jaswal | OK |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136898

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 8/21/2025 9:30:15 AM |
| Supervise By | MOHAN | Supervise On | 8/21/2025 5:53:36 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP86640,MP86656,MP86653,MP86643,MP86642,MP86641 |
| ICV Standard | MP86752,MP86656 |
| CCV Standard | MP86646 |
| ICSA Standard | MP86651,MP86753 |
| CRI Standard | MP86656 |
| LCS Standard | |
| Chk Standard | MP86647,MP86648 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | LR-3 | LR-3 | HIGH STD | 08/20/25 14:04 | | Jaswal | OK |
| 20 | Q2892-02 | 1-FLOOR-NORTH-EA | SAM | 08/20/25 14:09 | | Jaswal | OK |
| 21 | Q2892-02DUP | 1-FLOOR-NORTH-EA | DUP | 08/20/25 14:15 | | Jaswal | OK |
| 22 | Q2892-02MS | 1-FLOOR-NORTH-EA | MS | 08/20/25 14:23 | | Jaswal | OK |
| 23 | Q2892-02MSD | 1-FLOOR-NORTH-EA | MSD | 08/20/25 14:27 | | Jaswal | OK |
| 24 | Q2892-02A | 1-FLOOR-NORTH-EA | PS | 08/20/25 14:31 | 0.1ml of each M6004 and M6017 in 10ml sample. | Jaswal | OK |
| 25 | CCV02 | CCV02 | CCV | 08/20/25 14:39 | | Jaswal | OK |
| 26 | CCB02 | CCB02 | CCB | 08/20/25 14:43 | | Jaswal | OK |
| 27 | PB169301BL | PB169301BL | MB | 08/20/25 14:48 | | Jaswal | OK |
| 28 | PB169301BS | PB169301BS | LCS | 08/20/25 14:52 | | Jaswal | OK |
| 29 | Q2892-02L | 1-FLOOR-NORTH-EA | SD | 08/20/25 14:56 | | Jaswal | OK |
| 30 | Q2818-04 | B-2-5-1 | SAM | 08/20/25 15:00 | | Jaswal | OK |
| 31 | Q2818-05 | B-3-5-2 | SAM | 08/20/25 15:04 | | Jaswal | OK |
| 32 | Q2818-05DUP | B-3-5-2DUP | DUP | 08/20/25 15:08 | | Jaswal | OK |
| 33 | Q2818-05A | B-3-5-2A | PS | 08/20/25 15:24 | 0.1ml of each M6004 and M6017 in 10ml sample. | Jaswal | OK |
| 34 | Q2818-05L | B-3-5-2L | SD | 08/20/25 15:32 | | Jaswal | OK |
| 35 | Q2818-05MS | B-3-5-2MS | MS | 08/20/25 15:37 | | Jaswal | OK |
| 36 | Q2818-05MSD | B-3-5-2MSD | MSD | 08/20/25 15:41 | | Jaswal | OK |
| 37 | CCV03 | CCV03 | CCV | 08/20/25 15:45 | | Jaswal | OK |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136898

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 8/21/2025 9:30:15 AM |
| Supervise By | MOHAN | Supervise On | 8/21/2025 5:53:36 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP86640,MP86656,MP86653,MP86643,MP86642,MP86641 |
| ICV Standard | MP86752,MP86656 |
| CCV Standard | MP86646 |
| ICSA Standard | MP86651,MP86753 |
| CRI Standard | MP86656 |
| LCS Standard | |
| Chk Standard | MP86647,MP86648 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 38 | CCB03 | CCB03 | CCB | 08/20/25 15:49 | | Jaswal | OK |
| 39 | PB169303BL | PB169303BL | MB | 08/20/25 15:53 | | Jaswal | OK |
| 40 | PB169303BS | PB169303BS | LCS | 08/20/25 15:58 | | Jaswal | OK |
| 41 | Q2881-01 | RW8-SP100-2025081 | SAM | 08/20/25 16:02 | | Jaswal | OK |
| 42 | Q2881-02 | RW8-SP303-2025081 | SAM | 08/20/25 16:06 | | Jaswal | OK |
| 43 | Q2881-02DUP | RW8-SP303-2025081 | DUP | 08/20/25 16:10 | | Jaswal | OK |
| 44 | Q2881-02L | RW8-SP303-2025081 | SD | 08/20/25 16:14 | | Jaswal | OK |
| 45 | Q2881-02MS | RW8-SP303-2025081 | MS | 08/20/25 16:19 | | Jaswal | OK |
| 46 | Q2881-02MSD | RW8-SP303-2025081 | MSD | 08/20/25 16:23 | | Jaswal | OK |
| 47 | Q2881-02A | RW8-SP303-2025081 | PS | 08/20/25 16:27 | 0.1ml of each M6004 and M6017 in 10ml sample. | Jaswal | OK |
| 48 | Q2814-01 | TW-84SB-E | SAM | 08/20/25 16:31 | Not Use | Jaswal | Not Ok |
| 49 | CCV04 | CCV04 | CCV | 08/20/25 16:35 | | Jaswal | OK |
| 50 | CCB04 | CCB04 | CCB | 08/20/25 16:39 | | Jaswal | OK |
| 51 | Q2814-03 | TW-17M-W | SAM | 08/20/25 16:43 | Not Use | Jaswal | Not Ok |
| 52 | Q2814-22 | TW-84SB-E | SAM | 08/20/25 16:47 | | Jaswal | OK |
| 53 | Q2814-23 | TW-17M-W | SAM | 08/20/25 16:52 | NOT USE | Jaswal | Not Ok |
| 54 | Q2815-20 | TW-11M-W | SAM | 08/20/25 16:56 | Not use | Jaswal | Not Ok |
| 55 | Q2815-25 | TW-11M-W | SAM | 08/20/25 17:00 | | Jaswal | OK |
| 56 | PB169301TB | PB169301TB | MB | 08/20/25 17:04 | | Jaswal | OK |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136898

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 8/21/2025 9:30:15 AM |
| Supervise By | MOHAN | Supervise On | 8/21/2025 5:53:36 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP86640,MP86656,MP86653,MP86643,MP86642,MP86641 |
| ICV Standard | MP86752,MP86656 |
| CCV Standard | MP86646 |
| ICSA Standard | MP86651,MP86753 |
| CRI Standard | MP86656 |
| LCS Standard | |
| Chk Standard | MP86647,MP86648 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 57 | CCV05 | CCV05 | CCV | 08/20/25 17:09 | | Jaswal | OK |
| 58 | CCB05 | CCB05 | CCB | 08/20/25 17:13 | | Jaswal | OK |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136917

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 8/22/2025 5:35:45 AM |
| Supervise By | Janvi | Supervise On | 8/22/2025 12:08:42 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP86640,MP86656,MP86653,MP86643,MP86642,MP86641 |
| ICV Standard | MP86752,MP86656 |
| CCV Standard | MP86646 |
| ICSA Standard | MP86651,MP86753 |
| CRI Standard | MP86656 |
| LCS Standard | |
| Chk Standard | MP86647,MP86648 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 08/21/25 13:58 | | Jaswal | OK |
| 2 | S1 | S1 | CAL2 | 08/21/25 14:03 | | Jaswal | OK |
| 3 | S2 | S2 | CAL3 | 08/21/25 14:07 | | Jaswal | OK |
| 4 | S3 | S3 | CAL4 | 08/21/25 14:11 | | Jaswal | OK |
| 5 | S4 | S4 | CAL5 | 08/21/25 14:15 | | Jaswal | OK |
| 6 | S5 | S5 | CAL6 | 08/21/25 14:19 | | Jaswal | OK |
| 7 | ICV01 | ICV01 | ICV | 08/21/25 14:24 | | Jaswal | OK |
| 8 | LLICV01 | LLICV01 | LLICV | 08/21/25 14:33 | | Jaswal | OK |
| 9 | ICB01 | ICB01 | ICB | 08/21/25 14:37 | | Jaswal | OK |
| 10 | CRI01 | CRI01 | CRDL | 08/21/25 14:41 | | Jaswal | OK |
| 11 | ICSA01 | ICSA01 | ICSA | 08/21/25 14:45 | | Jaswal | OK |
| 12 | ICSAB01 | ICSAB01 | ICSAB | 08/21/25 14:50 | | Jaswal | OK |
| 13 | ICSADL | ICSADL | ICSA | 08/21/25 14:54 | | Jaswal | OK |
| 14 | ICSABDL | ICSABDL | ICSAB | 08/21/25 14:59 | | Jaswal | OK |
| 15 | CCV01 | CCV01 | CCV | 08/21/25 15:03 | | Jaswal | OK |
| 16 | CCB01 | CCB01 | CCB | 08/21/25 15:07 | | Jaswal | OK |
| 17 | LR-2 | LR-2 | HIGH STD | 08/21/25 15:16 | | Jaswal | OK |
| 18 | LR-3 | LR-3 | HIGH STD | 08/21/25 15:20 | | Jaswal | OK |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136917

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 8/22/2025 5:35:45 AM |
| Supervise By | Janvi | Supervise On | 8/22/2025 12:08:42 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP86640,MP86656,MP86653,MP86643,MP86642,MP86641 |
| ICV Standard | MP86752,MP86656 |
| CCV Standard | MP86646 |
| ICSA Standard | MP86651,MP86753 |
| CRI Standard | MP86656 |
| LCS Standard | |
| Chk Standard | MP86647,MP86648 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | PB169331BL | PB169331BL | MB | 08/21/25 15:25 | | Jaswal | OK |
| 20 | PB169331BS | PB169331BS | LCS | 08/21/25 15:34 | | Jaswal | OK |
| 21 | PB169325TB | PB169325TB | MB | 08/21/25 15:43 | | Jaswal | OK |
| 22 | Q2840-05 | 0804-SOIL | SAM | 08/21/25 15:52 | | Jaswal | OK |
| 23 | Q2857-12 | 72-12002 | SAM | 08/21/25 16:01 | | Jaswal | OK |
| 24 | Q2883-04 | RBR2520553 | SAM | 08/21/25 16:10 | | Jaswal | OK |
| 25 | LR-1 | LR-1 | HIGH STD | 08/21/25 16:14 | | Jaswal | OK |
| 26 | Q2909-02 | 4065 | SAM | 08/21/25 16:19 | | Jaswal | OK |
| 27 | CCV02 | CCV02 | CCV | 08/21/25 16:23 | | Jaswal | OK |
| 28 | CCB02 | CCB02 | CCB | 08/21/25 16:27 | | Jaswal | OK |
| 29 | Q2909-02DUP | 4065DUP | DUP | 08/21/25 16:32 | | Jaswal | OK |
| 30 | Q2909-02L | 4065L | SD | 08/21/25 16:36 | | Jaswal | OK |
| 31 | Q2909-02MS | 4065MS | MS | 08/21/25 16:40 | | Jaswal | OK |
| 32 | Q2909-02MSD | 4065MSD | MSD | 08/21/25 16:45 | | Jaswal | OK |
| 33 | Q2909-02A | 4065A | PS | 08/21/25 16:49 | 0.1ml of each M6004 and M6017 in 10ml sample. | Jaswal | OK |
| 34 | PB169324BL | PB169324BL | MB | 08/21/25 16:53 | Not use | Jaswal | Not Ok |
| 35 | PB169324BS | PB169324BS | LCS | 08/21/25 16:57 | Not use | Jaswal | Not Ok |
| 36 | Q2814-23 | TW-17M-W | SAM | 08/21/25 17:01 | | Jaswal | OK |
| 37 | Q2916-01 | EO-03-08202025 | SAM | 08/21/25 17:06 | | Jaswal | OK |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136917

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 8/22/2025 5:35:45 AM |
| Supervise By | Janvi | Supervise On | 8/22/2025 12:08:42 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP86640,MP86656,MP86653,MP86643,MP86642,MP86641 |
| ICV Standard | MP86752,MP86656 |
| CCV Standard | MP86646 |
| ICSA Standard | MP86651,MP86753 |
| CRI Standard | MP86656 |
| LCS Standard | |
| Chk Standard | MP86647,MP86648 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 38 | Q2904-02 | 002 35th Ave (JULY) | SAM | 08/21/25 17:10 | Not use | Jaswal | Not Ok |
| 39 | CCV03 | CCV03 | CCV | 08/21/25 17:14 | | Jaswal | OK |
| 40 | CCB03 | CCB03 | CCB | 08/21/25 17:18 | | Jaswal | OK |
| 41 | Q2902-04 | OUTFALL-DSN-002 | SAM | 08/21/25 17:22 | Not use | Jaswal | Not Ok |
| 42 | Q2902-04DUP | OUTFALL-DSN-002D | DUP | 08/21/25 17:26 | Not use | Jaswal | Not Ok |
| 43 | Q2902-04L | OUTFALL-DSN-002L | SD | 08/21/25 17:31 | Not use | Jaswal | Not Ok |
| 44 | Q2902-04MS | OUTFALL-DSN-002M | MS | 08/21/25 17:35 | Not use | Jaswal | Not Ok |
| 45 | Q2902-04MSD | OUTFALL-DSN-002M | MSD | 08/21/25 17:39 | Not use | Jaswal | Not Ok |
| 46 | Q2902-04A | OUTFALL-DSN-002A | PS | 08/21/25 17:43 | Not use | Jaswal | Not Ok |
| 47 | Q2902-01 | OUTFALL-DSN-001 | SAM | 08/21/25 17:47 | | Jaswal | OK |
| 48 | Q2904-01 | 001 willets Pt Blvd(july | SAM | 08/21/25 17:51 | Not use | Jaswal | Not Ok |
| 49 | CCV04 | CCV04 | CCV | 08/21/25 18:04 | | Jaswal | OK |
| 50 | CCB04 | CCB04 | CCB | 08/21/25 18:08 | | Jaswal | OK |
| 51 | Q2915-01 | BRIDGE-WEST | SAM | 08/21/25 18:12 | | Jaswal | OK |
| 52 | Q2915-03 | BRIDGE-EAST | SAM | 08/21/25 18:16 | | Jaswal | OK |
| 53 | Q2917-01 | OR-02-082025 | SAM | 08/21/25 18:20 | | Jaswal | OK |
| 54 | Q2919-01 | OK-02-08202025 | SAM | 08/21/25 18:24 | | Jaswal | OK |
| 55 | Q2919-01DUP | OK-02-08202025DUP | DUP | 08/21/25 18:28 | | Jaswal | OK |
| 56 | Q2919-01L | OK-02-08202025L | SD | 08/21/25 18:33 | | Jaswal | OK |
| 57 | Q2919-01MS | OK-02-08202025MS | MS | 08/21/25 18:37 | | Jaswal | OK |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136917

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 8/22/2025 5:35:45 AM |
| Supervise By | Janvi | Supervise On | 8/22/2025 12:08:42 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP86640,MP86656,MP86653,MP86643,MP86642,MP86641 |
| ICV Standard | MP86752,MP86656 |
| CCV Standard | MP86646 |
| ICSA Standard | MP86651,MP86753 |
| CRI Standard | MP86656 |
| LCS Standard | |
| Chk Standard | MP86647,MP86648 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 58 | Q2919-01MSD | OK-02-08202025MSD | MSD | 08/21/25 18:41 | | Jaswal | OK |
| 59 | Q2919-01A | OK-02-08202025A | PS | 08/21/25 18:44 | 0.1ml of each M6004 and M6017 in 10ml sample. | Jaswal | OK |
| 60 | Q2909-01 | 4065 | SAM | 08/21/25 18:48 | | Jaswal | OK |
| 61 | CCV05 | CCV05 | CCV | 08/21/25 18:52 | | Jaswal | OK |
| 62 | CCB05 | CCB05 | CCB | 08/21/25 18:57 | | Jaswal | OK |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

# Prep Standard - Chemical Standard Summary

**Order ID :** Q2814

**Test :** Dissolved ICP-TAL Metals,Dissolved Mercury,Mercury,Metals ICP-TAL

**Prepbatch ID :** PB169202,PB169232,PB169249,

**Sequence ID/Qc Batch ID:** LB136788,LB136836,LB136836,LB136837,LB136837,LB136837,LB136898,LB136898,LB136917,

**Standard ID :**
MP85156,MP85892,MP85893,MP85894,MP85895,MP86640,MP86641,MP86642,MP86643,MP86646,MP86647,MP866
48,MP86651,MP86653,MP86655,MP86656,MP86722,MP86723,MP86724,MP86725,MP86726,MP86727,MP86729,MP
86730,MP86731,MP86732,MP86733,MP86734,MP86737,MP86752,MP86753,MP86770,MP86771,MP86772,MP86773,
MP86774,MP86775,MP86776,MP86777,MP86778,MP86779,MP86781,MP86782,MP86783,MP86786,

**Chemical ID :**
M4371,M4465,M4916,M5062,M5467,M5658,M5697,M5748,M5798,M5799,M5800,M5801,M5805,M5814,M5816,M5820
,M5884,M5962,M5969,M5970,M5979,M5985,M5998,M6021,M6023,M6027,M6028,M6030,M6032,M6041,M6058,M607
6,M6077,M6086,M6128,M6137,M6140,M6142,M6144,M6145,M6146,M6151,M6158,M6159,M6162,M6163,M6164,M61
65,M6171,M6174,M6176,M6177,M6178,M6179,M6180,M6181,M6182,M6184,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 |
|---|---|---|---|---|---|---|---|---|
| 170 | 1:1HCL | MP85156 | 04/07/2025 | 09/06/2025 | Kareem Khairalla | None | None | Sarabjit Jaswal 04/07/2025 |

**FROM** 1250.00000ml of M6151 + 1250.00000ml of W3112 = Final Quantity: 2500.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3965 | 2:1 H2SO4 : HNO3 | MP85892 | 06/05/2025 | 11/27/2025 | Mohan Bera | None | None | Sarabjit Jaswal 06/14/2025 |

**FROM** 1600.00000ml of M6041 + 800.00000ml of M6162 = Final Quantity: 3200.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 65 | POTASSIUM PERMANGANATE SOLUTION 5 % | MP85893 | 06/05/2025 | 12/05/2025 | Mohan Bera | METALS_SCALE_3 (M SC-3) | None | Sarabjit Jaswal 06/14/2025 |

**FROM** 100.00000gram of M4916 + 2000.00000ml of W3112 = Final Quantity: 2000.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 66 | POTASSIUM PERSULFATE SOLUTION 5 % | MP85894 | 06/05/2025 | 08/31/2025 | Mohan Bera | METALS_SCALE_3 (M SC-3) | None | Sarabjit Jaswal 06/14/2025 |

**FROM** 100.00000ml of M4465 + 2000.00000ml of W3112 = Final Quantity: 2000.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 67 | SODIUM CHLORIDE - HYDROXYL- CHLORIDE SOLUTION | MP85895 | 06/05/2025 | 08/31/2025 | Mohan Bera | METALS_SCALE_3 (M SC-3) | None | Sarabjit Jaswal 06/14/2025 |

**FROM** 2000.00000ml of W3112 + 240.00000gram of M4371 + 240.00000gram of M5884 = Final Quantity: 2000.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 902 | ICP AES CAL BLK ( SO/ICB/CCB) | MP86640 | 08/06/2025 | 08/27/2025 | Janvi Patel | None | METALS_PIPETTE_1 (ICP A) | Sarabjit Jaswal 08/07/2025 |

**FROM** 125.00000ml of M6151 + 2350.00000ml of W3112 + 25.00000ml of M6162 = Final Quantity: 500.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 907 | ICP AES STD S ( S5 ) | MP86641 | 08/06/2025 | 08/27/2025 | Janvi Patel | None | METALS_PIPETTE_1 (ICP A) | Sarabjit Jaswal 08/07/2025 |

**FROM** 5.00000ml of M5467 + 5.00000ml of M5820 + 5.00000ml of M5969 + 5.00000ml of M5970 + 5.00000ml of M5998 + 5.00000ml of M6077 + 5.00000ml of M6146 + 5.00000ml of M6174 + 5.00000ml of M6176 + 455.00000ml of MP86640 = Final Quantity: 500.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 910 | ICP AES STD S4 | MP86642 | 08/06/2025 | 08/27/2025 | Janvi Patel | None | METALS_PIPETTE_1 (ICP A) | Sarabjit Jaswal 08/07/2025 |

**FROM** 50.00000ml of MP86640 + 50.00000ml of MP86641 = Final Quantity: 100.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 909 | ICP AES STD S3 | MP86643 | 08/06/2025 | 08/27/2025 | Janvi Patel | None | METALS_PIPETTE_1 (ICP A) | Sarabjit Jaswal 08/07/2025 |

**FROM** 25.00000ml of MP86641 + 75.00000ml of MP86640 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 911 | ICP AES CCV SOLN | MP86646 | 08/06/2025 | 08/27/2025 | Janvi Patel | None | METALS_PIPETTE_1 (ICP A) | Sarabjit Jaswal 08/07/2025 |

**FROM** 50.00000ml of MP86640 + 50.00000ml of MP86641 = Final Quantity: 100.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 919 | ICP AES INTERNAL STD | MP86647 | 08/06/2025 | 08/27/2025 | Janvi Patel | None | METALS_PIPETTE_1 (ICP A) | Sarabjit Jaswal 08/07/2025 |

**FROM** 1.00000ml of M6179 + 10.00000ml of M5985 + 1969.00000ml of W3112 + 20.00000ml of M6162 = Final Quantity: 2000.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 903 | ICP AES RINSE SOLN | MP86648 | 08/06/2025 | 08/27/2025 | Janvi Patel | None | METALS_PIPETTE_1 (ICP A) | Sarabjit Jaswal 08/07/2025 |

**FROM** 200.00000ml of M6162 + 9800.00000ml of W3112 = Final Quantity: 10000.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 904 | ICP AES ICSA SOLN | MP86651 | 08/06/2025 | 08/27/2025 | Janvi Patel | None | METALS_PIPETTE_1 (ICP A) | Sarabjit Jaswal 08/07/2025 |

**FROM** 5.00000ml of M6182 + 45.00000ml of MP86640 = Final Quantity: 50.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3913 | ICP AES STD S2 | MP86653 | 08/06/2025 | 08/27/2025 | Janvi Patel | None | METALS_PIPETTE_1 (ICP A) | Sarabjit Jaswal 08/07/2025 |

**FROM** 4.00000ml of MP86641 + 46.00000ml of MP86640 = Final Quantity: 50.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 2950 | ICP AES S1/CRI STOCK STD | MP86655 | 08/06/2025 | 08/27/2025 | Janvi Patel | None | METALS_PIPETTE_1 (ICP A) | Sarabjit Jaswal 08/07/2025 |

**FROM** 0.00000ml of M5748 + 0.00000ml of M5805 + 0.03000ml of M5798 + 0.03000ml of M6028 + 0.05000ml of M5658 + 0.05000ml of M6030 + 0.05000ml of M6140 + 0.05000ml of M6159 + 0.06000ml of M6177 + 0.10000ml of M5697 + 0.10000ml of M5801 + 0.10000ml of M5816 + 0.10000ml of M5820 + 0.10000ml of M5962 + 0.10000ml of M5970 + 0.10000ml of M6128 + 0.10000ml of M6176 + 0.15000ml of M5800 + 0.20000ml of M5799 + 0.20000ml of M5979 + 0.20000ml of M6021 + 0.20000ml of M6023 + 0.20000ml of M6027 + 0.20000ml of M6145 + 0.25000ml of M5467 + 0.25000ml of M6146 + 0.50000ml of M5814 + 0.50000ml of M6032 + 1.00000ml of M6086 + 1.00000ml of M6142 + 1.00000ml of M6144 + 1.00000ml of M6171 + 1.00000ml of M6178 + 2.00000ml of M6137 + 89.03000ml of MP86640 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 2951 | ICP AES S1/CRI WORK STD | MP86656 | 08/06/2025 | 08/27/2025 | Janvi Patel | None | METALS_PIPETTE_1 (ICP A) | Sarabjit Jaswal 08/07/2025 |

**FROM** 1.00000ml of MP86655 + 49.00000ml of MP86640 = Final Quantity: 50.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 871 | MERCURY INTERMEDIATE B 250PPB WORKING STD. | MP86722 | 08/12/2025 | 08/13/2025 | Sagar Kanani | None | None | Sarabjit Jaswal 08/14/2025 |

**FROM** 1.00000ml of M6162 + 2.50000ml of M5062 + 96.50000ml of W3112 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1340 | Hg 0.00 PPB STD | MP86723 | 08/12/2025 | 08/13/2025 | Sagar Kanani | None | None | Sarabjit Jaswal 08/14/2025 |

**FROM** 2.50000ml of M6162 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1341 | Hg 0.2 PPB STD | MP86724 | 08/12/2025 | 08/13/2025 | Sagar Kanani | None | None | Sarabjit Jaswal 08/14/2025 |

**FROM** 2.50000ml of M6162 + 247.30000ml of W3112 + 0.20000ml of MP86722 = Final Quantity: 250.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1342 | Hg 2.5 PPB STD | MP86725 | 08/12/2025 | 08/13/2025 | Sagar Kanani | None | None | Sarabjit Jaswal 08/14/2025 |

**FROM** 2.50000ml of M6162 + 245.00000ml of W3112 + 2.50000ml of MP86722 = Final Quantity: 250.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1343 | Hg 5.0 PPB STD | MP86726 | 08/12/2025 | 08/13/2025 | Sagar Kanani | None | None | Sarabjit Jaswal 08/14/2025 |

**FROM** 2.50000ml of M6162 + 242.50000ml of W3112 + 5.00000ml of MP86722 = Final Quantity: 250.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1344 | Hg 7.5 PPB STD | MP86727 | 08/12/2025 | 08/13/2025 | Sagar Kanani | None | None | Sarabjit Jaswal 08/14/2025 |

**FROM** 2.50000ml of M6162 + 240.00000ml of W3112 + 7.50000ml of MP86722 = Final Quantity: 250.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1346 | Hg ICV SOLUTION | MP86729 | 08/12/2025 | 08/13/2025 | Sagar Kanani | None | None | Sarabjit Jaswal 08/14/2025 |

**FROM** 2.50000ml of M6162 + 245.00000ml of W3112 = Final Quantity: 250.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1351 | ICB (Hg 0.00 PPB SOLUTION) | MP86730 | 08/12/2025 | 08/13/2025 | Sagar Kanani | None | None | Sarabjit Jaswal 08/14/2025 |

**FROM** 2.50000ml of M6162 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1358 | CCV (Hg 5.0 PPB SOLUTION) | MP86731 | 08/12/2025 | 08/13/2025 | Sagar Kanani | None | None | Sarabjit Jaswal 08/14/2025 |

**FROM** 485.00000ml of W3112 + 5.00000ml of M6162 + 10.00000ml of MP86722 = Final Quantity: 500.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1352 | CCB (Hg 0.00 PPB SOLUTION) | MP86732 | 08/12/2025 | 08/13/2025 | Sagar Kanani | None | None | Sarabjit Jaswal 08/14/2025 |

**FROM** 495.00000ml of W3112 + 5.00000ml of M6162 = Final Quantity: 500.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1349 | CRA/CRI (Hg 0.2 PPB SOLUTION) | MP86733 | 08/12/2025 | 08/13/2025 | Sagar Kanani | None | None | Sarabjit Jaswal 08/14/2025 |

**FROM** 2.50000ml of M6162 + 247.30000ml of W3112 + 0.20000ml of MP86722 = Final Quantity: 250.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1350 | CHK STD (Hg 7.0 PPB SOLUTION) | MP86734 | 08/12/2025 | 08/13/2025 | Sagar Kanani | None | None | Sarabjit Jaswal 08/14/2025 |

**FROM** 2.50000ml of M6162 + 240.50000ml of W3112 + 7.00000ml of MP86722 = Final Quantity: 250.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 104 | 5% RINSING HCL | MP86737 | 08/12/2025 | 08/17/2025 | Sagar Kanani | None | None | Sarabjit Jaswal 08/14/2025 |

**FROM** 100.00000ml of M6151 + 1900.00000ml of W3112 = Final Quantity: 2000.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 4163 | NEW ICV-060925 | MP86752 | 08/06/2025 | 08/27/2025 | Janvi Patel | None | METALS_PIPETTE_1 (ICP A) | Sarabjit Jaswal 08/14/2025 |

**FROM** 0.20000ml of M6058 + 0.40000ml of M6163 + 0.40000ml of M6164 + 0.40000ml of M6165 + 48.60000ml of MP86640 = Final Quantity: 50.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3494 | ICP AES ICSAB SOLN-1 | MP86753 | 08/06/2025 | 08/27/2025 | Janvi Patel | None | METALS_PIPETTE_1 (ICPA) | Sarabjit Jaswal 08/14/2025 |

**FROM** 0.05000ml of M6076 + 5.00000ml of M6182 + 5.00000ml of M6184 + 39.95000ml of MP86640 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 871 | MERCURY INTERMEDIATE B 250PPB WORKING STD. | MP86770 | 08/14/2025 | 08/15/2025 | Sagar Kanani | None | METALS_PIPETTE_5 (HGA) | Sarabjit Jaswal 08/14/2025 |

**FROM** 1.00000ml of M6162 + 2.50000ml of M5062 + 96.50000ml of W3112 = Final Quantity: 100.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1340 | Hg 0.00 PPB STD | MP86771 | 08/14/2025 | 08/15/2025 | Sagar Kanani | None | METALS_PIPETTE_5 (HGA) | Sarabjit Jaswal 08/14/2025 |

**FROM** 2.50000ml of M6162 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1341 | Hg 0.2 PPB STD | MP86772 | 08/14/2025 | 08/15/2025 | Sagar Kanani | None | METALS_PIPETTE_5 (HGA) | Sarabjit Jaswal 08/14/2025 |

**FROM** 2.50000ml of M6162 + 247.30000ml of W3112 + 0.20000ml of MP86770 = Final Quantity: 250.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1342 | Hg 2.5 PPB STD | MP86773 | 08/14/2025 | 08/15/2025 | Sagar Kanani | None | METALS_PIPETTE_5 (HGA) | Sarabjit Jaswal 08/14/2025 |

**FROM** 2.50000ml of M6162 + 245.00000ml of W3112 + 2.50000ml of MP86770 = Final Quantity: 250.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1343 | Hg 5.0 PPB STD | MP86774 | 08/14/2025 | 08/15/2025 | Sagar Kanani | None | METALS_PIPETTE_5 (HGA) | Sarabjit Jaswal 08/14/2025 |

**FROM** 2.50000ml of M6162 + 242.50000ml of W3112 + 5.00000ml of MP86770 = Final Quantity: 250.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1344 | Hg 7.5 PPB STD | MP86775 | 08/14/2025 | 08/15/2025 | Sagar Kanani | None | METALS_PIPETTE_5 (HGA) | Sarabjit Jaswal 08/14/2025 |

**FROM** 2.50000ml of M6162 + 240.00000ml of W3112 + 7.50000ml of MP86770 = Final Quantity: 250.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1345 | Hg 10.0 PPB STD | MP86776 | 08/14/2025 | 08/15/2025 | Sagar Kanani | None | METALS_PIPETTE_5 (HGA) | Sarabjit Jaswal 08/14/2025 |

**FROM** 2.50000ml of M6162 + 237.50000ml of W3112 + 10.00000ml of MP86770 = Final Quantity: 250.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1346 | Hg ICV SOLUTION | MP86777 | 08/14/2025 | 08/15/2025 | Sagar Kanani | None | METALS_PIPETTE_5 (HGA) | Sarabjit Jaswal 08/14/2025 |

**FROM** 2.50000ml of M6162 + 245.00000ml of W3112 = Final Quantity: 250.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1351 | ICB (Hg 0.00 PPB SOLUTION) | MP86778 | 08/14/2025 | 08/15/2025 | Sagar Kanani | None | METALS_PIPETTE_5 (HGA) | Sarabjit Jaswal 08/14/2025 |

**FROM** 2.50000ml of M6162 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1358 | CCV (Hg 5.0 PPB SOLUTION) | MP86779 | 08/14/2025 | 08/15/2025 | Sagar Kanani | None | METALS_PIPETTE_5 (HGA) | Sarabjit Jaswal 08/14/2025 |

**FROM** 485.00000ml of W3112 + 5.00000ml of M6162 + 10.00000ml of MP86770 = Final Quantity: 500.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1352 | CCB (Hg 0.00 PPB SOLUTION) | MP86781 | 08/14/2025 | 08/15/2025 | Sagar Kanani | None | METALS_PIPETTE_5 (HGA) | Sarabjit Jaswal 08/14/2025 |

**FROM** 495.00000ml of W3112 + 5.00000ml of M6162 = Final Quantity: 500.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1349 | CRA/CRI (Hg 0.2 PPB SOLUTION) | MP86782 | 08/14/2025 | 08/15/2025 | Sagar Kanani | None | METALS_PIPETTE_5 (HGA) | Sarabjit Jaswal 08/14/2025 |

**FROM** 2.50000ml of M6162 + 247.30000ml of W3112 + 0.20000ml of MP86770 = Final Quantity: 250.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1350 | CHK STD (Hg 7.0 PPB SOLUTION) | MP86783 | 08/14/2025 | 08/15/2025 | Sagar Kanani | None | METALS_PIPETTE_5 (HGA) | Sarabjit Jaswal 08/14/2025 |

**FROM** 2.50000ml of M6162 + 240.50000ml of W3112 + 7.00000ml of MP86770 = Final Quantity: 250.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 104 | 5% RINSING HCL | MP86786 | 08/14/2025 | 08/17/2025 | Sagar Kanani | None | None | Sarabjit Jaswal 08/14/2025 |

**FROM** 100.00000ml of M6151 + 1900.00000ml of W3112 = Final Quantity: 2000.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-2196-01 / Hydroxylamine Hydrochloride, Crystal (cs/4x500g) | 0000215387 | 06/25/2025 | 07/01/2019 / RICHARD | 06/07/2019 / RICHARD | M4371 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-3238-05 / Potassium Persulfate (2.5kg) | 0000234156 | 08/06/2025 | 07/23/2019 / Jaswal | 07/25/2019 / manojkumar | M4465 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-3227-05 / Potassium Permanganate (2.5kg) | 210800 | 03/31/2026 | 11/30/2022 / mohan | 07/28/2021 / mohan | M4916 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | MSHG-10PPM / MERCURY HCl 125mL 10ug/mL | S2-HG709270 | 09/22/2026 | 05/28/2022 / mohan | 01/27/2022 / mohan | M5062 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57058 / Cerium, 1000PPM, 100ML | 020623 | 02/06/2026 | 03/06/2023 / bin | 03/01/2023 / bin | M5467 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58024 / Chromium, Cr, 500 ml, 1000 PPM | 060523 | 06/05/2026 | 08/28/2023 / jaswal | 08/25/2023 / jaswal | M5658 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58029 / Cu, 1000 PPM, 500 ml | 102523 | 10/25/2026 | 04/03/2024 / jaswal | 10/27/2023 / jaswal | M5697 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | / Nickel (Ni) 1000PPM | 091223 | 09/12/2026 | 01/02/2024 / bin | 12/20/2023 / jaswal | M5748 |

| 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 |

| 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 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58120 / Ca, 10000 PPM, 500 ml | 122223 | 12/22/2026 | 04/17/2025 / Janvi | 01/03/2024 / jaswal | M5805 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57005 / B, 1000 PPM, 125 ml | 071123 | 07/11/2026 | 03/26/2024 / Sohil | 01/03/2024 / jaswal | M5814 |

| 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. | 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 # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg) | 0000281938 | 07/06/2026 | 04/30/2024 / mohan | 04/25/2024 / mohan | M5884 |

| 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 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57016 / S, 1000 PPM, 125 ml | 122923 | 03/31/2026 | 03/31/2025 / kareem | 06/11/2024 / Jaswal | M5969 |

| 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 | CGTI1-1 / TITANIUM 125mL 1000ug/mL | T2-TI719972 | 08/05/2026 | 08/06/2025 / Janvi | 02/22/2024 / Jaswal | M5979 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | CGIN10-5 / INDIUM 1 x 500 ml | U2-IN729349 | 02/21/2028 | 10/08/2024 / Jaswal | 06/14/2024 / Jaswal | M5985 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | CLPP-CAL-3 / CLP CAL SOLUTION #3, 125mL | T2-MEB727800 | 07/30/2026 | 07/30/2025 / Janvi | 02/22/2024 / kareem | M5998 |

| 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 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 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. | 57028 / Ni, 1000 PPM, 125 ml | 062024 | 06/20/2027 | 06/04/2025 / Janvi | 08/05/2024 / Jaswal | M6027 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57048 / Cd, 1000 PPM, 125 ml | 070124 | 07/01/2027 | 08/05/2024 / kareem | 08/05/2024 / Jaswal | M6028 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57047 / Ag, 1000 PPM, 125 ml | 122823 | 12/28/2026 | 08/05/2024 / kareem | 08/05/2024 / Jaswal | M6030 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57056 / Ba, 1000 PPM, 125 ml | 010924 | 01/09/2027 | 01/14/2025 / Jaswal | 08/05/2024 / Jaswal | M6032 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L) | 23D2462010 | 03/20/2028 | 08/16/2024 / mohan | 08/16/2024 / mohan | M6041 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | CHEM-QC-4 / CHEM-QC-4, Second Source, 1000 ug/ml, B, Mo, Si, Sn, Ti | V2-MEB746173 | 01/29/2026 | 01/29/2025 / JANVI | 08/22/2024 / Jaswal | M6058 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | Z9651Q / CHEM-CLP-4/.25L | V2-MEB746762 | 01/01/2026 | 01/01/2025 / kareem | 09/19/2024 / kareem | M6076 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | Z9651Q / CHEM-CLP-4/.25L | V2-MEB746762 | 09/06/2029 | 01/23/2025 / kareem | 09/19/2024 / kareem | M6077 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58120 / Calcium, 500 ml, 10000 PPM | 082324 | 08/23/2027 | 03/06/2025 / JANVI | 10/14/2024 / jaswal | M6086 |

| 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 | 101124 | 10/11/2027 | 01/13/2025 / kareem | 01/13/2025 / kareem | M6128 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | CGSI1-1 / SILICON 125mL 1000ug/mL | V2-SI744713 | 07/10/2029 | 01/14/2025 / Jaswal | 10/03/2024 / Jaswal | M6137 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58126 / Fe, 10000 PPM, 500 ml | 011025 | 01/10/2028 | 06/25/2025 / Janvi | 01/13/2025 / Jaswal | M6140 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58119 / K, 10000 PPM, 500 ml | 103024 | 10/30/2027 | 05/06/2025 / JANVI | 01/13/2025 / Jaswal | M6142 |

| 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 | 072424 | 07/24/2027 | 01/23/2025 / kareem | 01/13/2025 / Jaswal | M6144 |

| 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 | 121724 | 12/17/2027 | 02/04/2025 / Jaswal | 01/13/2025 / Jaswal | M6145 |

| 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 | 071724 | 07/17/2027 | 01/31/2025 / kareem | 10/18/2024 / kareem | M6146 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L) | 22G2862015 | 02/17/2026 | 02/18/2025 / Sagar | 01/15/2025 / Sagar | M6151 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L) | 24D1062002 | 09/09/2025 | 03/10/2025 / Eman | 02/02/2025 / Sagar | M6158 |

| 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 | 011325 | 03/18/2026 | 03/18/2025 / kareem | 02/09/2025 / kareem | M6159 |

| 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) | 24H0162012 | 11/27/2025 | 05/27/2025 / Sagar | 04/27/2025 / Sagar | M6162 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | QCP-CICV-1-125ML / EPA CLP ICP Verification Standard1 | V2-MEB744107 | 06/08/2026 | 06/09/2025 / jaswal | 06/06/2025 / jaswal | M6163 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | QCP-CICV-2-125ML / EPA CLP ICP Verification Standard2 | U2-MEB733713 | 06/08/2026 | 06/09/2025 / jaswal | 06/09/2025 / jaswal | M6164 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | QCP-CICV-3-125ML / EPA CLP ICP Verification Standard3 | V2-MEB749572 | 06/08/2026 | 06/09/2025 / jaswal | 06/09/2025 / jaswal | M6165 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58112 / Mg, 10000 PPM, 500 ml | 011525 | 01/15/2028 | 07/15/2025 / Janvi | 02/13/2025 / Janvi | M6171 |

| 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 | V2-MEB742428 | 07/31/2026 | 07/31/2025 / Janvi | 05/05/2025 / Janvi | M6174 |

| 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 | 092724 | 09/27/2027 | 08/06/2025 / Janvi | 08/06/2025 / Janvi | M6176 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | / Lead (Pb) 1000PPM | 031525 | 03/15/2028 | 08/06/2025 / Janvi | 08/06/2025 / Janvi | M6177 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57042 / Mo, 1000 PPM, 125 ml | 080528 | 08/05/2028 | 08/06/2025 / Janvi | 08/06/2025 / Janvi | M6178 |

| 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 | 08/05/2026 | 08/06/2025 / Janvi | 06/02/2024 / Janvi | M6179 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | WW-LFS-1 / Laboratory Fortified Stock Solution 1, 125 ml | W2-MEB752149 | 02/05/2026 | 08/06/2025 / Janvi | 07/22/2025 / Janvi | M6180 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | WW-LFS-2 / Laboratory Fortified Stock Solution 2, 125 ml | V2-MEB7433480 | 02/05/2026 | 08/06/2025 / Janvi | 07/22/2025 / Janvi | M6181 |

| 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 | 02/05/2026 | 08/06/2025 / Janvi | 03/06/2024 / Janvi | M6182 |

| 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 | 02/05/2026 | 08/06/2025 / Janvi | 03/06/2024 / Janvi | M6184 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | DIW / DI Water | Daily Lab-Certified | 07/03/2029 | 07/03/2024 / Iwona | 07/03/2024 / Iwona | W3112 |

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

M6032

R: 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **57056** | | **Lot #** | | |
| **Lot Number:** | **010924** | **Solvent:** | 24002546 | Nitric Acid | |
| **Description:** | **Barium (Ba)** | | | | |
| | | 2% | 40.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 010927 | | | | |
| **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 | | |

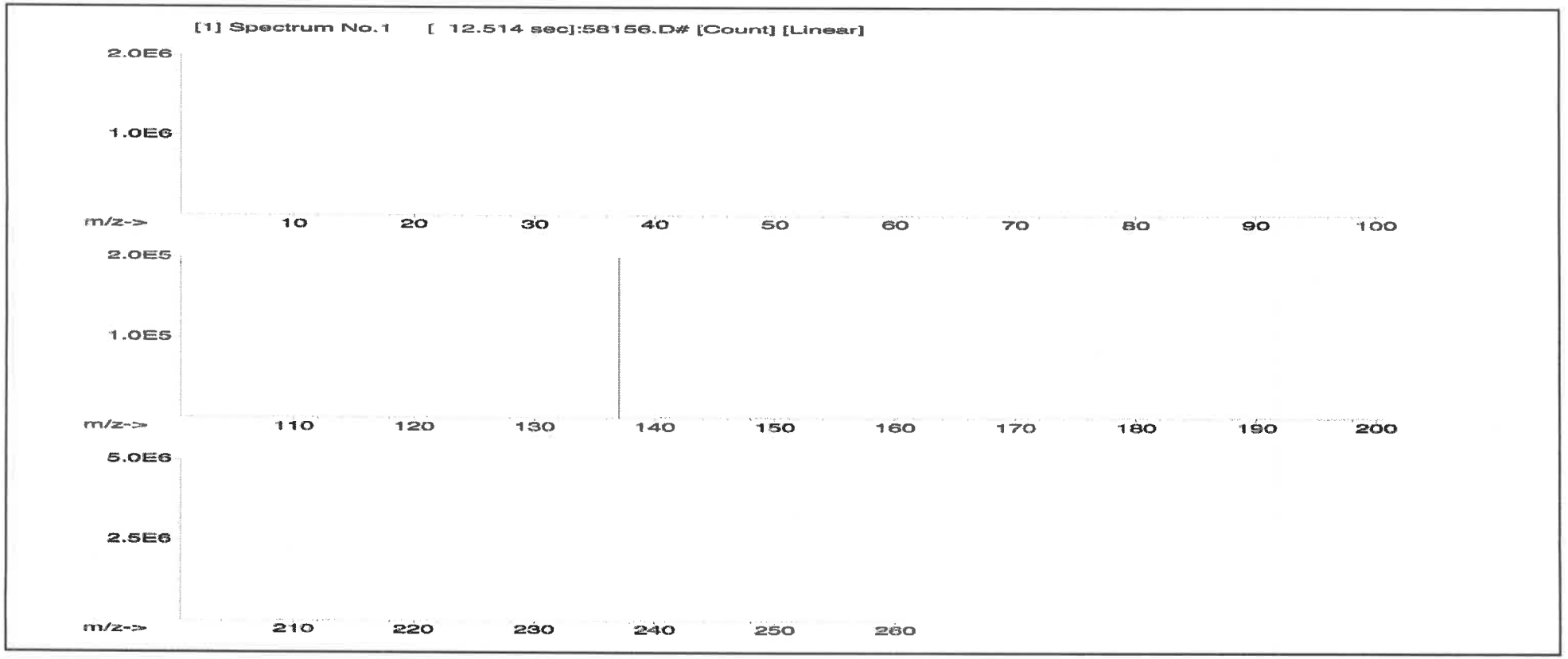
Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 010924 |

Pedro Rentas

| | | |
|---|---|---|
| Reviewed By: | Pedro L. Rentas | 010924 |

| 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 | 3.82441 | **1000.1** | **2.0** | 10022-31-8 | 0.5 mg/m3 | orl-rat 355 mg/kg | 3104a |



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <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).

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

R: 01/03/24 M5804, M5805

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

**Part Number:** 58120
**Lot Number:** 122223
**Description:** Calcium (Ca)

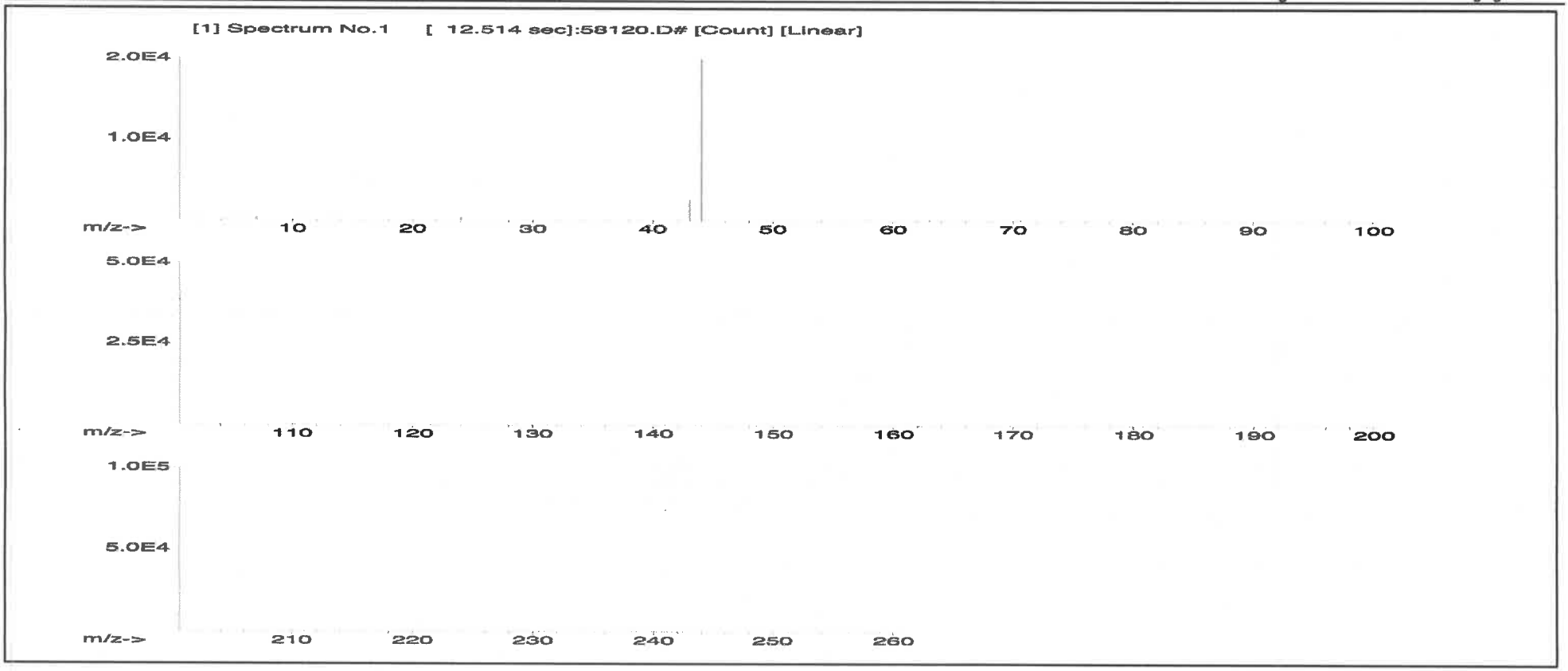
**Expiration Date:** 122226
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 4000.0 0.06 Flask Uncertainty

| | | Lot # | |
|---|---|---|---|
| **Solvent:** | 24002546 | Nitric Acid | |
| 2% | 80.0 (mL) | Nitric Acid | |
| | 5E-05 | Balance Uncertainty | |

Giovanni Esposito
Formulated By: Giovanni Esposito 122223

Pedro Rentas
Reviewed By: Pedro L. Rentas 122223

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Calcium carbonate (Ca) | IN014 | CAD03202383 | 10000 | 99.999 | 0.10 | 39.9 | 100.2525 | 100.2670 | **10001.4** | **20.0** | 471-34-1 | 5 mg/m3 | orl-rat >2000mg/kg | 3109a |



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | T | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | 30 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

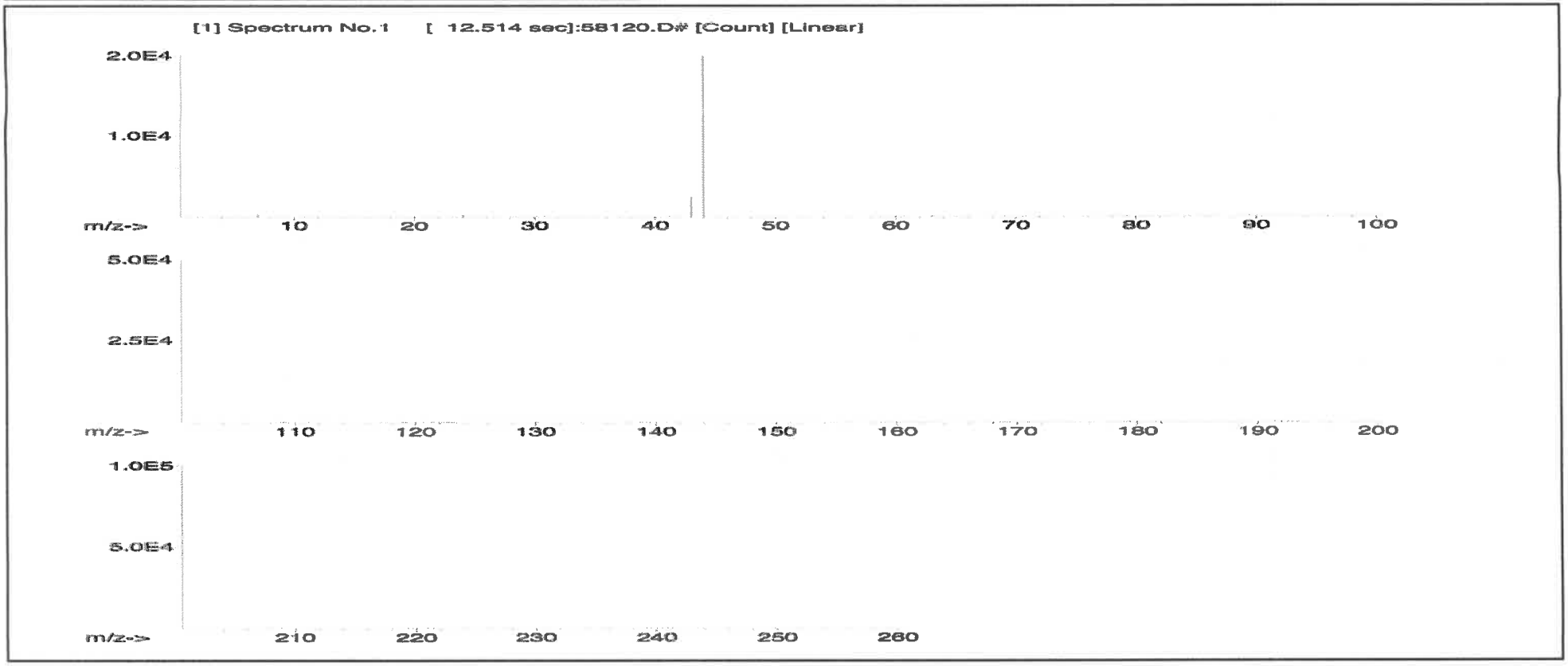
Revd 10/14/2024 M6085/M6086/M6087

CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **58120** | | **Lot #** | | |
| **Lot Number:** | **082324** | | **Solvent:** | 24002546 | Nitric Acid |
| **Description:** | **Calcium (Ca)** | | | | |
| | | | 2% | 80.0 (mL) | Nitric Acid |
| **Expiration Date:** | 082327 | | | | |
| **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):** | 4000.1 | 0.15 | Flask Uncertainty | | |

| | | |
|---|---|---|
| Giovanni Esposito | | |
| Formulated By: | Giovanni Esposito | 082324 |
| Pedro Rentas | | |
| Reviewed By: | Pedro L. Rentas | 082324 |

| 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 | CAD03203B3 | 10000 | 99.999 | 0.10 | 39.9 | 100.2537 | 100.2656 | **10001.2** | **20.0** | 471-34-1 | 5 mg/m3 | ori-rat >2000mg/kg | 3109a |



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



## Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | T | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | 30 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

## Physical Characterization:

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

M6028

R 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

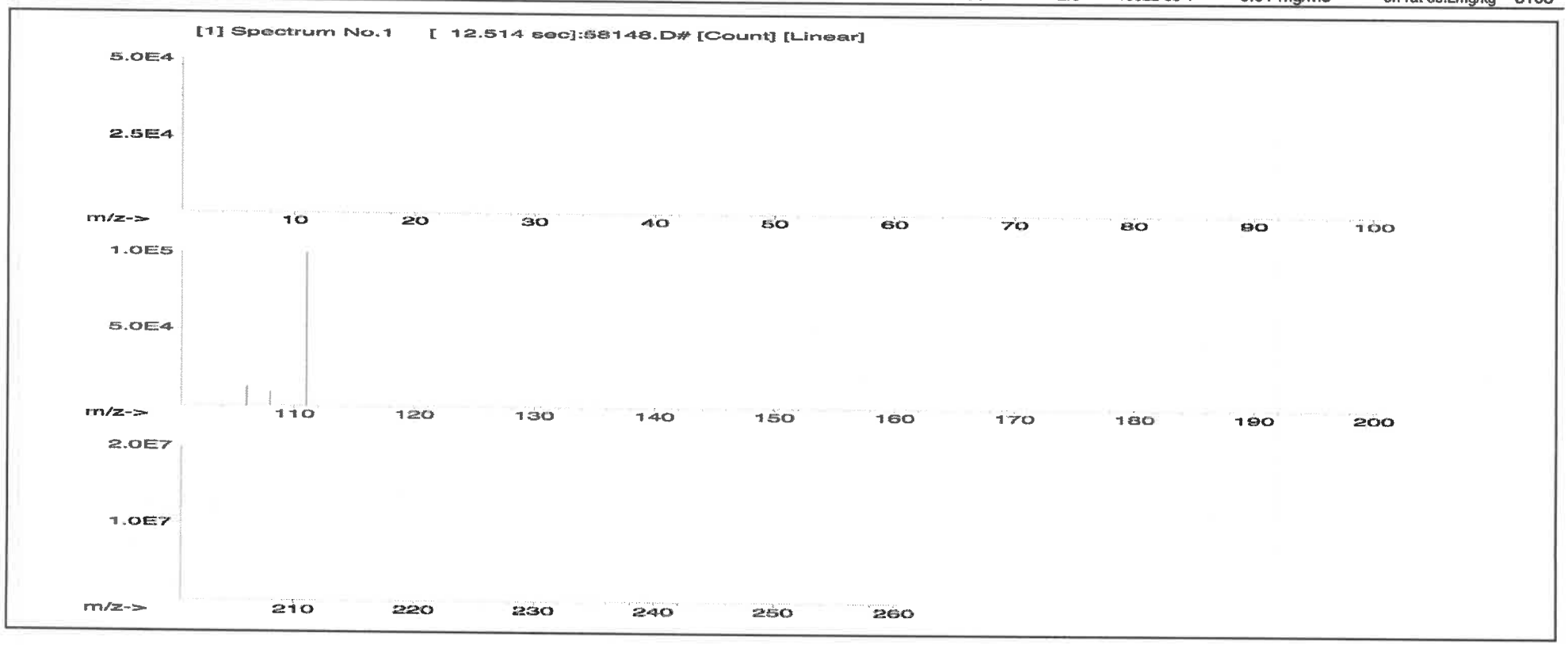


## CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **57048** | | **Lot #** | | |
| **Lot Number:** | **070124** | **Solvent:** | 24002546 | Nitric Acid | |
| **Description:** | **Cadmium (Cd)** | | | | |
| | | 2% | 40.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 070127 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 2000.07 | 0.100 | Flask Uncertainty | | |

| | | |
|---|---|---|
| Aleah O'Brady | | |
| Formulated By: | Aleah O'Brady | 070124 |
| Pedro Rentas | | |
| Reviewed By: | Pedro L. Rentas | 070124 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Cadmium nitrate tetrahydrate (Cd) | IN024 | CDM092021A1 | 1000 | 99.999 | 0.10 | 36.5 | 5.4797 | 5.4804 | **1000.1** | **2.0** | 10022-68-1 | 0.01 mg/m3 | orl-rat 60.2mg/kg | 3108 |



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | 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).

M4371

Hydroxylamine Hydrochloride, Crystal
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination
(hydroxylammonium chloride)

Rec – 06.07.19

J.T.Baker® | avantor™

Material No.: 2196-01
Batch No.: 0000215387
Manufactured Date: 2018/06/27
Retest Date: 2025/06/25
Revision No: 1

# Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

| Test | Specification | Result |
|---|---|---|
| Assay ($NH_2OH \cdot HCl$) (by $KMnO_4$ titrn) | >= 96.0 % | 99.1 |
| Clarity of Alcohol Solution | Passes Test | PT |
| Residue after Ignition | <= 0.050 % | 0.017 |
| Titrable Free Acid (meq/g) | <= 0.25 | 0.19 |
| Ammonium ($NH_4$) | Passes Test | PT |
| Sulfur Compounds (as $SO_4$) | <= 0.005 % | < 0.003 |
| Trace Impurities - ACS - Heavy Metals (as Pb) | <= 5 ppm | 4 |
| Trace Impurities - Iron (Fe) | <= 5 ppm | < 3 |
| Trace Impurities - Mercury (Hg) | <= 0.050 ppm | < 0.005 |

For Laboratory, Research or Manufacturing Use

Country of Origin: CN
Packaging Site: Paris Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2015, FSSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

M4913-16
MB



# Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

| | | | |
|---|---|---|---|
| Catalog Number | P279 | Quality Test / Release Date | 01/12/2021 |
| Lot Number | 210306 | | |
| Description | POTASSIUM PERMANGANATE, A.C.S. | | |
| Country of Origin | United States | Suggested Retest Date | Jan/2026 |

| N/A | | | |
|---|---|---|---|
| Result Name | Units | Specifications | Test Value |
| APPEARANCE | | REPORT | Dark purple to purple green crystals |
| ASSAY | % | >= 99 | 99.3 |
| CHLORIDE & CHLORATE | % | <= 0.005 | <0.005 |
| IDENTIFICATION | PASS/FAIL | = PASS TEST | pass test |
| INSOLUBLE MATTER | % | <= 0.2 | <0.2 |
| MERCURY (Hg) | ppm | <= 0.05 | <0.004 |
| SULFATE (SO4) | % | <= 0.02 | <0.02 |

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

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

M5062
M5063
M3

## 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 Mass Spec Solution |
| Catalog Number: | MSHG-10PPM |
| Lot Number: | S2-HG709270 |
| Matrix: | 10% (v/v) HCl |
| Value / Analyte(s): | 10 µg/mL ea: Mercury |
| Starting Material: | Hg metal |
| Starting Material Lot#: | 1959 |
| Starting Material Purity: | 99.9994% |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10.001 ± 0.053 µg/mL

**Density:** 1.020 g/mL (measured at 20 ± 4 °C)

### Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---|---|---|---|
| Hg | ICP Assay | 3133 | 160921 |
| Hg | EDTA | 928 | 928 |
| Hg | 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)

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.

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| O | Ag | | 0.000011 | M | Eu | < | 0.000201 | O | Na | | 0.000004 | M | Se | < | 0.015915 | O | Zn | < | 0.001510 |
| O | Al | | 0.000001 | O | Fe | | 0.000001 | M | Nb | < | 0.000201 | O | Si | | 0.000005 | M | Zr | < | 0.000201 |
| M | As | < | 0.000402 | M | Ga | < | 0.000201 | M | Nd | < | 0.000201 | M | Sm | < | 0.000201 | | | | |
| M | Au | < | 0.003631 | M | Gd | < | 0.000201 | M | Ni | < | 0.000402 | M | Sn | < | 0.001007 | | | | |
| M | B | < | 0.001208 | M | Ge | < | 0.000201 | M | Os | < | 0.000605 | M | Sr | < | 0.000201 | | | | |
| M | Ba | < | 0.000201 | M | Hf | < | 0.000201 | O | P | < | 0.032370 | M | Ta | < | 0.000201 | | | | |
| M | Be | < | 0.000201 | s | Hg | < | | M | Pb | < | 0.000201 | M | Tb | < | 0.000201 | | | | |
| M | Bi | < | 0.000201 | M | Ho | < | 0.000201 | M | Pd | < | 0.000403 | M | Te | < | 0.002216 | | | | |
| O | Ca | | 0.000007 | M | In | < | 0.000201 | M | Pr | < | 0.000201 | M | Th | < | 0.000201 | | | | |
| M | Cd | < | 0.000201 | M | Ir | < | 0.000201 | M | Pt | < | 0.000402 | M | Ti | < | 0.000402 | | | | |
| M | Ce | < | 0.000201 | O | K | | 0.000020 | M | Rb | < | 0.000201 | O | Tl | < | 0.016508 | | | | |
| M | Co | < | 0.000201 | M | La | < | 0.000201 | M | Re | < | 0.000201 | M | Tm | < | 0.000201 | | | | |
| O | Cr | < | 0.003021 | O | Li | < | 0.000107 | M | Rh | < | 0.000201 | M | U | < | 0.008058 | | | | |
| M | Cs | < | 0.001208 | M | Lu | < | 0.000201 | M | Ru | < | 0.000201 | M | V | < | 0.000201 | | | | |
| M | Cu | < | 0.000402 | O | Mg | | 0.000001 | O | S | < | 0.053950 | M | W | < | 0.000604 | | | | |
| M | Dy | < | 0.000201 | M | Mn | < | 0.000604 | M | Sb | < | 0.001208 | M | Y | < | 0.000201 | | | | |
| M | Er | < | 0.000201 | M | Mo | | 0.000009 | M | Sc | < | 0.000201 | M | Yb | < | 0.000201 | | | | |

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 -** 200.59 +2 4 Hg(OH)(aq) 1+

**Chemical Compatibility -** Stable in HNO3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

**Stability -** 2-100 ppb levels not stable in 1% HNO3 / LDPE container, stable in 10% HNO3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO3 / LDPE container.

**Hg Containing Samples (Preparation and Solution) -** Metal (soluble in HNO3 ); Oxide ( Soluble in HNO3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

**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 202 amu | 9 ppt | n/a | 186W16O |
| ICP-OES 184.950 nm | 0.03 / 0.005 µg/mL | 1 | |
| ICP-OES 194.227 nm | 0.03 / 0.005 µg/mL | 1 | V |
| ICP-OES 253.652 nm | 0.1 / 0.03 µg/mL | 1 | Ta, Co, Th ,Rh , Fe, U |

## 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**

September 22, 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**

**- September 22, 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 Prepared By:**

Uyen Truong
Supervisor, Product Documentation



**Certificate Approved By:**

Michael Booth
Director, Quality Control



**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

M5467 R: 03/01/23 (LA)

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

## CERTIFIED WEIGHT REPORT:

**Part Number:** 57058
**Lot Number:** 020623
**Description:** Cerium (Ce)

**Expiration Date:** 020626
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB

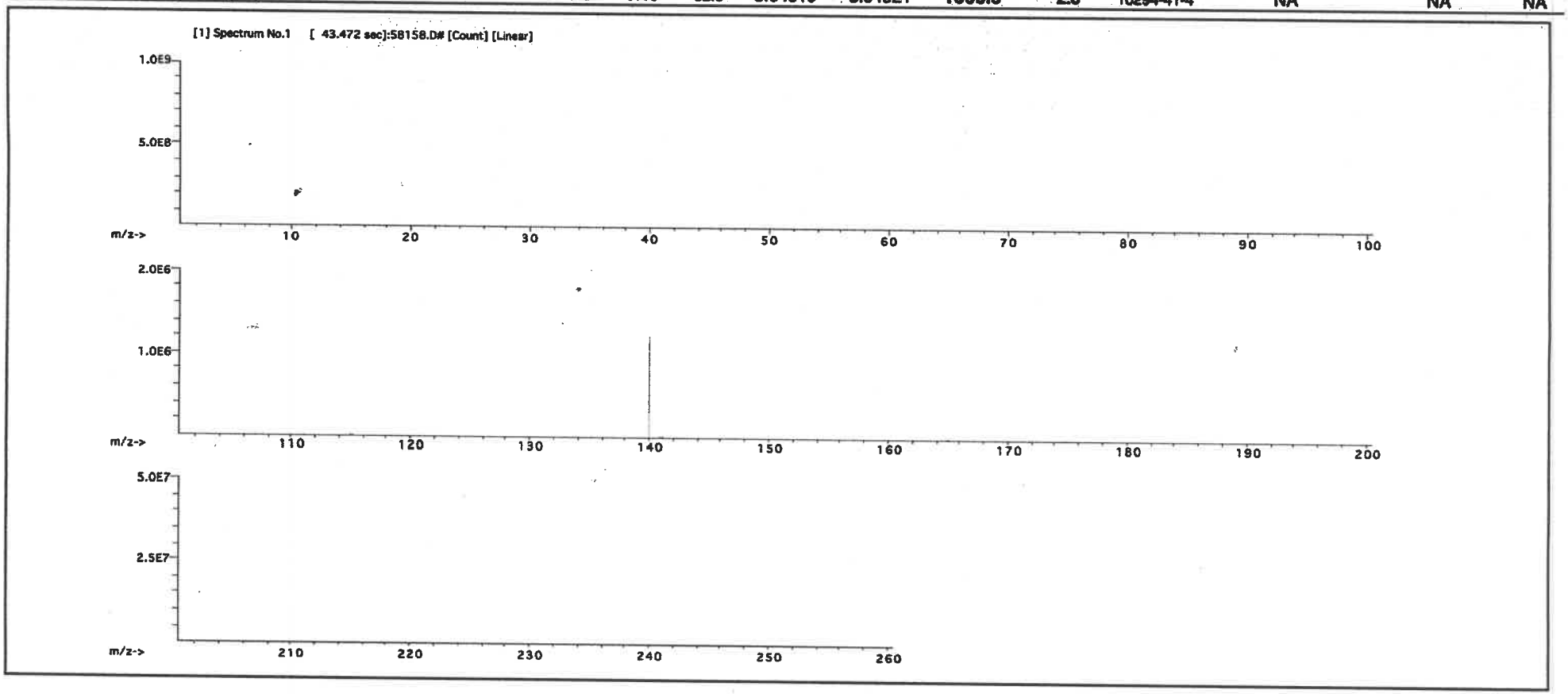
**Weight shown below was diluted to (mL):** 1000.12 0.058 Flask Uncertainty

| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 21110221 | Nitric Acid | |
| 2% | 20.0 (mL) | Nitric Acid | |

5E-05 Balance Uncertainty

| | | |
|---|---|---|
| Formulated By: | Lawrence Barry | 020623 |
| Reviewed By: | Pedro L. Rentas | 020623 |

| 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. Cerium nitrate hexahydrate (Ce) | IN146 | Z512CEB1 | 1000 | 99.999 | 0.10 | 32.8 | 3.04919 | 3.04921 | 1000.0 | 2.0 | 10294-41-4 | NA | NA | NA |



02814-METALS

**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 | T | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

M5658 R ! 8/25/23

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

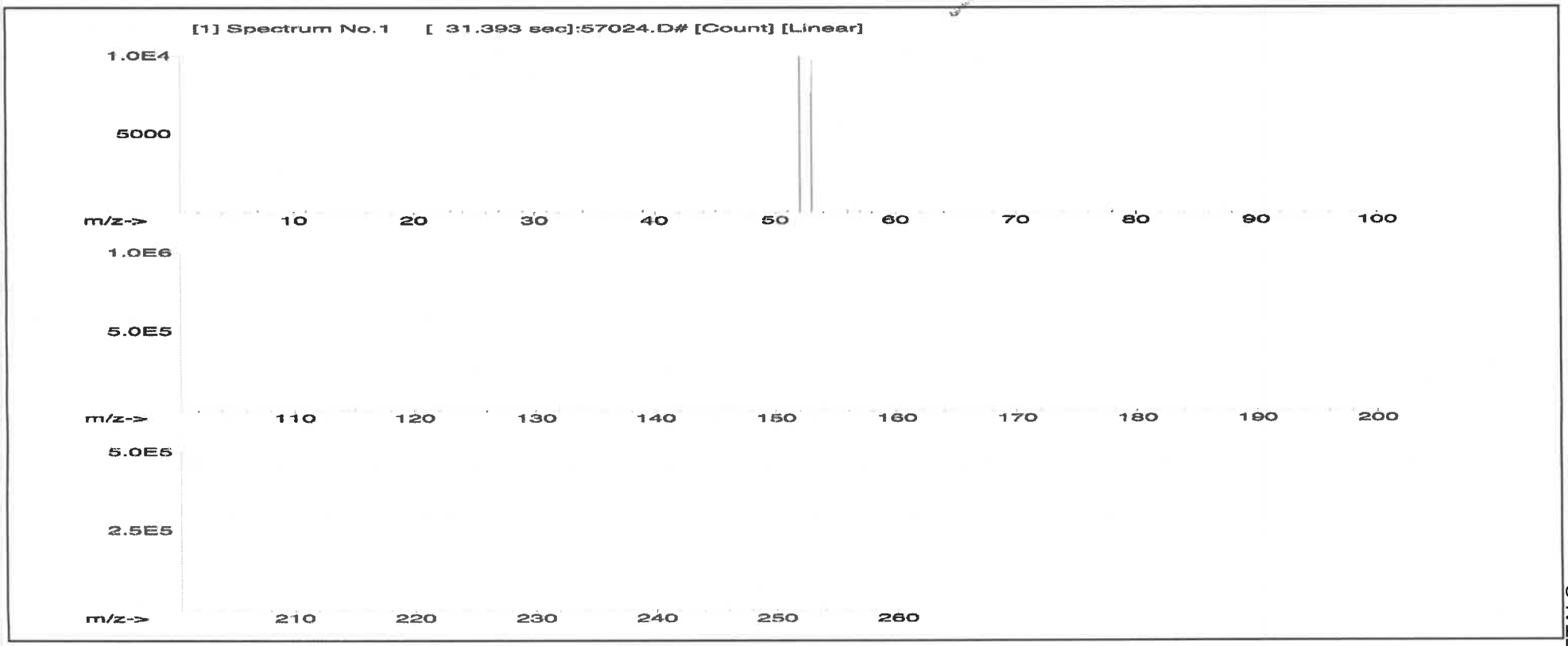


CERTIFIED WEIGHT REPORT:

| | | 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 |



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | T | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

M5697 R: 10/27/23

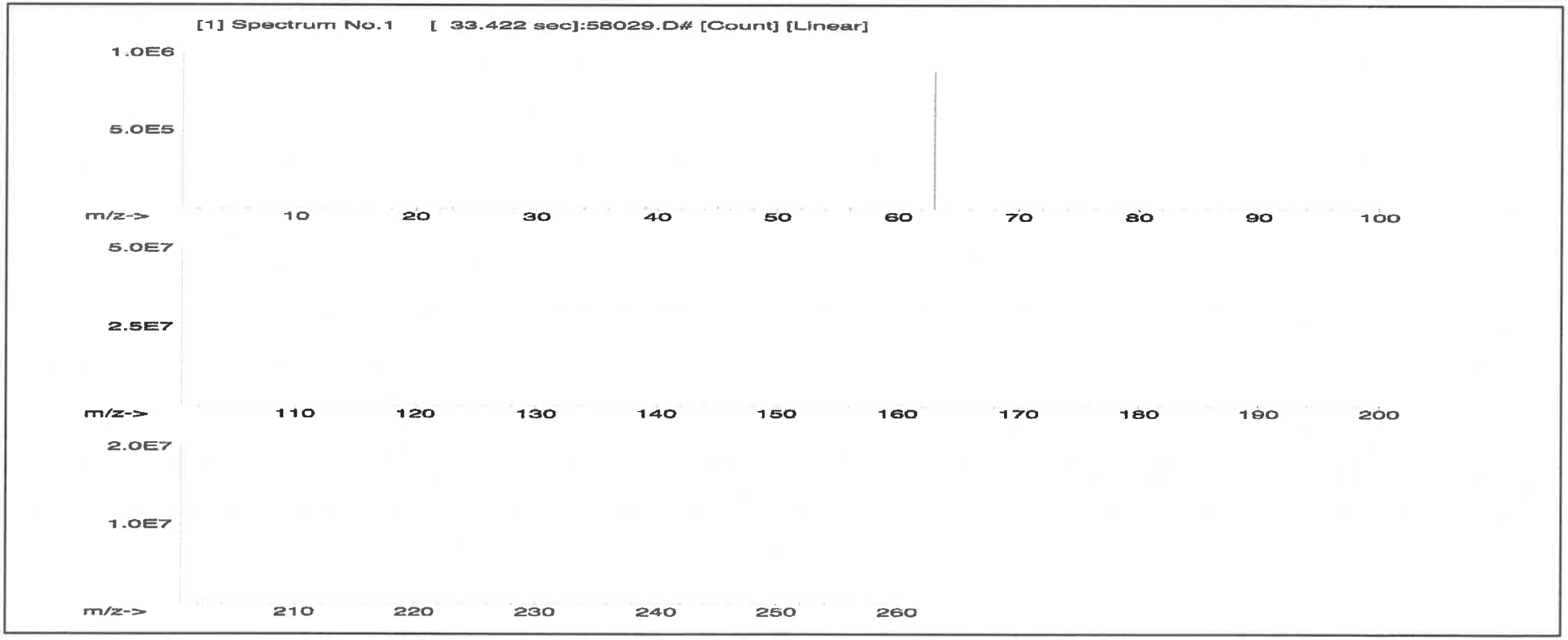
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | |
|---|---|---|---|---|
| **Part Number:** | **58029** | 24002546 | Nitric Acid | |
| **Lot Number:** | **102523** | | | |
| **Description:** | **Copper (Cu)** | | | |
| | | 2.0% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 102526 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Volume shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | |

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 102523 |
| Reviewed By: | Pedro L. Rentas | 102523 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Copper(II) nitrate trihydrate (Cu) | 58129 | 100223 | 0.1000 | 200.0 | 0.084 | 1000 | 10000.1 | **1000.0** | **2.2** | 10031-43-3 | 1 mg/m3 | orl-rat 794 mg/kg | 3114 |



**Absolute Standards, Inc.**
300-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | T | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

**Certified by:**

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

R: 12/20/23 M5748

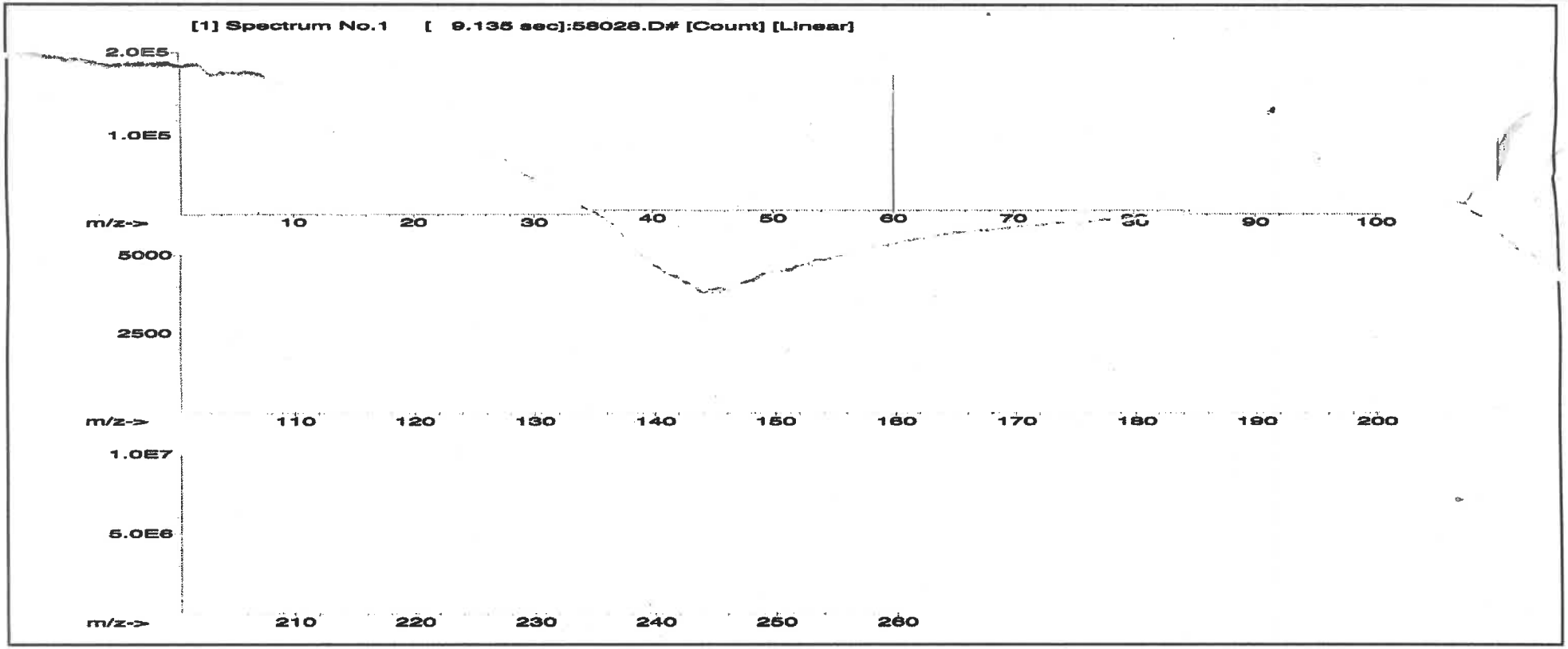
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

**CERTIFIED WEIGHT REPORT:**

| | | Lot # | Solvent: | |
|---|---|---|---|---|
| **Part Number:** | **57028** | 24002546 | Nitric Acid | |
| **Lot Number:** | **091223** | | | |
| **Description:** | **Nickel (Ni)** | | | |
| | | 2.0% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 091226 | | | |
| **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 | 091223 |
| Reviewed By: | Pedro L. Rentas | 091223 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Nickel(II) nitrate hexahydrate (Ni) | 58128 | 062023 | 0.1000 | 200.0 | 0.084 | 1000 | 10000.4 | **1000.0** | 2.2 | 13478-00-7 | 1 mg/m3 | orl-rat 1620 mg/kg | 3136 |



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):**

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | T | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

R: 02/09/24 M5798

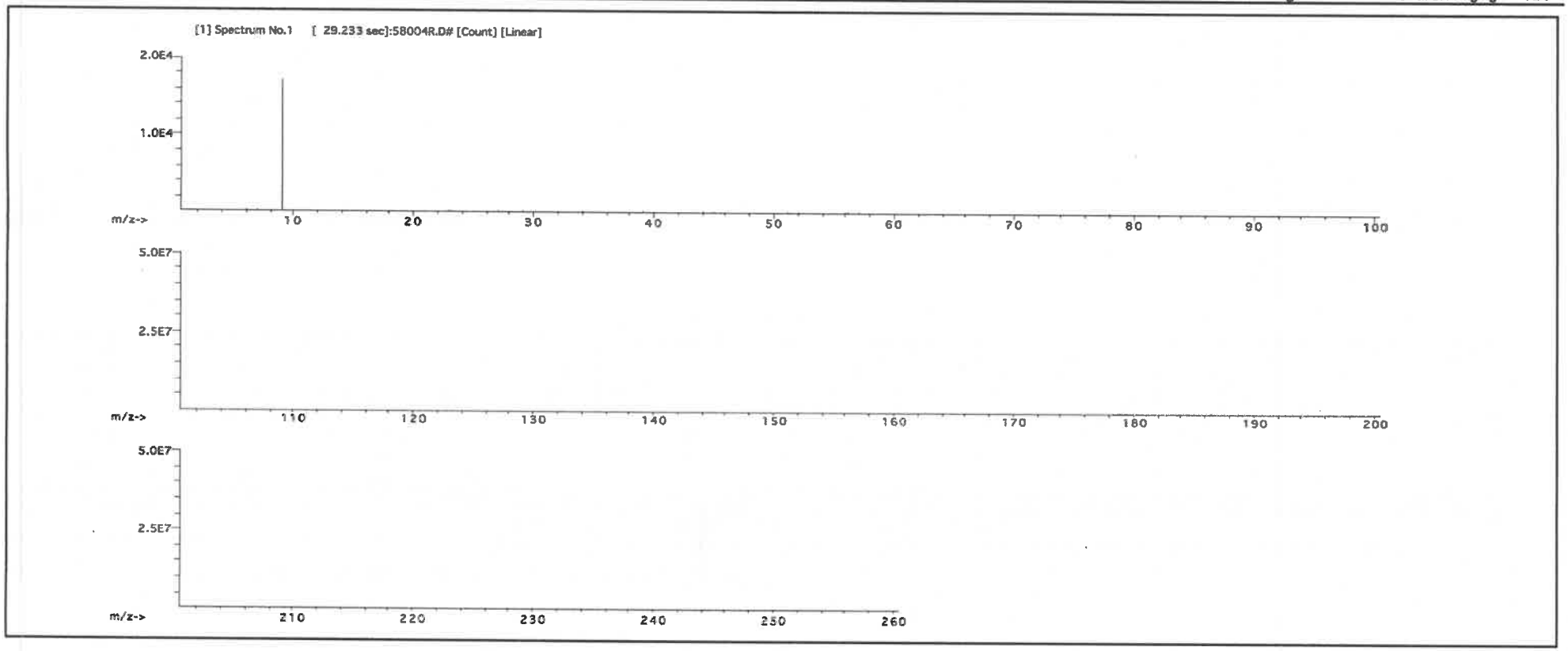
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

## 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 |



Q2814-METALS

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | T | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

## *Certified Reference Material CRM*

R? 02/09/24 IM5799

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

BA

**CERTIFIED WEIGHT REPORT:**

**Part Number:** 57050
**Lot Number:** 071123
**Description:** Tin (Sn)

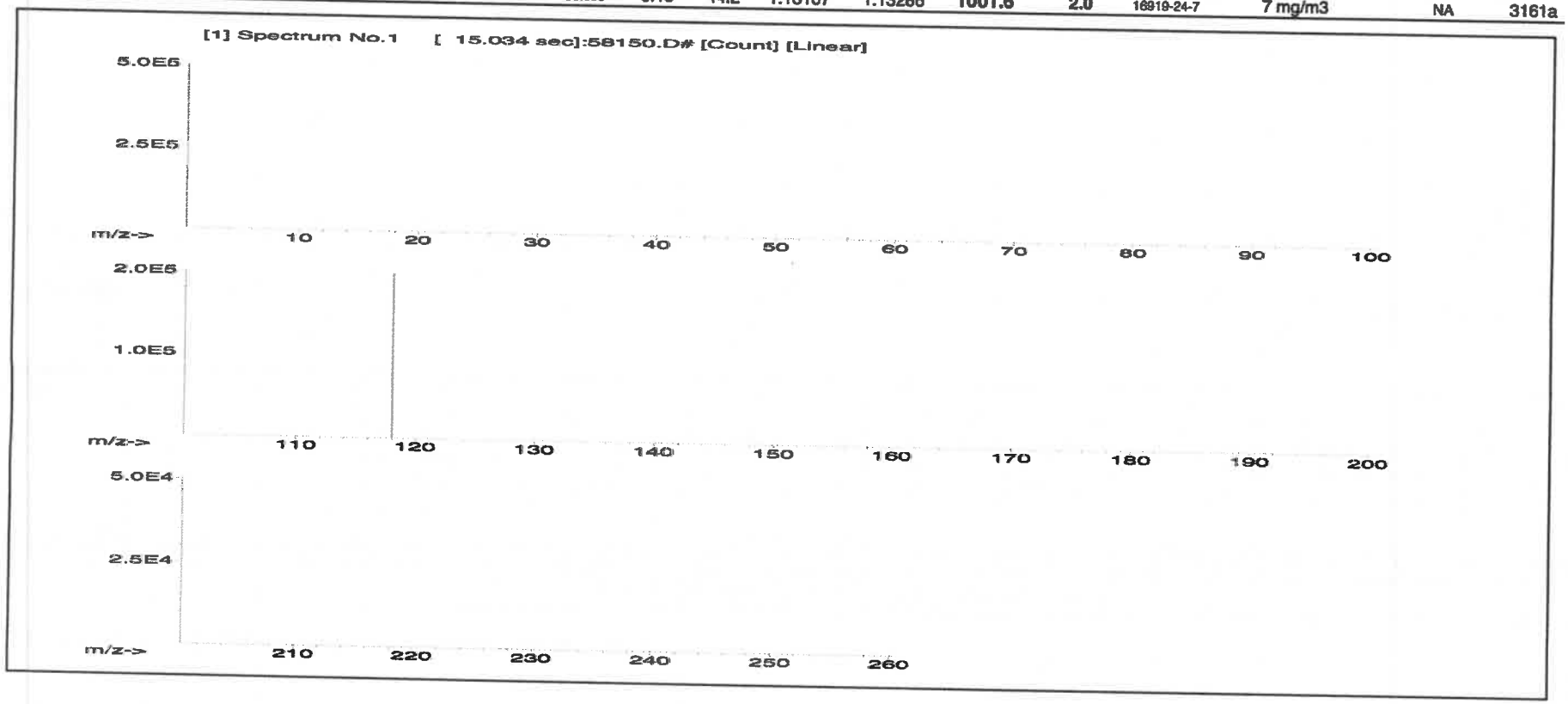
**Expiration Date:** 071126
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 499.93

| | 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 |



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <500 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | T | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

R: 02/09/24 IM5800 BH

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

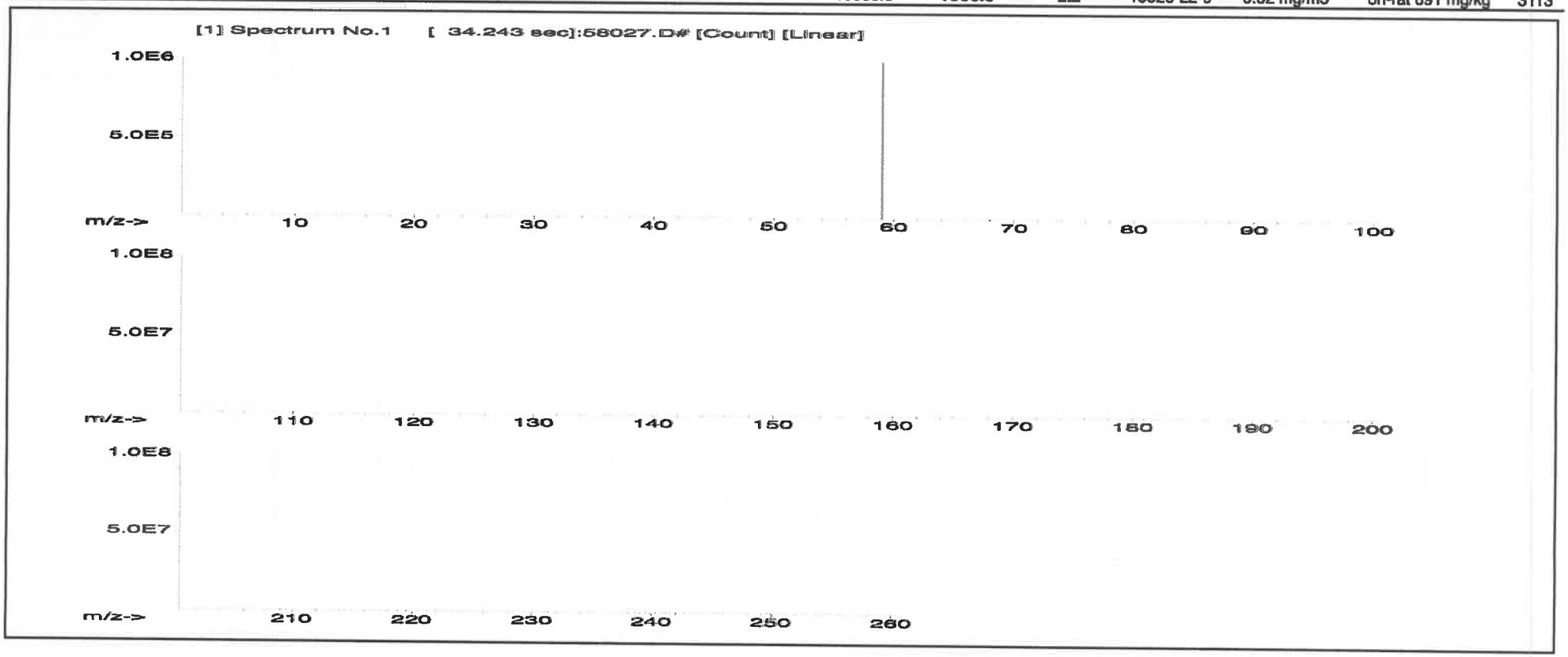
CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | | |
|---|---|---|---|---|---|
| **Part Number:** | **57027** | 24002546 | Nitric Acid | | |
| **Lot Number:** | **091923** | | | | |
| **Description:** | **Cobalt (Co)** | 2.0% | 40.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 091926 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Volume shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | | |

Formulated By: Lawrence Barry 091923

Reviewed By: Pedro L. Rentas 091923

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Cobalt(II) nitrate hexahydrate (Co) | 58127 | 050923 | 0.1000 | 200.0 | 0.084 | 1000 | 10000.0 | **1000.0** | **2.2** | 10026-22-9 | 0.02 mg/m3 | orl-rat 691 mg/kg | 3113 |



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):**

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | T | Gé | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

R: 02/09/24 M5801 BH

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



CERTIFIED **WEIGHT** REPORT:

**Part Number:** 57033
**Lot Number:** 111323
**Description:** Arsenic (As)

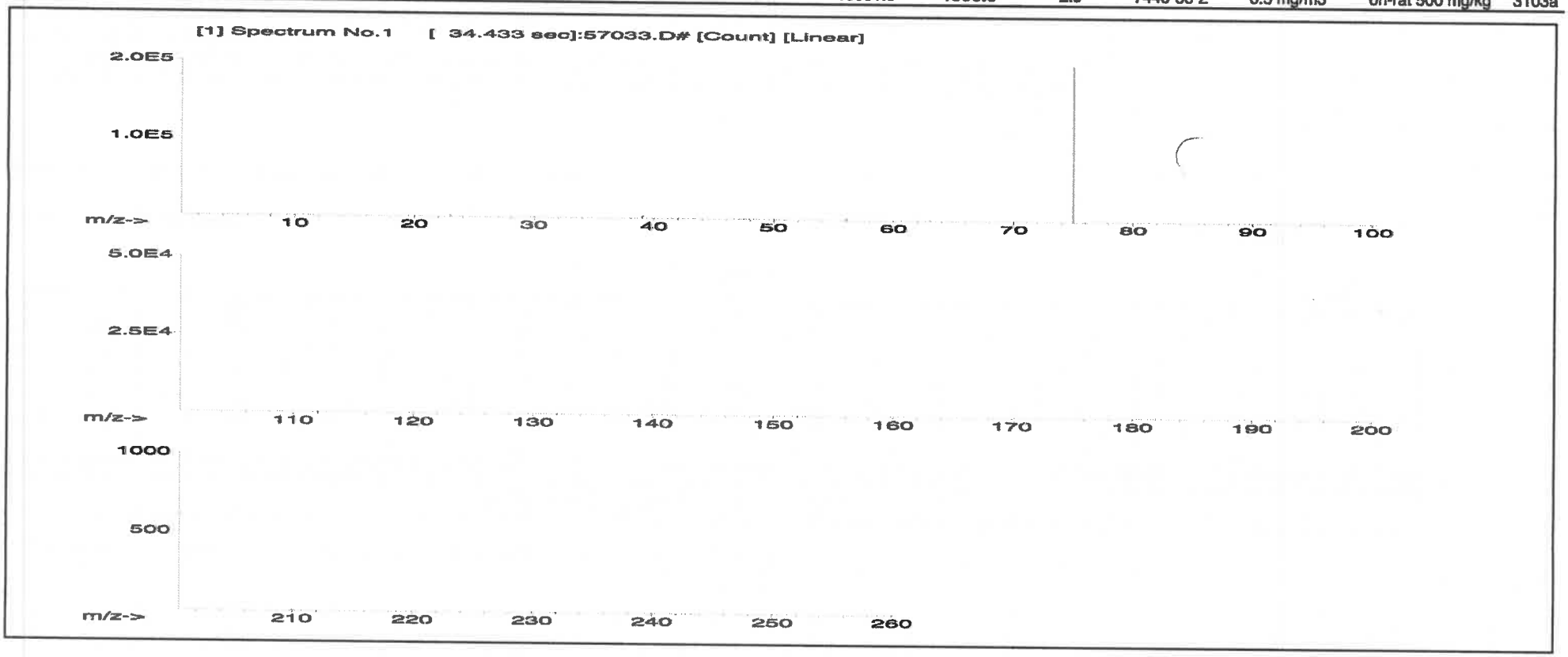
**Expiration Date:** 111326
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB

| | | | |
|---|---|---|---|
| | | 5E-05 | Balance Uncertainty |
| **Volume shown below was diluted to (mL):** | 4000.0 | 0.06 | Flask Uncertainty |

| Lot # | Solvent: | | |
|---|---|---|---|
| 24002546 | Nitric Acid | | |
| 2.0% | 80.0 (mL) | Nitric Acid | |

| | | |
|---|---|---|
| Formulated By: | Lawrence Barry | 111323 |
| Reviewed By: | Pedro L. Rentas | 111323 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Arsenic (As) | 58133 | 020522 | 0.1000 | 400.0 | 0.084 | 1000 | 10001.0 | **1000.0** | 2.0 | 7440-38-2 | 0.5 mg/m3 | orl-rat 500 mg/kg | 3103a |



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | T | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge* | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

A: 02/09/24 M.5814

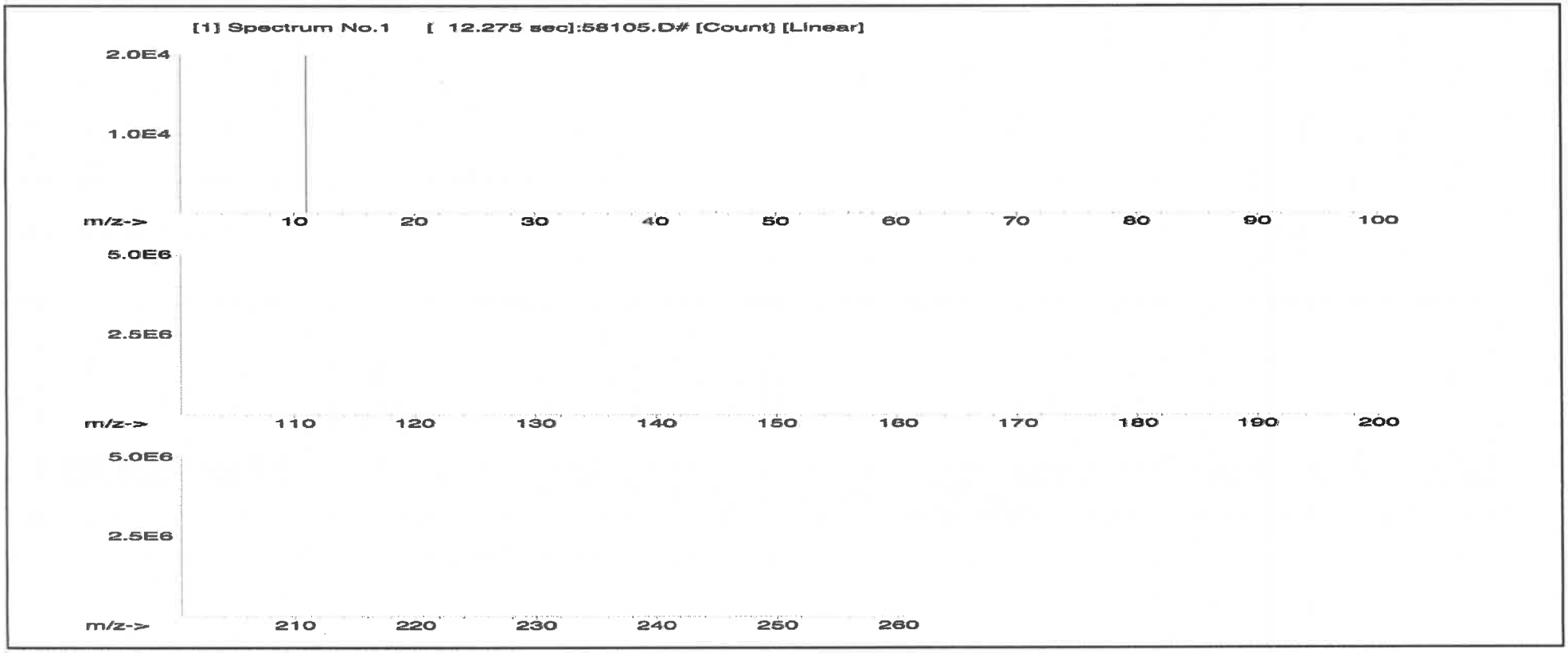
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

**CERTIFIED WEIGHT REPORT:**

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **57005** | | **Solvent:** | MKBQ8597V | Ammonium hydroxide |
| **Lot Number:** | **071123** | | | | |
| **Description:** | **Boron (B)** | | 2.0% | 40.0 (mL) | Ammonium hydroxide |
| **Expiration Date:** | 071126 | | | | |
| **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):** | 1999.48 | 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. Boric acid (B) | IN018 | BV092016A1 | 1000 | 99.9999 | 0.10 | 17.3 | 11.55772 | 11.56201 | **1000.4** | **2.0** | 10043-35-3 | 2 mg/m3 | orl-rat 2660 mg/kg | 3107 |



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):**

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | T | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

**Certified by:**



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

R: 02/09/24 M5816

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



CERTIFIED WEIGHT REPORT:

**Part Number:** 57016
**Lot Number:** 122923
**Description:** Sulfur (S)

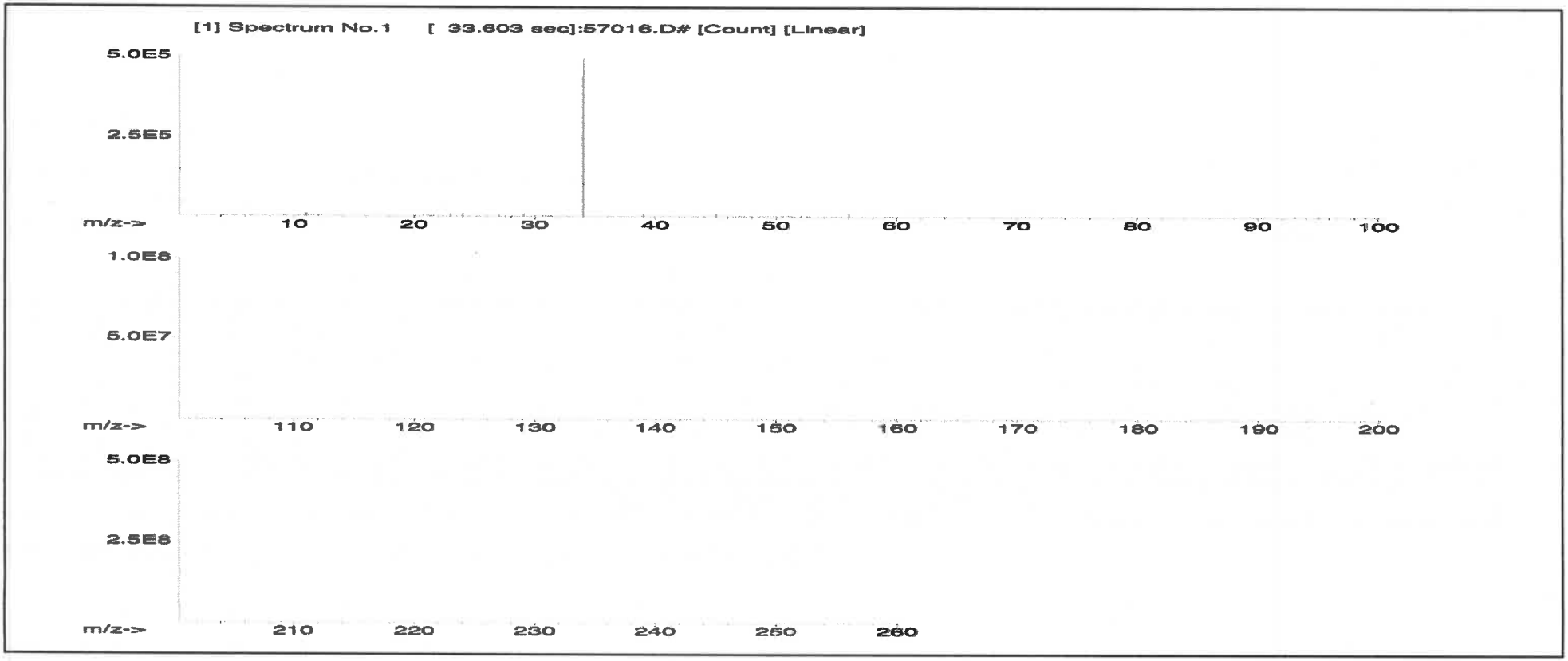
**Expiration Date:** 122926
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB

**Weight shown below was diluted to (mL):** 4000.0

| Lot # | | |
|---|---|---|
| **Solvent:** | 122923 | ASTM Type 1 Water |
| | 5E-05 | Balance Uncertainty |
| | 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 |



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | T | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

R: 02/09/24 M5820

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

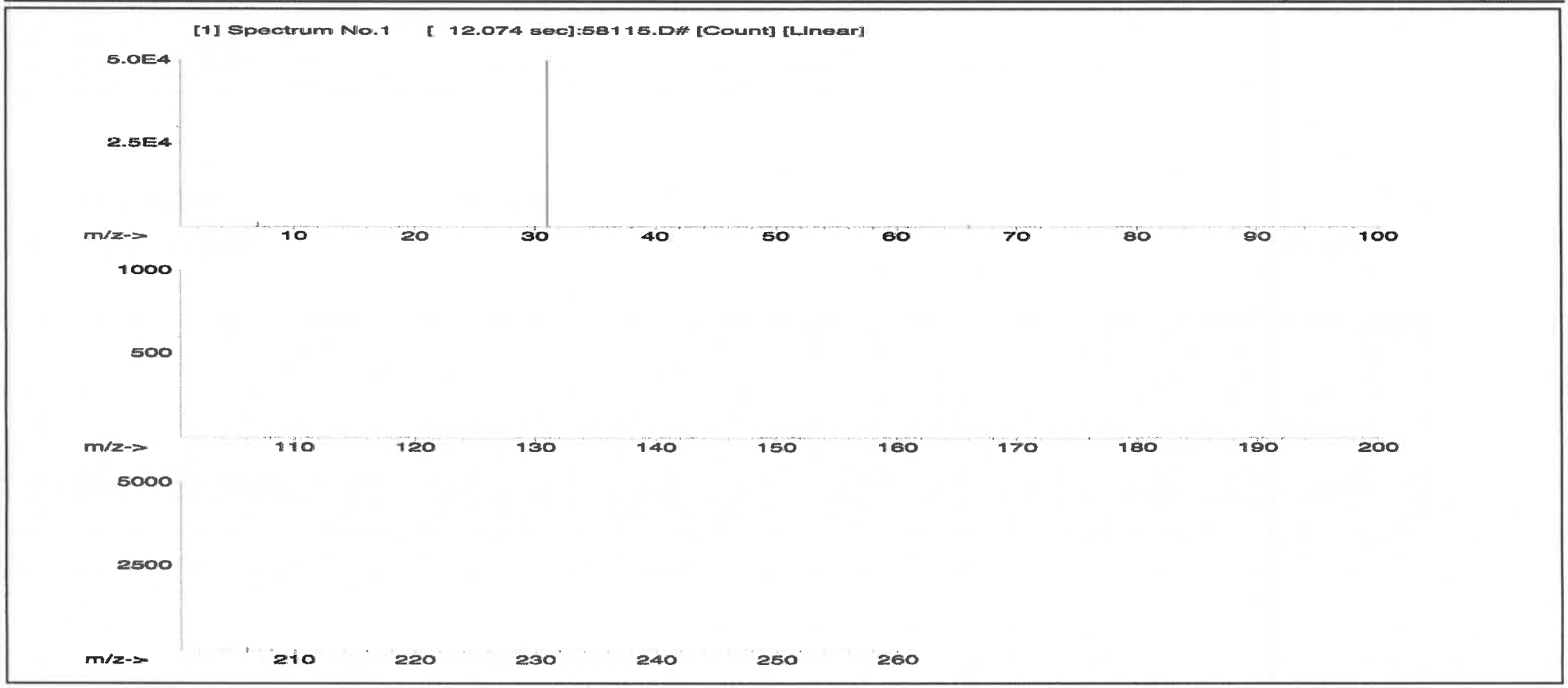


CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **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 |



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | T | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

MF824
MB

avantor™ | J.T.Baker®

Material No.: 3624-01
Batch No.: 0000281938
Manufactured Date: 2021-06-07
Retest Date: 2026-06-07
Revision No.: 1

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay (NaCl) (by Ag titrn) | ≥ 99.0 % | 100.0 % |
| pH of 5% Solution at 25°C | 5.0 - 9.0 | 6.3 |
| Insoluble Matter | ≤ 0.005 % | 0.003 % |
| Iodide (I) | ≤ 0.002 % | < 0.002 % |
| Bromide (Br) | ≤ 0.01 % | < 0.01 % |
| Chlorate and Nitrate (as $NO_3$) | ≤ 0.003 % | < 0.001 % |
| ACS - Phosphate ($PO_4$) | ≤ 5 ppm | < 5 ppm |
| Sulfate ($SO_4$) | ≤ 0.004 % | < 0.004 % |
| Barium (Ba) | Passes Test | Passes Test |
| ACS - Heavy Metals (as Pb) | ≤ 5 ppm | < 5 ppm |
| Iron (Fe) | ≤ 2 ppm | < 1 ppm |
| Calcium (Ca) | ≤ 0.002 % | < 0.001 % |
| Magnesium (Mg) | ≤ 0.001 % | < 0.001 % |
| Potassium (K) | ≤ 0.005 % | 0.001 % |

For Laboratory,Research,or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs
Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Mansford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

M5962 R! 06/14/24.

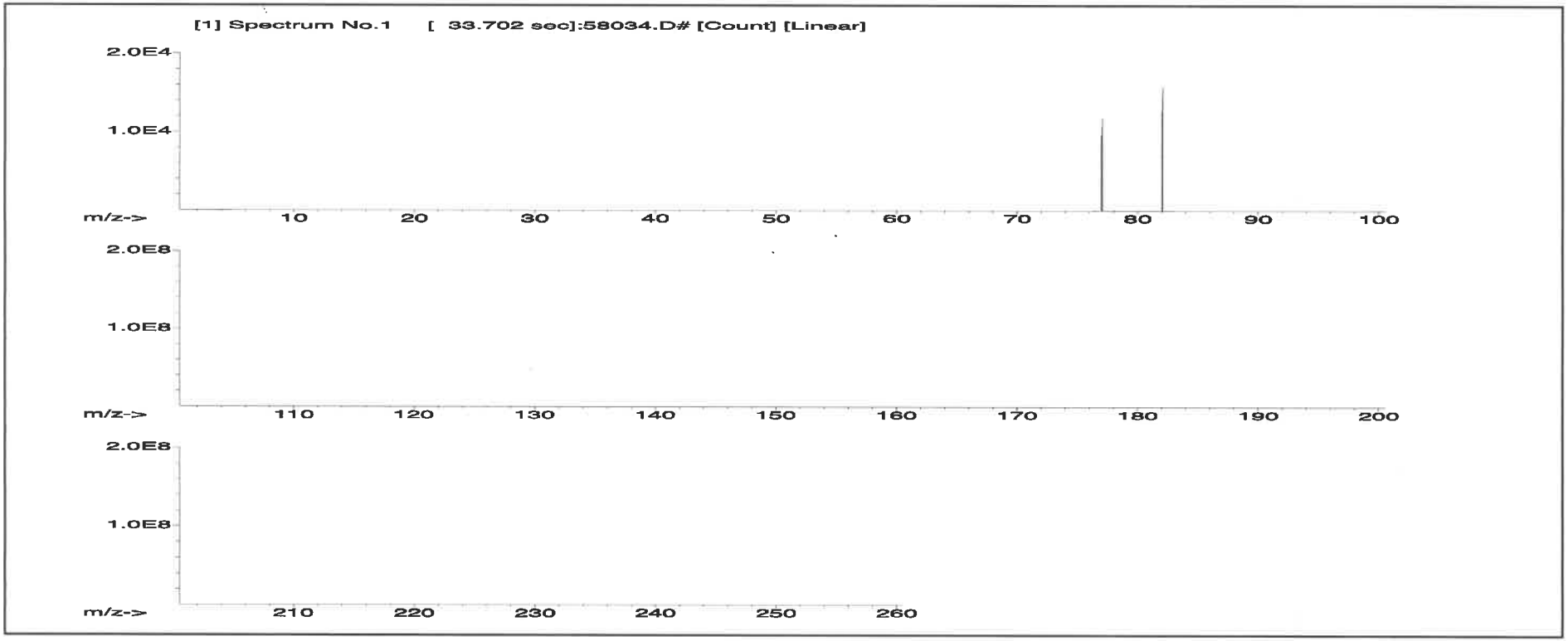
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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 |



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | T | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

**Certified by:**

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

M5969 R: 06/11/24

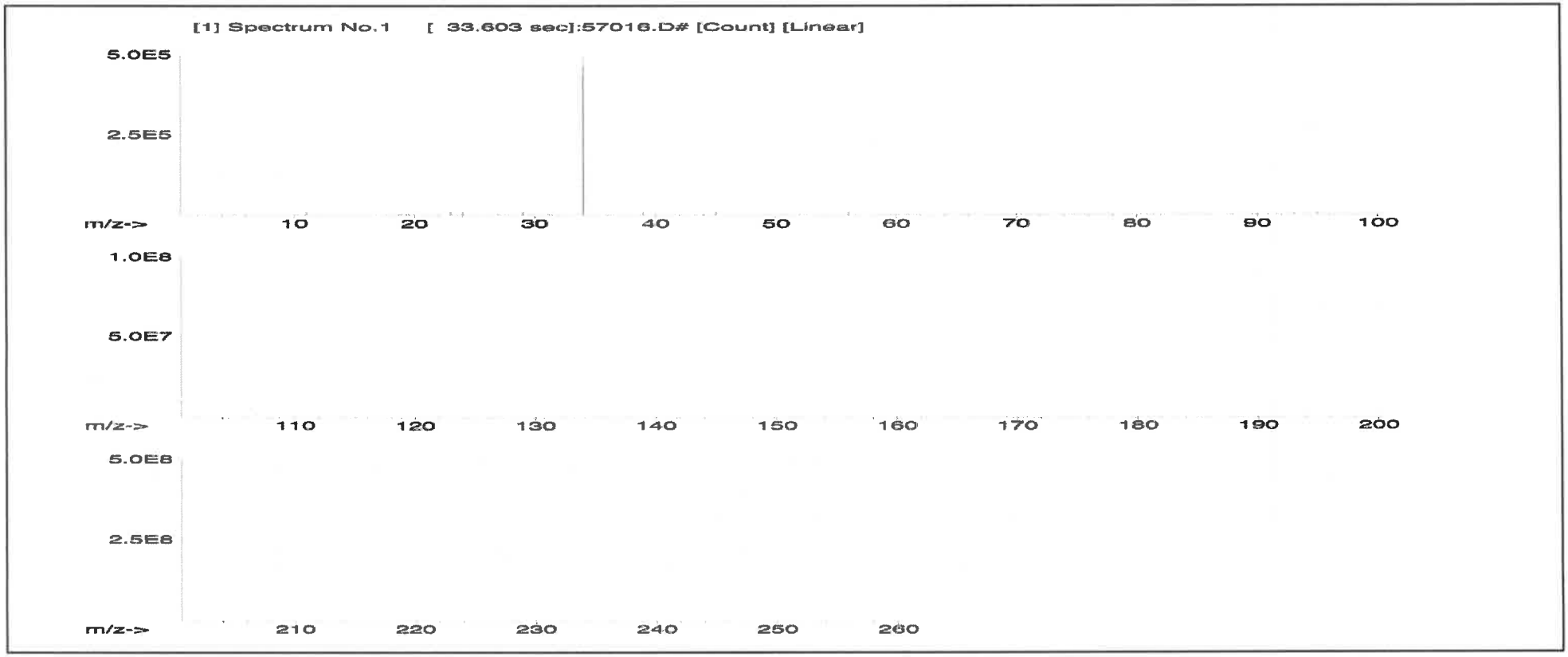
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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 |






Q2814-METALS

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

M5970, M5971 R: 7/01/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

**Part Number:** 57003
**Lot Number:** 062124
**Description:** Lithium (Li)
**Expiration Date:** 062127
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB
**Volume shown below was diluted to (mL):** 250.11

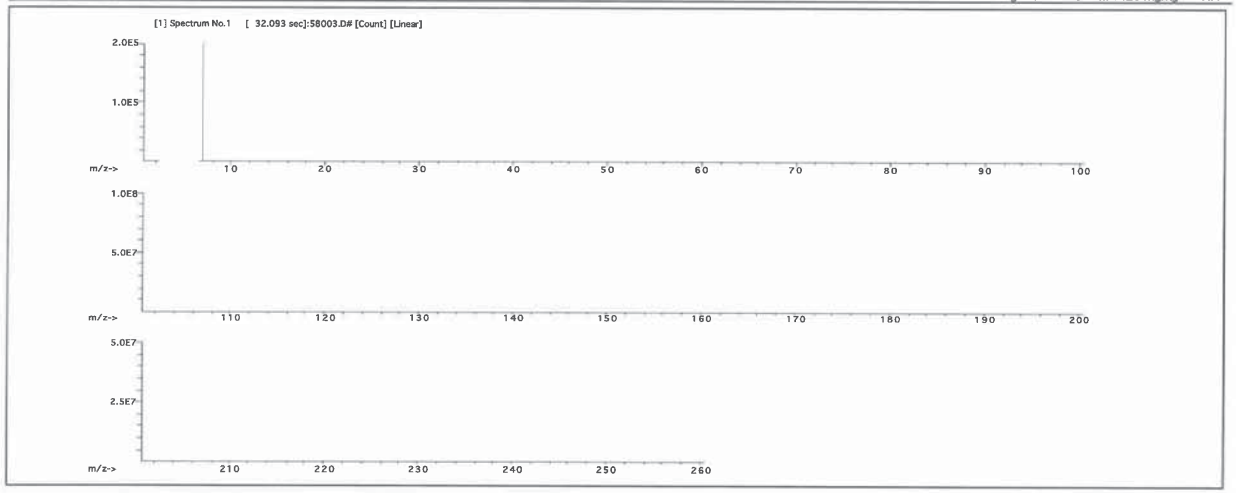
| Lot # | Solvent: | | |
|---|---|---|---|
| 24002546 | Nitric Acid | | |
| 2.0% | 5.0 (mL) | Nitric Acid | |

5E-05 Balance Uncertainty
0.016 Flask Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 062124

Pedro Rentas
Reviewed By: Pedro L. Rentas 062124

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Lithium nitrate (Li) | 58103 | 070622 | 0.1000 | 25.0 | 0.004 | 1000 | 10000.4 | **1000.0** | **2.0** | 7790-69-4 | 5 mg/m3 | orl-rat 1426 mg/kg | NA |



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

Trace Metals Verification by ICP-MS (µg/mL)

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | T | Ni | <0.02 | Pr | <0.02 | Sc | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

**Certified by:**



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

MS978, MS979

# Certificate of Analysis

INORGANIC VENTURES™

Refine your results. Redefine your industry.

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

R: 2/22/24

## 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 865.01 — ACCREDITED Reference Material Producer Certificate 865.02

## 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:

$$X_{CRM/RM} = \Sigma(w_i)\,(x_i)$$

$x_i$ = mean of Assay Method $i$ with standard uncertainty $u_{Char\,i}$

$w_i$ = the weighting factors for each method calculated using the inverse square of the variance

$$w_i = (1/u_{Char\,i})^2 \,/\, (\Sigma(1/u_{Char\,i})^2)$$

CRM/RM Expanded Uncertainty ($\pm$) = $U_{CRM/RM} = k\,(u^2_{Char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

$k$ = coverage factor = 2

$u_{Char} = [\Sigma((w_i)^2\,(u_{Char\,i})^2)]^{½}$ where $u_{Char\,i}$ are the errors from each characterization method

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (\Sigma x_a)\,(v_{Char\,a})$$

$X_a$ = 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)

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 for months in 1% 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: 800.669.5798; 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 property 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 Kozlkowski
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

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.

### Characterization of CRM/RM by Two or More Methods

**Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:**

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

$X_i$ = mean of Assay Method i with standard uncertainty $u_{char\ i}$

$w_i$ = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$**

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

**Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:**

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

$X_a$ = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$**

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M | Ag | < | 0.000760 | M | Eu | < | 0.000760 | O | Na | | 0.012771 | M | Se | < | 0.023000 | M | Zn | < | 0.006100 |
| M | Al | | 0.003385 | O | Fe | | 0.004462 | M | Nb | < | 0.000760 | O | Si | | 0.024619 | M | Zr | < | 0.000760 |
| M | As | < | 0.004600 | M | Ga | < | 0.000760 | M | Nd | < | 0.000760 | M | Sm | < | 0.000760 | | | | |
| M | Au | < | 0.002300 | M | Gd | < | 0.000760 | O | Ni | < | 0.005100 | M | Sn | < | 0.000760 | | | | |
| O | B | | 0.003692 | M | Ge | < | 0.001600 | M | Os | < | 0.000760 | O | Sr | < | 0.000610 | | | | |
| M | Ba | < | 0.001600 | M | Hf | < | 0.000760 | n | P | < | | M | Ta | < | 0.000760 | | | | |
| O | Be | < | 0.000130 | M | Hg | < | 0.003100 | M | Pb | | 0.001400 | M | Tb | < | 0.000760 | | | | |
| M | Bi | < | 0.000760 | M | Ho | < | 0.000760 | M | Pd | < | 0.001600 | M | Te | < | 0.000760 | | | | |
| O | Ca | | 0.004616 | s | In | < | | M | Pr | < | 0.000760 | M | Th | < | 0.000760 | | | | |
| M | Cd | < | 0.000760 | M | Ir | < | 0.000760 | M | Pt | < | 0.000760 | O | Ti | < | 0.001100 | | | | |
| M | Ce | < | 0.000760 | O | K | | 0.007078 | M | Rb | < | 0.000760 | M | Tl | < | 0.000760 | | | | |
| M | Co | < | 0.000760 | M | La | < | 0.000760 | M | Re | < | 0.000760 | M | Tm | < | 0.000760 | | | | |
| O | Cr | < | 0.001300 | O | Li | < | 0.000130 | M | Rh | < | 0.000760 | M | U | < | 0.000760 | | | | |
| M | Cs | < | 0.000760 | M | Lu | < | 0.000760 | M | Ru | < | 0.000760 | M | V | < | 0.001600 | | | | |
| M | Cu | < | 0.003800 | O | Mg | | 0.000707 | n | S | < | | M | W | < | 0.001600 | | | | |
| M | Dy | < | 0.000760 | O | Mn | | 0.000149 | M | Sb | < | 0.000760 | M | Y | < | 0.000760 | | | | |
| M | Er | < | 0.000760 | M | Mo | < | 0.002300 | M | Sc | < | 0.000760 | M | Yb | < | 0.000760 | | | | |

M - Checked by ICP-MS  O - Checked by ICP-OES  i - Spectral Interference
n - Not Checked For  s - Solution Standard Element

## 6.0 INTENDED USE

**6.1** This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

**6.2** For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution -** 114.82 +3 6 In(H2O)6+3

**Chemical Compatibility -**Soluble in HCl, HNO3, and H2SO4. Avoid neutral and basic media. Stable with most metals and inorganic anions. The oxalate, sulfide, carbonate, hydroxide and phosphate are insoluble in water.

**Stability -** 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

**In Containing Samples (Preparation and Solution) -**Metal (Best dissolved in HCl / HNO3 ); Oxide (Soluble in mineral acids); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in dilute HCl).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| **Technique/Line** | **Estimated D.L.** | **Order** | **Interferences** (underlined indicates severe) |
|---|---|---|---|
| ICP-MS 115 amu | 1 ppt | n/a | 115Sn, 99Ru16O |
| ICP-OES 158.583 nm | 0.05 / 0.002 µg/mL | 1 | |
| ICP-OES 230.606 nm | 0.1 / 0.03 µg/mL | 1 | Ni, Os |
| ICP-OES 325.609 nm | 0.2 / 0.05 µg/mL | 1 | Mn, Mo, Th |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

**10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"**

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

February 21, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

**- February 21, 2028**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Thomas Kozikowski
Manager, Quality Control



**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director



INORGANIC VENTURES
Refine your results. Redefine your industry.

# Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

R: 2/22/24
MS-997

## 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-MEB727800 |
| Matrix: | 7% (v/v) HNO3 |
| Value / Analyte(s): | 1 000 µg/mL ea:<br>Arsenic, Lead,<br>Selenium, Thallium,<br>500 µg/mL ea:<br>Cadmium |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|---|---|---|---|
| Arsenic, As | 1 000 ± 7 µg/mL | Cadmium, Cd | 500.0 ± 2.2 µg/mL |
| Lead, Pb | 1 000 ± 4 µg/mL | Selenium, Se | 1 000 ± 6 µg/mL |
| Thallium, Tl | 1 000 ± 7 µg/mL | | |

**Density:** 1.042 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---|---|---|---|
| As | ICP Assay | 3103a | 100818 |
| As | Calculated | | See Sec. 4.2 |
| 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 (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$**

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

December 21, 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

**- December 21, 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



Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

M 6041-46
MG

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010
Manufactured Date: 2023-03-22
Retest Date: 2028-03-20
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| ACS – Assay ($H_2SO_4$) | 95.0 – 98.0 % | 96.1 % |
| Appearance | Passes Test | Passes Test |
| ACS – Color (APHA) | ≤ 10 | 5 |
| ACS – Residue after Ignition | ≤ 3 ppm | < 1 ppm |
| ACS – Substances Reducing Permanganate (as SO2) | ≤ 2 ppm | < 2 ppm |
| Ammonium ($NH_4$) | ≤ 1 ppm | 1 ppm |
| Chloride (Cl) | ≤ 0.1 ppm | < 0.1 ppm |
| Nitrate ($NO_3$) | ≤ 0.2 ppm | < 0.1 ppm |
| Phosphate ($PO_4$) | ≤ 0.5 ppm | < 0.1 ppm |
| Trace Impurities – Aluminum (Al) | ≤ 30.0 ppb | < 5.0 ppb |
| Arsenic and Antimony (as As) | ≤ 4.0 ppb | < 2.0 ppb |
| Trace Impurities – Boron (B) | ≤ 10.0 ppb | 8.5 ppb |
| Trace Impurities – Cadmium (Cd) | ≤ 2.0 ppb | < 0.3 ppb |
| Trace Impurities – Chromium (Cr) | ≤ 6.0 ppb | < 0.4 ppb |
| Trace Impurities – Cobalt (Co) | ≤ 0.5 ppb | < 0.3 ppb |
| Trace Impurities – Copper (Cu) | ≤ 1.0 ppb | < 0.1 ppb |
| Trace Impurities – Gold (Au) | ≤ 10.0 ppb | 0.5 ppb |
| Heavy Metals (as Pb) | ≤ 500.0 ppb | < 100.0 ppb |
| Trace Impurities – Iron (Fe) | ≤ 50.0 ppb | 1.3 ppb |
| Trace Impurities – Lead (Pb) | ≤ 0.5 ppb | < 0.5 ppb |
| Trace Impurities – Magnesium (Mg) | ≤ 7.0 ppb | 0.8 ppb |
| Trace Impurities – Manganese (Mn) | ≤ 1.0 ppb | < 0.4 ppb |
| Trace Impurities – Mercury (Hg) | ≤ 0.5 ppb | < 0.1 ppb |
| Trace Impurities – Nickel (Ni) | ≤ 2.0 ppb | 0.3 ppb |
| Trace Impurities – Potassium (K) | ≤ 500.0 ppb | < 2.0 ppb |
| Trace Impurities – Selenium (Se) | ≤ 50.0 ppb | < 0.1 ppb |
| Trace Impurities – Silicon (Si) | ≤ 100.0 ppb | 31.5 ppb |
| Trace Impurities – Silver (Ag) | ≤ 1.0 ppb | < 0.3 ppb |

>>> Continued on page 2 >>>

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010

| Test | Specification | Result |
|---|---|---|
| Trace Impurities - Sodium (Na) | ≤ 500.0 ppb | 5.4 ppb |
| Trace Impurities - Strontium (Sr) | ≤ 5.0 ppb | < 0.2 ppb |
| Trace Impurities - Tin (Sn) | ≤ 5.0 ppb | < 0.8 ppb |
| Trace Impurities - Zinc (Zn) | ≤ 5.0 ppb | 0.4 ppb |

For Laboratory,Research,or Manufacturing Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

INORGANIC VENTURES
Refine your results. Redefine your industry.

# Certificate of Analysis

R! 08/22/24 M6058, M6059

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Multi Analyte Custom Grade Solution |
| Catalog Number: | CHEM-CLP-4 |
| Lot Number: | V2-MEB746172 |
| 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 ± 5 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 | 1 000 ± 6 µg/mL | | |

**Density:** 1.032 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---|---|---|---|
| B | ICP Assay | 3107 | 190605 |
| B | Calculated | | See Sec. 4.2 |
| Mo | ICP Assay | traceable to 3134 | U2-MO739068 |
| Si | ICP Assay | Traceable to 3150 | S2-SI702546 |
| Sn | ICP Assay | 3161a | 140917 |
| Ti | ICP Assay | traceable to 3162a | T2-TI725816 |

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**

**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

August 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

**- August 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



INORGANIC VENTURES™
Refine your results. Redefine your industry.

# Certificate of Analysis

M6074
M6075
M6076
M6077

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

EXP.: 9/6/2029

## 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: | V2-MEB746762 |
| 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 ± 5 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 | 1 000 ± 6 µg/mL | | |

**Density:** 1.033 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---|---|---|---|
| B | ICP Assay | 3107 | 190605 |
| B | Calculated | | See Sec. 4.2 |
| Mo | ICP Assay | traceable to 3134 | U2-MO739068 |
| Si | ICP Assay | Traceable to 3150 | S2-SI702546 |
| Sn | ICP Assay | 3161a | 140917 |
| Ti | ICP Assay | traceable to 3162a | T2-TI725816 |

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

**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**

**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

September 06, 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

**- September 06, 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



INORGANIC VENTURES™
Refine your results. Redefine your industry.

# Certificate of Analysis

M6074
M6075
M6076
M6077

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

EXP.: 9/6/2029

## 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: | V2-MEB746762 |
| 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 ± 5 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 | 1 000 ± 6 µg/mL | | |

**Density:** 1.033 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---|---|---|---|
| B | ICP Assay | 3107 | 190605 |
| B | Calculated | | See Sec. 4.2 |
| Mo | ICP Assay | traceable to 3134 | U2-MO739068 |
| Si | ICP Assay | Traceable to 3150 | S2-SI702546 |
| Sn | ICP Assay | 3161a | 140917 |
| Ti | ICP Assay | traceable to 3162a | T2-TI725816 |

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

**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**

**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

September 06, 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

**- September 06, 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***

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



## CERTIFIED WEIGHT REPORT:

R->1/13/25
M6128

**Part Number:** 58025
**Lot Number:** 101124
**Description:** Manganese (Mn)
**Expiration Date:** 101127
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB

| | | Lot # | |
|---|---|---|---|
| **Solvent:** | 24002546 | Nitric Acid | |
| | 2% | 80.0 (mL) | Nitric Acid |

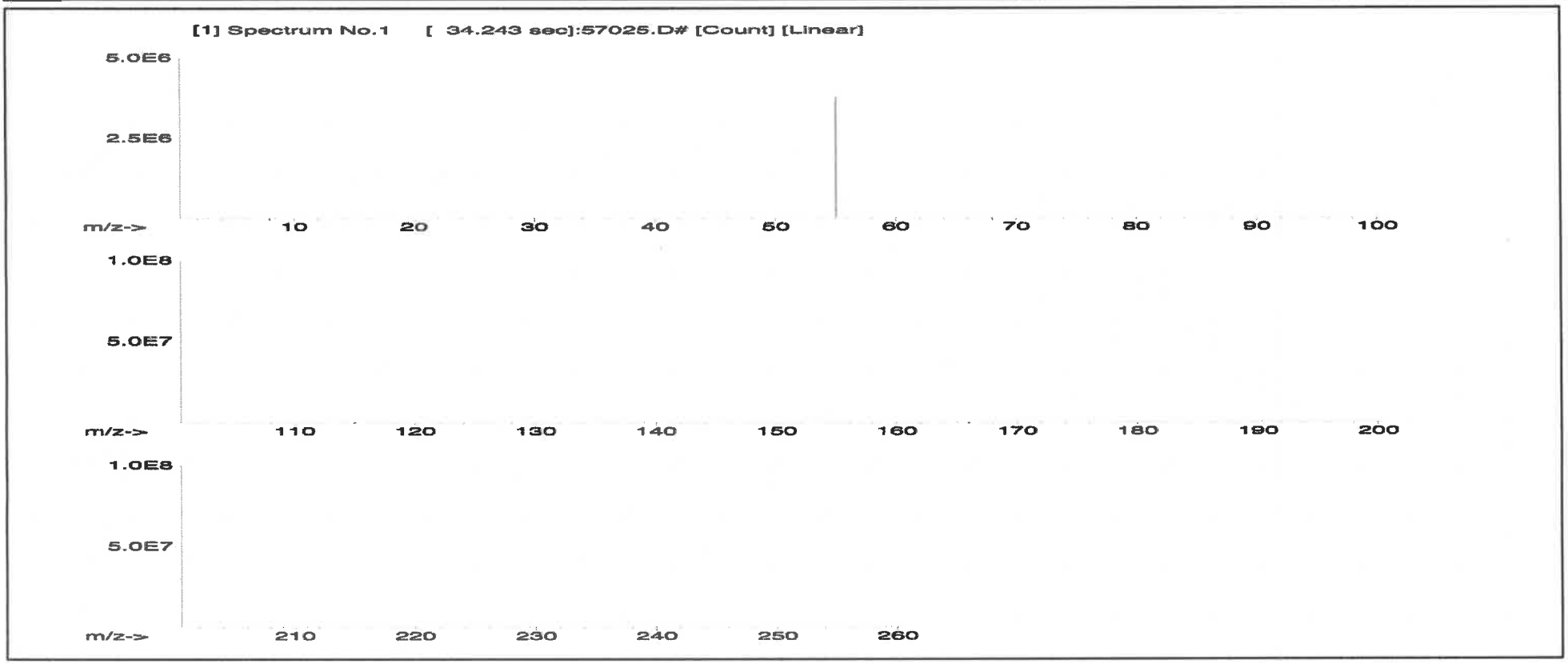
5E-05 Balance Uncertainty

**Weight shown below was diluted to (mL):** 4000.2 0.10 Flask Uncertainty

Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 101124 |
| Reviewed By: | Pedro L. Rentas | 101124 |

| 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. Manganese(II) nitrate hydrate (Mn) | IN031 | MNM092020A1 | 1000 | 99.999 | 0.10 | 20.8 | 19.2322 | 19.2344 | **1000.1** | **2.0** | 15710-66-4 | 5 mg/m3 | orl-rat >300mg/kg | 3132 |



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



## Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <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 preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES
Refine your results. Redefine your industry.

# Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

M6137 R→10/3/24

## 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 883.01
ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Single Analyte Custom Grade Solution |
| Catalog Number: | CGSI1 |
| Lot Number: | V2-SI744713 |
| Matrix: | tr. HNO3<br>tr. HF |
| Value / Analyte(s): | 1 000 µg/mL ea:<br>Silicon |
| Starting Material: | Silica |
| Starting Material Lot#: | 1771 |
| Starting Material Purity: | 99.9981% |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 999 ± 6 µg/mL

**Density:** 1.003 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

| | |
|---|---|
| **Assay Method #1** | **999 ± 5 µg/mL**<br>ICP Assay NIST SRM Traceable to 3150 Lot Number: S2-SI702546 |
| **Assay Method #2** | **1000 ± 7 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 | < | 0.000310 | M | Eu | < | 0.000310 | O | Na | | 0.001656 | M | Se | < | 0.022000 | M | Zn | < | 0.002500 |
| M | Al | | 0.010787 | M | Fe | < | 0.027000 | M | Nb | < | 0.001300 | s | Si | < | | O | Zr | < | 0.001900 |
| M | As | < | 0.001900 | M | Ga | < | 0.001300 | M | Nd | < | 0.000310 | M | Sm | < | 0.000310 | | | | |
| M | Au | < | 0.000910 | M | Gd | < | 0.000310 | M | Ni | < | 0.005500 | M | Sn | | 0.000096 | | | | |
| M | B | | 0.016180 | M | Ge | < | 0.001900 | M | Os | < | 0.000610 | O | Sr | | 0.000092 | | | | |
| M | Ba | | 0.000096 | M | Hf | | 0.000423 | i | P | < | | M | Ta | | 0.002542 | | | | |
| O | Be | < | 0.000570 | M | Hg | < | 0.000610 | M | Pb | < | 0.000310 | M | Tb | < | 0.000310 | | | | |
| M | Bi | < | 0.000310 | M | Ho | < | 0.000610 | M | Pd | < | 0.000610 | M | Te | < | 0.000910 | | | | |
| O | Ca | | 0.011557 | M | In | < | 0.000310 | M | Pr | < | 0.000310 | M | Th | < | 0.001900 | | | | |
| M | Cd | < | 0.000310 | M | Ir | < | 0.000310 | M | Pt | < | 0.000310 | M | Ti | | 0.001078 | | | | |
| M | Ce | < | 0.000610 | O | K | | 0.000577 | M | Rb | < | 0.009100 | M | Tl | < | 0.000310 | | | | |
| M | Co | < | 0.001600 | M | La | < | 0.000310 | M | Re | < | 0.000310 | M | Tm | < | 0.000310 | | | | |
| M | Cr | < | 0.010000 | O | Li | < | 0.000460 | M | Rh | < | 0.000310 | M | U | < | 0.000310 | | | | |
| M | Cs | < | 0.000310 | M | Lu | < | 0.000310 | M | Ru | < | 0.000310 | O | V | < | 0.001300 | | | | |
| M | Cu | < | 0.002500 | O | Mg | | 0.001348 | O | S | < | 0.570000 | M | W | < | 0.001900 | | | | |
| M | Dy | < | 0.000310 | M | Mn | < | 0.002500 | M | Sb | < | 0.000310 | M | Y | < | 0.000310 | | | | |
| M | Er | < | 0.000310 | M | Mo | < | 0.000310 | O | Sc | < | 0.000590 | M | Yb | < | 0.000310 | | | | |

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** - 28.09 +4 6 Si(OH)x(F)y2-

**Chemical Compatibility** -Soluble in HCl, HF, H3PO4 H2SO4 and HNO3 as the Si(OH)x(F)y2-. 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 silicic acid (silicic acid is soluble up to ∼100 ppm in water) in all dilute acids except HF.

**Stability** - 2-100 ppb levels - stability unknown - (alone or mixed with all other metals) as the Si(OH)x(F)y2-. 1-10,000 ppm single element solutions as the Si(OH)x(F)y2- chemically stable for years in 2-5 % HNO3 / trace HF in a LDPE container.

**Si Containing Samples (Preparation and Solution)** -Metal (Soluble in 1:1:1 H2O / HF / HNO3); Oxide - SiO2, amorphic (dissolve by heating in 1:1:1 H2O / HF / HNO3); Oxide - quartz (fuse in Pt0 with Na2CO3); Geological Samples(fuse in Pt0with Na2CO3 followed by HCl solution of the fuseate); Organic Matrices containing silicates and non volatile silicon compounds (dry ash at 4500C in Pt0 and dissolve by gently warming with 1:1:1 H2O / HF / H2SO4 or fuse / ash with Na2CO3 and dissolve fuseate with HCl / H2O ); Silicone Oils - dimethyl silicones depolymerize to form volatile monomer units when heated (Measure directly in alcoholic KOH / xylene mixture where sample is treated first with the KOH at 60-1000C to "unzip" the Si- O-Si polymeric structure or digest with conc. H2SO4 / H2O2 followed by cooling and dissolution of the dehydrated silica with HF.) Note that the direct analysis of silicone oils in an organic solvent will result in false high results due to high vapor pressure of volatile monomer units like hexamethylcyclotrisiloxane. The KOH forms the K2+Si(CH3)2O= salt which is not volatile at room temperature.

**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 28 amu | 4000 - 8000 ppt | N/A | N2, 12C16O |
| ICP-OES 212.412 nm | 0.02/0.01 µg/mL | 1 | Hf, Os, Mo, Ta |
| ICP-OES 251.611 nm | 0.012/0.003 µg/mL | 1 | Ta, U, Zn, Th |
| ICP-OES 288.158 nm | 0.03/0.004 µg/mL | 1 | Ta, Ce, Cr, Cd, Th |

**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

July 10, 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

- **July 10, 2029**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

### 11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Prepared By:**

Uyen Truong
Custom Processing Supervisor

**Certificate Approved By:**

Muzzammil Khan
Stock Laboratory Supervisor

**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

R->1|B|2S

**Part Number:** 58126
**Lot Number:** 011025
**Description:** Iron (Fe) M6140

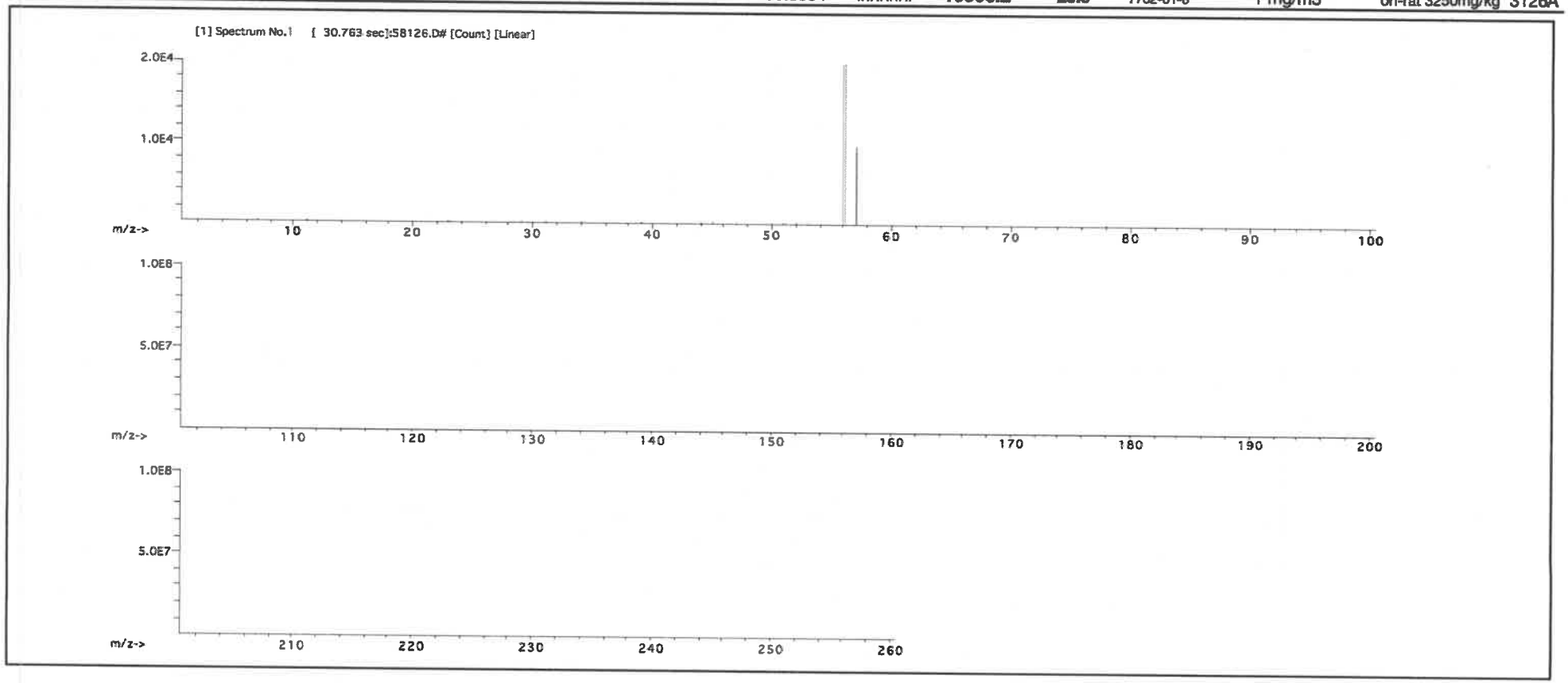
**Expiration Date:** 011028
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 2000.07

| | | Lot # | |
|---|---|---|---|
| **Solvent:** | 24012496 | Nitric Acid | |
| | 2% | 40.0 (mL) | Nitric Acid |

5E-05 Balance Uncertainty
0.100 Flask Uncertainty

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 011025 |
| Reviewed By: | Pedro L. Rentas | 011025 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Iron(III) nitrate nonahydrate (Fe) | IN028 | FED082023A1 | 10000 | 99.999 | 0.10 | 13.0 | 153.8534 | ###### | **10000.2** | **20.0** | 7782-61-8 | 1 mg/m3 | orl-rat 3250mg/kg | 3126A |



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



## Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <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 | T | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

## Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

R-> 1/13/25

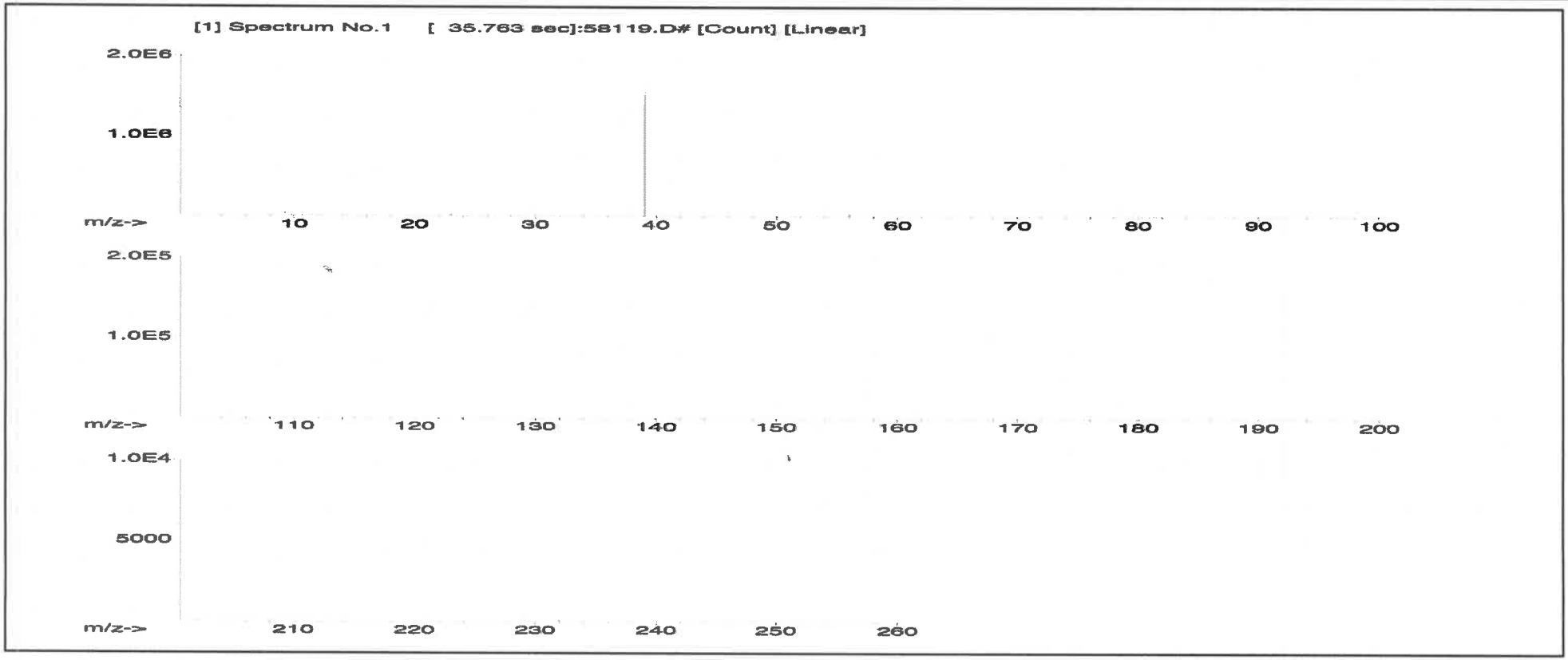
| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **57119** | | **Lot #** | | |
| **Lot Number:** | **103024** | **Solvent:** | 24002546 | Nitric Acid | |
| **Description:** | **Potassium (K)** | 2% | 80.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 103027 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **10000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 4000.1 | 0.15 | Flask Uncertainty | | |

M6141
M6142
M6143

Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 103024 |
| Reviewed By: | Pedro L. Rentas | 103024 |

| 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 | KD062022A1 | 10000 | 99.999 | 0.10 | 37.7 | 106.1040 | ###### | **10001.1** | **20.0** | 7757-79-1 | 5 mg/m3 | orl-rat 3750 mg/kg | 3141a |



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



## Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | T | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

## Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

**Certified by:**



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



## CERTIFIED WEIGHT REPORT:

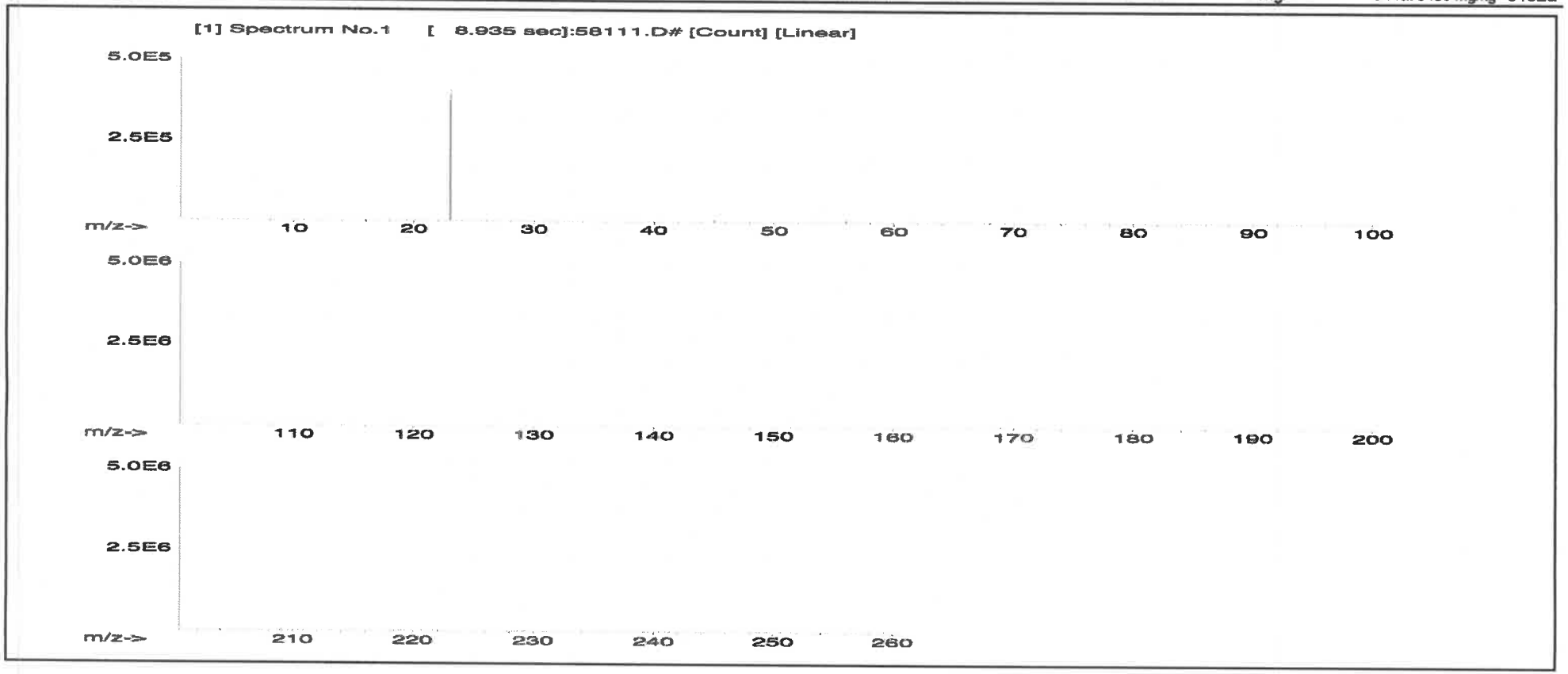
R->1/13/25

M6144

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **58111** | | | **Lot #** | |
| **Lot Number:** | **072424** | **Solvent:** | 24002546 | Nitric Acid | |
| **Description:** | **Sodium (Na)** | | | | |
| | | 2% | 80.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 072427 | | | | |
| **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):** | 4000.2 | 0.10 | Flask Uncertainty | | |

| | |
|---|---|
| Formulated By: | Benson Chan 072424 |
| Reviewed By: | Pedro L. Rentas 072424 |

| 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 | 148.7096 | ###### | **10000.0** | **20.0** | 7631-99-4 | 5 mg/m3 | orl-rat 3430 mg/kg | 3152a |



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | 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 | 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:**

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

## CERTIFIED WEIGHT REPORT:

**Part Number:** 58030
**Lot Number:** 121724
**Description:** Zinc (Zn)

R → 1/13/25

M6145

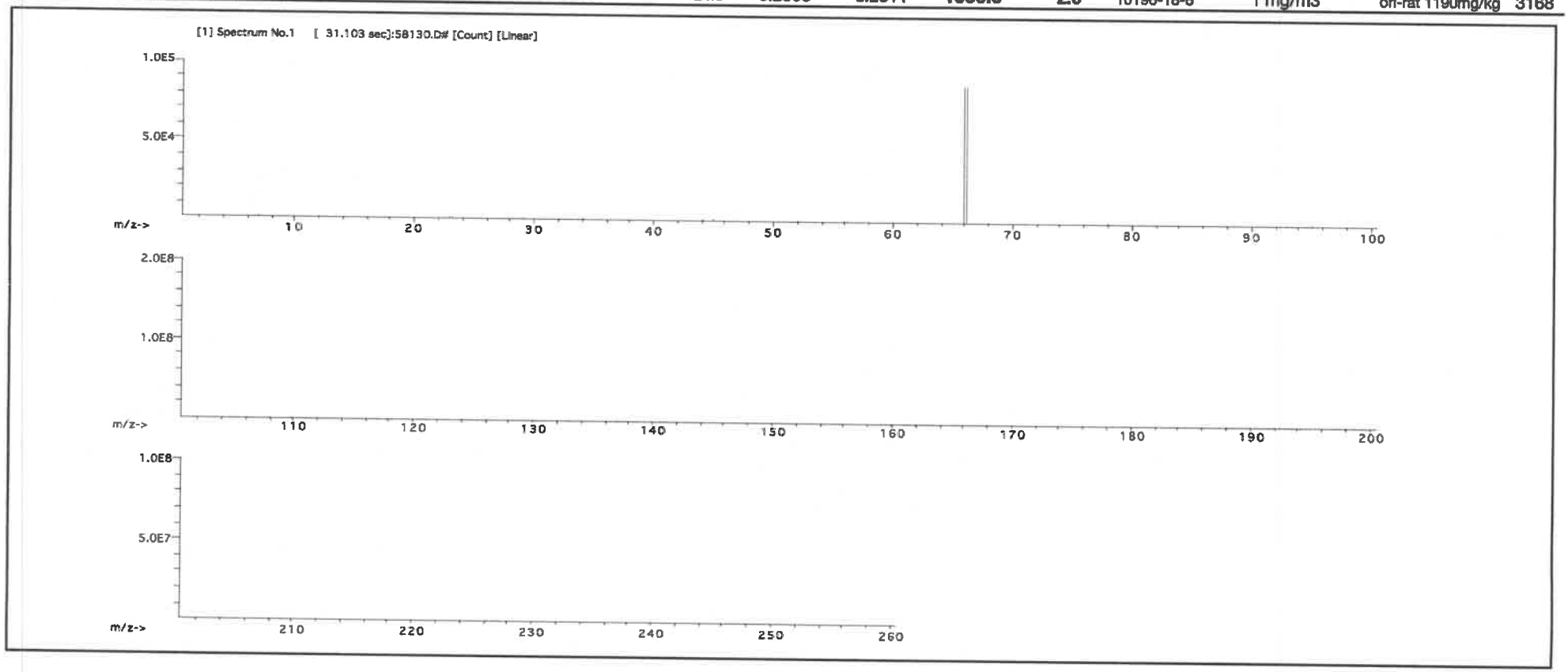
**Expiration Date:** 121727
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB

| | | | | Lot # | |
|---|---|---|---|---|---|
| **Solvent:** | | | 24012496 | Nitric Acid | |
| | 2% | | 40.0 (mL) | Nitric Acid | |
| | | 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 | 121724 |
| Reviewed By: | Pedro L. Rentas | 121724 |

| 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 | 8.2308 | 8.2311 | **1000.0** | **2.0** | 10196-18-6 | 1 mg/m3 | ori-rat 1190mg/kg | 3168 |



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <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:**

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).

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

M6151

R→ 1/15/25

Material No.: 9530-33
Batch No.: 22G2862015
Manufactured Date: 2022-06-15
Retest Date: 2027-06-14
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| ACS – Assay (as HCl) (by acid-base titrn) | 36.5 – 38.0 % | 37.9 % |
| ACS – Color (APHA) | ≤ 10 | 5 |
| ACS – Residue after Ignition | ≤ 3 ppm | < 1 ppm |
| ACS – Specific Gravity at 60°/60°F | 1.185 – 1.192 | 1.191 |
| ACS – Bromide (Br) | ≤ 0.005 % | < 0.005 % |
| ACS – Extractable Organic Substances | ≤ 5 ppm | < 1 ppm |
| ACS – Free Chlorine (as $Cl_2$) | ≤ 0.5 ppm | < 0.5 ppm |
| Phosphate ($PO_4$) | ≤ 0.05 ppm | < 0.03 ppm |
| Sulfate ($SO_4$) | ≤ 0.5 ppm | < 0.3 ppm |
| Sulfite ($SO_3$) | ≤ 0.8 ppm | 0.3 ppm |
| Ammonium ($NH_4$) | ≤ 3 ppm | < 1 ppm |
| Trace Impurities – Arsenic (As) | ≤ 0.010 ppm | < 0.003 ppm |
| Trace Impurities – Aluminum (Al) | ≤ 10.0 ppb | 1.3 ppb |
| Arsenic and Antimony (as As) | ≤ 5.0 ppb | < 3.0 ppb |
| Trace Impurities – Barium (Ba) | ≤ 1.0 ppb | 0.2 ppb |
| Trace Impurities – Beryllium (Be) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities – Bismuth (Bi) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities – Boron (B) | ≤ 20.0 ppb | < 5.0 ppb |
| Trace Impurities – Cadmium (Cd) | ≤ 1.0 ppb | < 0.3 ppb |
| Trace Impurities – Calcium (Ca) | ≤ 50.0 ppb | 163.0 ppb |
| Trace Impurities – Chromium (Cr) | ≤ 1.0 ppb | 0.7 ppb |
| Trace Impurities – Cobalt (Co) | ≤ 1.0 ppb | < 0.3 ppb |
| Trace Impurities – Copper (Cu) | ≤ 1.0 ppb | < 0.1 ppb |
| Trace Impurities – Gallium (Ga) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities – Germanium (Ge) | ≤ 3.0 ppb | < 2.0 ppb |
| Trace Impurities – Gold (Au) | ≤ 4.0 ppb | 0.6 ppb |
| Heavy Metals (as Pb) | ≤ 100 ppb | < 50 ppb |
| Trace Impurities – Iron (Fe) | ≤ 15 ppb | 6 ppb |

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22G2862015

| Test | Specification | Result |
|---|---|---|
| Trace Impurities – Lead (Pb) | ≤ 1.0 ppb | < 0.5 ppb |
| Trace Impurities – Lithium (Li) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities – Magnesium (Mg) | ≤ 10.0 ppb | 2.9 ppb |
| Trace Impurities – Manganese (Mn) | ≤ 1.0 ppb | < 0.4 ppb |
| Trace Impurities – Mercury (Hg) | ≤ 0.5 ppb | 0.1 ppb |
| Trace Impurities – Molybdenum (Mo) | ≤ 10.0 ppb | < 3.0 ppb |
| Trace Impurities – Nickel (Ni) | ≤ 4.0 ppb | < 0.3 ppb |
| Trace Impurities – Niobium (Nb) | ≤ 1.0 ppb | 0.8 ppb |
| Trace Impurities – Potassium (K) | ≤ 9.0 ppb | < 2.0 ppb |
| Trace Impurities – Selenium (Se), For Information Only | | < 1.0 ppb |
| Trace Impurities – Silicon (Si) | ≤ 100.0 ppb | < 10.0 ppb |
| Trace Impurities – Silver (Ag) | ≤ 1.0 ppb | 0.5 ppb |
| Trace Impurities – Sodium (Na) | ≤ 100.0 ppb | 2.3 ppb |
| Trace Impurities – Strontium (Sr) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities – Tantalum (Ta) | ≤ 1.0 ppb | 1.6 ppb |
| Trace Impurities – Thallium (Tl) | ≤ 5.0 ppb | < 2.0 ppb |
| Trace Impurities – Tin (Sn) | ≤ 5.0 ppb | 4.0 ppb |
| Trace Impurities – Titanium (Ti) | ≤ 1.0 ppb | 1.5 ppb |
| Trace Impurities – Vanadium (V) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities – Zinc (Zn) | ≤ 5.0 ppb | 0.8 ppb |
| Trace Impurities – Zirconium (Zr) | ≤ 1.0 ppb | 0.3 ppb |

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22G2862015

| Test | Specification | Result |
|---|---|---|

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R-02102/2025

M-6158

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 |
|---|---|---|
| Trace Impurities - Niobium (Nb) | ≤ 50.0 ppb | < 1.0 ppb |
| Trace Impurities - Potassium (K) | ≤ 50 ppb | 16 ppb |
| Trace Impurities - Silicon (Si) | ≤ 50 ppb | < 10 ppb |
| Trace Impurities - Silver (Ag) | ≤ 20.0 ppb | < 1.0 ppb |
| Trace Impurities - Sodium (Na) | ≤ 150.0 ppb | < 5.0 ppb |
| Trace Impurities - Strontium (Sr) | ≤ 30.0 ppb | < 1.0 ppb |
| Trace Impurities - Tantalum (Ta) | ≤ 10.0 ppb | < 5.0 ppb |
| Trace Impurities - Thallium (Tl) | ≤ 10.0 ppb | < 5.0 ppb |
| Trace Impurities - Tin (Sn) | ≤ 20.0 ppb | < 10.0 ppb |
| Trace Impurities - Titanium (Ti) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Vanadium (V) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Zinc (Zn) | ≤ 20.0 ppb | < 1.0 ppb |
| Trace Impurities - Zirconium (Zr) | ≤ 10.0 ppb | < 1.0 ppb |
| Particle Count - 0.5 µm and greater | ≤ 60 par/ml | 10 par/ml |
| Particle Count - 1.0 µm and greater | ≤ 10 par/ml | 3 par/ml |

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

| Test | Specification | Result |
|---|---|---|

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

m-6162

R. Date :- 04/27/2025

Material No.: 9606-03
Batch No.: 24H0162012
Manufactured Date: 2024-06-28
Retest Date: 2029-06-27
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 | < 1.0 ppb |
| Trace Impurities – Boron (B) | ≤ 10.0 ppb | 0.1 ppb |
| Trace Impurities – Cadmium (Cd) | ≤ 50 ppb | < 1 ppb |
| Trace Impurities – Calcium (Ca) | ≤ 50.0 ppb | 0.3 ppb |
| Trace Impurities – Chromium (Cr) | ≤ 30.0 ppb | 0.1 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 | < 1 ppb |
| Trace Impurities – Gold (Au) | ≤ 20 ppb | < 1 ppb |
| Heavy Metals (as Pb) | ≤ 100 ppb | < 50 ppb |
| Trace Impurities – Iron (Fe) | ≤ 40.0 ppb | < 1.0 ppb |
| Trace Impurities – Lead (Pb) | ≤ 20.0 ppb | < 1.0 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 | < 1.0 ppb |

>>> Continued on page 2 >>>


For questions on this Certificate of Analysis please contact Technical Services at 855 282 6867 or +1 610 386 1700

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24H0162012

| Test | Specification | Result |
|---|---|---|
| Trace Impurities - Niobium (Nb) | ≤ 50.0 ppb | < 1.0 ppb |
| Trace Impurities - Potassium (K) | ≤ 50 ppb | < 1 ppb |
| Trace Impurities - Silicon (Si) | ≤ 50 ppb | 1 ppb |
| Trace Impurities - Silver (Ag) | ≤ 20.0 ppb | < 1.0 ppb |
| Trace Impurities - Sodium (Na) | ≤ 150.0 ppb | < 1.0 ppb |
| Trace Impurities - Strontium (Sr) | ≤ 30.0 ppb | < 1.0 ppb |
| Trace Impurities - Tantalum (Ta) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Thallium (Tl) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Tin (Sn) | ≤ 20.0 ppb | < 1.0 ppb |
| Trace Impurities - Titanium (Ti) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Vanadium (V) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Zinc (Zn) | ≤ 20.0 ppb | < 1.0 ppb |
| Trace Impurities - Zirconium (Zr) | ≤ 10.0 ppb | < 1.0 ppb |
| Particle Count - 0.5 µm and greater | ≤ 60 par/ml | 13 par/ml |
| Particle Count - 1.0 µm and greater | ≤ 10 par/ml | 5 par/ml |

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24H0162012

| Test | Specification | Result |
|---|---|---|

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

INORGANIC VENTURES™
Refine your results. Redefine your industry.

# Certificate of Analysis

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: | QCP-CICV-1 |
| Lot Number: | V2-MEB744107 |
| Matrix: | 7% (v/v) HNO3 |
| Value / Analyte(s): | 2 500 µg/mL ea:<br>Calcium, Potassium,<br>Magnesium, Sodium,<br>1 000 µg/mL ea:<br>Aluminum, Barium,<br>500 µg/mL ea:<br>Iron,<br>250 µg/mL ea:<br>Nickel, Vanadium,<br>Zinc, Cobalt,<br>Manganese,<br>125 µg/mL ea:<br>Silver, Copper,<br>100 µg/mL ea:<br>Chromium,<br>25 µg/mL ea:<br>Beryllium |

**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 |
|---|---|---|---|
| Aluminum, Al | 1 000 ± 4 µg/mL | Barium, Ba | 1 000 ± 6 µg/mL |
| Beryllium, Be | 24.98 ± 0.12 µg/mL | Calcium, Ca | 2 500 ± 8 µg/mL |
| Chromium, Cr | 99.9 ± 0.6 µg/mL | Cobalt, Co | 250.2 ± 1.2 µg/mL |
| Copper, Cu | 125.0 ± 0.5 µg/mL | Iron, Fe | 500.0 ± 2.2 µg/mL |
| Magnesium, Mg | 2 500 ± 11 µg/mL | Manganese, Mn | 249.9 ± 1.1 µg/mL |
| Nickel, Ni | 250.0 ± 1.2 µg/mL | Potassium, K | 2 500 ± 11 µg/mL |
| Silver, Ag | 125.0 ± 0.6 µg/mL | Sodium, Na | 2 500 ± 11 µg/mL |
| Vanadium, V | 250.0 ± 1.1 µg/mL | Zinc, Zn | 249.9 ± 1.1 µg/mL |

**Density:** 1.081 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 |
| Cu | ICP Assay | 3114 | 120618 |
| 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 | 200413 |
| Na | Gravimetric | | See Sec. 4.2 |
| Ni | ICP Assay | 3136 | 120619 |
| Ni | EDTA | 928 | 928 |
| V | ICP Assay | 3165 | 160906 |
| V | EDTA | 928 | 928 |
| Zn | ICP Assay | 3168a | 120629 |
| Zn | EDTA | 928 | 928 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### Characterization of CRM/RM by Two or More Methods

**Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:**

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

$X_i$ = mean of Assay Method i with standard uncertainty $u_{char\ i}$

$w_i$ = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$**

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

**Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:**

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

$X_a$ = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$**

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

## 6.0 INTENDED USE

**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**

**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

May 22, 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

- **May 22, 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

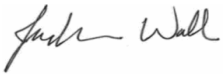
**Certificate Prepared By:**

Justin Dirico
Stock Processing Supervisor



**Certificate Approved By:**

Jodie Wall
Stock VSM Coordinator



**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: | QCP-CICV-2 |
| Lot Number: | U2-MEB733713 |
| Matrix: | 3% (w/v) Tartaric acid<br>1% (v/v) HNO3 |
| Value / Analyte(s): | 500 µg/mL ea:<br>Antimony |

**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 |
|---|---|---|---|
| **Antimony, Sb** | **500.0 ± 2.8 µg/mL** | | |

**Density:** 1.017 g/mL (measured at 20 ± 4 ºC)

### Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---|---|---|---|
| Sb | ICP Assay | 3102a | 140911 |

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

**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

June 01, 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

**- June 01, 2028**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

### 11.3 Period of Validity

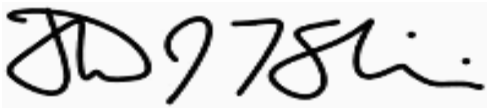
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Thomas Kozikowski
Manager, Quality Control



**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director



INORGANIC VENTURES™
Refine your results. Redefine your industry.

# Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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: | QCP-CICV-3 |
| Lot Number: | V2-MEB749572 |
| Matrix: | 7% (v/v) HNO3 |
| Value / Analyte(s): | 500 µg/mL ea:<br>Arsenic, Lead,<br>Selenium, Thallium,<br><br>250 µg/mL ea:<br>Cadmium |

**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 |
|---|---|---|---|
| **Arsenic, As** | **500.0 ± 3.1 µg/mL** | **Cadmium, Cd** | **250.1 ± 1.1 µg/mL** |
| **Lead, Pb** | **500.0 ± 2.3 µg/mL** | **Selenium, Se** | **500.0 ± 3.2 µg/mL** |
| **Thallium, Tl** | **500.0 ± 3.0 µg/mL** | | |

**Density:** 1.040 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

**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

January 02, 2025

- 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 02, 2030**

- 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

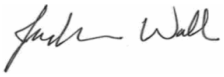
**Certificate Prepared By:**

Justin Dirico
Stock Processing Supervisor



**Certificate Approved By:**

Jodie Wall
Stock VSM Coordinator



**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director



R -> 013125

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

M 6171

**Part Number:** 58112
**Lot Number:** 011525
**Description:** Magnesium (Mg)

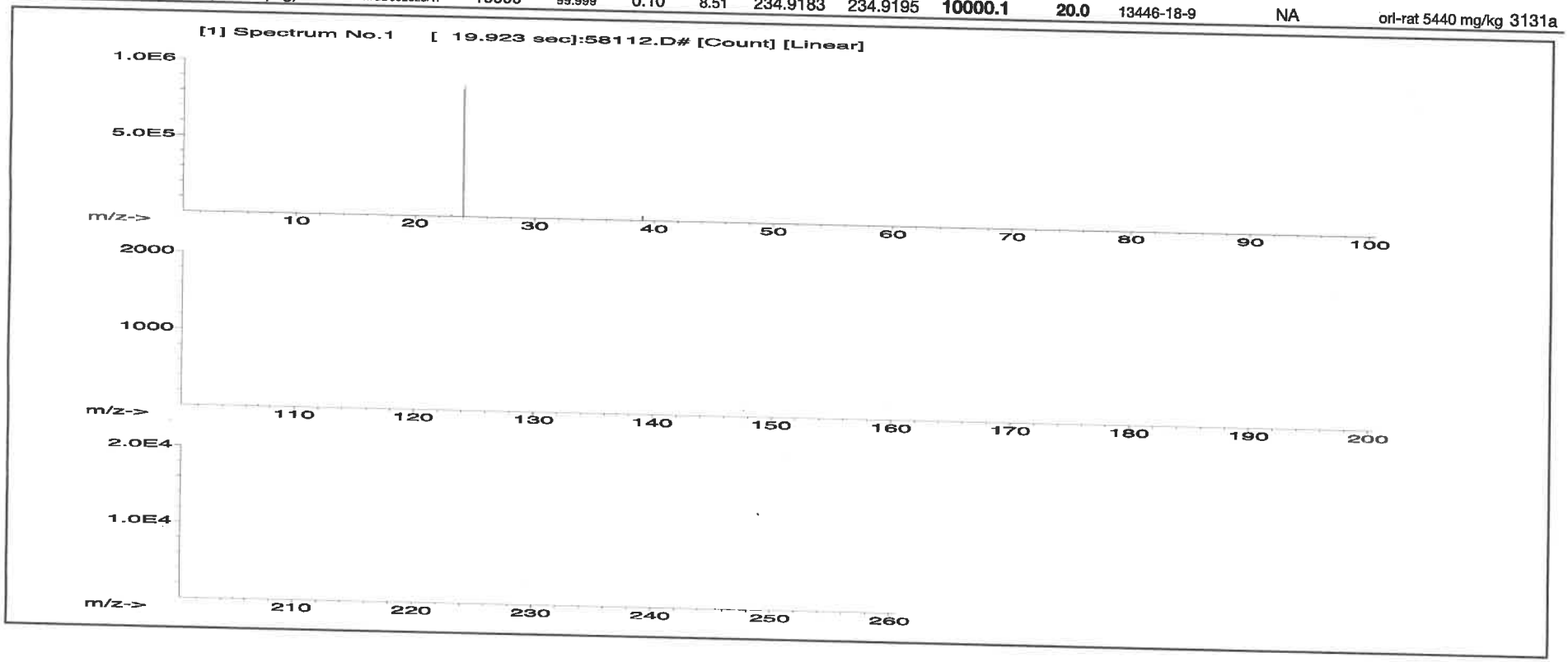
**Expiration Date:** 011528
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 2000.07

| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 24012496 | Nitric Acid | |
| | 2% | 40.0 (mL) | Nitric Acid |
| | 5E-05 | Balance Uncertainty | |
| | 0.100 | Flask Uncertainty | |

Formulated By: Benson Chan 011525

Reviewed By: Pedro L. Rentas 011525

| 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 | 234.9183 | 234.9195 | **10000.1** | **20.0** | 13446-18-9 | NA | orl-rat 5440 mg/kg | 3131a |



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



## Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <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).

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

M6174
R->5/5/24

## 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 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: | V2-MEB742428 |
| Matrix: | 5% (v/v) HNO3 |
| Value / Analyte(s): | 5 000 µg/mL ea: |
| | Calcium, Potassium, |
| | Magnesium, Sodium, |
| | 2 000 µg/mL ea: |
| | Aluminum, Barium, |
| | 1 000 µg/mL ea: |
| | Iron, |
| | 500 µg/mL ea: |
| | Nickel, Vanadium, |
| | Zinc, Cobalt, |
| | Manganese, |
| | 250 µg/mL ea: |
| | Silver, Copper, |
| | 200 µg/mL ea: |
| | Chromium, |
| | 50 µg/mL ea: |
| | Beryllium |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|---|---|---|---|
| Aluminum, Al | 2 000 ± 7 µg/mL | Barium, Ba | 2 000 ± 9 µg/mL |
| Beryllium, Be | 50.03 ± 0.30 µg/mL | Calcium, Ca | 5 000 ± 16 µg/mL |
| Chromium, Cr | 200.0 ± 1.1 µg/mL | Cobalt, Co | 500.0 ± 2.3 µg/mL |
| Copper, Cu | 250.0 ± 1.1 µg/mL | Iron, Fe | 1 000 ± 4 µg/mL |
| Magnesium, Mg | 5 000 ± 22 µg/mL | Manganese, Mn | 499.9 ± 2.2 µg/mL |
| Nickel, Ni | 500.1 ± 2.3 µg/mL | Potassium, K | 5 000 ± 22 µg/mL |
| Silver, Ag | 250.0 ± 1.1 µg/mL | Sodium, Na | 5 000 ± 22 µg/mL |
| Vanadium, V | 500.0 ± 2.2 µg/mL | Zinc, Zn | 500.0 ± 2.2 µg/mL |

**Density:** 1.117 g/mL (measured at 20 ± 4 °C)

## 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 |
| Ca | ICP Assay | 3109a | 130213 |
| Ca | EDTA | 928 | 928 |
| Co | ICP Assay | 3113 | 190630 |
| Co | EDTA | 928 | 928 |
| Cr | ICP Assay | 3112a | 170630 |
| Cu | ICP Assay | 3114 | 120618 |
| 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 | 200413 |
| Na | Gravimetric | | See Sec. 4.2 |
| Ni | ICP Assay | 3136 | 120619 |
| Ni | EDTA | 928 | 928 |
| V | ICP Assay | 3165 | 160906 |
| V | EDTA | 928 | 928 |
| Zn | ICP Assay | 3168a | 120629 |
| Zn | EDTA | 928 | 928 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### Characterization of CRM/RM by Two or More Methods

**Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:**

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

$X_i$ = mean of Assay Method i with standard uncertainty $u_{char\ i}$

$w_i$ = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/u_{char\ i})^2)$

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$**

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

**Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:**

$X_{CRM/RM} = (X_a)(u_{char\ a})$

$X_a$ = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$**

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

## 6.0 INTENDED USE

**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**

**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

March 22, 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 22, 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:**

Jodie Wall
Stock VSM Coordinator



**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



CERTIFIED WEIGHT REPORT:

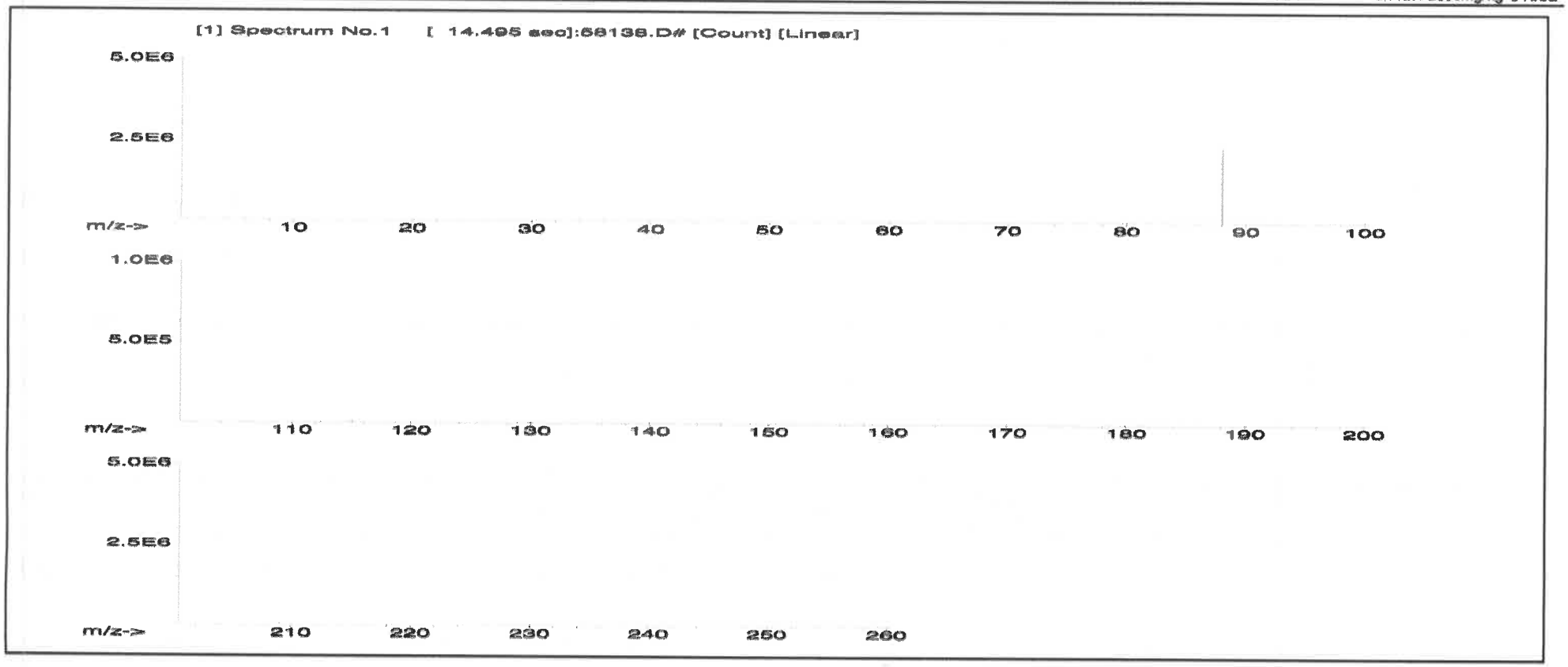
R->8/6/25

M6176

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **57038** | | **Lot #** | | |
| **Lot Number:** | **092724** | **Solvent:** | 24002546 | Nitric Acid | |
| **Description:** | **Strontium (Sr)** | 2% | 40.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 092727 | | | | |
| **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 | 092724 |
| Reviewed By: | Pedro L. Rentas | 092724 |

| 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 | 4.85481 | **1000.0** | **2.0** | 10042-76-9 | NA | orl-rat >2000mg/kg | 3153a |



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



## Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <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*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



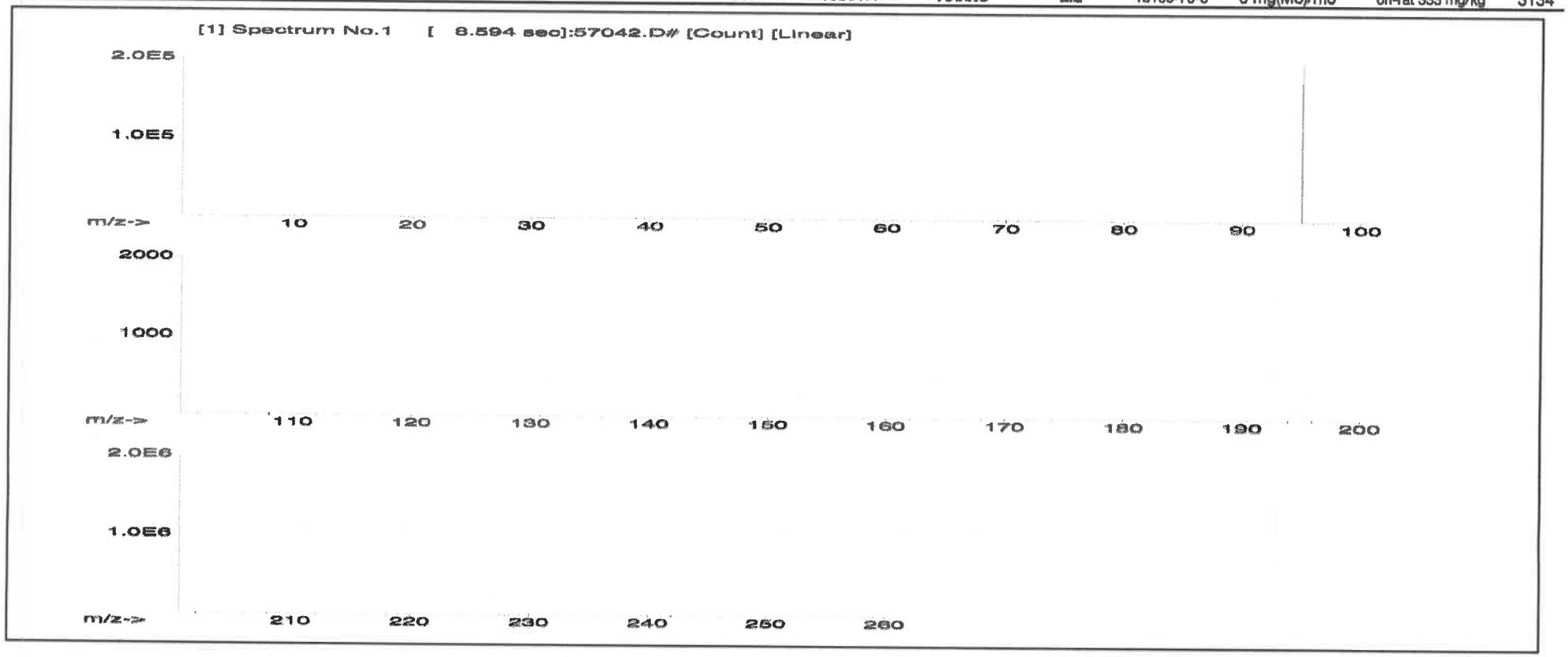
## CERTIFIED WEIGHT REPORT:

R→ 8/6/25
M6177

| | | Lot # | Solvent: | | |
|---|---|---|---|---|---|
| **Part Number:** | 57042 | MKBQ8597V | Ammonium hydroxide | | |
| **Lot Number:** | 080525 | 080525 | ASTM Type 1 Water | | |
| **Description:** | Molybdenum (Mo) | 0.5% | 10.0 (mL) | Ammonium hydroxide | |
| **Expiration Date:** | 080528 | | | | |
| **Recommended Storage:** | Ambient (15 - 30 °C) | | | | |
| **Nominal Concentration (µg/mL):** | 1000 | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Volume shown below was diluted to (mL):** | 1999.41 | 0.058 | Flask Uncertainty | | |

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 080525 |
| Reviewed By: | Pedro L. Rentas | 080525 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Ammonium molybdate (Mo) | 58142 | 112322 | 0.1000 | 200.0 | 0.084 | 1000 | 10001.4 | **1000.5** | **2.2** | 13106-76-8 | 5 mg(Mo)/m3 | orl-rat 333 mg/kg | 3134 |



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



## Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | T | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

## Physical Characterization:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

**Certified by:**

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware, and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated by an ISO17025 certified organization with weights traceable through NIST to the SI kilogram (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).
Rev 1.0, 2/25/2025

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



## CERTIFIED WEIGHT REPORT:

R>8/6/28
M6178

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **57082** | | **Lot #** | | |
| **Lot Number:** | **031525** | **Solvent:** | 24014457 | Nitric Acid | |
| **Description:** | **Lead (Pb)** | | 2% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 031528 | | | | |
| **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 | 0.10 | Flask Uncertainty | | |

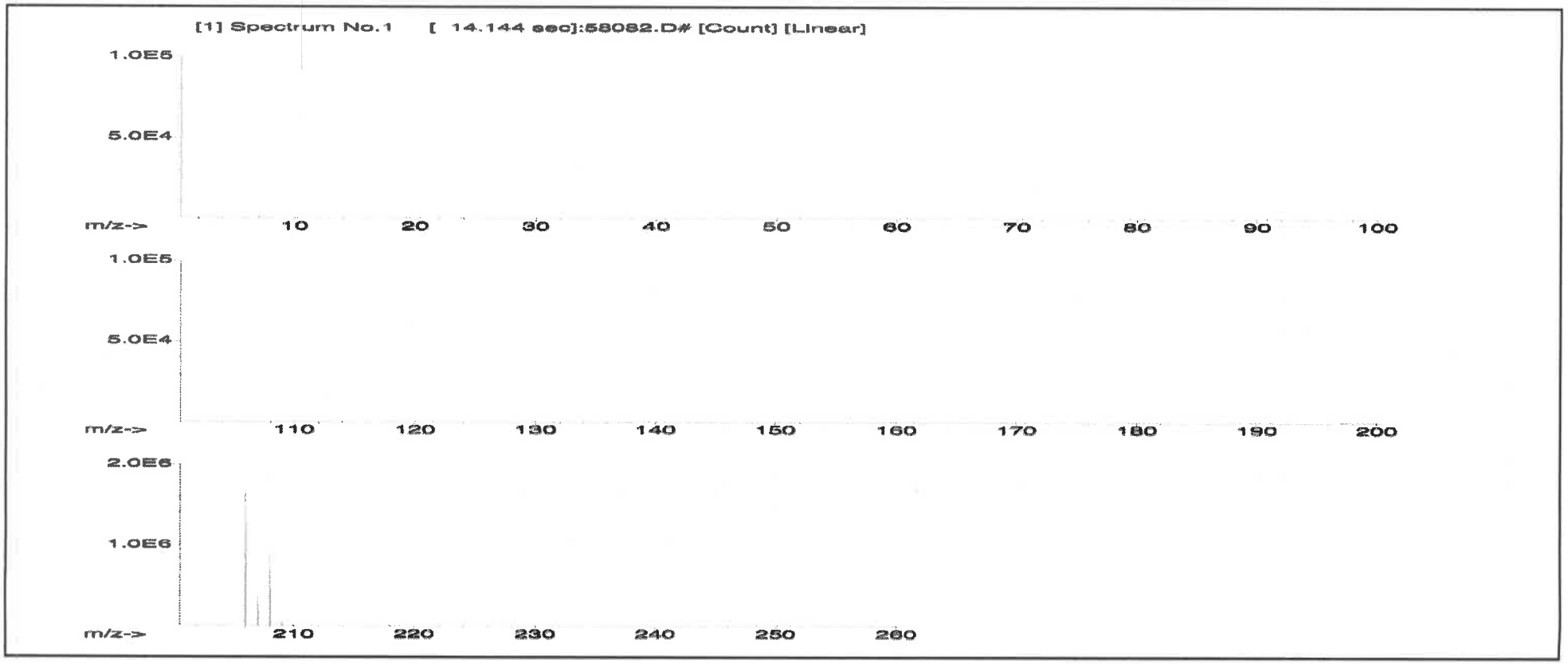
Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 031525 |

Pedro Rentas

| | | |
|---|---|---|
| Reviewed By: | Pedro L. Rentas | 031525 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Lead(II) nitrate (Pb) | IN029 | PBD122016A1 | 1000 | 99.999 | 0.10 | 62.5 | 3.20015 | 3.20067 | **1000.2** | **2.0** | 10099-74-8 | 0.05 mg/m3 | intrvns-rat 93 mg/kg | 3128 |



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | 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 | 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).

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

M6179
R -> 6/2/24

## 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 883.01
ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Single Analyte Custom Grade Solution |
| Catalog Number: | CGY10 |
| Lot Number: | V2-Y740548 |
| Matrix: | 2% (v/v) HNO3 |
| Value / Analyte(s): | 10 000 µg/mL ea: Yttrium |
| Starting Material: | Yttrium Oxide |
| Starting Material Lot#: | 2661 and 06230520YL |
| Starting Material Purity: | 99.9984% |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10000 ± 30 µg/mL

**Density:** 1.032 g/mL (measured at 20 ± 4 °C)

### Assay Information:

**Assay Method #1** — **10011 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

**Assay Method #2** — **9997 ± 50 µg/mL**
ICP Assay NIST SRM 3167a Lot Number: 190730

**Assay Method #3** — **9984 ± 31 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### Characterization of CRM/RM by Two or More Methods

**Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:**

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

$X_i$ = mean of Assay Method i with standard uncertainty $u_{char\ i}$

$w_i$ = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$**

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 | < | 0.004600 | 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



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).

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Multi Analyte Custom Grade Solution |
| Catalog Number: | WW-LFS-1 |
| Lot Number: | W2-MEB752149 |
| Matrix: | 5% (v/v) HNO3 |

M6180
R-7/22/23

| | | |
|---|---|---|
| Value / Analyte(s): | 1 000 µg/mL ea:<br>Potassium, | |
| | 600 µg/mL ea:<br>Phosphorus, | |
| | 300 µg/mL ea:<br>Sodium, | Iron, |
| | 200 µg/mL ea:<br>Magnesium,<br>Cerium,<br>Thallium, | Aluminum,<br>Selenium, |
| | 100 µg/mL ea:<br>Lead, | Calcium, |
| | 80 µg/mL ea:<br>Arsenic, | |
| | 70 µg/mL ea:<br>Mercury, | |
| | 50 µg/mL ea:<br>Nickel, | |
| | 40 µg/mL ea:<br>Chromium, | |
| | 30 µg/mL ea:<br>Copper,<br>Vanadium, | Boron, |
| | 20 µg/mL ea:<br>Zinc,<br>Barium,<br>Cadmium,<br>Manganese, | Strontium,<br>Beryllium,<br>Cobalt,<br>Lithium, |
| | 7.5 µg/mL ea:<br>Silver | |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|---|---|---|---|
| Aluminum, Al | 200.2 ± 0.7 µg/mL | Arsenic, As | 80.1 ± 0.5 µg/mL |
| Barium, Ba | 20.02 ± 0.12 µg/mL | Beryllium, Be | 20.02 ± 0.11 µg/mL |
| Boron, B | 30.02 ± 0.15 µg/mL | Cadmium, Cd | 20.04 ± 0.09 µg/mL |
| Calcium, Ca | 100.1 ± 0.3 µg/mL | Cerium, Ce | 200.2 ± 1.0 µg/mL |
| Chromium, Cr | 40.02 ± 0.26 µg/mL | Cobalt, Co | 20.03 ± 0.09 µg/mL |
| Copper, Cu | 30.03 ± 0.13 µg/mL | Iron, Fe | 300.3 ± 1.3 µg/mL |
| Lead, Pb | 100.1 ± 0.5 µg/mL | Lithium, Li | 20.03 ± 0.09 µg/mL |
| Magnesium, Mg | 200.2 ± 0.9 µg/mL | Manganese, Mn | 19.99 ± 0.09 µg/mL |
| Mercury, Hg | 70.0 ± 0.3 µg/mL | Nickel, Ni | 50.05 ± 0.22 µg/mL |
| Phosphorus, P | 600.5 ± 2.9 µg/mL | Potassium, K | 1 001 ± 4 µg/mL |
| Selenium, Se | 200.2 ± 1.1 µg/mL | Silver, Ag | 7.52 ± 0.03 µg/mL |
| Sodium, Na | 300.3 ± 1.3 µg/mL | Strontium, Sr | 20.02 ± 0.10 µg/mL |
| Thallium, Tl | 200.2 ± 1.0 µg/mL | Vanadium, V | 30.02 ± 0.13 µg/mL |
| Zinc, Zn | 20.05 ± 0.09 µg/mL | | |

**Density:** 1.037 g/mL (measured at 20 ± 5 °C)

**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 |
| As | ICP Assay | 3103a | 100818 |
| B | ICP Assay | 3107 | 190605 |
| B | Calculated | | See Sec. 4.2 |
| Ba | ICP Assay | 3104a | 140909 |
| Ba | Gravimetric | | See Sec. 4.2 |
| Be | ICP Assay | 3105a | 090514 |
| Ca | ICP Assay | 3109a | 130213 |
| Ca | EDTA | 928 | 928 |
| Cd | ICP Assay | 3108 | 130116 |
| Cd | EDTA | 928 | 928 |
| Ce | ICP Assay | 3110 | 160830 |
| Ce | EDTA | 928 | 928 |
| Co | ICP Assay | 3113 | 190630 |
| Co | EDTA | 928 | 928 |
| Cr | ICP Assay | 3112a | 170630 |
| Cu | ICP Assay | 3114 | 120618 |
| Cu | EDTA | 928 | 928 |
| Fe | ICP Assay | 3126a | 140812 |
| Fe | EDTA | 928 | 928 |
| Hg | ICP Assay | 3133 | 160921 |
| Hg | EDTA | 928 | 928 |
| K | ICP Assay | 3141a | 140813 |
| K | Gravimetric | | See Sec. 4.2 |
| Li | ICP Assay | 3129a | 100714 |
| Li | 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 | 200413 |
| Na | Gravimetric | | See Sec. 4.2 |
| Ni | ICP Assay | 3136 | 120619 |
| Ni | EDTA | 928 | 928 |
| P | ICP Assay | 3139a | 060717 |
| P | Acidimetric | 84L | 84L |
| Pb | ICP Assay | 3128 | 101026 |
| Pb | EDTA | 928 | 928 |
| Se | ICP Assay | 3149 | 100901 |
| Sr | EDTA | 928 | 928 |
| Sr | ICP Assay | Traceable to 3153a | K2-SR650985 |
| Tl | ICP Assay | 3158 | 151215 |
| V | ICP Assay | 3165 | 160906 |
| V | EDTA | 928 | 928 |
| Zn | ICP Assay | 3168a | 120629 |
| Zn | EDTA | 928 | 928 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### Characterization of CRM/RM by Two or More Methods

**Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:**

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

$X_i$ = mean of Assay Method i with standard uncertainty $u_{char\ i}$

$w_i$ = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$**

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

**Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:**

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

$X_a$ = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$**

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

## 6.0 INTENDED USE

**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° - 25° C to minimize the effects of transpiration. Use at 20° ± 5° 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

April 08, 2025

- 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

- **April 08, 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:**

Justin Dirico
Stock Processing Supervisor



**Certificate Approved By:**

Jodie Wall
Stock VSM Coordinator



**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

M6181
R->7/22/28

## 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: | WW-LFS-2 |
| Lot Number: | V2-MEB743480 |
| Matrix: | 5% (v/v) HNO3<br>tr. HF |
| Value / Analyte(s): | 200 µg/mL ea:<br>Silica,<br>80 µg/mL ea:<br>Antimony,<br>70 µg/mL ea:<br>Tin,<br>40 µg/mL ea:<br>Molybdenum,<br>20 µg/mL ea:<br>Titanium |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|---|---|---|---|
| Antimony, Sb | 80.1 ± 0.5 µg/mL | Molybdenum, Mo | 40.05 ± 0.22 µg/mL |
| Silica, SiO2 | 200.3 ± 1.4 µg/mL | Tin, Sn | 70.1 ± 0.4 µg/mL |
| Titanium, Ti | 20.03 ± 0.12 µg/mL | | |

**Density:** 1.025 g/mL (measured at 20 ± 4 °C)

### Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---|---|---|---|
| Mo | ICP Assay | 3134 | 130418 |
| Sb | ICP Assay | 3102a | 140911 |
| SiO2 | Calculated | | See Sec. 4.2 |
| Sn | ICP Assay | 3161a | 140917 |
| Ti | ICP Assay | traceable to 3162a | T2-TI725816 |

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

**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**

**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

May 07, 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

**- May 07, 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:**

Justin Dirico
Stock Processing Supervisor



**Certificate Approved By:**

Thomas Kozikowski
Stock VS Manager



**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.

M6182

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 |

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.

## 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

M6184

### (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 |

The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 1 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

## *Certified Reference Material CRM*

M6027

R1 8/05/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



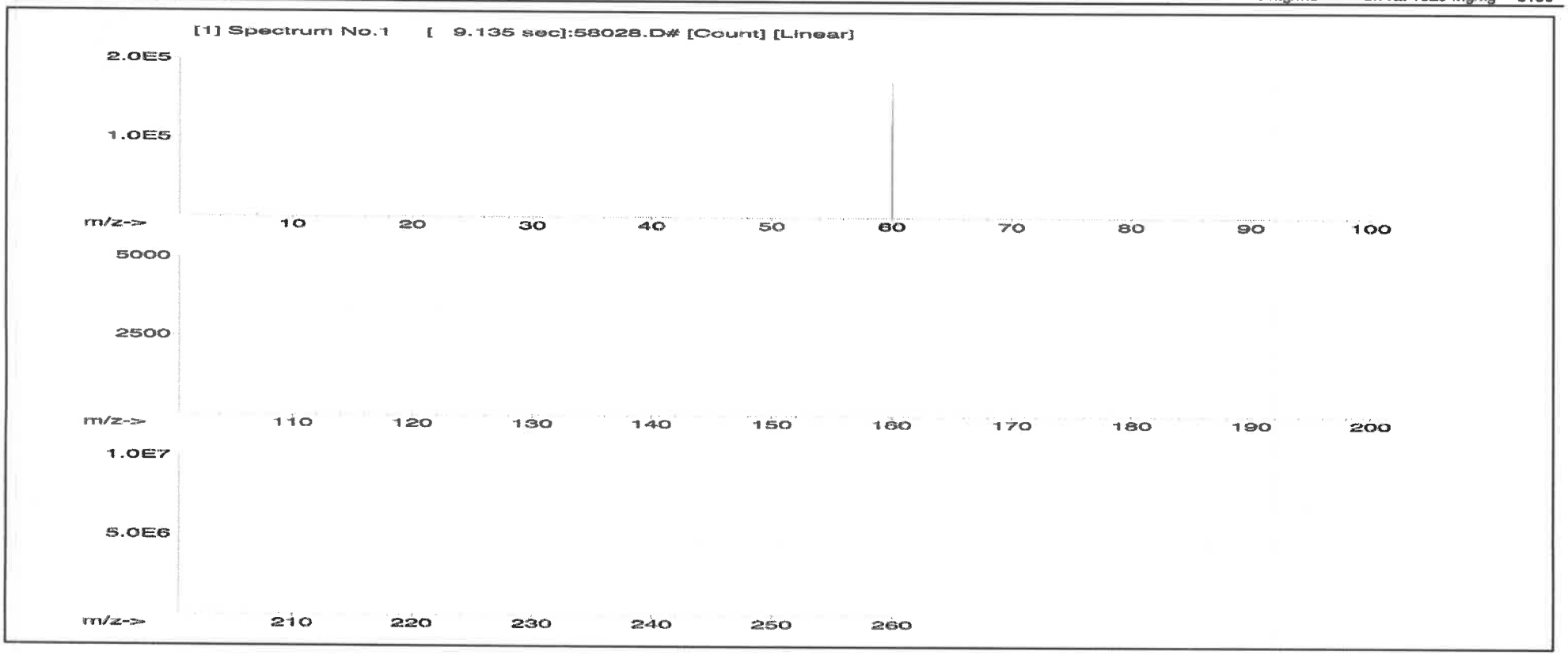
CERTIFIED WEIGHT REPORT:

| | |
|---|---|
| **Part Number:** | **57028** |
| **Lot Number:** | **062024** |
| **Description:** | **Nickel (Ni)** |
| **Expiration Date:** | 062027 |
| **Recommended Storage:** | Ambient (20 °C) |
| **Nominal Concentration (µg/mL):** | **1000** |
| **NIST Test Number:** | 6UTB |
| **Volume shown below was diluted to (mL):** | 2000.07 |

| Lot # | Solvent: | | |
|---|---|---|---|
| 24002546 | Nitric Acid | | |
| 2.0% | 40.0 (mL) | Nitric Acid | |
| | 5E-05 | Balance Uncertainty | |
| | 0.100 | Flask Uncertainty | |

| | | |
|---|---|---|
| Formulated **By:** | Benson Chan | 062024 |
| Reviewed By: | Pedro L. Rentas | 062024 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Nickel(II) nitrate hexahydrate (Ni) | 58128 | 062023 | 0.1000 | 200.0 | 0.084 | 1000 | 10000.4 | **1000.0** | 2.2 | 13478-00-7 | 1 mg/m3 | orl-rat 1620 mg/kg | 3136 |



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | T | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

**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***

M6030

R: 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

**Part Number:** 57047
**Lot Number:** 122823
**Description:** Silver (Ag)

**Expiration Date:** 122826
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB

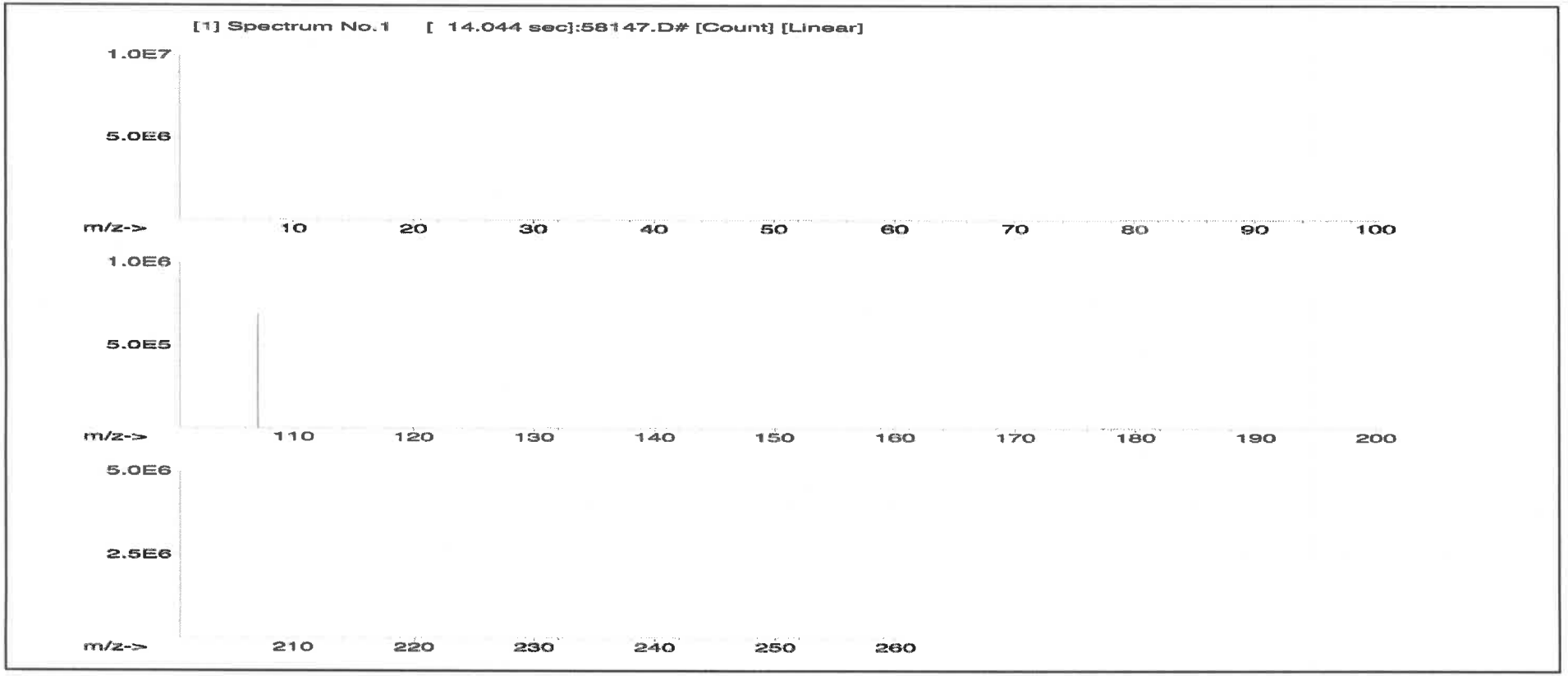
**Weight shown below was diluted to (mL):** 4000.30 0.058 Flask Uncertainty

| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 24002546 | Nitric Acid | |
| 2% | 80.0 (mL) | Nitric Acid | |

5E-05 Balance 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 |






Q2814-METALS

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | T | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

R: 10/18/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

MG146

**Part Number:** 57051
**Lot Number:** 071724
**Description:** Antimony (Sb)
**Expiration Date:** 071727
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB
**Volume shown below was diluted to (mL):** 2000.26

| Lot # | Solvent: | | |
|---|---|---|---|
| 24002546 | Nitric Acid | | |
| 2.0% | 40.0 (mL) | Nitric Acid | |

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

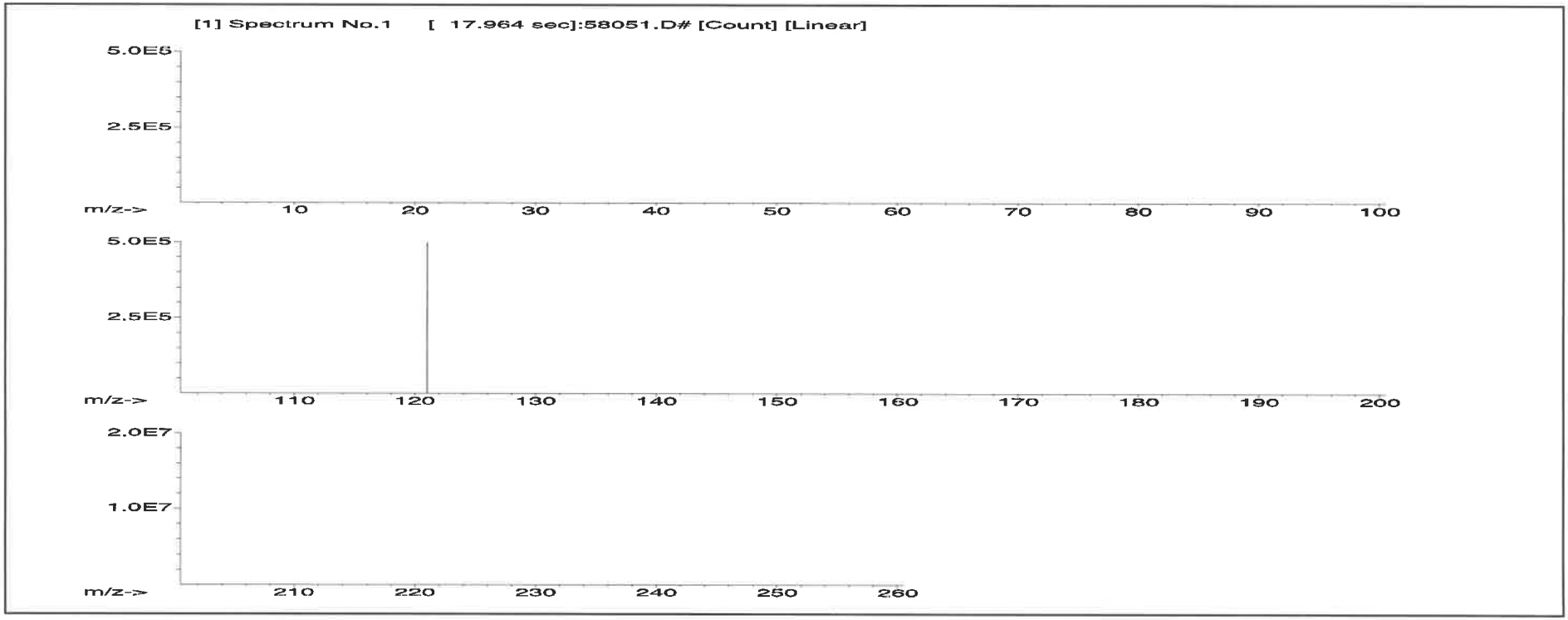
Giovanni Esposito

| Formulated By: | Giovanni Esposito | 071724 |
|---|---|---|

Pedro Rentas

| Reviewed By: | Pedro L. Rentas | 071724 |
|---|---|---|

| 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 | 060324 | 0.1000 | 200.0 | 0.084 | 1000 | 10001.4 | **1000.0** | **2.2** | 7440-36-0 | 0.5 mg/m3 | orl-rat 7000 mg/kg | 3102a |



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | T | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

**Certified by:**

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

M6023

R ! 8/5/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

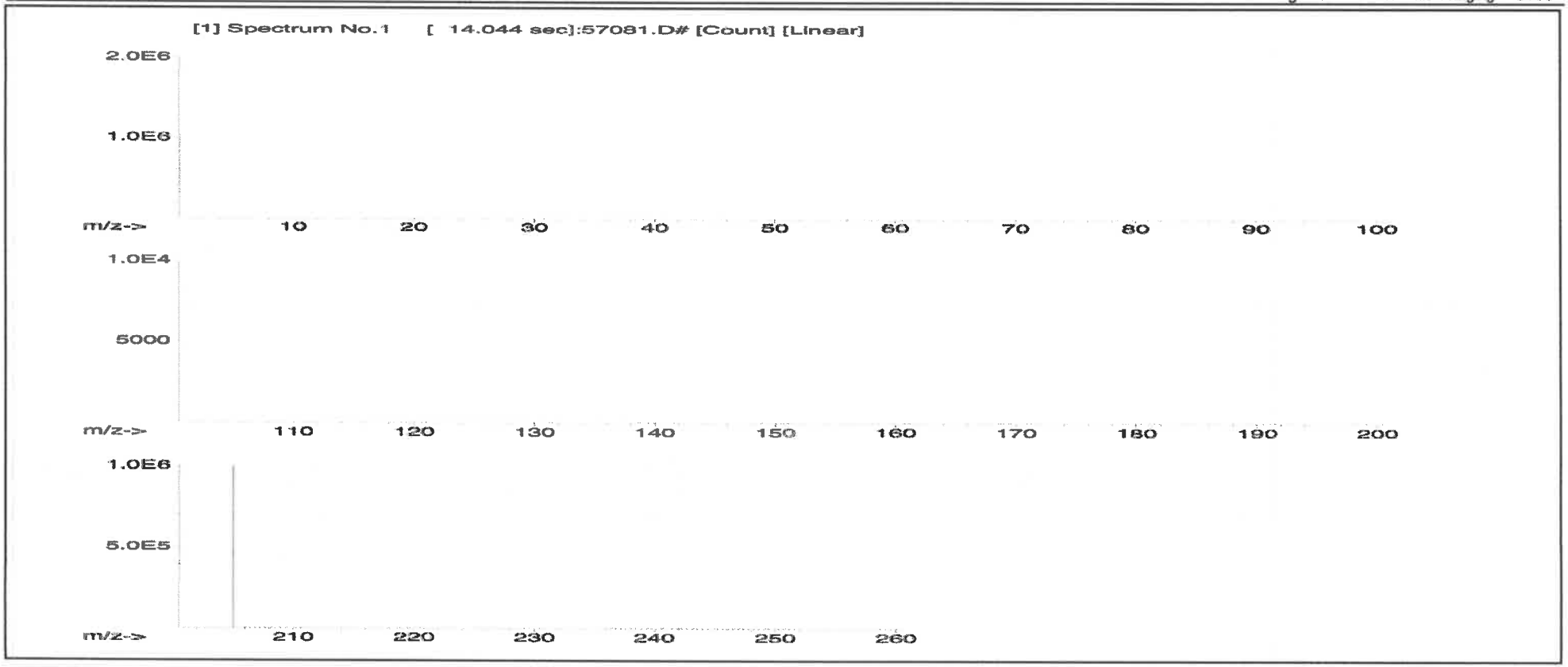
CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **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 |

| 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 |



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <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



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 | |

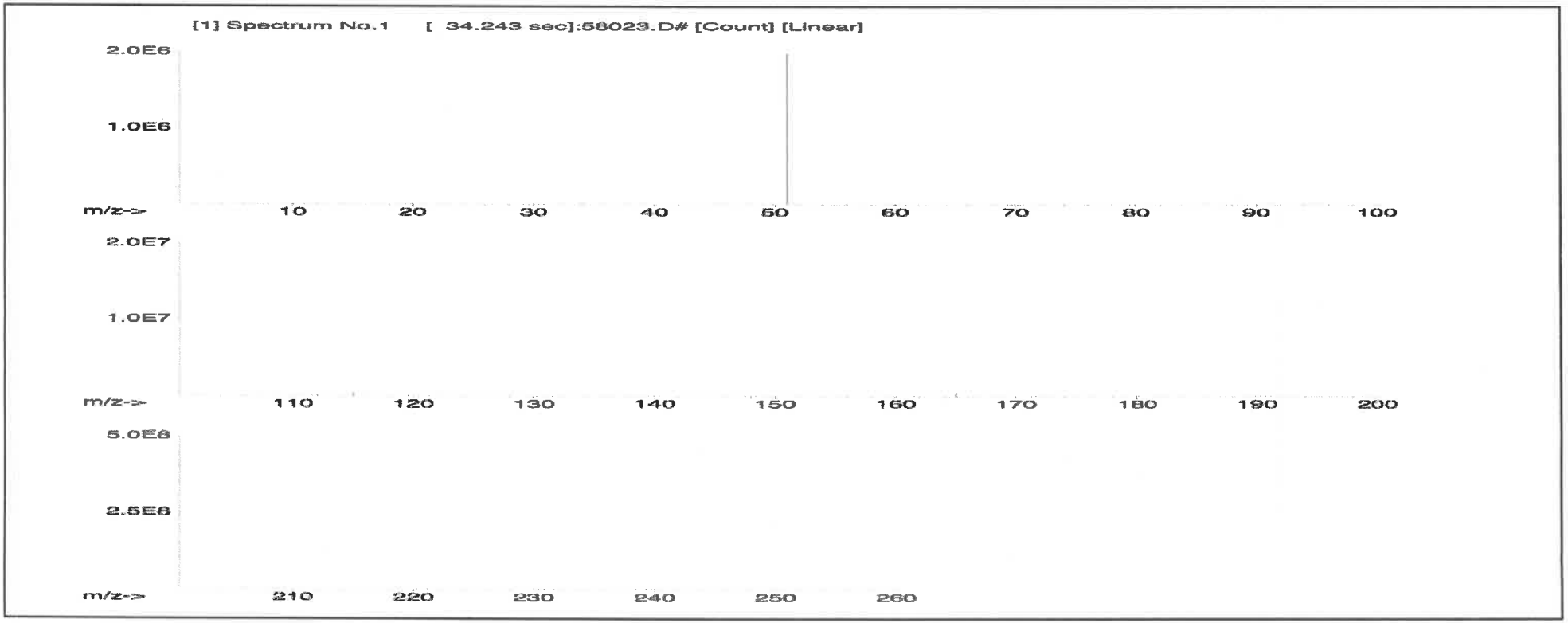
Aleah O'Brady

| 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 |



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <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).

# SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 · Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q2814
COC Number 2045325

**CLIENT INFORMATION**

REPORT TO BE SENT TO:
COMPANY: First Environment Inc
ADDRESS: 10 Park Place
CITY Butler STATE: NJ ZIP: 07405
ATTENTION: Al Smith
PHONE: 973-334-0003 FAX:

**CLIENT PROJECT INFORMATION**

PROJECT NAME: USACE FIMP
PROJECT NO.: USACE 018-44 LOCATION: Long Island
PROJECT MANAGER: Al Smith
e-mail: AlSmith@FirstEnvironment
PHONE: 973-334-0003 FAX:

**CLIENT BILLING INFORMATION**

BILL TO: Same PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

**DATA TURNAROUND INFORMATION**

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: 10 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

**DATA DELIVERABLE INFORMATION**

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☒ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other _____
☒ EDD FORMAT _____

**ANALYSIS**

1: VOC 2: SVOC 3: Metals 4: Pest 5: PCB 6 7 8 9

| ALLIANCE SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | PRESERVATIVES 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | TW-84SB-G | GW | | X | 8/5/25 | 01:52 | 3 | 2 | 1 | | 1 | 1 | | | | | |
| 2. | TW-17M-N | GW | | X | 8/5/25 | 05:17 | 3 | 2 | 1 | | | | | | | | |
| 3. | TW-17M-W | GW | | X | 8/5/25 | 04:51 | 8 | 2 | 3 | 3 | | | | | | | |
| 4. | TW-82H-N | GW | | X | 8/6/25 | 02:00 | 3 | 2 | 1 | | | | | | | | |
| 5. | TW-82M-E | GW | | X | 8/6/25 | 12:30 | 3 | 2 | 1 | | | | | | | | |
| 6. | TW-82H-S | GW | | X | 8/6/25 | 01:00 | 3 | 2 | 1 | | | | | | | | |
| 7. | TW-82H-W | GW | | X | 8/6/25 | 01:15 | 3 | 2 | 1 | | | | | | | | |
| 8. | TW-38M-E | GW | | X | 8/6/25 | 10:49 | 3 | 2 | 1 | | | | | | | | |
| 9. | TW-38M-W | GW | | X | 8/6/25 | 1033 | 3 | 2 | 1 | | | | | | | | |
| 10. | TW-38M-N | GW | | X | 8/6/25 | 2210 | 3 | 2 | 1 | | | | | | | | |

PRESERVATIVES: ← Specify Preservatives
A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER

**SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY**

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
|---|---|---|
| 1 GMC | 8/8/25 6:01 | 1. |
| RELINQUISHED BY SAMPLER: 2. | DATE/TIME: | RECEIVED BY: 2. |
| RELINQUISHED BY SAMPLER: 3. | DATE/TIME: | RECEIVED BY: 3. |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 3.6 °C
Comments:

Page ____ of

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

Copyright © 2024

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 · Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q2814
COC Number 2045326

**CLIENT INFORMATION** (REPORT TO BE SENT TO:)
COMPANY:
ADDRESS:
CITY STATE: ZIP:
ATTENTION:
PHONE: FAX:

**CLIENT PROJECT INFORMATION**
PROJECT NAME:
PROJECT NO.: LOCATION:
PROJECT MANAGER:
e-mail:
PHONE: FAX:

**CLIENT BILLING INFORMATION**
BILL TO: PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

**DATA TURNAROUND INFORMATION**
FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

**DATA DELIVERABLE INFORMATION**
❑ Level 1 (Results Only) ❑ Level 4 (QC + Full Raw Data)
❑ Level 2 (Results + QC) ❑ NJ Reduced ❑ US EPA CLP
❑ Level 3 (Results + QC + Raw Data) ❑ NYS ASP A ❑ NYS ASP B
❑ Other _____
❑ EDD FORMAT _____

**ANALYSIS**
1: VOC 2: SVOC 3. Metals 4 5 6 7 8 9

| ALLIANCE SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | PRESERVATIVES 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | TW-38M-S | GW | | 4 | 8/4/25 | 0946 | 3 | 3 | 1 | | | | | | | | |
| 2. | TW-BP-S | GW | | X | 8/4/25 | 1810 | 3 | 2 | 1 | | | | | | | | |
| 3. | TW-BP-N | GW | | 4 | 8/4/25 | 1810 | 3 | 2 | 1 | | | | | | | | |
| 4. | TW-BP-E | GW | | 4 | 8/4/25 | 1735 | 3 | 2 | 1 | | | | | | | | |
| 5. | TW-BP-W | GW | | 4 | 8/4/25 | 1640 | 3 | 2 | 1 | | | | | | | | |
| 6. | FB | GW | | 4 | 8/4/25 | 1810 | 3 | 2 | 1 | | | | | | | | |
| 7. | TW-518R-S | GW | | 4 | 8/5/25 | 1027 | 3 | 2 | 1 | | | | | | | | |
| 8. | TW-518R-N | GW | | 4 | 8/5/25 | 1037 | 3 | 2 | 1 | | | | | | | | |
| 9. | TW-518R-E | GW | | 4 | 8/5/25 | 1047 | 3 | 2 | 1 | | | | | | | | |
| 10. | TW-518R-W | GW | | 4 | 8/5/25 | 1057 | 3 | 2 | 1 | | | | | | | | |

**PRESERVATIVES** ← Specify Preservatives: A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER

**SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY**

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
|---|---|---|
| 1. GME | 6:01 | 1. 8-8-25 |
| 2. | | 2. |
| 3. | | 3. |

Conditions of bottles or coolers at receipt: ❑ COMPLIANT ❑ NON COMPLIANT COOLER TEMP 5.9 °C
Comments:

Page _____ of

CLIENT: ❑ Hand Delivered ❑ Other

Shipment Complete ❑ YES ❑ NO

Copyright © 2024
WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

**From:** Yazmeen Gomez
**Sent:** Monday, August 11, 2025 2:55 PM
**To:** 'Daniel Ligon'
**Cc:** 'Alfred Smith'; Jordan Hedvat
**Subject:** RE: Bottleware Order - USACE018-44
**Attachments:** q2815.pdf; q2814.pdf

Good afternoon,

A few things -

- Below mentions Filtered and Unfiltered for 8 GW samples, however, we only received three unpreserved metals bottles - TW-84SB-E, TW-17M-W, and TW-11M-W.
- 8 samples not listed on the COC were received – TW-17M-E, TW-17M-S, TW-84SB-S, TW-84SB-W, TW-11M-W, TW-11M-E, TW-11M-S, TW-11M-N.
- PCB and PESTICIDE are not mentioned the GW COC's however, I went off the below request and do have PEST and PCB logged for some of the samples.
- Once I sign off the login summaries will be sent to you – please confirm everything looks good, or if anything needs to be updated.

**Best Regards,**

**Yazmeen** Gomez
**Sr. Project Manager**
**An Alliance Technical Group Company**
**Main:** 908-789-8900
**Direct:** 908-728-3147
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

**From:** Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
**Sent:** Friday, August 1, 2025 11:03 AM
**To:** Jordan Hedvat <Jordan.Hedvat@AllianceTG.com>; Daniel Ligon <DLigon@firstenvironment.com>
**Cc:** Alfred Smith <asmith@firstenvironment.com>
**Subject:** RE: Bottleware Order - USACE018-44

Hi Daniel,

Bottle order delivery for today confirmed.

**Best Regards,**

**Yazmeen** Gomez
**Sr. Project Manager**
**An Alliance Technical Group Company**
**Main:** 908-789-8900
**Direct:** 908-728-3147
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

**From:** Jordan Hedvat <Jordan.Hedvat@alliancetg.com>
**Sent:** Friday, August 1, 2025 8:14 AM
**To:** Daniel Ligon <DLigon@firstenvironment.com>
**Cc:** Alfred Smith <asmith@firstenvironment.com>; Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
**Subject:** Re: Bottleware Order - USACE018-44

Hi Daniel,

We will process the bottle order for delivery. Do you need TeraCore or Encores for VOC soil? If not we will provide jars for those tests as well. Please reach out if we can help with anything else.

Regards,

Jordan

**Jordan Hedvat**
**Account Executive, Environmental Laboratories**
**An Alliance Technical Group Company**
**Main:** 908-789-8900
**Direct:** 908-728-3144
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092
**www.alliancetg.com**

---

**From:** Daniel Ligon <DLigon@firstenvironment.com>
**Sent:** Thursday, July 31, 2025 4:53 PM
**To:** Jordan Hedvat <Jordan.Hedvat@alliancetg.com>
**Cc:** Alfred Smith <asmith@firstenvironment.com>
**Subject:** Bottleware Order - USACE018-44

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

**Secured by Check Point**

Hi Jordan – I have a bottleware order for some sampling we have next week in Long Island, NY. We'd like to have this delivered tomorrow if possible – sorry for the late email. First thing Monday morning would work as well for delivery to our office in Butler. See the following for # of samples we need with the parameters:

- 48x soil VOCs via EPA Method 8260
- 48x soil SVOCs via EPA Method 8270

- 8x soil Pesticides/PCBs via EPA Methods 8081/8082
- 8x soil TAL Metals (filtered and unfiltered)
- 48x groundwater VOCs via EPA Method 8260
- 48x groundwater SVOCs via EPA Method 8270
- 8x groundwater Pesticides/PCBs via EPA Methods 8081/8082
- 8x groundwater TAL Metals (filtered and unfiltered)
- 3 soil, 3 groundwater field duplicates
- 6 field blanks
- Trip blanks in every cooler

Let me know if this can be accommodated. Thanks!

**Daniel Ligon**
Environmental Specialist

**First Environment, Inc.**
10 Park Place, Bldg 1A, Suite 504
Butler, NJ 07405
Ph: 973-334-0003 ext. 224
Cell: 973-873-8515
DLigon@firstenvironment.com
www.firstenvironment.com

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

# Laboratory Certification

| Certified By | License No. |
|---|---|
| CAS EPA CLP Contract | 68HERH20D0011 |
| Connecticut | PH-0830 |
| DOD ELAP (ANAB) | L2219 |
| Maine | 2024021 |
| Maryland | 296 |
| New Hampshire | 255424 Rev 1 |
| New Jersey | 20012 |
| New York | 11376 |
| Pennsylvania | 68-00548 |
| Soil Permit | 525-24-234-08441 |
| Texas | T104704488 |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q2814 FIRS02
**Client Name :** First Environment, Inc.
**Client Contact :** Al Smith
**Invoice Name :** First Environment, Inc.
**Invoice Contact :** Al Smith

**Order Date :** 8/11/2025 10:31:02 AM
**Project Name :** USACE018-44 DOD
**Receive DateTime :** ~~8/11/2025~~ 6:01:00 PM
**Purchase Order :** 8/8/2025

**Project Mgr :**
**Report Type :** Level 4
**EDD Type :** EQUIS
**Hard Copy Date :**
**Date Signoff :**

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| Q2814-01 | TW-84SB-E | Water | 08/05/2025 | ~~01:52~~ 01:32 | VOC-TCLVOA-10 | | 8260-Low | | 10 Bus. Days |
| Q2814-02 | TW-17M-N | Water | 08/05/2025 | 05:17 | VOC-TCLVOA-10 | | 8260-Low | | 10 Bus. Days |
| Q2814-03 | TW-17M-W | Water | 08/05/2025 | 04:51 | VOC-TCLVOA-10 | | 8260-Low | | 10 Bus. Days |
| Q2814-04 | TW-82H-N | Water | 08/06/2025 | 02:00 | VOC-TCLVOA-10 | | 8260-Low | | 10 Bus. Days |
| Q2814-05 | TW-82H-E | Water | 08/06/2025 | 12:30 | VOC-TCLVOA-10 | | 8260-Low | | 10 Bus. Days |
| Q2814-06 | TW-82H-S | Water | 08/06/2025 | 01:00 | VOC-TCLVOA-10 | | 8260-Low | | 10 Bus. Days |
| Q2814-07 | TW-82H-W | Water | 08/06/2025 | 01:15 | VOC-TCLVOA-10 | | 8260-Low | | 10 Bus. Days |
| Q2814-08 | TW-38M-E | Water | 08/06/2025 | 10:49 | | | | | |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q2814 FIRS02
**Client Name :** First Environment, Inc.
**Client Contact :** Al Smith
**Invoice Name :** First Environment, Inc.
**Invoice Contact :** Al Smith

**Order Date :** 8/11/2025 10:31:02 AM
**Project Name :** USACE018-44 DOD
**Receive DateTime :** ~~8/11/2025~~ 6:01:00 PM
**Purchase Order :** 8/8/2025

**Project Mgr :**
**Report Type :** Level 4
**EDD Type :** EQUIS
**Hard Copy Date :**
**Date Signoff :**

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | VOC-TCLVOA-10 | | 8260-Low | 10 Bus. Days | | |
| Q2814-09 | TW-38M-W | Water | 08/06/2025 | 10:33 | | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | 10 Bus. Days | | |
| Q2814-10 | TW-38M-N | Water | 08/06/2025 | ~~12:10~~ 10:10 | | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | 10 Bus. Days | | |
| Q2814-11 | TW-38M-S | Water | 08/06/2025 | 09:46 | | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | 10 Bus. Days | | |
| Q2814-12 | TW-BP-S | Water | 08/04/2025 | 18:10 | | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | 10 Bus. Days | | |
| Q2814-13 | TW-BP-N | Water | 08/04/2025 | 18:10 | | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | 10 Bus. Days | | |
| Q2814-14 | TW-BP-E | Water | 08/04/2025 | 17:35 | | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | 10 Bus. Days | | |
| Q2814-15 | TW-BP-W | Water | 08/04/2025 | 16:40 | | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | 10 Bus. Days | | |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q2814 FIRS02
**Client Name :** First Environment, Inc.
**Client Contact :** Al Smith
**Invoice Name :** First Environment, Inc.
**Invoice Contact :** Al Smith

**Order Date :** 8/11/2025 10:31:02 AM
**Project Name :** USACE018-44 DOD
**Receive DateTime :** ~~8/11/2025~~ 6:01:00 PM
**Purchase Order :** 8/8/2025

**Project Mgr :**
**Report Type :** Level 4
**EDD Type :** EQUIS
**Hard Copy Date :**
**Date Signoff :**

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| Q2814-16 | FB | Water | 08/04/2025 | 18:10 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | | 10 Bus. Days |
| Q2814-17 | ~~TW518R-S~~ TW-518R-S | Water | 08/05/2025 | 10:27 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | | 10 Bus. Days |
| Q2814-18 | TW-518R-N | Water | 08/05/2025 | 10:37 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | | 10 Bus. Days |
| Q2814-19 | TW-518R-E | Water | 08/05/2025 | 10:47 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | | 10 Bus. Days |
| Q2814-20 | TW-518R-W | Water | 08/05/2025 | 10:57 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | | 10 Bus. Days |
| Q2814-21 | TB | Water | 08/08/2025 | 00:00 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | | 10 Bus. Days |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

DP 08/16/2025

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q2814 FIRS02
**Client Name :** First Environment, Inc.
**Client Contact :** Al Smith
**Invoice Name :** First Environment, Inc.
**Invoice Contact :** Al Smith

**Order Date :** 8/11/2025 10:31:02 AM
**Project Name :** USACE018-44 DOD
**Receive DateTime :** ~~8/11/2025~~ 6:01:00 PM
**Purchase Order :** 8/8/2025

**Project Mgr :**
**Report Type :** Level 4
**EDD Type :** EQUIS
**Hard Copy Date :**
**Date Signoff :**

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|

stored in WA
Ref # 04

**Relinguished By :**
**Date / Time :** 8/11/25 11:56

**Received By :**
**Date / Time :** 8/11/25 12:05 pm

**Storage Area :** VOA Refridgerator Room