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Fax : 908 789 8922

# DATA PACKAGE

## METALS

**PROJECT NAME : NWIRP BETHPAGE - CTO WE13 1132341 WR6**

**TETRA TECH NUS, INC.**

**661 Andersen Drive**

**Suite 200**

**Pittsburgh, PA - 15220-2745**

**Phone No: 412-921-7090**

**ORDER ID : Q2745**

**ATTENTION : Ernie Wu**

**Laboratory Certification ID # 20012**

Table Of Contents for Q2745


1) METALS DATA 2

2) Signature Page 4

3) Case Narrative 5

4) Qualifier Page 6

5) Conformance/Non Conformance 7

6) QA Checklist 8

7) Chronicle 9

8) Hit Summary 10

9) Sample Data 11

- 9.1) RW8-SP100-20250731 12
- 9.2) RW8-SP303-20250731 13

10) METALS CALIBRATION DATA 14

- 10.1) Initial and Continuing Calibration Verification 15
- 10.2) CRDL Standard For AA & ICP 21
- 10.3) Initial and Continuing Calibration Blank Summary 22
- 10.4) Preparation Blank Summary 26
- 10.5) Interference Check Sample 27

11) METALS QC DATA 28

- 11.1) Matrix Spike Summary 29
- 11.2) Post Digest Spike Summary 31
- 11.3) Duplicate Sample Summary 32
- 11.4) Laboratory Control Sample Summary 34
- 11.5) ICP Serial Dilutions 35

12) METALS PREPARATION & INSTRUMENT DATA 36

- 12.1) ICP Interelement Correction Factors 37

13) PREPARATION & ANALYTICAL SUMMARY 42

- 13.1) Sample Preparation Summary 43
- 13.2) Analysis Run Log 44

14) METALS RAW DATA 46

- 14.1) METALS RAW DATA - ANALYTICAL 47
- 14.2) LB136697 47
- 14.3) LB136729 243
- 14.4) METALS RAW DATA - PREP 355
  - 14.4.1) PB169098 355

15) Analytical Runlogs 358

16) Standard Prep Logs 366
17) Shipping Document 504
17.1) Chain Of Custody 505
17.2) Lab Certificate 506

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# Cover Page

**Order ID :** Q2745

**Project ID :** NWIRP Bethpage - CTO WE13 1132341 WR6

**Client :** Tetra Tech NUS, Inc.

| Lab Sample Number | Client Sample Number |
|---|---|
| Q2745-01 | RW8-SP100-20250731 |
| Q2745-02 | RW8-SP303-20250731 |

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 : _____

Date: 8/8/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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# CASE NARRATIVE

**Tetra Tech NUS, Inc.**
**Project Name: NWIRP Bethpage - CTO WE13 1132341 WR6**
**Project Manager : Ernie Wu**
**Order ID # Q2745**
**Test Name: Metals Group4**

**A. Number of Samples and Date of Receipt:**
1 Water sample was received on 08/01/2025.

**B. Parameters:**
According to the Chain of Custody document, the following analyses were requested: Metals Group4, SVOC-SIMGroup1, TDS and TSS. This data package contains results for Metals Group4.

**C. Analytical Techniques:**
The analysis of Metals Group4 was based on method 6010D and digestion based on method 3010 (waters).

**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 (71725MS) analysis met criteria for all compounds except for Iron due to Chemical Interference during Digestion Process.
The Matrix Spike Duplicate (71725MSD) analysis met criteria for all compounds except for Iron 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 the acceptable requirements.

**E. Additional Comments:**
The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is).

---

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_____

Alliance TECHNICAL GROUP
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 |

QA Control # A3040961

# ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

## METALS CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q2745 MATRIX: Water

METHOD: 6010D

| | | NA | NO | YES |
|---|---|---|---|---|
| 1. | Calibration Summary met criteria. | | | ✓ |
| 2. | ICP Interference Check Sample Results Summary Submitted. | | | ✓ |
| 3. | Serial Dilution Summary (if applicable) Submitted. | | | ✓ |
| 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 (71725MS) analysis met criteria for all compounds except for Iron due to Chemical Interference during Digestion Process. The Matrix Spike Duplicate (71725MSD) analysis met criteria for all compounds except for Iron 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. | | | |

ADDITIONAL COMMENTS:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is).

_____ _____

QA REVIEW Date

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## APPENDIX A

## QA REVIEW GENERAL DOCUMENTATION

**Project #:** Q2745

| | 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:** SOHIL JODHANI **Date:** 08/08/2025

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q2745 | **OrderDate:** | 8/1/2025 10:26:00 AM |
| **Client:** | Tetra Tech NUS, Inc. | **Project:** | NWIRP Bethpage - CTO WE13 1132341 WR6 |
| **Contact:** | Ernie Wu | **Location:** | O41 |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q2745-01** | **RW8-SP100-20250731** | **Water** | | | **07/31/25** | | | **08/01/25** |
| | | | Metals Group4 | 6010D | | 08/04/25 | 08/04/25 | |
| **Q2745-02** | **RW8-SP303-20250731** | **Water** | | | **07/31/25** | | | **08/01/25** |
| | | | Metals Group4 | 6010D | | 08/04/25 | 08/04/25 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q2745 **Order ID:** Q2745

**Client:** Tetra Tech NUS, Inc. **Project ID:** NWIRP Bethpage - CTO WE13 1132341 W

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | LOD | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| **Client ID : RW8-SP303-20250731** | | | | | | | | | |
| Q2745-02 | RW8-SP303-20250731 | Water | Iron | 42.8 | J | 11.7 | 40.0 | 50.0 | ug/L |

# SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 07/31/25 |
| Project: | NWIRP Bethpage - CTO WE13 1132341 WR6 | Date Received: | 08/01/25 |
| Client Sample ID: | RW8-SP100-20250731 | SDG No.: | Q2745 |
| Lab Sample ID: | Q2745-01 | 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. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | 40.0 | UN | 1 | 11.7 | 40.0 | 50.0 | ug/L | 08/04/25 10:10 | 08/04/25 17:08 | 6010D | SW3010 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Colorless | Clarity Before: | Clear | Texture: | |
| Color After: | Colorless | Clarity After: | Clear | Artifacts: | |
| Comments: | Metals Group4 | | | | |

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

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 07/31/25 |
| Project: | NWIRP Bethpage - CTO WE13 1132341 WR6 | Date Received: | 08/01/25 |
| Client Sample ID: | RW8-SP303-20250731 | SDG No.: | Q2745 |
| Lab Sample ID: | Q2745-02 | 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. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7439-89-6 | Iron | 42.8 | JN | 1 | 11.7 | 40.0 | 50.0 | ug/L | 08/04/25 10:10 | 08/04/25 17:12 | 6010D | SW3010 |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Colorless | Clarity Before: | Clear | Texture: | |
| Color After: | Colorless | Clarity After: | Clear | Artifacts: | |
| Comments: | Metals Group4 | | | | |

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

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech NUS, Inc. **SDG No.:** Q2745

**Contract:** TETR06 **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 | Iron | 3980 | 4000 | 100 | 90 - 110 | P | 08/04/2025 | 11:41 | LB136697 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech NUS, Inc. **SDG No.:** Q2745

**Contract:** TETR06 **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 | Iron | 102 | 100 | 102 | 80 - 120 | P | 08/04/2025 | 11:45 | LB136697 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech NUS, Inc. **SDG No.:** Q2745

**Contract:** TETR06 **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 | Iron | 4860 | 5000 | 97 | 90 - 110 | P | 08/04/2025 | 12:25 | LB136697 |
| CCV02 | Iron | 4930 | 5000 | 99 | 90 - 110 | P | 08/04/2025 | 13:37 | LB136697 |
| CCV03 | Iron | 4990 | 5000 | 100 | 90 - 110 | P | 08/04/2025 | 14:43 | LB136697 |
| CCV04 | Iron | 4900 | 5000 | 98 | 90 - 110 | P | 08/04/2025 | 15:48 | LB136697 |
| CCV05 | Iron | 5040 | 5000 | 101 | 90 - 110 | P | 08/04/2025 | 16:51 | LB136697 |
| CCV06 | Iron | 5210 | 5000 | 104 | 90 - 110 | P | 08/04/2025 | 17:41 | LB136697 |
| CCV07 | Iron | 5150 | 5000 | 103 | 90 - 110 | P | 08/04/2025 | 17:58 | LB136697 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech NUS, Inc. **SDG No.:** Q2745

**Contract:** TETR06 **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 | Iron | 4000 | 4000 | 100 | 90 - 110 | P | 08/06/2025 | 11:55 | LB136729 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech NUS, Inc. **SDG No.:** Q2745

**Contract:** TETR06 **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 | Iron | 108 | 100 | 108 | 80 - 120 | P | 08/06/2025 | 12:09 | LB136729 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Tetra Tech NUS, Inc. **SDG No.:** Q2745

**Contract:** TETR06 **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 | Iron | 4990 | 5000 | 100 | 90 - 110 | P | 08/06/2025 | 12:47 | LB136729 |
| CCV02 | Iron | 4940 | 5000 | 99 | 90 - 110 | P | 08/06/2025 | 13:37 | LB136729 |
| CCV03 | Iron | 5270 | 5000 | 106 | 90 - 110 | P | 08/06/2025 | 14:49 | LB136729 |

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# Metals

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

**Client:** Tetra Tech NUS, Inc. **SDG No.:** Q2745

**Contract:** TETR06 **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 | Iron | 111 | 100 | 111 | 65 - 135 | P | 08/04/2025 | 11:57 | LB136697 |
| CRI01 | Iron | 97.9 | 100 | 98 | 65 - 135 | P | 08/06/2025 | 12:26 | LB136729 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Tetra Tech NUS, Inc. **SDG No.:** Q2745

**Contract:** TETR06 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| **ICB01** | Iron | 23.4 | +/-50 | U | 80.0 | 100 | P | 08/04/2025 | 11:52 | LB136697 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Tetra Tech NUS, Inc. **SDG No.:** Q2745

**Contract:** TETR06 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| **CCB01** | Iron | 23.4 | +/-50 | U | 80.0 | 100 | P | 08/04/2025 | 12:29 | LB136697 |
| **CCB02** | Iron | 23.4 | +/-50 | U | 80.0 | 100 | P | 08/04/2025 | 13:41 | LB136697 |
| **CCB03** | Iron | 23.4 | +/-50 | U | 80.0 | 100 | P | 08/04/2025 | 14:54 | LB136697 |
| **CCB04** | Iron | 23.4 | +/-50 | U | 80.0 | 100 | P | 08/04/2025 | 15:53 | LB136697 |
| **CCB05** | Iron | 23.4 | +/-50 | U | 80.0 | 100 | P | 08/04/2025 | 16:55 | LB136697 |
| **CCB06** | Iron | 23.4 | +/-50 | U | 80.0 | 100 | P | 08/04/2025 | 17:45 | LB136697 |
| **CCB07** | Iron | 23.4 | +/-50 | U | 80.0 | 100 | P | 08/04/2025 | 18:02 | LB136697 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Tetra Tech NUS, Inc. **SDG No.:** Q2745

**Contract:** TETR06 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| **ICB01** | Iron | 23.4 | +/-50 | U | 80.0 | 100 | P | 08/06/2025 | 12:21 | LB136729 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Tetra Tech NUS, Inc. **SDG No.:** Q2745

**Contract:** TETR06 **Lab Code:** ACE

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | LOD | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|---|
| **CCB01** | Iron | 23.4 | +/-50 | U | 80.0 | 100 | P | 08/06/2025 | 12:52 | LB136729 |
| **CCB02** | Iron | 23.4 | +/-50 | U | 80.0 | 100 | P | 08/06/2025 | 13:52 | LB136729 |
| **CCB03** | Iron | 23.4 | +/-50 | U | 80.0 | 100 | P | 08/06/2025 | 14:53 | LB136729 |

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

**Client:** Tetra Tech NUS, Inc. **SDG No.:** Q2745

**Instrument:** P4

| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | LOD ug/L | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|---|
| **PB169098BL** | | **WATER** | | **Batch Number:** | | **PB169098** | | **Prep Date:** | **08/04/2025** | |
| | Iron | 11.7 | <25 | U | 40.0 | 50.0 | P | 08/06/2025 | 12:57 | LB136729 |

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

**Client:** Tetra Tech NUS, Inc. **SDG No.:** Q2745

**Contract:** TETR06 **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** | Iron | 98400 | 101000 | 97 | 85600 | 116500 | 08/04/2025 | 12:01 | LB136697 |
| **ICSAB01** | Iron | 101000 | 99300 | 102 | 84400 | 114500 | 08/04/2025 | 12:05 | LB136697 |
| **ICSA01** | Iron | 102000 | 101000 | 101 | 85600 | 116500 | 08/06/2025 | 12:31 | LB136729 |
| **ICSAB01** | Iron | 101000 | 99300 | 102 | 84400 | 114500 | 08/06/2025 | 12:35 | LB136729 |

# METAL QC DATA

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

**client:** Tetra Tech NUS, Inc. **level:** low **sdg no.:** Q2745

**contract:** TETR06 **lab code:** ACE

**matrix:** Water **sample id:** Q2756-01 **client id:** 71725MS

**Percent Solids for Sample:** NA **Spiked ID:** Q2756-01MS **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Iron | ug/L | 87 - 115 | 6750 | | 5880 | | 1500 | 58 | N | P |

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Fax : 908 789 8922

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

**client:** Tetra Tech NUS, Inc. **level:** low **sdg no.:** Q2745

**contract:** TETR06 **lab code:** ACE

**matrix:** Water **sample id:** Q2756-01 **client id:** 71725MSD

**Percent Solids for Sample:** NA **Spiked ID:** Q2756-01MSD **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit %R | MSD Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Iron | ug/L | 87 - 115 | 7070 | | 5880 | | 1500 | 79 | N | P |

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

**Client:** Tetra Tech NUS, Inc. **SDG No.:** Q2745

**Contract:** TETR06 **Lab Code:** ACE

**Matrix:** Water **Level:** LOW **Client ID:** 71725A

**Sample ID:** Q2756-01 **Spiked ID:** Q2756-01A

| Analyte | Units | Acceptance Limit %R | Spiked Result | C | Sample Result | C | Spike Added | % Recovery | Qual | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Iron | ug/L | 87 - 115 | 7270 | | 5880 | | 1500 | 93 | | P |

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# Metals

## - 6 -
## DUPLICATE SAMPLE SUMMARY

**Client:** Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** Q2745

**Contract:** TETR06 **Lab Code:** ACE

**Matrix:** Water **Sample ID:** Q2756-01 **Client ID:** 71725DUP

**Percent Solids for Sample:** NA **Duplicate ID** Q2756-01DUP **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Iron | ug/L | 20 | 5880 | | 5820 | | 1 | | P |

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

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# Metals

## - 6 -
## DUPLICATE SAMPLE SUMMARY

**Client:** Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** Q2745

**Contract:** TETR06 **Lab Code:** ACE

**Matrix:** Water **Sample ID:** Q2756-01MS **Client ID:** 71725MSD

**Percent Solids for Sample:** NA **Duplicate ID** Q2756-01MSD **Percent Solids for Spike Sample:** NA

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|---|---|---|---|---|---|---|---|---|---|
| Iron | ug/L | 20 | 6750 | | 7070 | | 5 | | P |

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

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## LABORATORY CONTROL SAMPLE SUMMARY

**Client:** Tetra Tech NUS, Inc. **SDG No.:** Q2745

**Contract:** TETR06 **Lab Code:** ACE

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB169098BS | | | | | | | |
| Iron | ug/L | 1500 | 1550 | | 103 | 87 - 115 | P |

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# Metals

## -9 -

## ICP SERIAL DILUTIONS

SAMPLE NO.

71725L

**Lab Name:** Alliance **Contract:** TETR06

**Lab Code:** ACE **Lb No.:** lb136729 **Lab Sample ID :** Q2756-01L **SDG No.:** Q2745

**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 |
|---|---|---|---|---|---|---|---|
| Iron | 5880 | | 5280 | | 10 | | P |

# METAL PREPARATION & INSTRUMENT DATA

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

**Client:** Tetra Tech NUS, Inc. **SDG No.:** Q2745

**Contract:** TETR06 **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 |
|---|---|---|---|---|---|---|
| Iron | 240.488 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

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

**Client:** Tetra Tech NUS, Inc. **SDG No.:** Q2745

**Contract:** TETR06 **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 |
|---|---|---|---|---|---|---|
| Iron | 240.488 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | -0.0039600 |

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

**Client:** Tetra Tech NUS, Inc. **SDG No.:** Q2745

**Contract:** TETR06 **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 |
|---|---|---|---|---|---|---|
| Iron | 240.488 | 0.0000000 | 0.0000000 | 0.0000730 | 0.0000000 | -0.0015250 |

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

**Client:** Tetra Tech NUS, Inc. **SDG No.:** Q2745

**Contract:** TETR06 **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 |
|---|---|---|---|---|---|---|
| Iron | 240.488 | 0.0000000 | -0.0017000 | 0.0000000 | 0.0000000 | 0.0000000 |

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

**Client:** Tetra Tech NUS, Inc. **SDG No.:** Q2745

**Contract:** TETR06 **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 |
|---|---|---|---|---|---|---|
| Iron | 240.488 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000 |

# METAL PREPARATION & ANALYICAL SUMMARY

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

**Client:** Tetra Tech NUS, Inc. **SDG No.:** Q2745

**Contract:** TETR06 **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:** | **PB169098** | | | | | | |
| PB169098BL | PB169098BL | MB | WATER | 08/04/2025 | 50.0 | 25.0 | |
| PB169098BS | PB169098BS | LCS | WATER | 08/04/2025 | 50.0 | 25.0 | |
| Q2745-01 | RW8-SP100-20250731 | SAM | WATER | 08/04/2025 | 50.0 | 25.0 | |
| Q2745-02 | RW8-SP303-20250731 | SAM | WATER | 08/04/2025 | 50.0 | 25.0 | |
| Q2756-01DUP | 71725DUP | DUP | WATER | 08/04/2025 | 50.0 | 25.0 | |
| Q2756-01MS | 71725MS | MS | WATER | 08/04/2025 | 50.0 | 25.0 | |
| Q2756-01MSD | 71725MSD | MSD | WATER | 08/04/2025 | 50.0 | 25.0 | |

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

**Client:** Tetra Tech NUS, Inc. **Contract:** TETR06

**Lab code:** ACE **Sdg no.:** Q2745

**Instrument id number:** **Method:** **Run number:** LB136697

**Start date:** 08/04/2025 **End date:** 08/04/2025

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1115 | Fe |
| S1 | S1 | 1 | 1120 | Fe |
| S2 | S2 | 1 | 1124 | Fe |
| S3 | S3 | 1 | 1128 | Fe |
| S4 | S4 | 1 | 1132 | Fe |
| S5 | S5 | 1 | 1136 | Fe |
| ICV01 | ICV01 | 1 | 1141 | Fe |
| LLICV01 | LLICV01 | 1 | 1145 | Fe |
| ICB01 | ICB01 | 1 | 1152 | Fe |
| CRI01 | CRI01 | 1 | 1157 | Fe |
| ICSA01 | ICSA01 | 1 | 1201 | Fe |
| ICSAB01 | ICSAB01 | 1 | 1205 | Fe |
| CCV01 | CCV01 | 1 | 1225 | Fe |
| CCB01 | CCB01 | 1 | 1229 | Fe |
| CCV02 | CCV02 | 1 | 1337 | Fe |
| CCB02 | CCB02 | 1 | 1341 | Fe |
| CCV03 | CCV03 | 1 | 1443 | Fe |
| CCB03 | CCB03 | 1 | 1454 | Fe |
| CCV04 | CCV04 | 1 | 1548 | Fe |
| CCB04 | CCB04 | 1 | 1553 | Fe |
| CCV05 | CCV05 | 1 | 1651 | Fe |
| CCB05 | CCB05 | 1 | 1655 | Fe |
| Q2745-01 | RW8-SP100-20250731 | 1 | 1708 | Fe |
| Q2745-02 | RW8-SP303-20250731 | 1 | 1712 | Fe |
| CCV06 | CCV06 | 1 | 1741 | Fe |
| CCB06 | CCB06 | 1 | 1745 | Fe |
| CCV07 | CCV07 | 1 | 1758 | Fe |
| CCB07 | CCB07 | 1 | 1802 | Fe |

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

**Client:** Tetra Tech NUS, Inc. **Contract:** TETR06

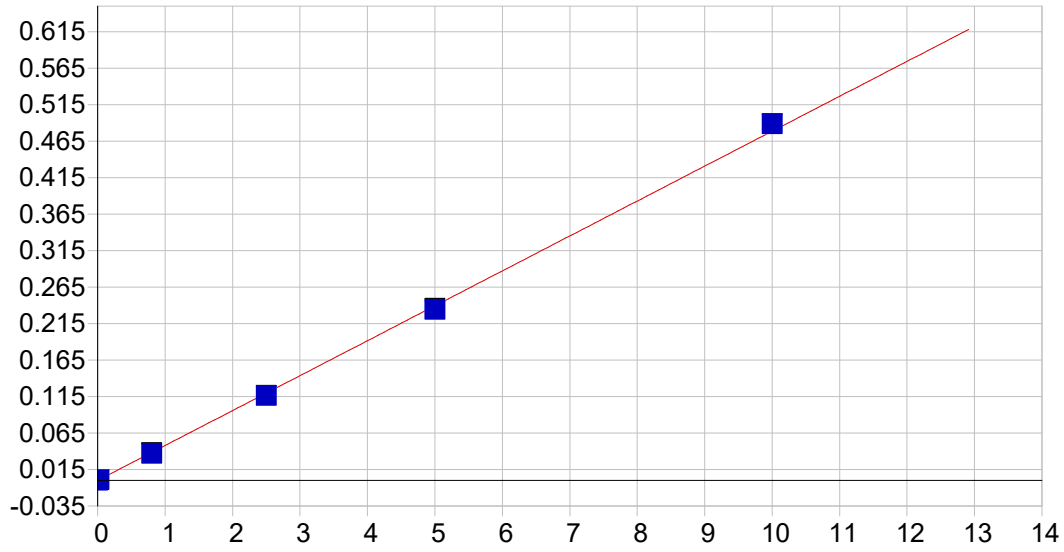
**Lab code:** ACE **Sdg no.:** Q2745

**Instrument id number:** **Method:** **Run number:** LB136729

**Start date:** 08/06/2025 **End date:** 08/06/2025

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1130 | Fe |
| S1 | S1 | 1 | 1135 | Fe |
| S2 | S2 | 1 | 1139 | Fe |
| S3 | S3 | 1 | 1143 | Fe |
| S4 | S4 | 1 | 1147 | Fe |
| S5 | S5 | 1 | 1151 | Fe |
| ICV01 | ICV01 | 1 | 1155 | Fe |
| LLICV01 | LLICV01 | 1 | 1209 | Fe |
| ICB01 | ICB01 | 1 | 1221 | Fe |
| CRI01 | CRI01 | 1 | 1226 | Fe |
| ICSA01 | ICSA01 | 1 | 1231 | Fe |
| ICSAB01 | ICSAB01 | 1 | 1235 | Fe |
| CCV01 | CCV01 | 1 | 1247 | Fe |
| CCB01 | CCB01 | 1 | 1252 | Fe |
| PB169098BL | PB169098BL | 1 | 1257 | Fe |
| PB169098BS | PB169098BS | 1 | 1301 | Fe |
| Q2756-01DUP | 71725DUP | 1 | 1314 | Fe |
| Q2756-01L | 71725L | 5 | 1318 | Fe |
| Q2756-01MS | 71725MS | 1 | 1322 | Fe |
| Q2756-01MSD | 71725MSD | 1 | 1329 | Fe |
| Q2756-01A | 71725A | 1 | 1333 | Fe |
| CCV02 | CCV02 | 1 | 1337 | Fe |
| CCB02 | CCB02 | 1 | 1352 | Fe |
| CCV03 | CCV03 | 1 | 1449 | Fe |
| CCB03 | CCB03 | 1 | 1453 | Fe |

# METAL
# RAW DATA

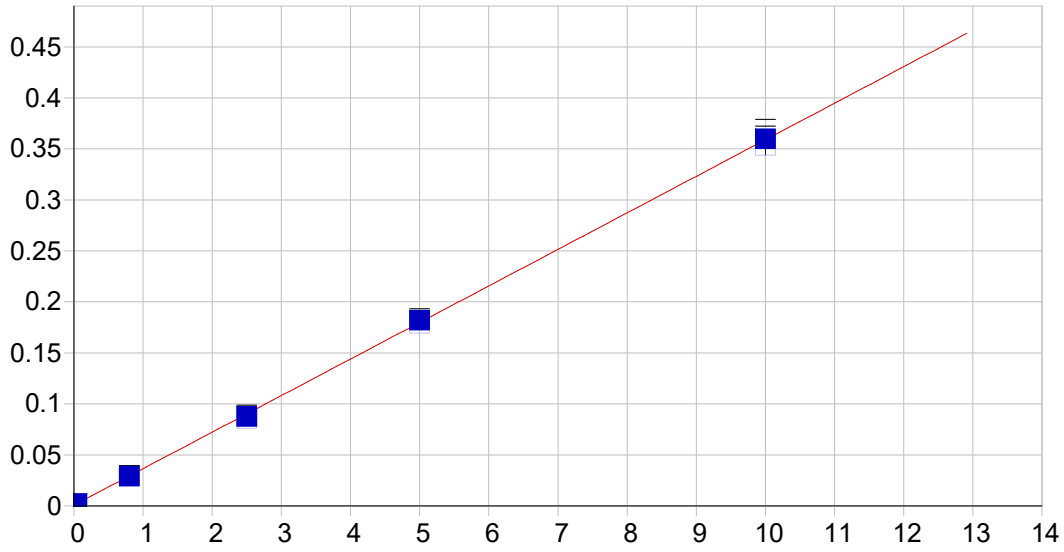



**As 189.042 {479}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000019 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.047860 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999726 | Status: | OK. |
| Std Error of Est: | 0.000026 | | |
| Predicted MDL: | 0.002523 | | |
| Predicted MQL: | 0.008410 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00002 | .000 | 1 |
| S1 | .02000 | .02243 | .002 | 12.2 | .00109 | .000 | 1 |
| S3 | 2.5000 | 2.4254 | -.075 | -2.99 | .11597 | .000 | 1 |
| S4 | 5.0000 | 4.8916 | -.108 | -2.17 | .23387 | .002 | 1 |
| S5 | 10.000 | 10.207 | .207 | 2.07 | .48801 | .000 | 1 |
| S2 | .80000 | .77352 | -.026 | -3.31 | .03700 | .001 | 1 |

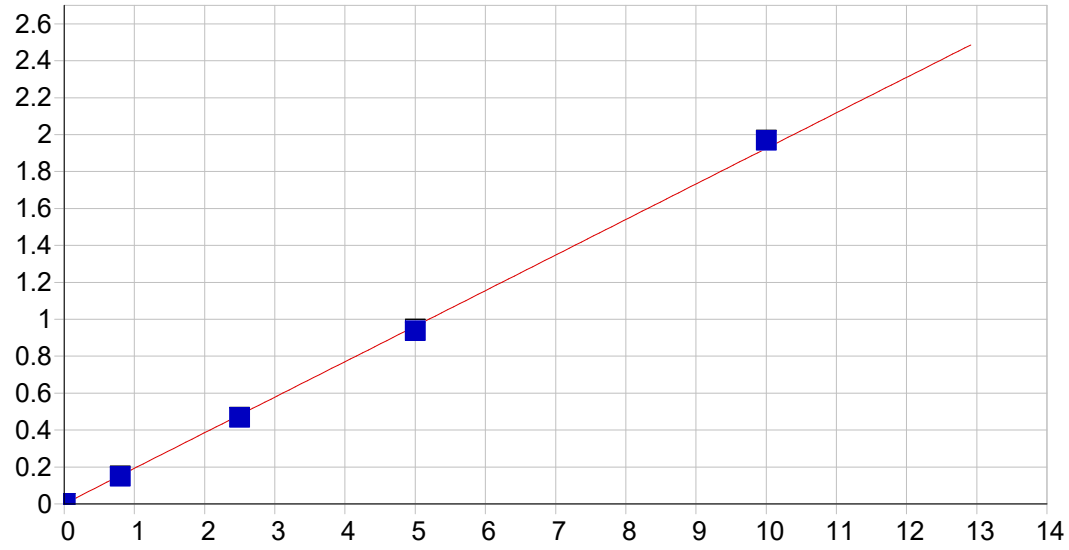



**Tl 190.856 {477}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000682 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.035823 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999899 | Status: | OK. |
| Std Error of Est: | 0.000017 | | |
| Predicted MDL: | 0.002419 | | |
| Predicted MQL: | 0.008062 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00068 | .000 | 1 |
| S1 | .04000 | .04277 | .003 | 6.93 | .00212 | .000 | 1 |
| S3 | 2.5000 | 2.4203 | -.080 | -3.19 | .08575 | .002 | 1 |
| S4 | 5.0000 | 5.0609 | .061 | 1.22 | .17871 | .002 | 1 |
| S5 | 10.000 | 10.021 | .021 | .213 | .35314 | .010 | 1 |
| S2 | .80000 | .79495 | -.005 | -.632 | .02864 | .001 | 1 |

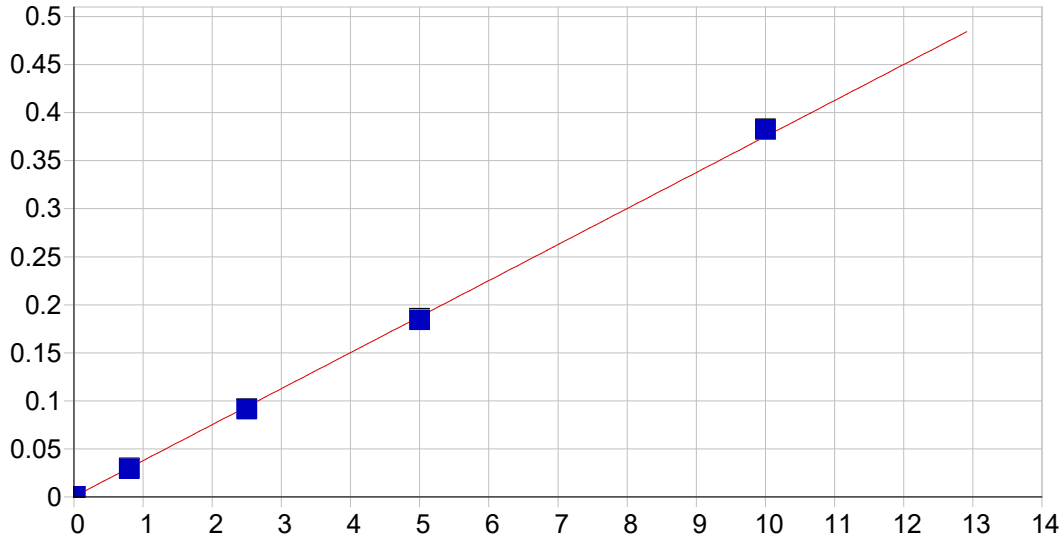



**Pb 220.353 {453}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000221 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.192481 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999688 | Status: | OK. |
| Std Error of Est: | 0.000087 | | |
| Predicted MDL: | 0.001464 | | |
| Predicted MQL: | 0.004879 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00022 | .000 | 1 |
| S1 | .01200 | .01119 | -.001 | -6.74 | .00233 | .000 | 1 |
| S3 | 2.5000 | 2.4309 | -.069 | -2.76 | .46763 | .001 | 1 |
| S4 | 5.0000 | 4.8716 | -.128 | -2.57 | .93691 | .009 | 1 |
| S5 | 10.000 | 10.227 | .227 | 2.27 | 1.9667 | .002 | 1 |
| S2 | .80000 | .77157 | -.028 | -3.55 | .14857 | .003 | 1 |

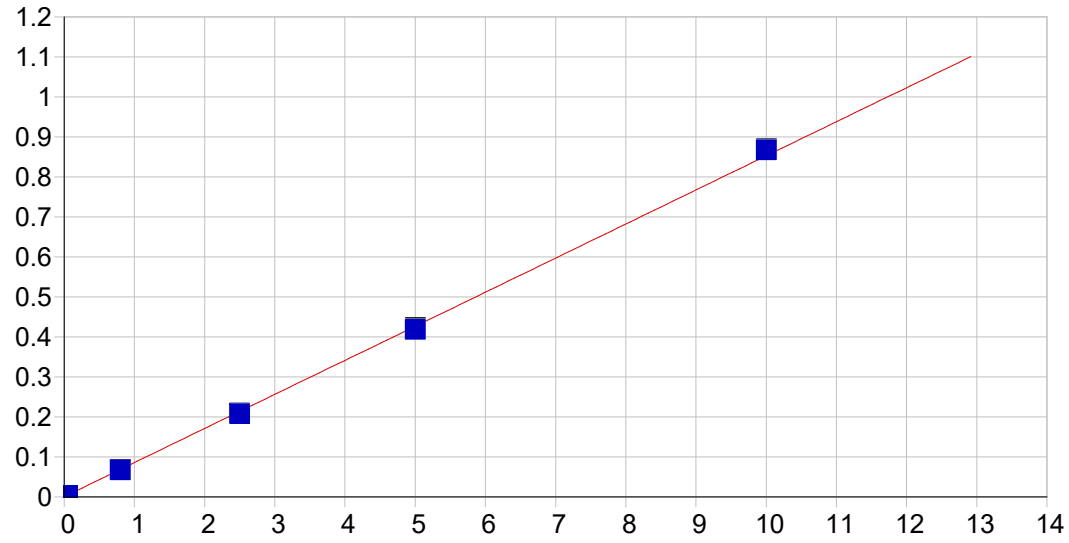



**Se 196.090 {472}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000269 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.037485 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999771 | Status: | OK. |
| Std Error of Est: | 0.000019 | | |
| Predicted MDL: | 0.003882 | | |
| Predicted MQL: | 0.012940 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00027 | .000 | 1 |
| S1 | .02000 | .02062 | .001 | 3.09 | .00104 | .000 | 1 |
| S3 | 2.5000 | 2.4287 | -.071 | -2.85 | .09128 | .000 | 1 |
| S4 | 5.0000 | 4.9049 | -.095 | -1.90 | .18408 | .002 | 1 |
| S5 | 10.000 | 10.192 | .192 | 1.92 | .38220 | .001 | 1 |
| S2 | .80000 | .77396 | -.026 | -3.25 | .02927 | .001 | 1 |

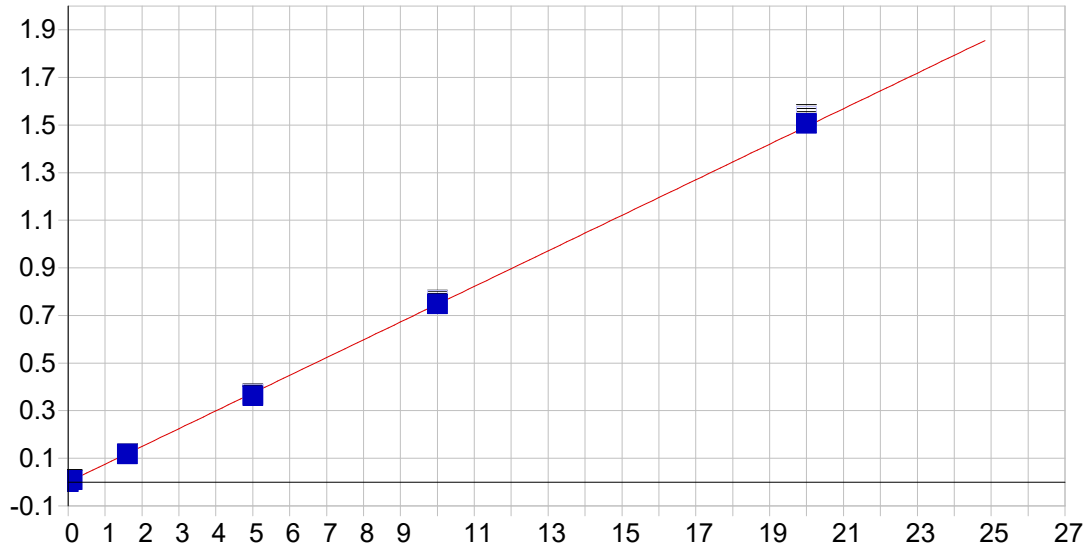



**Sb 206.833 {463}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000633 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.085194 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999809 | Status: | OK. |
| Std Error of Est: | 0.000062 | | |
| Predicted MDL: | 0.002277 | | |
| Predicted MQL: | 0.007588 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00063 | .000 | 1 |
| S1 | .05000 | .05178 | .002 | 3.56 | .00505 | .000 | 1 |
| S3 | 2.5000 | 2.4371 | -.063 | -2.51 | .20884 | .001 | 1 |
| S4 | 5.0000 | 4.9064 | -.094 | -1.87 | .41979 | .003 | 1 |
| S5 | 10.000 | 10.176 | .176 | 1.76 | .86987 | .000 | 1 |
| S2 | .80000 | .77880 | -.021 | -2.65 | .06717 | .001 | 1 |

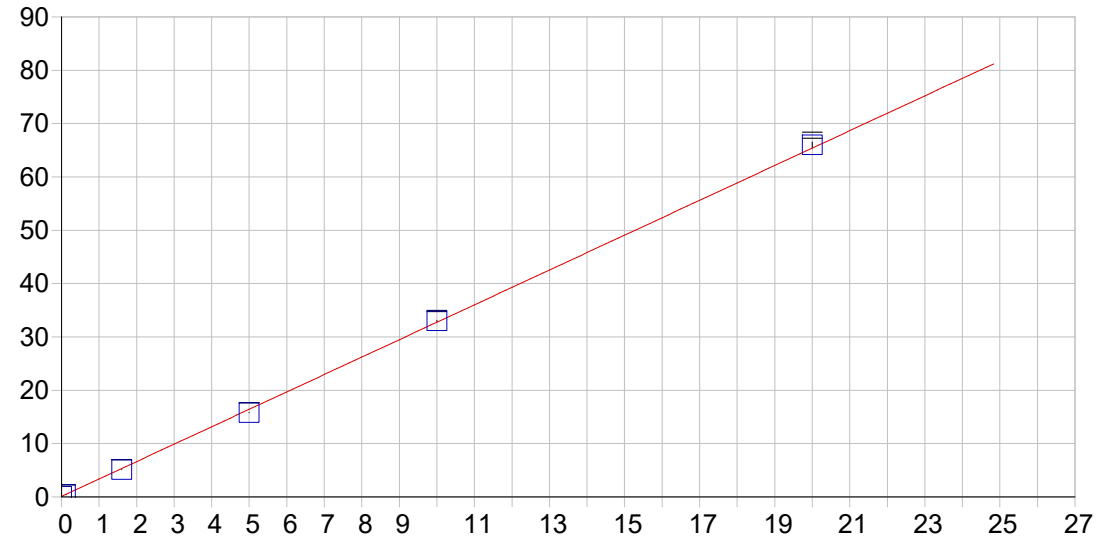



**Al 396.152 { 85}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000528 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.074687 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999896 | Status: | OK. |
| Std Error of Est: | 0.000081 | | |
| Predicted MDL: | 0.014039 | | |
| Predicted MQL: | 0.046797 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00053 | .001 | 1 |
| S1 | .10000 | .10899 | .009 | 8.99 | .00925 | .001 | 1 |
| S3 | 5.0000 | 4.8444 | -.156 | -3.11 | .36959 | .001 | 1 |
| S4 | 10.000 | 10.015 | .015 | .153 | .76303 | .002 | 1 |
| S5 | 20.000 | 20.168 | .168 | .839 | 1.5358 | .008 | 1 |
| S2 | 1.6000 | 1.5630 | -.037 | -2.31 | .11958 | .000 | 1 |

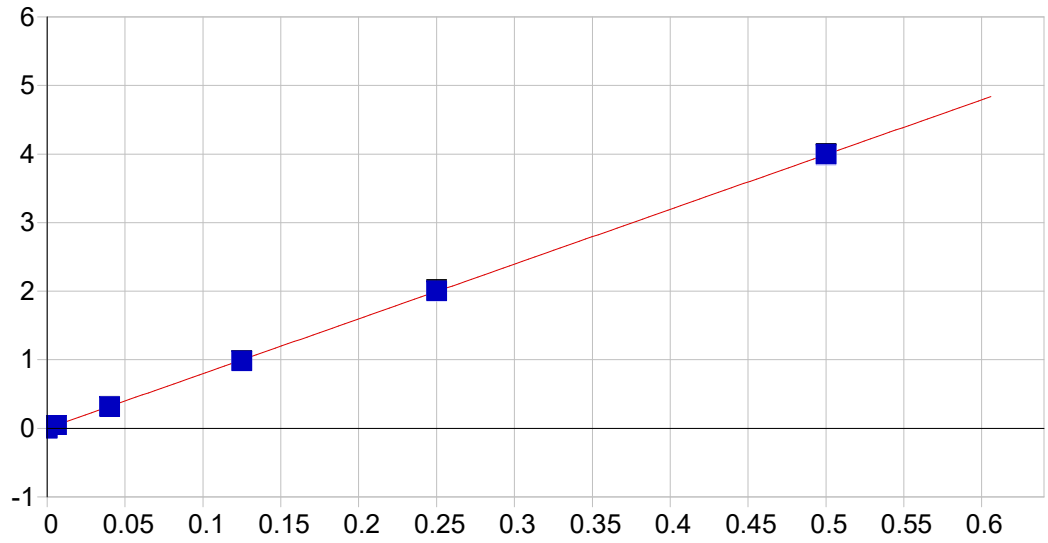



**Ba 493.409 { 68}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.092638 | Re-Slope: | 1.000000 |
| A1 (Gain): | 3.265758 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999841 | Status: | OK. |
| Std Error of Est: | 0.004320 | | |
| Predicted MDL: | 0.000859 | | |
| Predicted MQL: | 0.002862 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | .09266 | .002 | 1 |
| S1 | .10000 | .10055 | .001 | .545 | .42099 | .004 | 1 |
| S3 | 5.0000 | 4.8065 | -.193 | -3.87 | 15.790 | .038 | 1 |
| S4 | 10.000 | 10.077 | .077 | .769 | 33.001 | .109 | 1 |
| S5 | 20.000 | 20.174 | .174 | .869 | 65.975 | .570 | 1 |
| S2 | 1.6000 | 1.5422 | -.058 | -3.61 | 5.1292 | .033 | 1 |

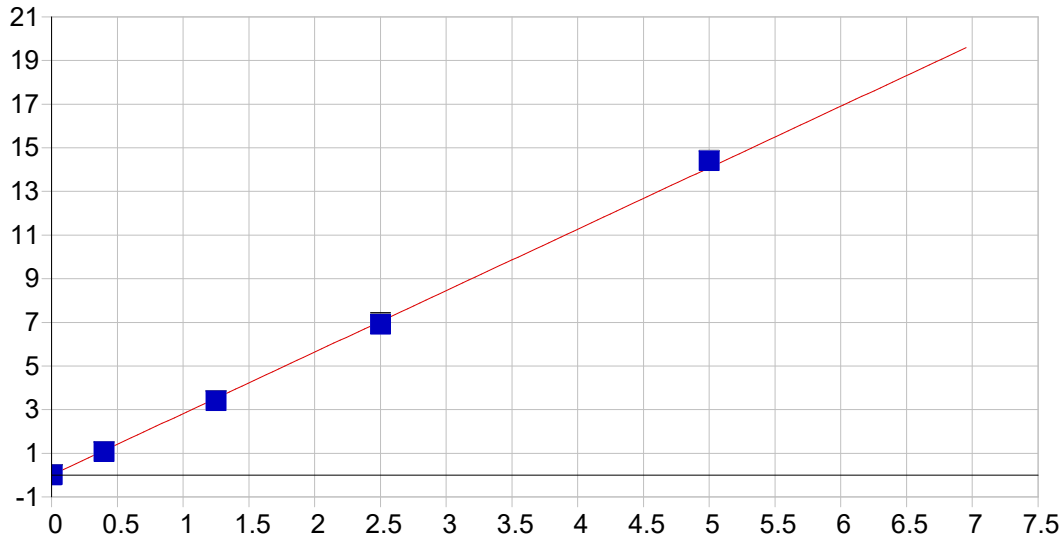



**Be 234.861 {144}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000575 | Re-Slope: | 1.000000 |
| A1 (Gain): | 7.984463 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999977 | Status: | OK. |
| Std Error of Est: | 0.000154 | | |
| Predicted MDL: | 0.000077 | | |
| Predicted MQL: | 0.000258 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | -.00058 | .000 | 1 |
| S1 | .00600 | .00618 | .000 | 3.07 | .04844 | .002 | 1 |
| S3 | .12500 | .12317 | -.002 | -1.46 | .97841 | .006 | 1 |
| S4 | .25000 | .25108 | .001 | .430 | 1.9952 | .018 | 1 |
| S5 | .50000 | .50090 | .001 | .180 | 3.9810 | .006 | 1 |
| S2 | .04000 | .03967 | -.000 | -.831 | .31472 | .004 | 1 |

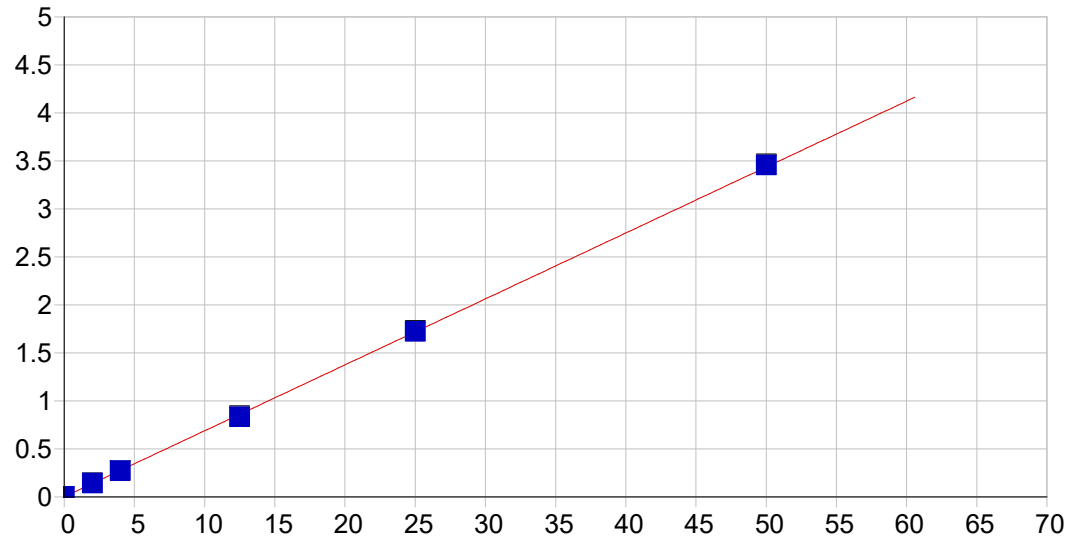



**Cd 226.502 {449}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000366 | Re-Slope: | 1.000000 |
| A1 (Gain): | 2.817559 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999666 | Status: | OK. |
| Std Error of Est: | 0.000662 | | |
| Predicted MDL: | 0.000084 | | |
| Predicted MQL: | 0.000280 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00036 | .000 | 1 |
| S1 | .00600 | .00590 | -.000 | -1.61 | .01632 | .000 | 1 |
| S3 | 1.2500 | 1.2066 | -.043 | -3.47 | 3.4017 | .008 | 1 |
| S4 | 2.5000 | 2.4528 | -.047 | -1.89 | 6.9153 | .065 | 1 |
| S5 | 5.0000 | 5.1126 | .113 | 2.25 | 14.414 | .012 | 1 |
| S2 | .40000 | .37808 | -.022 | -5.48 | 1.0656 | .022 | 1 |

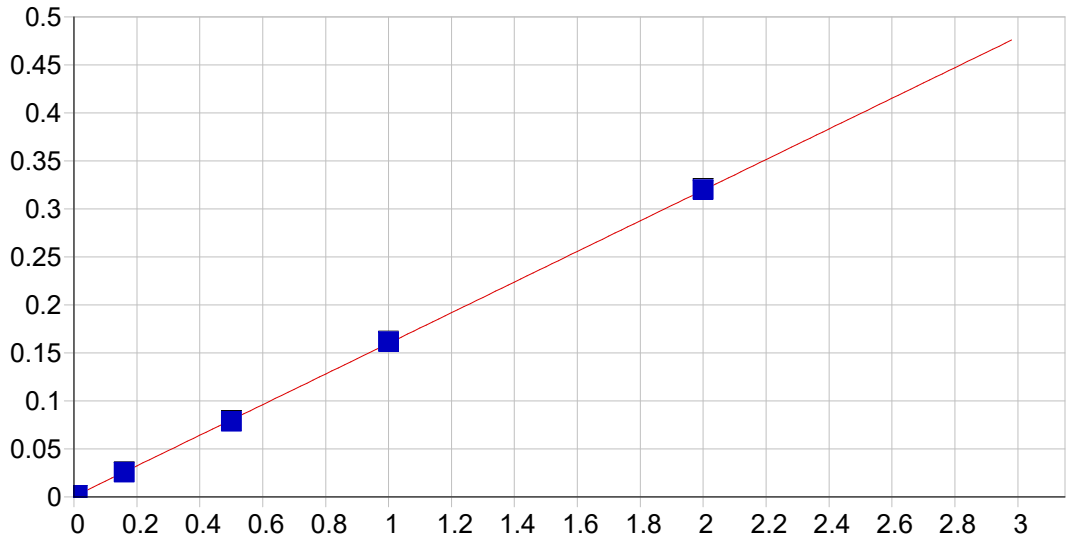



**Ca 373.690 { 90}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.001986 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.068677 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999913 | Status: | OK. |
| Std Error of Est: | 0.000480 | | |
| Predicted MDL: | 0.012789 | | |
| Predicted MQL: | 0.042631 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00002 | .000 | .000 | .00199 | .002 | 1 |
| S2 | 4.0000 | 3.9327 | -.067 | -1.68 | .27207 | .002 | 1 |
| S3 | 12.500 | 12.123 | -.377 | -3.02 | .83456 | .008 | 1 |
| S4 | 25.000 | 25.075 | .075 | .300 | 1.7241 | .006 | 1 |
| S5 | 50.000 | 50.311 | .311 | .623 | 3.4572 | .011 | 1 |
| S1 | 2.0000 | 2.0579 | .058 | 2.90 | .14332 | .001 | 1 |

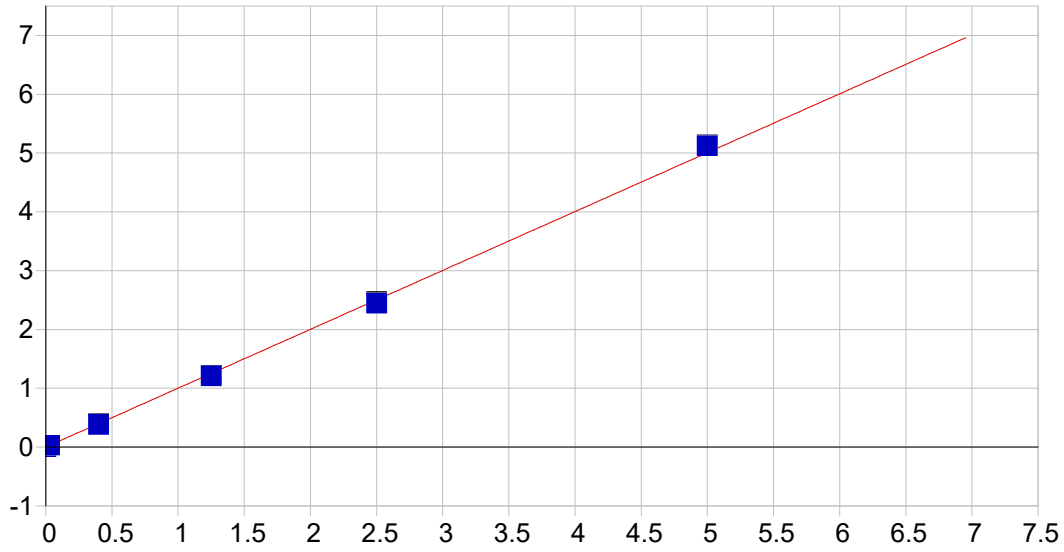



**Cr 267.716 {126}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000416 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.159550 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999946 | Status: | OK. |
| Std Error of Est: | 0.000012 | | |
| Predicted MDL: | 0.000430 | | |
| Predicted MQL: | 0.001432 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00042 | .000 | 1 |
| S1 | .01000 | .00922 | -.001 | -7.83 | .00189 | .000 | 1 |
| S3 | .50000 | .49002 | -.010 | -2.00 | .07863 | .001 | 1 |
| S4 | 1.0000 | 1.0097 | .010 | .972 | .16158 | .001 | 1 |
| S5 | 2.0000 | 2.0034 | .003 | .168 | .32018 | .001 | 1 |
| S2 | .16000 | .15768 | -.002 | -1.45 | .02558 | .000 | 1 |

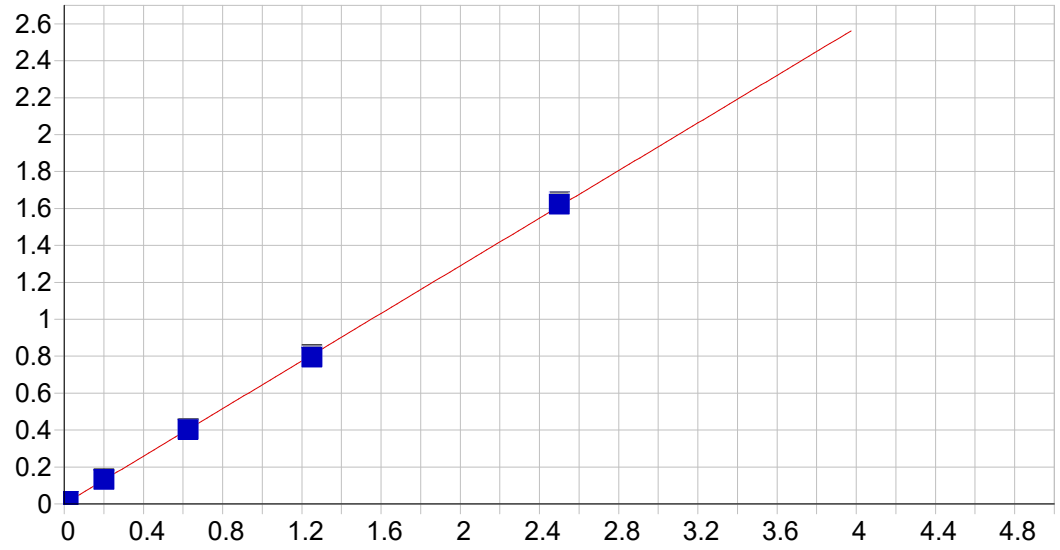



**Co 228.616 {448}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000123 | Re-Slope: | 1.000000 |
| A1 (Gain): | 1.001307 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999675 | Status: | OK. |
| Std Error of Est: | 0.000520 | | |
| Predicted MDL: | 0.000214 | | |
| Predicted MQL: | 0.000715 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00012 | .000 | 1 |
| S1 | .03000 | .03105 | .001 | 3.49 | .03108 | .000 | 1 |
| S3 | 1.2500 | 1.2080 | -.042 | -3.36 | 1.2118 | .002 | 1 |
| S4 | 2.5000 | 2.4433 | -.057 | -2.27 | 2.4509 | .022 | 1 |
| S5 | 5.0000 | 5.1139 | .114 | 2.28 | 5.1292 | .007 | 1 |
| S2 | .40000 | .38375 | -.016 | -4.06 | .38505 | .008 | 1 |

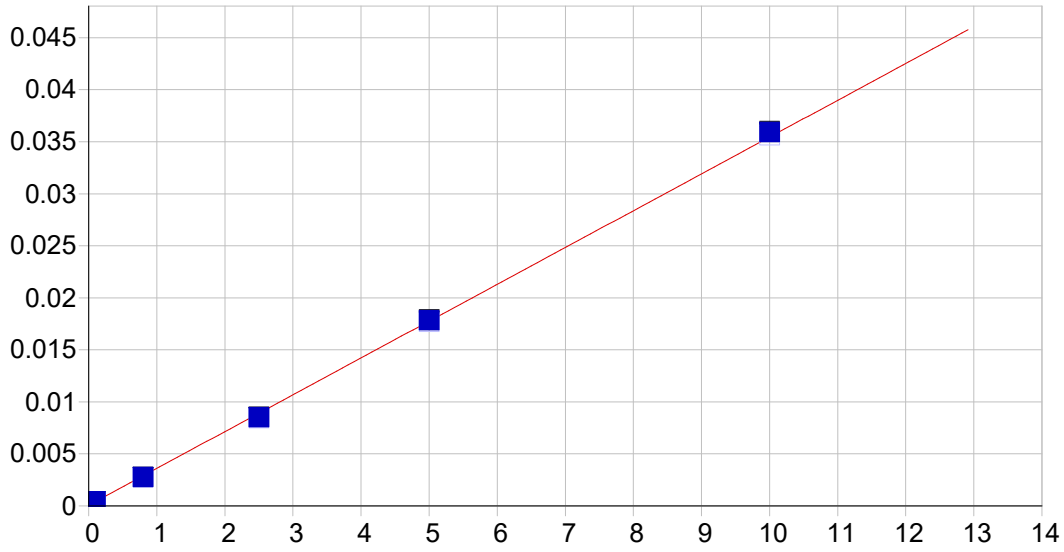



**Cu 224.700 {450}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000584 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.644569 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999930 | Status: | OK. |
| Std Error of Est: | 0.000090 | | |
| Predicted MDL: | 0.000463 | | |
| Predicted MQL: | 0.001542 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00058 | .000 | 1 |
| S1 | .02000 | .02225 | .002 | 11.2 | .01507 | .000 | 1 |
| S3 | .62500 | .62380 | -.001 | -.192 | .40602 | .001 | 1 |
| S4 | 1.2500 | 1.2314 | -.019 | -1.49 | .80099 | .006 | 1 |
| S5 | 2.5000 | 2.5152 | .015 | .609 | 1.6352 | .002 | 1 |
| S2 | .20000 | .20236 | .002 | 1.18 | .13210 | .002 | 1 |

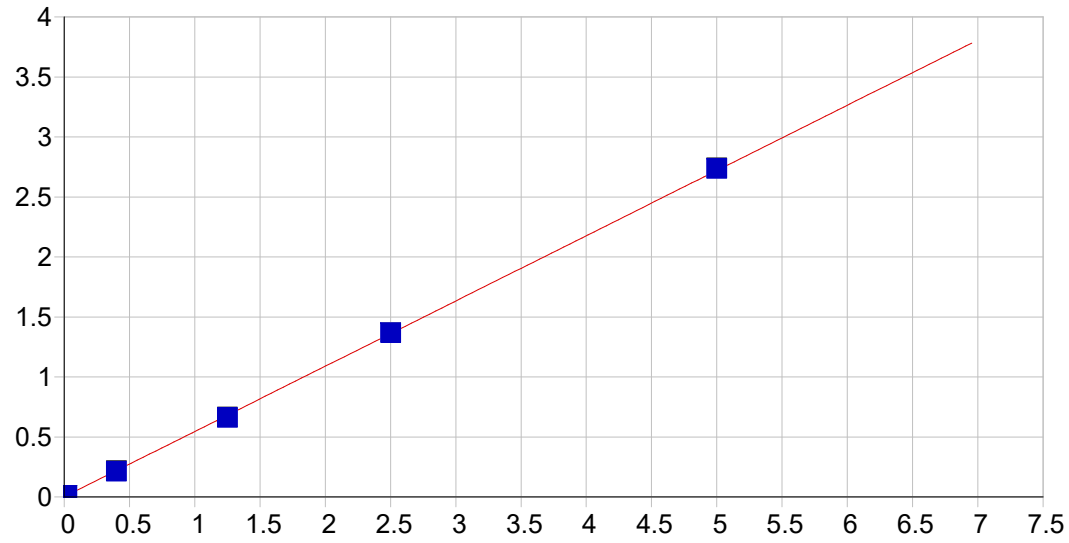



**Fe 240.488 {140}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000065 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.003538 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999749 | Status: | OK. |
| Std Error of Est: | 0.000004 | | |
| Predicted MDL: | 0.007011 | | |
| Predicted MQL: | 0.023370 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | .00006 | .000 | 1 |
| S1 | .10000 | .10016 | .000 | .160 | .00041 | .000 | 1 |
| S3 | 2.5000 | 2.3857 | -.114 | -4.57 | .00843 | .000 | 1 |
| S4 | 5.0000 | 5.0237 | .024 | .474 | .01769 | .000 | 1 |
| S5 | 10.000 | 10.131 | .131 | 1.31 | .03561 | .000 | 1 |
| S2 | .80000 | .75966 | -.040 | -5.04 | .00273 | .000 | 1 |

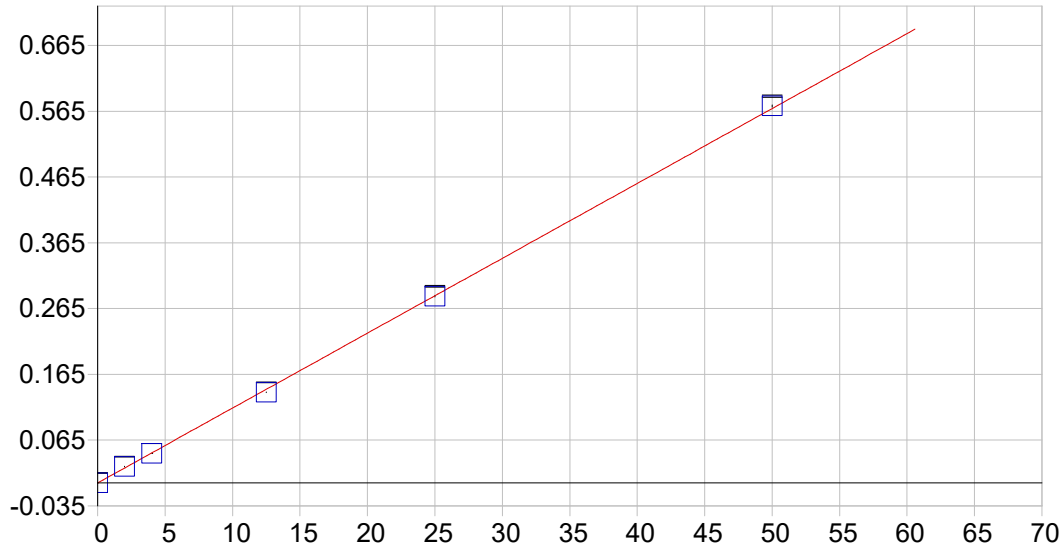



**Mn 257.610 {131}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.001340 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.543743 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999918 | Status: | OK. |
| Std Error of Est: | 0.000115 | | |
| Predicted MDL: | 0.000599 | | |
| Predicted MQL: | 0.001997 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00134 | .000 | 1 |
| S1 | .02000 | .02048 | .000 | 2.40 | .01248 | .000 | 1 |
| S3 | 1.2500 | 1.2137 | -.036 | -2.90 | .66142 | .002 | 1 |
| S4 | 2.5000 | 2.5127 | .013 | .509 | 1.3679 | .000 | 1 |
| S5 | 5.0000 | 5.0314 | .031 | .628 | 2.7377 | .003 | 1 |
| S2 | .40000 | .39164 | -.008 | -2.09 | .21434 | .001 | 1 |

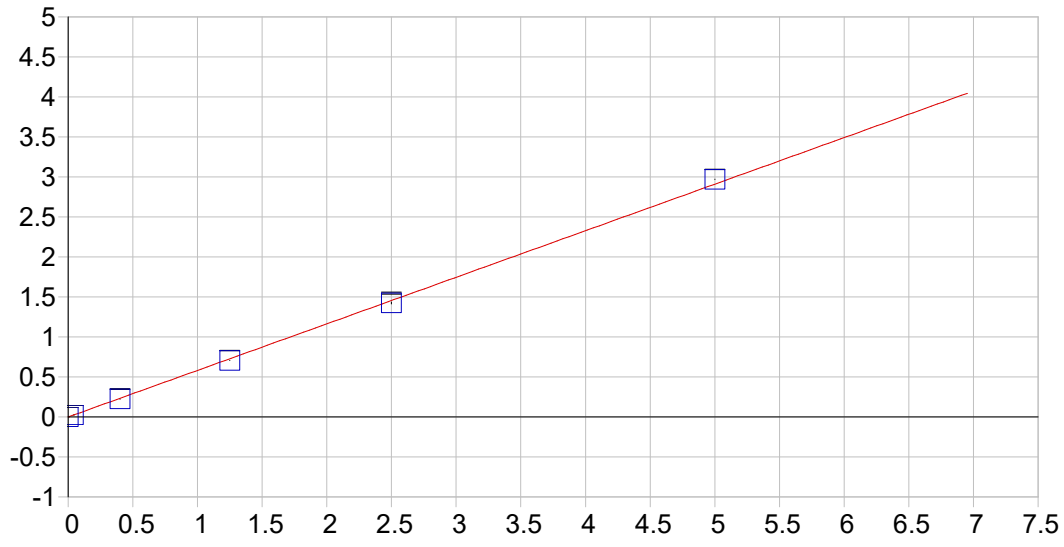



**Mg 279.079 {121}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000071 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.011385 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999807 | Status: | OK. |
| Std Error of Est: | 0.000118 | | |
| Predicted MDL: | 0.032467 | | |
| Predicted MQL: | 0.108222 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00011 | -.000 | .000 | -.00007 | .000 | 1 |
| S2 | 4.0000 | 3.9351 | -.065 | -1.62 | .04473 | .000 | 1 |
| S3 | 12.500 | 12.093 | -.407 | -3.25 | .13761 | .001 | 1 |
| S4 | 25.000 | 24.940 | -.060 | -.240 | .28387 | .001 | 1 |
| S5 | 50.000 | 50.335 | .335 | .670 | .57300 | .002 | 1 |
| S1 | 2.0000 | 2.1967 | .197 | 9.83 | .02494 | .001 | 1 |

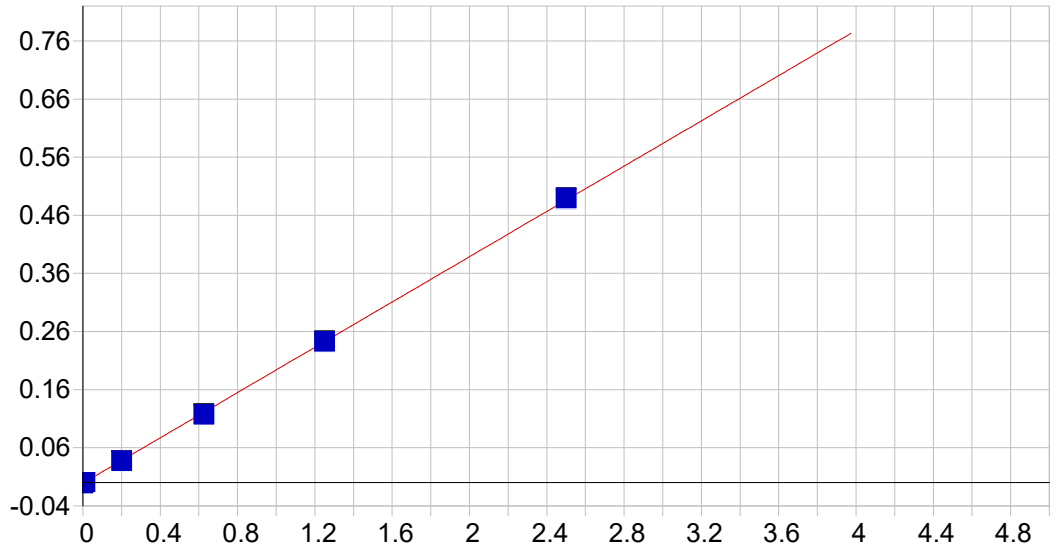



**Ni 231.604 {446}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000426 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.581937 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999738 | Status: | OK. |
| Std Error of Est: | 0.000313 | | |
| Predicted MDL: | 0.000391 | | |
| Predicted MQL: | 0.001304 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00043 | .000 | 1 |
| S1 | .04000 | .04143 | .001 | 3.59 | .02369 | .000 | 1 |
| S3 | 1.2500 | 1.2137 | -.036 | -2.90 | .70587 | .002 | 1 |
| S4 | 2.5000 | 2.4470 | -.053 | -2.12 | 1.4236 | .012 | 1 |
| S5 | 5.0000 | 5.1021 | .102 | 2.04 | 2.9687 | .002 | 1 |
| S2 | .40000 | .38573 | -.014 | -3.57 | .22405 | .005 | 1 |

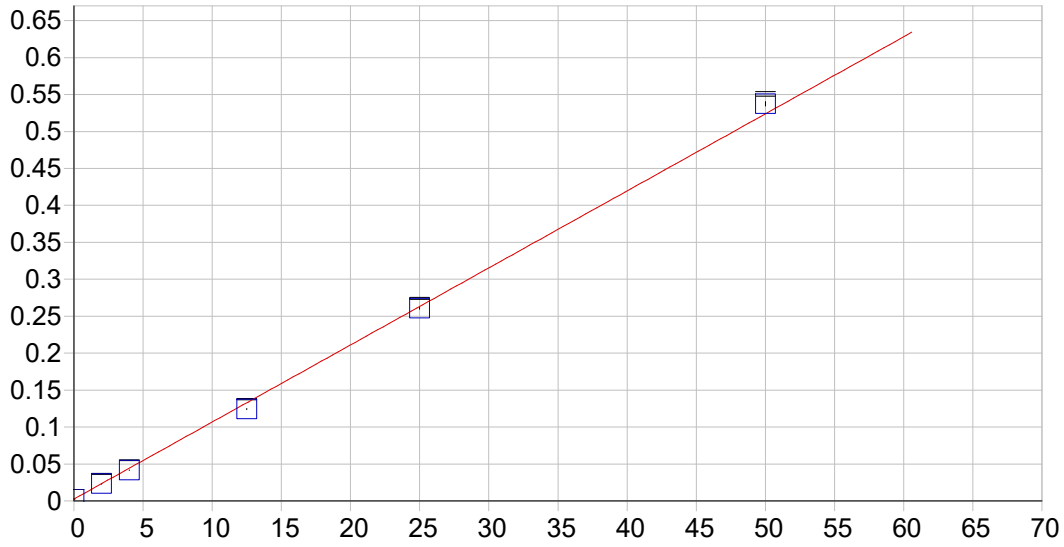



**Ag 328.068 {103}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000803 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.194782 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999922 | Status: | OK. |
| Std Error of Est: | 0.000020 | | |
| Predicted MDL: | 0.000612 | | |
| Predicted MQL: | 0.002040 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | -.00080 | .000 | 1 |
| S1 | .01000 | .01051 | .001 | 5.06 | .00123 | .000 | 1 |
| S3 | .62500 | .60738 | -.018 | -2.82 | .11691 | .001 | 1 |
| S4 | 1.2500 | 1.2530 | .003 | .236 | .24207 | .001 | 1 |
| S5 | 2.5000 | 2.5174 | .017 | .698 | .48719 | .001 | 1 |
| S2 | .20000 | .19672 | -.003 | -1.64 | .03733 | .000 | 1 |

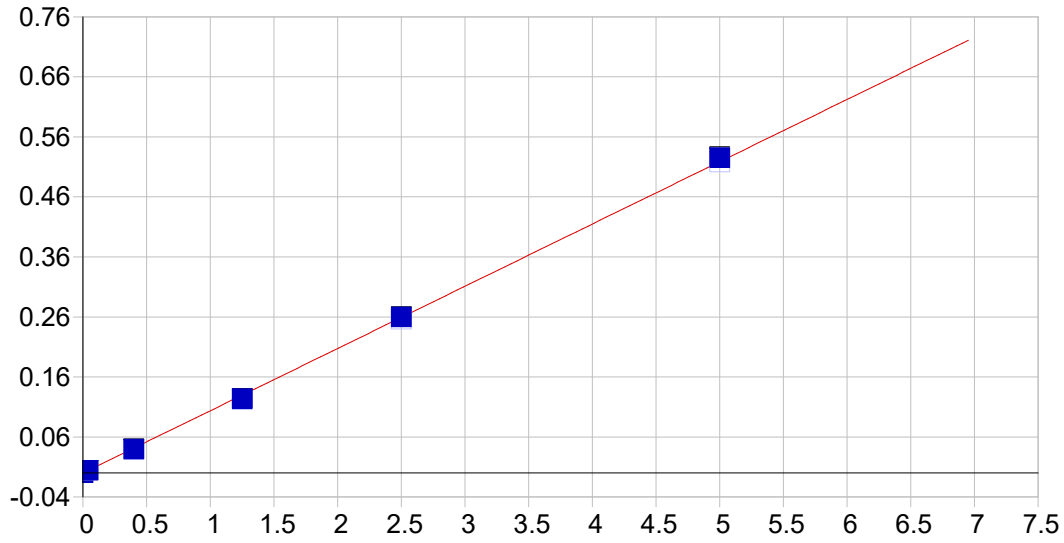



**Na 589.592 { 57}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.002534 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.010426 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999439 | Status: | OK. |
| Std Error of Est: | 0.000185 | | |
| Predicted MDL: | 0.015157 | | |
| Predicted MQL: | 0.050524 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00023 | .000 | .000 | .00254 | .000 | 1 |
| S2 | 4.0000 | 3.7564 | -.244 | -6.09 | .04170 | .000 | 1 |
| S3 | 12.500 | 11.679 | -.821 | -6.57 | .12430 | .001 | 1 |
| S4 | 25.000 | 24.771 | -.229 | -.916 | .26080 | .001 | 1 |
| S5 | 50.000 | 51.304 | 1.30 | 2.61 | .53745 | .003 | 1 |
| S1 | 2.0000 | 1.9895 | -.010 | -.523 | .02328 | .001 | 1 |

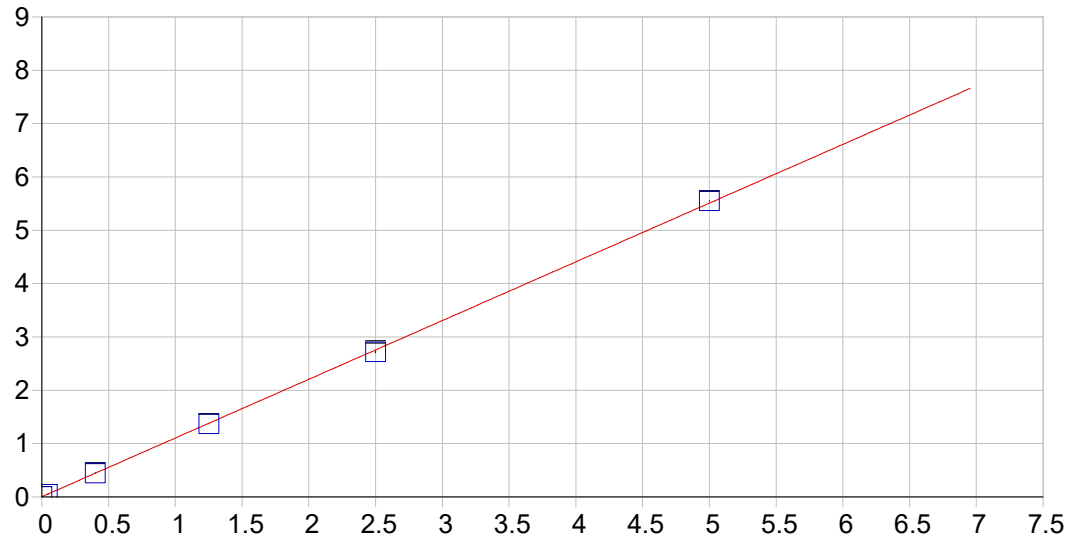



**V 292.402 {115}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000187 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.103759 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999750 | Status: | OK. |
| Std Error of Est: | 0.000054 | | |
| Predicted MDL: | 0.003895 | | |
| Predicted MQL: | 0.012982 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00019 | .000 | 1 |
| S1 | .04000 | .04231 | .002 | 5.77 | .00405 | .000 | 1 |
| S3 | 1.2500 | 1.1925 | -.058 | -4.60 | .12165 | .000 | 1 |
| S4 | 2.5000 | 2.5074 | .007 | .297 | .25620 | .001 | 1 |
| S5 | 5.0000 | 5.0657 | .066 | 1.31 | .51787 | .001 | 1 |
| S2 | .40000 | .38211 | -.018 | -4.47 | .03885 | .001 | 1 |

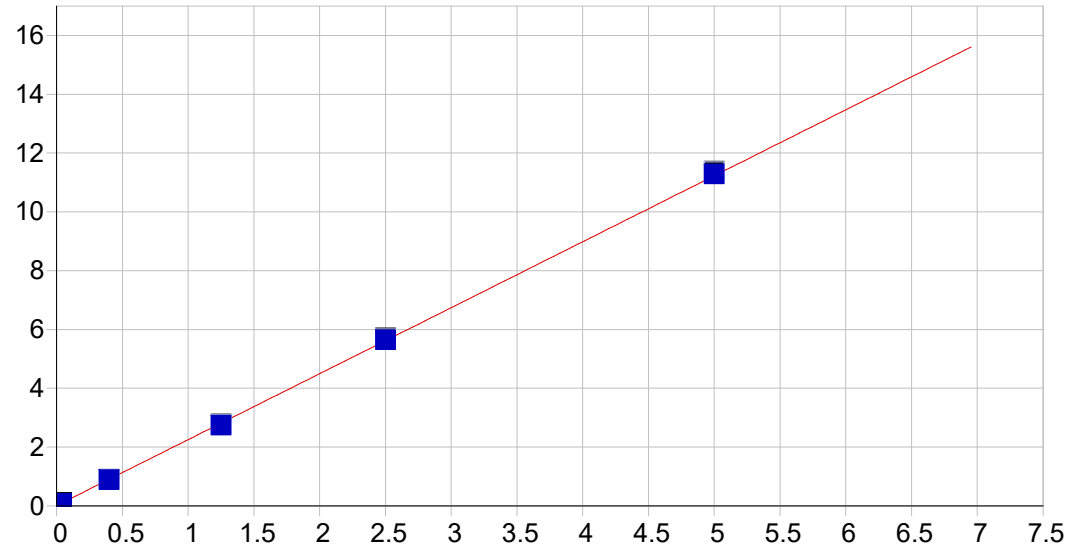



**Zn 206.200 {464}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.003780 | Re-Slope: | 1.000000 |
| A1 (Gain): | 1.100957 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999950 | Status: | OK. |
| Std Error of Est: | 0.000258 | | |
| Predicted MDL: | 0.000160 | | |
| Predicted MQL: | 0.000533 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00378 | .000 | 1 |
| S1 | .04000 | .04205 | .002 | 5.12 | .05007 | .000 | 1 |
| S3 | 1.2500 | 1.2414 | -.009 | -.689 | 1.3705 | .001 | 1 |
| S4 | 2.5000 | 2.4665 | -.034 | -1.34 | 2.7193 | .022 | 1 |
| S5 | 5.0000 | 5.0386 | .039 | .773 | 5.5511 | .006 | 1 |
| S2 | .40000 | .40145 | .001 | .363 | .44576 | .009 | 1 |

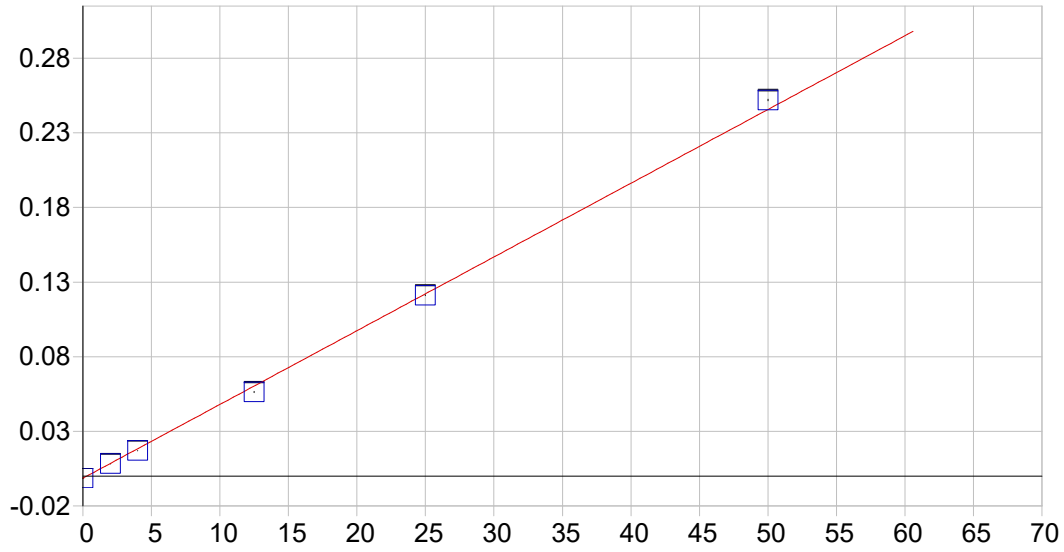



**Zn 213.856 {158}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.008735 | Re-Slope: | 1.000000 |
| A1 (Gain): | 2.243877 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999939 | Status: | OK. |
| Std Error of Est: | 0.000587 | | |
| Predicted MDL: | 0.000263 | | |
| Predicted MQL: | 0.000876 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00874 | .001 | 1 |
| S1 | .04000 | .04078 | .001 | 1.96 | .10088 | .004 | 1 |
| S3 | 1.2500 | 1.2174 | -.033 | -2.61 | 2.7599 | .024 | 1 |
| S4 | 2.5000 | 2.5119 | .012 | .474 | 5.6841 | .034 | 1 |
| S5 | 5.0000 | 5.0259 | .026 | .518 | 11.364 | .019 | 1 |
| S2 | .40000 | .39409 | -.006 | -1.48 | .89927 | .001 | 1 |

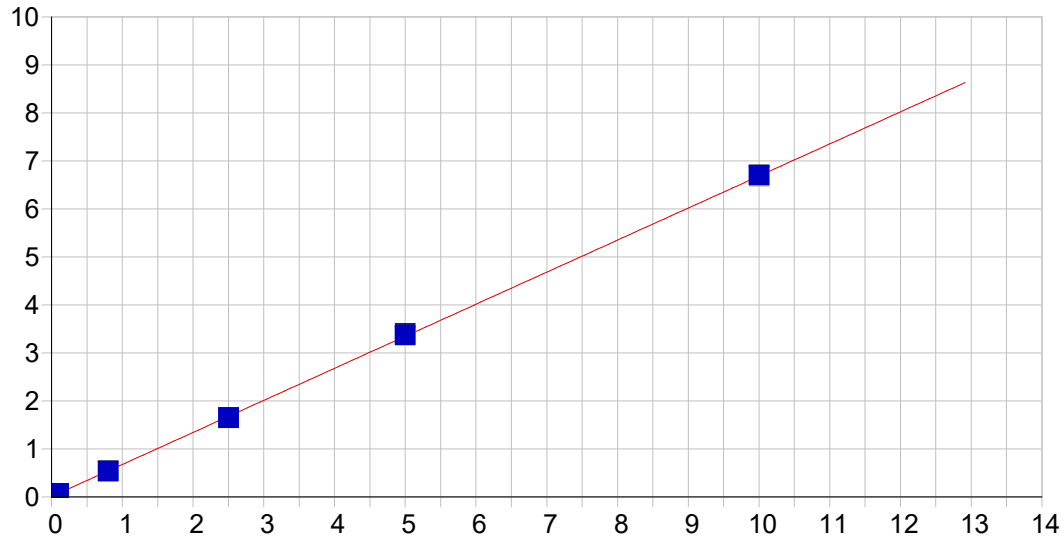



**K 766.490 { 44}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.001430 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.004942 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999450 | Status: | OK. |
| Std Error of Est: | 0.000087 | | |
| Predicted MDL: | 0.041652 | | |
| Predicted MQL: | 0.138841 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00025 | .000 | .000 | -.00143 | .000 | 1 |
| S2 | 4.0000 | 3.7422 | -.258 | -6.45 | .01706 | .000 | 1 |
| S3 | 12.500 | 11.701 | -.799 | -6.39 | .05640 | .000 | 1 |
| S4 | 25.000 | 24.800 | -.200 | -.799 | .12114 | .000 | 1 |
| S5 | 50.000 | 51.287 | 1.29 | 2.57 | .25205 | .001 | 1 |
| S1 | 2.0000 | 1.9699 | -.030 | -1.50 | .00831 | .000 | 1 |

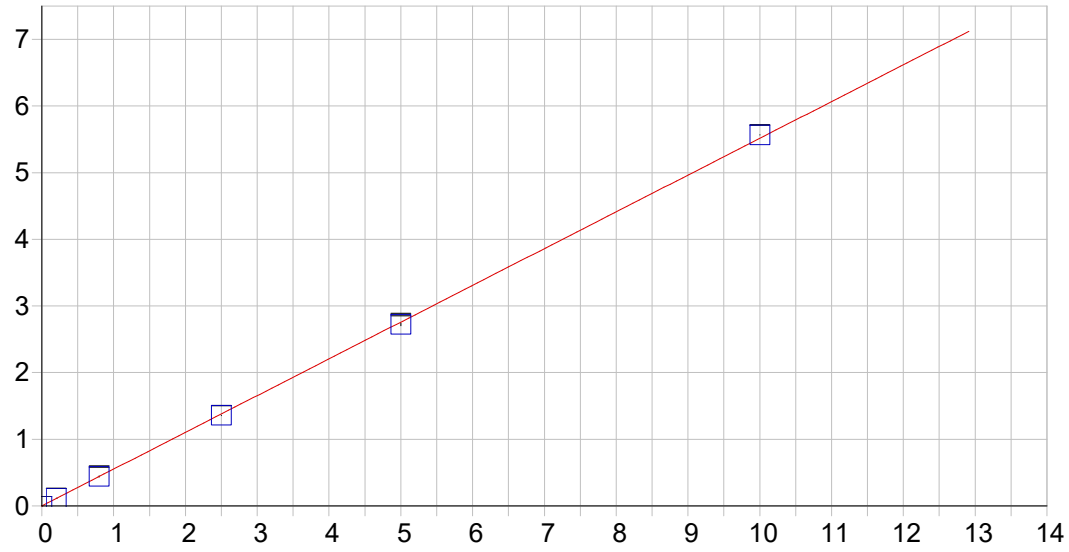



**B 249.678 {135}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.007510 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.667828 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999963 | Status: | OK. |
| Std Error of Est: | 0.000301 | | |
| Predicted MDL: | 0.000982 | | |
| Predicted MQL: | 0.003274 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00751 | .000 | 1 |
| S1 | .10000 | .10009 | .000 | .088 | .07396 | .001 | 1 |
| S3 | 2.5000 | 2.4529 | -.047 | -1.88 | 1.6396 | .011 | 1 |
| S4 | 5.0000 | 5.0369 | .037 | .738 | 3.3593 | .031 | 1 |
| S5 | 10.000 | 10.021 | .021 | .210 | 6.6757 | .007 | 1 |
| S2 | .80000 | .78914 | -.011 | -1.36 | .53259 | .005 | 1 |

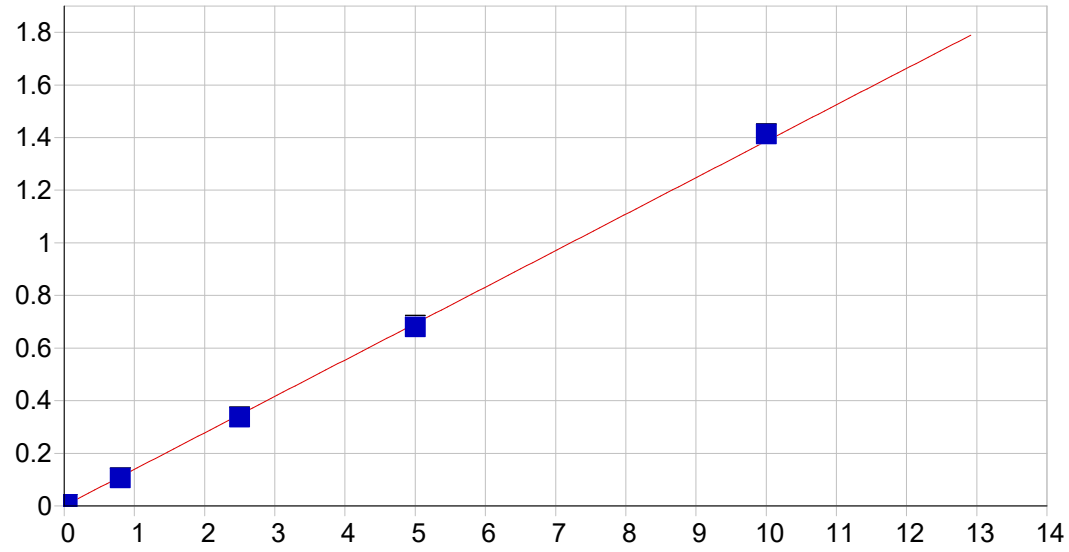



**Mo 202.030 {467}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000483 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.551490 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999921 | Status: | OK. |
| Std Error of Est: | 0.000517 | | |
| Predicted MDL: | 0.000323 | | |
| Predicted MQL: | 0.001076 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00001 | -.000 | .000 | .00048 | .000 | 1 |
| S1 | .20000 | .21086 | .011 | 5.43 | .11677 | .000 | 1 |
| S3 | 2.5000 | 2.4598 | -.040 | -1.61 | 1.3570 | .003 | 1 |
| S4 | 5.0000 | 4.9365 | -.063 | -1.27 | 2.7229 | .019 | 1 |
| S5 | 10.000 | 10.094 | .094 | .941 | 5.5673 | .000 | 1 |
| S2 | .80000 | .79872 | -.001 | -.160 | .44097 | .008 | 1 |

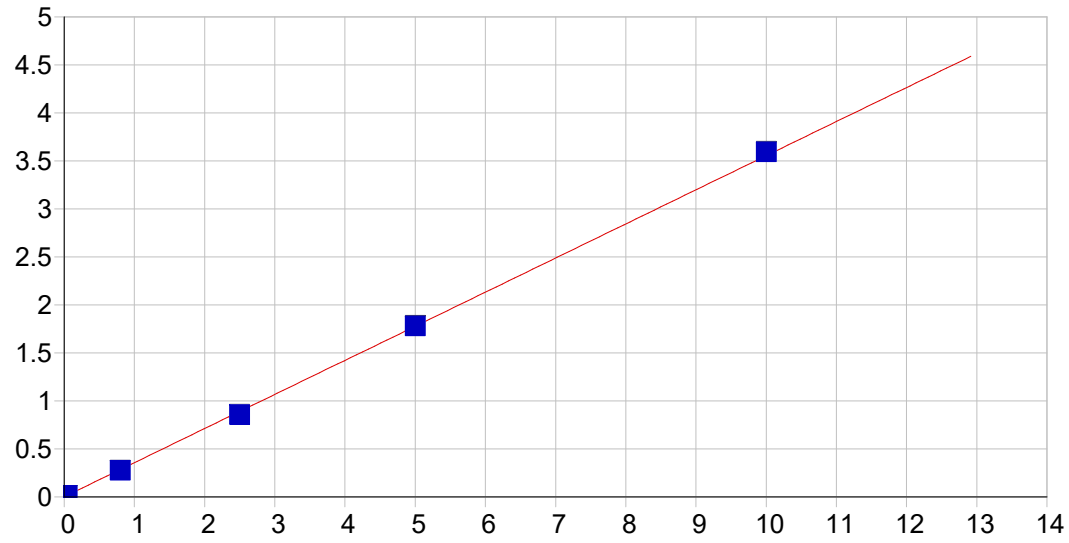



**Sn 189.989 {478}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000436 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.138550 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999754 | Status: | OK. |
| Std Error of Est: | 0.000102 | | |
| Predicted MDL: | 0.000721 | | |
| Predicted MQL: | 0.002404 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00044 | .000 | 1 |
| S1 | .04000 | .03934 | -.001 | -1.66 | .00588 | .000 | 1 |
| S3 | 2.5000 | 2.4324 | -.068 | -2.70 | .33709 | .001 | 1 |
| S4 | 5.0000 | 4.9080 | -.092 | -1.84 | .67973 | .007 | 1 |
| S5 | 10.000 | 10.196 | .196 | 1.96 | 1.4117 | .001 | 1 |
| S2 | .80000 | .76386 | -.036 | -4.52 | .10616 | .002 | 1 |

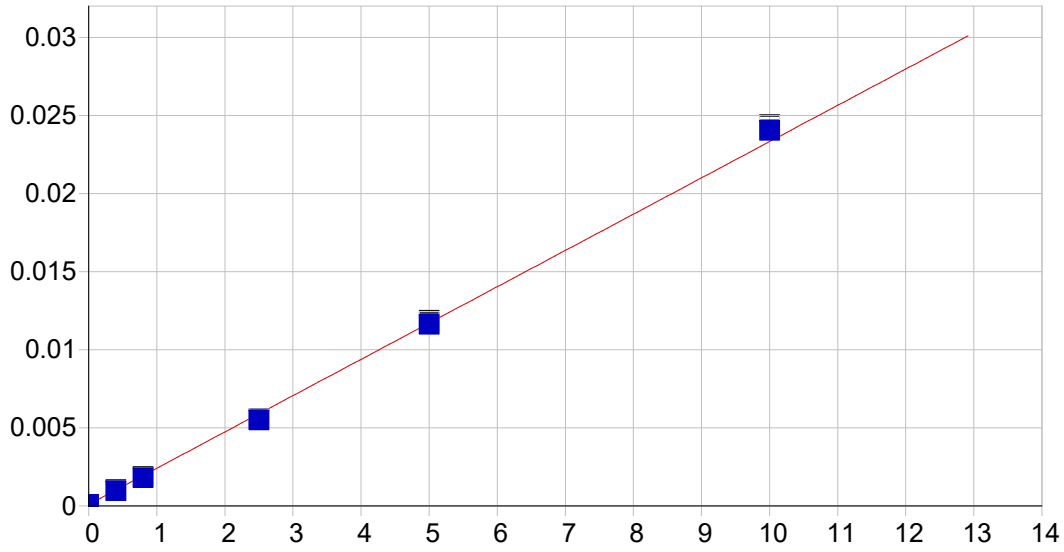



**Ti 336.121 {100}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.001367 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.355269 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999844 | Status: | OK. |
| Std Error of Est: | 0.000208 | | |
| Predicted MDL: | 0.001783 | | |
| Predicted MQL: | 0.005942 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00137 | .000 | 1 |
| S1 | .04000 | .03944 | -.001 | -1.39 | .01537 | .001 | 1 |
| S3 | 2.5000 | 2.4075 | -.093 | -3.70 | .85635 | .004 | 1 |
| S4 | 5.0000 | 5.0101 | .010 | .203 | 1.7807 | .005 | 1 |
| S5 | 10.000 | 10.112 | .112 | 1.12 | 3.5924 | .006 | 1 |
| S2 | .80000 | .77142 | -.029 | -3.57 | .27533 | .003 | 1 |

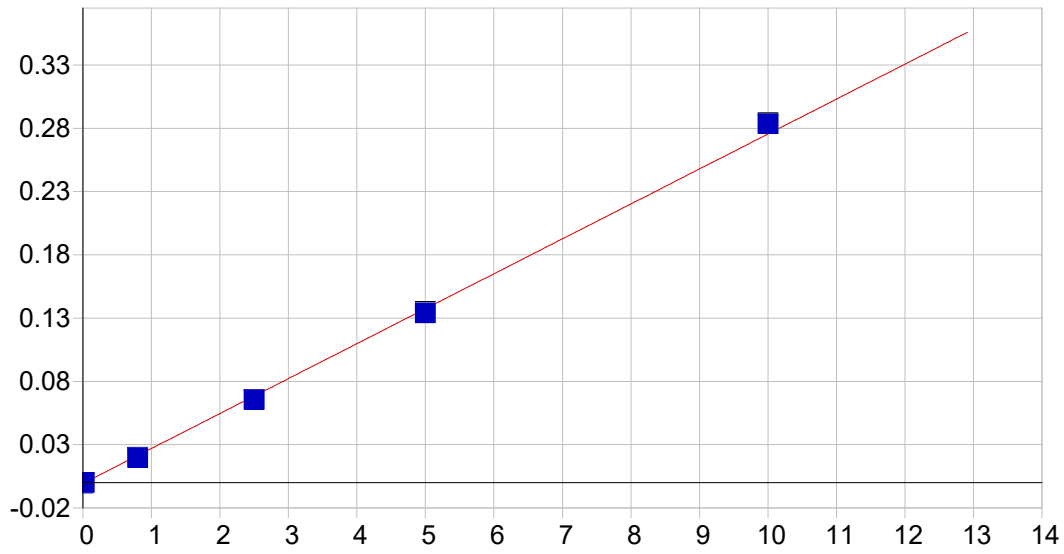



**Si 288.158 {117}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000089 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.002323 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999257 | Status: | OK. |
| Std Error of Est: | 0.000010 | | |
| Predicted MDL: | 0.016561 | | |
| Predicted MQL: | 0.055204 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00008 | .000 | .000 | .00009 | .000 | 1 |
| S1 | .40000 | .37508 | -.025 | -6.23 | .00096 | .000 | 1 |
| S3 | 2.5000 | 2.3215 | -.179 | -7.14 | .00557 | .000 | 1 |
| S4 | 5.0000 | 4.9642 | -.036 | -.716 | .01180 | .000 | 1 |
| S5 | 10.000 | 10.302 | .302 | 3.02 | .02437 | .000 | 1 |
| S2 | .80000 | .73708 | -.063 | -7.87 | .00183 | .000 | 1 |

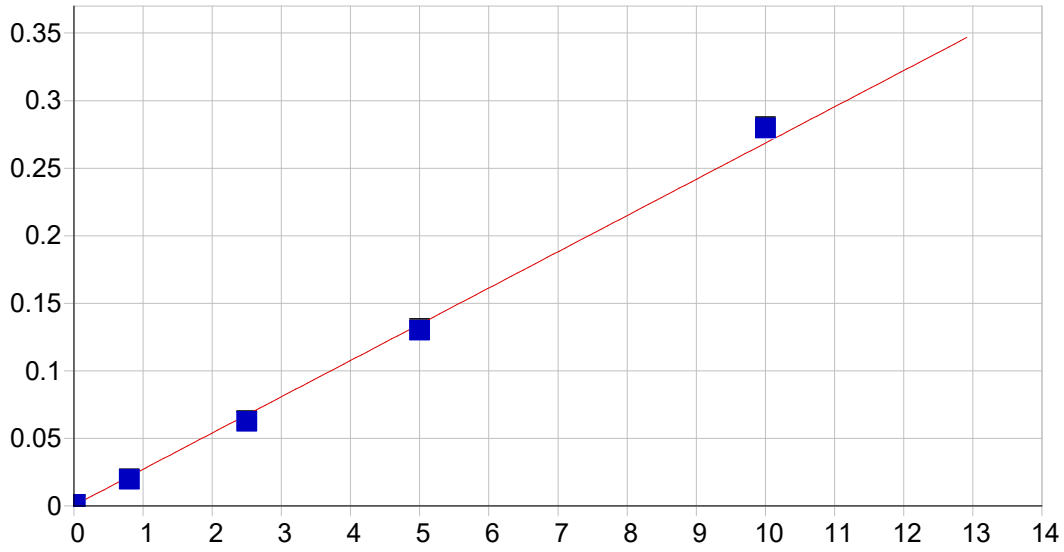



**P 177.495 {490}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000639 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.027609 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999418 | Status: | OK. |
| Std Error of Est: | 0.000022 | | |
| Predicted MDL: | 0.002703 | | |
| Predicted MQL: | 0.009009 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00064 | .000 | 1 |
| S1 | .02000 | .02075 | .001 | 3.73 | -.00007 | .000 | 1 |
| S3 | 2.5000 | 2.3921 | -.108 | -4.31 | .06540 | .000 | 1 |
| S4 | 5.0000 | 4.8798 | -.120 | -2.40 | .13407 | .001 | 1 |
| S5 | 10.000 | 10.292 | .292 | 2.92 | .28348 | .001 | 1 |
| S2 | .80000 | .73518 | -.065 | -8.10 | .01966 | .000 | 1 |

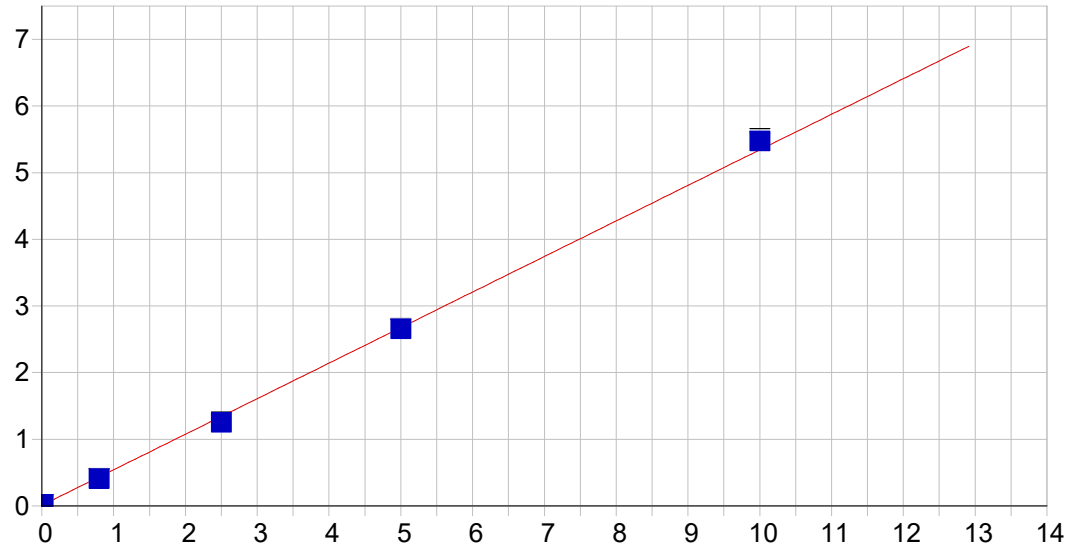



**S 182.034 {485}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000338 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.026823 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.998806 | Status: | OK. |
| Std Error of Est: | 0.000031 | | |
| Predicted MDL: | 0.003334 | | |
| Predicted MQL: | 0.011113 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00034 | .000 | 1 |
| S1 | .02000 | .02119 | .001 | 5.96 | .00088 | .000 | 1 |
| S3 | 2.5000 | 2.3223 | -.178 | -7.11 | .06245 | .000 | 1 |
| S4 | 5.0000 | 4.8393 | -.161 | -3.21 | .12979 | .001 | 1 |
| S5 | 10.000 | 10.418 | .418 | 4.18 | .27909 | .001 | 1 |
| S2 | .80000 | .71887 | -.081 | -10.1 | .01956 | .000 | 1 |

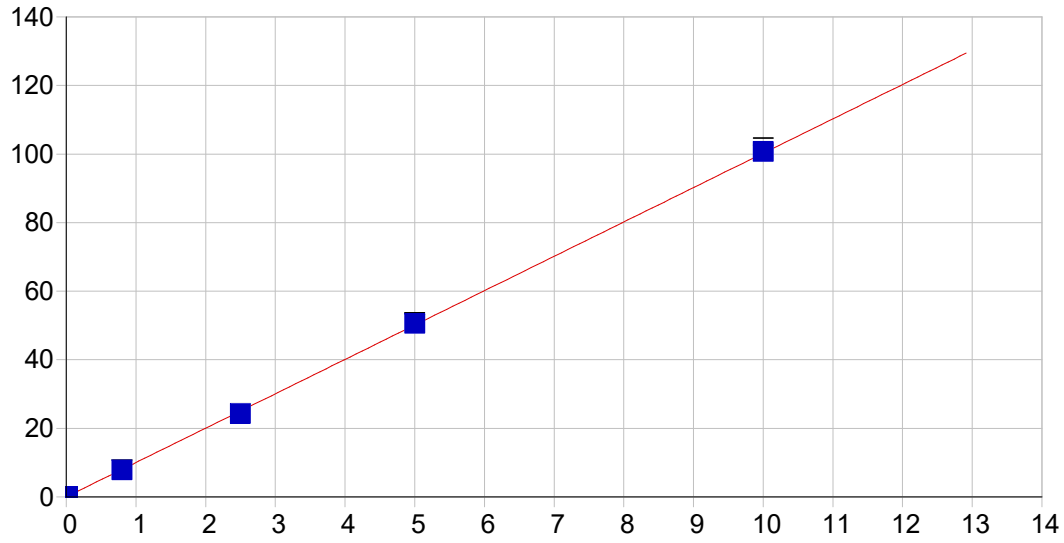



**Li 670.784 { 50}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.008499 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.533450 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999438 | Status: | OK. |
| Std Error of Est: | 0.000420 | | |
| Predicted MDL: | 0.004088 | | |
| Predicted MQL: | 0.013626 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00850 | .000 | 1 |
| S5 | 10.000 | 10.248 | .248 | 2.48 | 5.4795 | .035 | 1 |
| S4 | 5.0000 | 4.9651 | -.035 | -.697 | 2.6593 | .005 | 1 |
| S3 | 2.5000 | 2.3331 | -.167 | -6.68 | 1.2542 | .003 | 1 |
| S1 | .02000 | .02207 | .002 | 10.4 | .02046 | .001 | 1 |
| S2 | .80000 | .75180 | -.048 | -6.03 | .40989 | .004 | 1 |

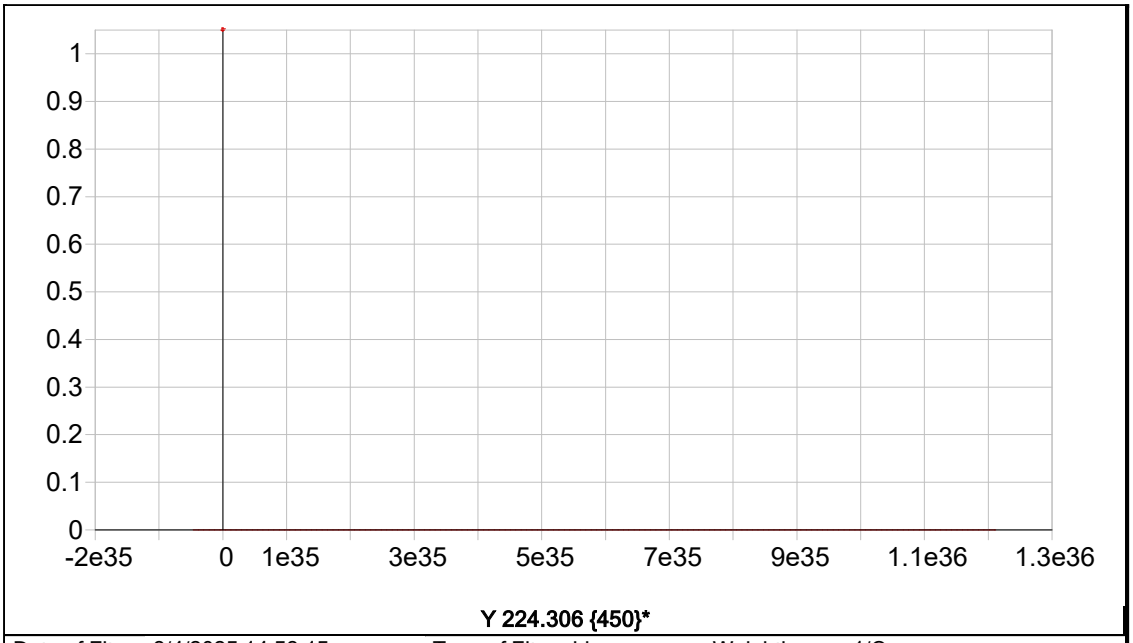



**Sr 407.771 { 83}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.002780 | Re-Slope: | 1.000000 |
| A1 (Gain): | 10.023203 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999910 | Status: | OK. |
| Std Error of Est: | 0.003149 | | |
| Predicted MDL: | 0.000111 | | |
| Predicted MQL: | 0.000371 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00278 | .000 | 1 |
| S1 | .02000 | .02037 | .000 | 1.85 | .20791 | .003 | 1 |
| S3 | 2.5000 | 2.4231 | -.077 | -3.08 | 24.314 | .056 | 1 |
| S4 | 5.0000 | 5.0451 | .045 | .902 | 50.619 | .272 | 1 |
| S5 | 10.000 | 10.047 | .047 | .468 | 100.80 | 1.00 | 1 |
| S2 | .80000 | .78463 | -.015 | -1.92 | 7.8750 | .050 | 1 |

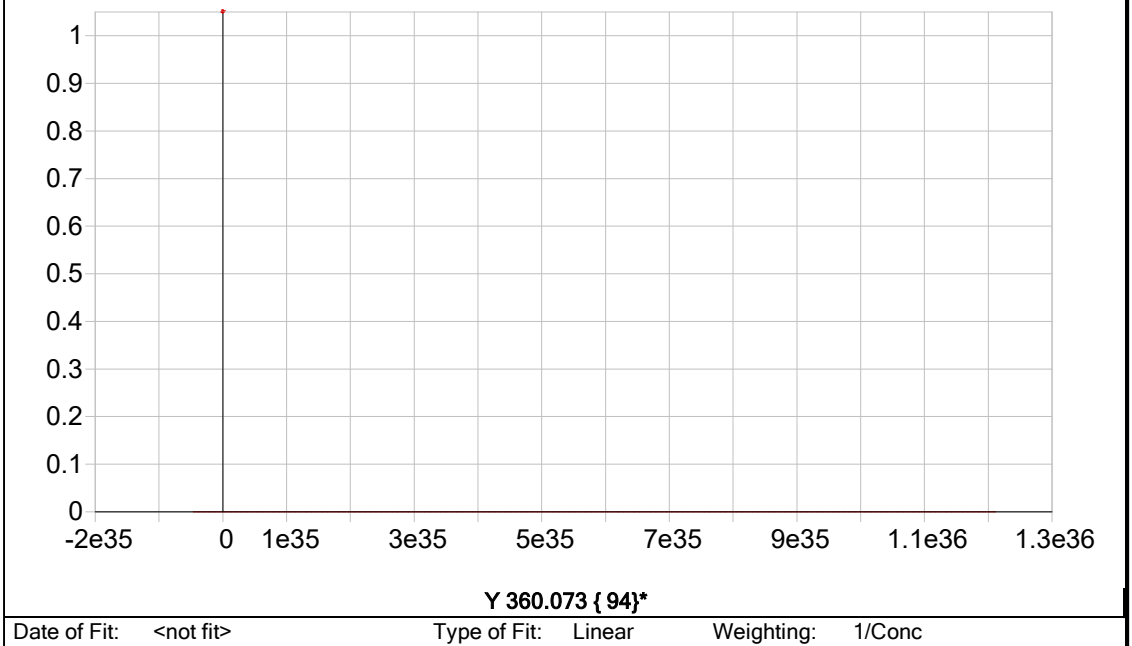



**Y 224.306 {450}***

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/4/2025 14:58:15 | 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 |
|---|---|---|---|---|---|---|---|



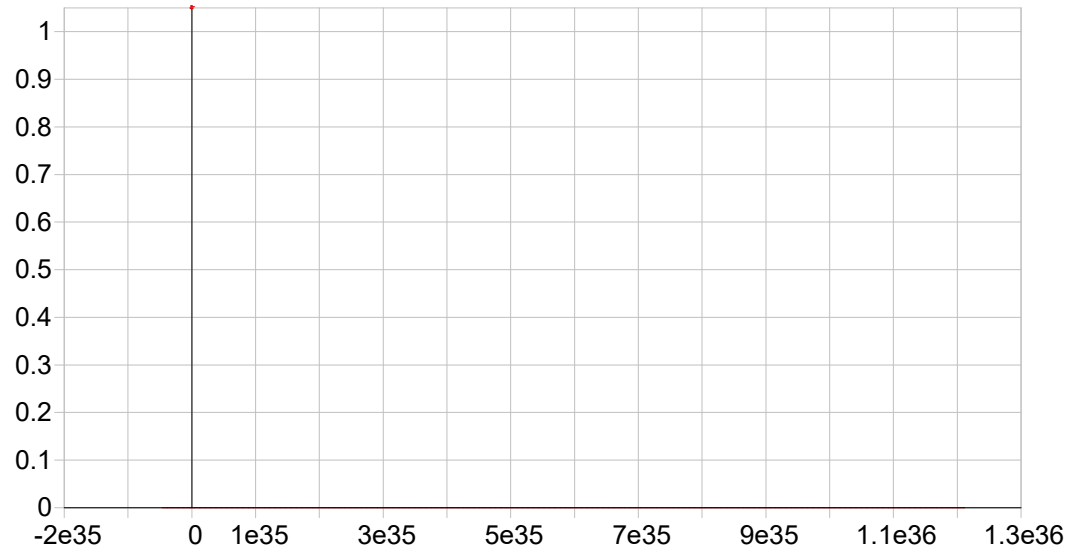

**Y 360.073 { 94}***

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

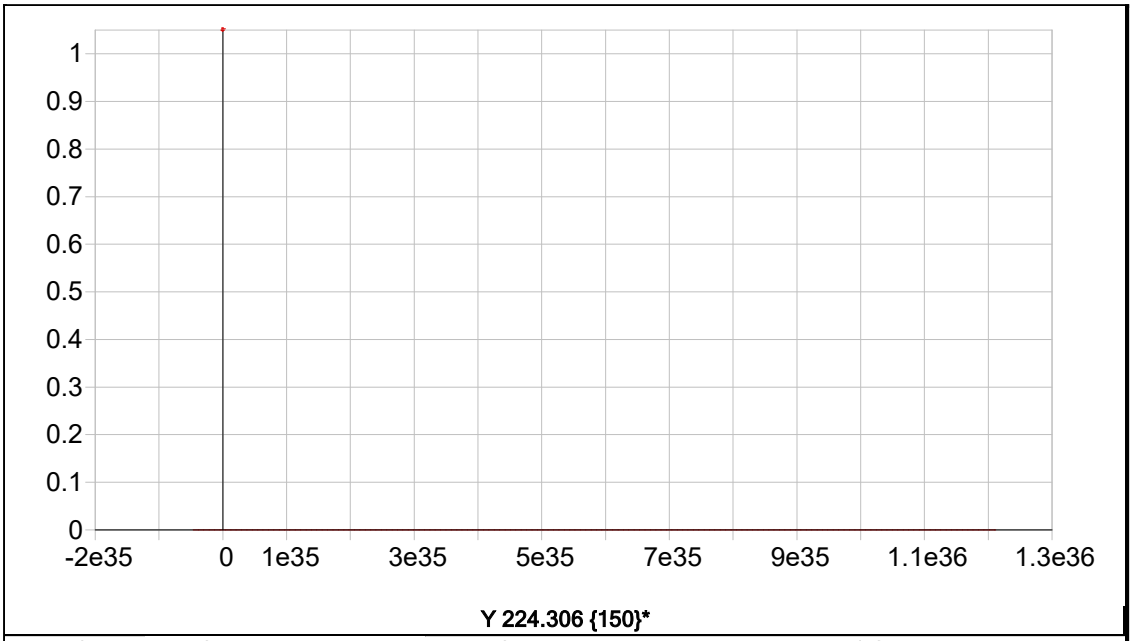
| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|




**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 |
|---|---|---|---|---|---|---|---|

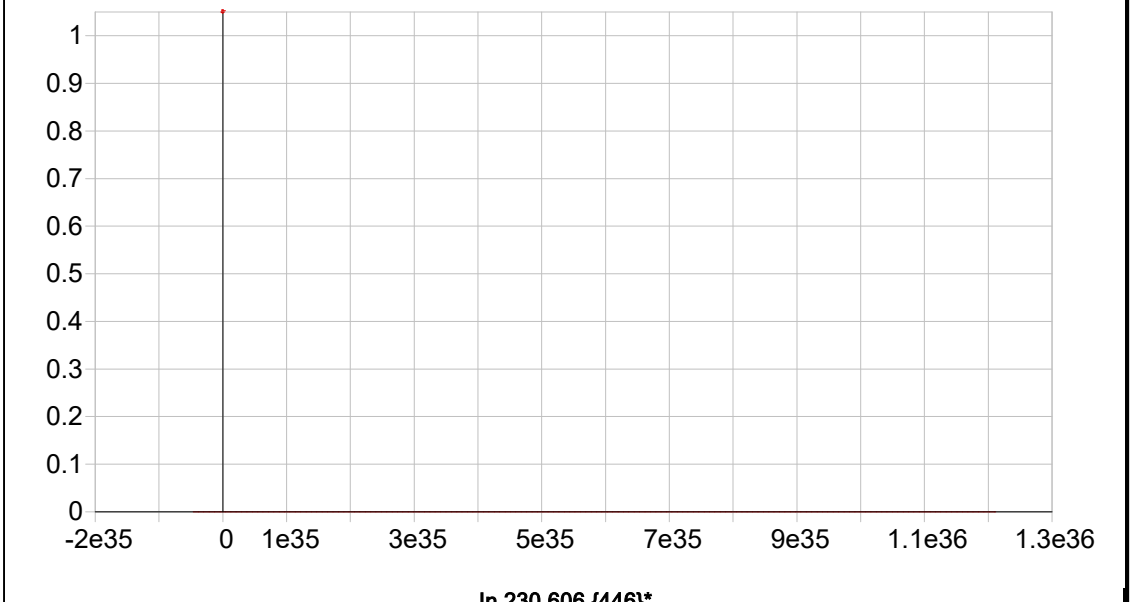



**Y 224.306 {150}***

| | | | | | |
|---|---|---|---|---|---|
| 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:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: S0 Acquired: 8/4/2025 11:15:54 Type: Cal
Method: 6010-200.7 NEW(v81) 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 | **.00002** | **.00068** | **.00022** | **.00027** | **.00063** | **.00053** | **.09266** | **-.00058** |
| Stddev | .00011 | .00005 | .00015 | .00009 | .00010 | .00065 | .00155 | .00043 |
| %RSD | 586.32 | 6.6741 | 66.618 | 31.827 | 16.276 | 123.72 | 1.6679 | 74.200 |
| #1 | .00004 | .00073 | .00038 | .00025 | .00052 | .00009 | .09441 | -.00093 |
| #2 | -.00010 | .00065 | .00008 | .00019 | .00065 | .00128 | .09150 | -.00069 |
| #3 | .00012 | .00066 | .00020 | .00036 | .00073 | .00021 | .09205 | -.00010 |

| 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 | **-.00036** | **.00199** | **.00042** | **.00012** | **.00058** | **.00006** | **.00134** | **-.00007** |
| Stddev | .00010 | .00184 | .00004 | .00022 | .00016 | .00002 | .00015 | .00040 |
| %RSD | 27.194 | 92.803 | 10.559 | 174.49 | 27.025 | 25.139 | 11.024 | 550.11 |
| #1 | -.00047 | -.00001 | .00037 | .00038 | .00061 | .00005 | .00141 | .00027 |
| #2 | -.00036 | .00363 | .00046 | .00000 | .00041 | .00008 | .00117 | -.00051 |
| #3 | -.00027 | .00233 | .00042 | -.00000 | .00072 | .00006 | .00144 | .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 | **-.00043** | **-.00080** | **.00254** | **-.00019** | **.00874** | **-.00143** | **.00751** | **.00048** |
| Stddev | .00002 | .00002 | .00013 | .00025 | .00053 | .00004 | .00025 | .00010 |
| %RSD | 4.3818 | 2.4894 | 4.9740 | 133.47 | 6.0983 | 3.0357 | 3.3123 | 19.906 |
| #1 | -.00041 | -.00083 | .00266 | -.00037 | .00820 | -.00138 | .00735 | .00037 |
| #2 | -.00045 | -.00079 | .00241 | .00010 | .00927 | -.00145 | .00780 | .00055 |
| #3 | -.00042 | -.00079 | .00253 | -.00029 | .00874 | -.00146 | .00738 | .00052 |

| 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 | **.00044** | **.00137** | **.00009** | **-.00064** | **.00034** | **.00850** | **.00278** |
| Stddev | .00006 | .00042 | .00002 | .00009 | .00005 | .00021 | .00042 |
| %RSD | 12.803 | 30.487 | 22.622 | 13.529 | 13.926 | 2.4895 | 15.217 |
| #1 | .00038 | .00151 | .00007 | -.00071 | .00029 | .00843 | .00239 |
| #2 | .00049 | .00169 | .00010 | -.00067 | .00034 | .00874 | .00323 |
| #3 | .00045 | .00090 | .00010 | -.00054 | .00039 | .00833 | .00273 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: S0 Acquired: 8/4/2025 11:15:54 Type: Cal
Method: 6010-200.7 NEW(v81) 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 | 5554.9 | 94078. | 7815.4 | 4760.9 | 7044.2 |
| Stddev | 10.2 | 2956. | 1.6 | 140.5 | 9.1 |
| %RSD | .18365 | 3.1425 | .02032 | 2.9504 | .12979 |
| #1 | 5550.1 | 96870. | 7817.1 | 4892.2 | 7036.8 |
| #2 | 5566.6 | 90981. | 7814.1 | 4612.8 | 7054.4 |
| #3 | 5548.0 | 94382. | 7814.9 | 4777.7 | 7041.3 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: S1 Acquired: 8/4/2025 11:20:17 Type: Cal
Method: 6010-200.7 NEW(v81) 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 | **.00109** | **.00212** | **.00233** | **.00104** | **.00505** | **.00925** | **.42099** | **.04844** |
| Stddev | .00017 | .00010 | .00003 | .00002 | .00007 | .00116 | .00446 | .00151 |
| %RSD | 15.857 | 4.8558 | 1.4303 | 1.9170 | 1.4048 | 12.585 | 1.0587 | 3.1268 |
| #1 | .00090 | .00217 | .00234 | .00103 | .00513 | .00837 | .41602 | .04698 |
| #2 | .00123 | .00200 | .00229 | .00107 | .00500 | .00880 | .42233 | .04835 |
| #3 | .00114 | .00219 | .00236 | .00103 | .00503 | .01057 | .42463 | .05000 |

| 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 | **.01632** | **.14332** | **.00189** | **.03108** | **.01507** | **.00041** | **.01248** | **.02494** |
| Stddev | .00039 | .00077 | .00006 | .00021 | .00019 | .00001 | .00028 | .00051 |
| %RSD | 2.3943 | .53674 | 3.2371 | .66045 | 1.2552 | 2.2572 | 2.2642 | 2.0426 |
| #1 | .01677 | .14314 | .00188 | .03129 | .01485 | .00040 | .01227 | .02463 |
| #2 | .01608 | .14265 | .00183 | .03108 | .01515 | .00042 | .01237 | .02466 |
| #3 | .01611 | .14416 | .00195 | .03088 | .01520 | .00042 | .01280 | .02553 |

| 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 | **.02369** | **.00123** | **.02328** | **.00405** | **.10088** | **.00831** | **.07396** | **.11677** |
| Stddev | .00037 | .00023 | .00055 | .00016 | .00363 | .00031 | .00135 | .00021 |
| %RSD | 1.5606 | 18.792 | 2.3519 | 3.9906 | 3.5962 | 3.6866 | 1.8227 | .17904 |
| #1 | .02378 | .00125 | .02311 | .00415 | .09980 | .00823 | .07307 | .11701 |
| #2 | .02400 | .00098 | .02283 | .00386 | .09791 | .00805 | .07329 | .11668 |
| #3 | .02328 | .00144 | .02389 | .00413 | .10492 | .00864 | .07551 | .11663 |

| 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 | **.00588** | **.01537** | **.00096** | **-.00007** | **.00088** | **.02046** | **.20791** |
| Stddev | .00003 | .00064 | .00006 | .00003 | .00003 | .00096 | .00264 |
| %RSD | .45088 | 4.1696 | 5.9547 | 42.941 | 3.0380 | 4.7012 | 1.2675 |
| #1 | .00586 | .01518 | .00095 | -.00006 | .00089 | .01984 | .20518 |
| #2 | .00591 | .01608 | .00091 | -.00009 | .00091 | .02157 | .20810 |
| #3 | .00586 | .01484 | .00103 | -.00004 | .00086 | .01997 | .21044 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: S1 Acquired: 8/4/2025 11:20:17 Type: Cal
Method: 6010-200.7 NEW(v81) 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 | 5506.9 | 94154. | 7855.6 | 4799.4 | 6855.9 |
| Stddev | 34.3 | 2698. | 110.4 | 153.5 | 38.7 |
| %RSD | .62341 | 2.8658 | 1.4053 | 3.1981 | .56435 |
| #1 | 5479.4 | 94605. | 7941.3 | 4844.1 | 6829.3 |
| #2 | 5495.9 | 96599. | 7894.6 | 4925.5 | 6838.2 |
| #3 | 5545.4 | 91259. | 7731.0 | 4628.5 | 6900.3 |

Sample Name: S2 Acquired: 8/4/2025 11:24:37 Type: Cal
Method: 6010-200.7 NEW(v81) 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 | **.03700** | **.02864** | **.14857** | **.02927** | **.06717** | **.11958** | **5.1292** | **.31472** | **1.0656** |
| Stddev | .00063 | .00057 | .00280 | .00064 | .00118 | .00045 | .0326 | .00353 | .0219 |
| %RSD | 1.7047 | 1.9818 | 1.8869 | 2.1942 | 1.7598 | .38006 | .63615 | 1.1214 | 2.0520 |
| #1 | .03627 | .02830 | .14536 | .02854 | .06580 | .11906 | 5.1329 | .31081 | 1.0406 |
| #2 | .03733 | .02929 | .14983 | .02972 | .06778 | .11976 | 5.0949 | .31567 | 1.0749 |
| #3 | .03739 | .02832 | .15053 | .02956 | .06792 | .11991 | 5.1598 | .31767 | 1.0813 |

| 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 | **.27207** | **.02558** | **.38505** | **.13210** | **.00273** | **.21434** | **.04473** | **.22405** | **.03733** |
| Stddev | .00245 | .00028 | .00764 | .00238 | .00002 | .00094 | .00014 | .00452 | .00009 |
| %RSD | .90037 | 1.1070 | 1.9848 | 1.7982 | .55472 | .43865 | .31145 | 2.0159 | .22999 |
| #1 | .27114 | .02591 | .37630 | .12939 | .00274 | .21424 | .04464 | .21892 | .03740 |
| #2 | .27022 | .02546 | .38846 | .13304 | .00273 | .21345 | .04466 | .22578 | .03734 |
| #3 | .27485 | .02539 | .39040 | .13385 | .00271 | .21532 | .04489 | .22744 | .03723 |

| 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 | **.04170** | **.03885** | **.89927** | **.01706** | **.53259** | **.44097** | **.10616** | **.27533** | **.00183** |
| Stddev | .00047 | .00076 | .00097 | .00014 | .00528 | .00814 | .00193 | .00267 | .00004 |
| %RSD | 1.1339 | 1.9685 | .10821 | .81197 | .99203 | 1.8470 | 1.8181 | .97071 | 2.1104 |
| #1 | .04220 | .03928 | .89843 | .01722 | .52724 | .43157 | .10394 | .27449 | .00186 |
| #2 | .04126 | .03797 | .90034 | .01703 | .53274 | .44538 | .10702 | .27318 | .00179 |
| #3 | .04164 | .03931 | .89904 | .01695 | .53780 | .44595 | .10750 | .27832 | .00184 |

| Elem | P_1774 | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.01966** | **.01956** | **.40989** | **7.8750** |
| Stddev | .00039 | .00028 | .00395 | .0499 |
| %RSD | 1.9926 | 1.4276 | .96409 | .63402 |
| #1 | .01921 | .01930 | .41258 | 7.8787 |
| #2 | .01992 | .01986 | .40535 | 7.8232 |
| #3 | .01984 | .01953 | .41173 | 7.9229 |

Sample Name: S2 Acquired: 8/4/2025 11:24:37 Type: Cal
Method: 6010-200.7 NEW(v81) 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 | 5469.2 | 92158. | 7662.4 | 4715.1 | 6716.4 |
| Stddev | 94.5 | 365. | 61.9 | 15.1 | 127.8 |
| %RSD | 1.7285 | .39620 | .80719 | .32021 | 1.9024 |
| #1 | 5571.6 | 91740. | 7719.3 | 4731.9 | 6852.9 |
| #2 | 5450.5 | 92319. | 7671.5 | 4710.9 | 6696.7 |
| #3 | 5385.3 | 92416. | 7596.6 | 4702.6 | 6599.6 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: S3 Acquired: 8/4/2025 11:28:41 Type: Cal
Method: 6010-200.7 NEW(v81) 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 | **.11597** | **.08575** | **.46763** | **.09128** | **.20884** | **.36959** | **15.790** | **.97841** | **3.4017** |
| Stddev | .00048 | .00182 | .00114 | .00031 | .00089 | .00100 | .038 | .00605 | .0081 |
| %RSD | .41461 | 2.1269 | .24332 | .33846 | .42441 | .27141 | .24071 | .61788 | .23720 |
| #1 | .11596 | .08612 | .46665 | .09147 | .20950 | .37024 | 15.747 | .97143 | 3.3941 |
| #2 | .11549 | .08377 | .46736 | .09092 | .20783 | .37009 | 15.801 | .98215 | 3.4007 |
| #3 | .11645 | .08736 | .46888 | .09145 | .20919 | .36843 | 15.821 | .98164 | 3.4102 |

| 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 | **.83456** | **.07863** | **1.2118** | **.40602** | **.00843** | **.66142** | **.13761** | **.70587** | **.11691** |
| Stddev | .00757 | .00092 | .0018 | .00105 | .00005 | .00212 | .00058 | .00181 | .00091 |
| %RSD | .90699 | 1.1676 | .14471 | .25741 | .55376 | .32012 | .42025 | .25624 | .77807 |
| #1 | .82674 | .07880 | 1.2100 | .40563 | .00839 | .65904 | .13798 | .70407 | .11645 |
| #2 | .83508 | .07764 | 1.2118 | .40523 | .00841 | .66215 | .13792 | .70585 | .11633 |
| #3 | .84185 | .07945 | 1.2135 | .40721 | .00848 | .66308 | .13695 | .70768 | .11796 |

| 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 | **.12430** | **.12165** | **2.7599** | **.05640** | **1.6396** | **1.3570** | **.33709** | **.85635** | **.00557** |
| Stddev | .00068 | .00028 | .0243 | .00048 | .0107 | .0031 | .00073 | .00450 | .00001 |
| %RSD | .54475 | .22902 | .88100 | .85123 | .65115 | .22777 | .21682 | .52528 | .17655 |
| #1 | .12458 | .12194 | 2.7502 | .05621 | 1.6284 | 1.3576 | .33700 | .85186 | .00557 |
| #2 | .12353 | .12164 | 2.7419 | .05604 | 1.6407 | 1.3537 | .33641 | .85633 | .00556 |
| #3 | .12479 | .12138 | 2.7876 | .05695 | 1.6497 | 1.3598 | .33786 | .86086 | .00558 |

| Elem | P_1774 | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **.06540** | **.06245** | **1.2542** | **24.314** |
| Stddev | .00026 | .00034 | .0034 | .056 |
| %RSD | .40330 | .54971 | .27431 | .23107 |
| #1 | .06537 | .06270 | 1.2572 | 24.367 |
| #2 | .06514 | .06206 | 1.2549 | 24.320 |
| #3 | .06567 | .06260 | 1.2504 | 24.255 |

Sample Name: S3 Acquired: 8/4/2025 11:28:41 Type: Cal
Method: 6010-200.7 NEW(v81) 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 | 5363.0 | 90097. | 7577.3 | 4631.0 | 6409.1 |
| Stddev | 6.2 | 681. | 8.6 | 31.1 | 5.4 |
| %RSD | .11509 | .75631 | .11370 | .67202 | .08368 |
| #1 | 5357.4 | 89975. | 7585.1 | 4641.1 | 6413.0 |
| #2 | 5361.9 | 90831. | 7578.8 | 4655.9 | 6403.0 |
| #3 | 5369.6 | 89485. | 7568.0 | 4596.1 | 6411.2 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: S4 Acquired: 8/4/2025 11:32:45 Type: Cal
Method: 6010-200.7 NEW(v81) 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 | .23387 | .17871 | .93691 | .18408 | .41979 | .76303 | 33.001 | 1.9952 | 6.9153 |
| Stddev | .00180 | .00156 | .00864 | .00167 | .00314 | .00204 | .109 | .0184 | .0650 |
| %RSD | .77129 | .87031 | .92175 | .90926 | .74706 | .26797 | .33063 | .92254 | .94032 |
| #1 | .23595 | .18047 | .94639 | .18601 | .42326 | .76460 | 33.092 | 1.9837 | 6.9878 |
| #2 | .23267 | .17813 | .92948 | .18307 | .41715 | .76378 | 33.032 | 1.9854 | 6.8620 |
| #3 | .23300 | .17752 | .93487 | .18315 | .41896 | .76072 | 32.880 | 2.0164 | 6.8962 |

| 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 | 1.7241 | .16158 | 2.4509 | .80099 | .01769 | 1.3679 | .28387 | 1.4236 | .24207 |
| Stddev | .0064 | .00060 | .0221 | .00574 | .00005 | .0004 | .00110 | .0124 | .00103 |
| %RSD | .37255 | .36879 | .89953 | .71697 | .28366 | .02876 | .38732 | .87302 | .42509 |
| #1 | 1.7221 | .16123 | 2.4758 | .80758 | .01763 | 1.3681 | .28467 | 1.4377 | .24121 |
| #2 | 1.7189 | .16124 | 2.4339 | .79704 | .01773 | 1.3674 | .28432 | 1.4142 | .24179 |
| #3 | 1.7312 | .16227 | 2.4430 | .79837 | .01770 | 1.3681 | .28262 | 1.4189 | .24321 |

| 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 | .26080 | .25620 | 5.6841 | .12114 | 3.3593 | 2.7229 | .67973 | 1.7807 | .01180 |
| Stddev | .00143 | .00053 | .0337 | .00033 | .0310 | .0194 | .00684 | .0047 | .00009 |
| %RSD | .54988 | .20834 | .59326 | .27048 | .92379 | .71425 | 1.0062 | .26198 | .74000 |
| #1 | .26094 | .25681 | 5.6558 | .12103 | 3.3399 | 2.7451 | .68738 | 1.7764 | .01178 |
| #2 | .26217 | .25592 | 5.6750 | .12151 | 3.3428 | 2.7087 | .67422 | 1.7799 | .01189 |
| #3 | .25931 | .25586 | 5.7214 | .12089 | 3.3951 | 2.7150 | .67757 | 1.7857 | .01172 |

| Elem | P_1774 | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | .13407 | .12979 | 2.6593 | 50.619 |
| Stddev | .00106 | .00116 | .0052 | .272 |
| %RSD | .79090 | .89617 | .19434 | .53761 |
| #1 | .13529 | .13113 | 2.6577 | 50.876 |
| #2 | .13344 | .12906 | 2.6651 | 50.334 |
| #3 | .13348 | .12918 | 2.6551 | 50.647 |

Sample Name: S4 Acquired: 8/4/2025 11:32:45 Type: Cal
Method: 6010-200.7 NEW(v81) 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 | 5474.9 | 89848. | 7646.1 | 4601.7 | 6412.0 |
| Stddev | 32.1 | 291. | 46.8 | 14.5 | 50.5 |
| %RSD | .58716 | .32397 | .61167 | .31407 | .78711 |
| #1 | 5437.9 | 89579. | 7636.0 | 4603.1 | 6355.3 |
| #2 | 5495.8 | 90157. | 7697.1 | 4615.5 | 6452.0 |
| #3 | 5491.0 | 89808. | 7605.3 | 4586.7 | 6428.8 |

Sample Name: S5 Acquired: 8/4/2025 11:36:56 Type: Cal
Method: 6010-200.7 NEW(v81) 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 | .48801 | .35314 | 1.9667 | .38220 | .86987 | 1.5358 | 65.975 | 3.9810 | 14.414 |
| Stddev | .00049 | .00951 | .0022 | .00061 | .00024 | .0082 | .570 | .0063 | .012 |
| %RSD | .09959 | 2.6936 | .11103 | .16048 | .02762 | .53449 | .86420 | .15925 | .08471 |
| #1 | .48833 | .34309 | 1.9690 | .38155 | .87001 | 1.5445 | 65.414 | 3.9737 | 14.420 |
| #2 | .48745 | .35432 | 1.9647 | .38229 | .86959 | 1.5282 | 65.958 | 3.9841 | 14.400 |
| #3 | .48825 | .36200 | 1.9664 | .38277 | .87000 | 1.5347 | 66.554 | 3.9851 | 14.422 |

| 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 | 3.4572 | .32018 | 5.1292 | 1.6352 | .03561 | 2.7377 | .57300 | 2.9687 | .48719 |
| Stddev | .0107 | .00107 | .0065 | .0016 | .00012 | .0027 | .00152 | .0021 | .00091 |
| %RSD | .30808 | .33467 | .12675 | .09931 | .33803 | .09893 | .26581 | .07093 | .18608 |
| #1 | 3.4529 | .32082 | 5.1327 | 1.6367 | .03566 | 2.7408 | .57475 | 2.9709 | .48818 |
| #2 | 3.4693 | .32078 | 5.1217 | 1.6335 | .03570 | 2.7363 | .57197 | 2.9667 | .48640 |
| #3 | 3.4493 | .31894 | 5.1332 | 1.6355 | .03547 | 2.7360 | .57227 | 2.9685 | .48698 |

| 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 | .53745 | .51787 | 11.364 | .25205 | 6.6757 | 5.5673 | 1.4117 | 3.5924 | .02437 |
| Stddev | .00288 | .00139 | .019 | .00062 | .0066 | .0003 | .0012 | .0057 | .00005 |
| %RSD | .53515 | .26899 | .16335 | .24411 | .09887 | .00504 | .08737 | .15940 | .21992 |
| #1 | .54060 | .51836 | 11.385 | .25276 | 6.6831 | 5.5676 | 1.4119 | 3.5923 | .02443 |
| #2 | .53497 | .51629 | 11.351 | .25170 | 6.6703 | 5.5673 | 1.4104 | 3.5982 | .02432 |
| #3 | .53677 | .51894 | 11.357 | .25169 | 6.6738 | 5.5670 | 1.4129 | 3.5867 | .02437 |

| Elem | P_1774 | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | .28348 | .27909 | 5.4795 | 100.80 |
| Stddev | .00064 | .00097 | .0348 | 1.00 |
| %RSD | .22428 | .34630 | .63475 | .99341 |
| #1 | .28398 | .27811 | 5.5119 | 99.750 |
| #2 | .28276 | .27913 | 5.4427 | 100.91 |
| #3 | .28369 | .28004 | 5.4838 | 101.74 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: S5 Acquired: 8/4/2025 11:36:56 Type: Cal
Method: 6010-200.7 NEW(v81) 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 | 5294.8 | 89133. | 7622.3 | 4530.1 | 6056.4 |
| Stddev | 9.8 | 85. | 4.5 | 11.0 | 9.8 |
| %RSD | .18581 | .09551 | .05905 | .24390 | .16253 |
| #1 | 5283.5 | 89036. | 7626.7 | 4530.9 | 6046.9 |
| #2 | 5301.6 | 89196. | 7622.4 | 4540.8 | 6066.6 |
| #3 | 5299.4 | 89167. | 7617.7 | 4518.7 | 6055.7 |

Sample Name: ICV01 Acquired: 8/4/2025 11:41:07 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **3.970826** | **3.972482** | **4.075526** | **4.002757** | **4.138520** | **7.865382** |
| Stddev | .010276 | .033433 | .008147 | .005625 | .008330 | .017771 |
| %RSD | .2587869 | .8416129 | .1999045 | .1405263 | .2012724 | .2259428 |
| #1 | 3.976634 | 4.011034 | 4.066245 | 3.996747 | 4.135534 | 7.879640 |
| #2 | 3.958961 | 3.951461 | 4.078834 | 4.007896 | 4.132096 | 7.871034 |
| #3 | 3.976883 | 3.954950 | 4.081498 | 4.003627 | 4.147932 | 7.845472 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **7.810448** | **.2018685** | **1.977440** | **19.66004** | **.8120606** | **2.014839** |
| Stddev | .105028 | .0013510 | .004753 | .22994 | .0165251 | .004210 |
| %RSD | 1.344716 | .6692455 | .2403500 | 1.169594 | 2.034955 | .2089527 |
| #1 | 7.691678 | .2003867 | 1.972245 | 19.39487 | .8006967 | 2.011623 |
| #2 | 7.891073 | .2030318 | 1.978506 | 19.80441 | .8310175 | 2.013291 |
| #3 | 7.848595 | .2021871 | 1.981570 | 19.78083 | .8044677 | 2.019605 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.030504** | **3.983941** | **1.975045** | **19.70113** | **2.009473** | **.9823004** |
| Stddev | .002369 | .063284 | .004191 | .00964 | .004961 | .0169513 |
| %RSD | .2298636 | 1.588477 | .2121916 | .0489146 | .2468889 | 1.725670 |
| #1 | 1.028782 | 3.963842 | 1.970752 | 19.70024 | 2.005527 | .9684612 |
| #2 | 1.029526 | 4.054833 | 1.979125 | 19.71118 | 2.007850 | 1.001208 |
| #3 | 1.033206 | 3.933147 | 1.975259 | 19.69197 | 2.015043 | .977232 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **19.51425** | **2.004055** | **2.006169** | **19.63089** | F **.0126930** | F **.0015014** |
| Stddev | .23255 | .002291 | .036770 | .33004 | .0004605 | .0007056 |
| %RSD | 1.191668 | .1143403 | 1.832861 | 1.681218 | 3.627858 | 46.99724 |
| #1 | 19.37367 | 2.006369 | 1.972589 | 19.31068 | .0131619 | .0023033 |
| #2 | 19.78267 | 2.001786 | 2.045461 | 19.96994 | .0126758 | .0012254 |
| #3 | 19.38642 | 2.004011 | 2.000457 | 19.61205 | .0122414 | .0009755 |

Sample Name: ICV01 Acquired: 8/4/2025 11:41:07 Type: Unk
Method: 6010-200.7 NEW(v81) 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 -.000778 | F -.003790 | F -.039857 | F .0075561 | F .0194793 | F -.002126 |
| Stddev | .000862 | .001678 | .002427 | .0027049 | .0016459 | .003895 |
| %RSD | 110.8294 | 44.26866 | 6.089980 | 35.79813 | 8.449688 | 183.1908 |
| #1 | .000205 | -.003315 | -.039510 | .0093531 | .0212499 | -.003567 |
| #2 | -.001408 | -.002400 | -.042439 | .0088700 | .0191923 | .002284 |
| #3 | -.001131 | -.005653 | -.037622 | .0044452 | .0179958 | -.005096 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | F -.003295 |
| Stddev | .000047 |
| %RSD | 1.414195 |
| #1 | -.003299 |
| #2 | -.003339 |
| #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 | 5464.930 | 91550.36 | 7903.256 | 4690.455 | 6496.263 |
| Stddev | 8.325 | 1317.39 | 24.544 | 59.169 | 7.396 |
| %RSD | .1523266 | 1.438974 | .3105547 | 1.261476 | .1138559 |
| #1 | 5465.339 | 92531.58 | 7922.220 | 4747.262 | 6503.233 |
| #2 | 5473.043 | 90053.06 | 7875.534 | 4629.177 | 6497.051 |
| #3 | 5456.409 | 92066.42 | 7912.014 | 4694.926 | 6488.504 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: LLICV01 Acquired: 8/4/2025 11:45:17 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.0215443** | **.0449848** | **.0123908** | **.0201424** | **.0525370** | **.1139109** |
| Stddev | .0010647 | .0003750 | .0005710 | .0050069 | .0012762 | .0096646 |
| %RSD | 4.941712 | .8336628 | 4.608431 | 24.85752 | 2.429079 | 8.484354 |
| #1 | .0218187 | .0446213 | .0129070 | .0196526 | .0510684 | .1027756 |
| #2 | .0203693 | .0453703 | .0124880 | .0253761 | .0533757 | .1188404 |
| #3 | .0224449 | .0449628 | .0117774 | .0153983 | .0531670 | .1201168 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1061102** | **.0066805** | **.0062637** | **2.153539** | **.0089209** | **.0313337** |
| Stddev | .0006088 | .0000825 | .0000374 | .007678 | .0001885 | .0001097 |
| %RSD | .5737107 | 1.235013 | .5970980 | .3565373 | 2.113002 | .3500663 |
| #1 | .1062864 | .0065897 | .0062759 | 2.147237 | .0089147 | .0312807 |
| #2 | .1054328 | .0067509 | .0062217 | 2.162091 | .0087356 | .0312606 |
| #3 | .1066115 | .0067009 | .0062935 | 2.151291 | .0091125 | .0314598 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0227216** | **.1019264** | **.0212719** | **2.305166** | **.0419151** | **.0106542** |
| Stddev | .0001537 | .0029504 | .0004318 | .014357 | .0000954 | .0001644 |
| %RSD | .6765221 | 2.894598 | 2.029958 | .6228122 | .2276590 | 1.542671 |
| #1 | .0227267 | .0986772 | .0216937 | 2.314633 | .0419210 | .0107897 |
| #2 | .0228727 | .1026641 | .0208308 | 2.288647 | .0420074 | .0107016 |
| #3 | .0225654 | .1044379 | .0212912 | 2.312219 | .0418169 | .0104714 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.994837** | **.0413055** | **.0424445** | **1.961085** | **.1165120** | **.2105705** |
| Stddev | .037751 | .0016782 | .0000529 | .045861 | .0022036 | .0007520 |
| %RSD | 1.892423 | 4.062905 | .1245760 | 2.338576 | 1.891322 | .3571301 |
| #1 | 2.037751 | .0422522 | .0425029 | 1.995719 | .1139679 | .2101909 |
| #2 | 1.980006 | .0393678 | .0424307 | 1.909075 | .1177419 | .2100840 |
| #3 | 1.966753 | .0422964 | .0423999 | 1.978463 | .1178261 | .2114367 |

Sample Name: LLICV01 Acquired: 8/4/2025 11:45:17 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | .0402276 | .0417660 | .3642282 | F .0244153 | .0200131 | .0168092 |
| Stddev | .0001070 | .0014874 | .0137037 | .0010485 | .0012053 | .0006968 |
| %RSD | .2658645 | 3.561237 | 3.762399 | 4.294445 | 6.022509 | 4.145121 |
| #1 | .0401808 | .0404559 | .3751618 | .0232413 | .0196694 | .0166688 |
| #2 | .0401520 | .0433828 | .3488551 | .0247462 | .0213529 | .0175655 |
| #3 | .0403500 | .0414592 | .3686677 | .0252585 | .0190169 | .0161934 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0217058 |
| Stddev | .0000447 |
| %RSD | .2060711 |
| #1 | .0217105 |
| #2 | .0217480 |
| #3 | .0216589 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5574.351 | 94111.95 | 7788.779 | 4786.518 | 6965.481 |
| Stddev | 16.409 | 178.39 | 65.770 | 15.762 | 32.394 |
| %RSD | .2943588 | .1895476 | .8444240 | .3292988 | .4650647 |
| #1 | 5587.607 | 93920.21 | 7860.293 | 4779.400 | 6999.983 |
| #2 | 5579.447 | 94273.01 | 7775.159 | 4775.571 | 6960.741 |
| #3 | 5555.999 | 94142.62 | 7730.885 | 4804.584 | 6935.718 |

Sample Name: ICB01 Acquired: 8/4/2025 11:52:59 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.0019492** | **.0010461** | **.0000104** | **-.000021** | **.0001429** | **.0104415** | **.0001923** |
| Stddev | .0010364 | .0023794 | .0013042 | .001345 | .0026243 | .0170816 | .0006568 |
| %RSD | 53.16981 | 227.4646 | 12566.81 | 6458.937 | 1836.976 | 163.5931 | 341.5063 |
| #1 | .0029830 | -.001592 | .0002588 | -.000643 | .0027759 | .0176128 | .0005024 |
| #2 | .0009102 | .003030 | .0011725 | -.000942 | -.002473 | -.009057 | .0006366 |
| #3 | .0019546 | .001700 | -.001400 | .001522 | .000125 | .022768 | -.000562 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000074** | **.0000541** | **-.021076** | **-.001376** | **.0002093** | **-.000325** | **-.005593** |
| Stddev | .000034 | .0000518 | .006313 | .000343 | .0000711 | .000320 | .001678 |
| %RSD | 46.28627 | 95.69635 | 29.95117 | 24.89533 | 33.99225 | 98.49070 | 30.00975 |
| #1 | -.000036 | .0000885 | -.022099 | -.001366 | .0001733 | -.000199 | -.007254 |
| #2 | -.000102 | -.000005 | -.014315 | -.001039 | .0001633 | -.000088 | -.005627 |
| #3 | -.000085 | .000079 | -.026815 | -.001724 | .0002912 | -.000689 | -.003898 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.001494** | **.0342257** | **-.000244** | **.0002548** | **-.041003** | **.0002989** | **-.001059** |
| Stddev | .000355 | .0190104 | .000364 | .0002992 | .013170 | .0033880 | .000079 |
| %RSD | 23.79159 | 55.54426 | 149.1971 | 117.4257 | 32.12063 | 1133.494 | 7.509143 |
| #1 | -.001898 | .0468311 | -.000657 | .0002936 | -.025828 | -.003516 | -.001032 |
| #2 | -.001356 | .0434865 | -.000107 | -.000062 | -.047720 | .002958 | -.000996 |
| #3 | -.001228 | .0123594 | .000032 | .000533 | -.049461 | .001454 | -.001148 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.015639** | **.0013176** | **-.000035** | **-.000283** | **.0011092** | **.0050955** | **.0030152** |
| Stddev | .025424 | .0006872 | .000129 | .000196 | .0011624 | .0056406 | .0007751 |
| %RSD | 162.5619 | 52.15735 | 366.2804 | 69.27489 | 104.7960 | 110.6995 | 25.70809 |
| #1 | -.008371 | .0005813 | -.000184 | -.000060 | .0008887 | .0001006 | .0036947 |
| #2 | .005358 | .0019421 | .000049 | -.000362 | .0023661 | .0039727 | .0031799 |
| #3 | -.043906 | .0014295 | .000029 | -.000426 | .0000728 | .0112131 | .0021709 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: ICB01 Acquired: 8/4/2025 11:52:59 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | -.002900 | -.001802 | .0000217 |
| Stddev | .001764 | .004766 | .0000934 |
| %RSD | 60.83250 | 264.4492 | 430.8285 |
| #1 | -.001648 | .002704 | .0001174 |
| #2 | -.002134 | -.001320 | -.000069 |
| #3 | -.004918 | -.006790 | .000017 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5636.625 | 94626.86 | 7891.266 | 4824.616 | 7147.156 |
| Stddev | 3.625 | 265.87 | 57.854 | 20.499 | 4.647 |
| %RSD | .0643172 | .2809627 | .7331387 | .4248843 | .0650176 |
| #1 | 5640.466 | 94728.29 | 7934.641 | 4828.397 | 7150.980 |
| #2 | 5636.146 | 94827.08 | 7825.578 | 4842.961 | 7148.505 |
| #3 | 5633.263 | 94325.21 | 7913.579 | 4802.489 | 7141.984 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: CRI01 Acquired: 8/4/2025 11:57:19 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.0201108** | **.0463621** | **.0111678** | **.0219563** | **.0526086** | **.1114632** | **.1029082** |
| Stddev | .0017145 | .0020333 | .0019569 | .0046384 | .0022556 | .0189786 | .0002840 |
| %RSD | 8.525444 | 4.385744 | 17.52301 | 21.12565 | 4.287495 | 17.02681 | .2759654 |
| #1 | .0193755 | .0479002 | .0091212 | .0170184 | .0550829 | .1090829 | .1032045 |
| #2 | .0220704 | .0440568 | .0130207 | .0262218 | .0506671 | .0937870 | .1028819 |
| #3 | .0188866 | .0471294 | .0113614 | .0226287 | .0520758 | .1315197 | .1026383 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0064109** | **.0061367** | **2.082241** | **.0098539** | **.0312075** | **.0229449** | **.1108585** |
| Stddev | .0000437 | .0000390 | .006844 | .0002566 | .0002312 | .0003483 | .0099969 |
| %RSD | .6818832 | .6351684 | .3286947 | 2.604037 | .7406770 | 1.518058 | 9.017698 |
| #1 | .0064277 | .0061490 | 2.076250 | .0097082 | .0311320 | .0230239 | .0996249 |
| #2 | .0064438 | .0060931 | 2.080772 | .0101501 | .0310235 | .0225639 | .1187757 |
| #3 | .0063613 | .0061680 | 2.089700 | .0097032 | .0314669 | .0232470 | .1141750 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0205362** | **2.208710** | **.0418287** | **.0110505** | **2.034302** | **.0432490** | **.0447602** |
| Stddev | .0004428 | .032576 | .0004196 | .0002847 | .041786 | .0005332 | .0018730 |
| %RSD | 2.155936 | 1.474866 | 1.003039 | 2.576742 | 2.054084 | 1.232872 | 4.184482 |
| #1 | .0202349 | 2.228961 | .0418262 | .0111232 | 1.992989 | .0426442 | .0432673 |
| #2 | .0210445 | 2.171133 | .0414104 | .0112919 | 2.076546 | .0436513 | .0468618 |
| #3 | .0203292 | 2.226037 | .0422495 | .0107365 | 2.033371 | .0434516 | .0441515 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.028348** | **.1027240** | **.2096478** | **.0400882** | **.0391410** | **.3756268** | **.0229598** |
| Stddev | .081914 | .0006753 | .0003572 | .0004069 | .0018974 | .0134698 | .0026640 |
| %RSD | 4.038444 | .6573764 | .1703893 | 1.014922 | 4.847603 | 3.585956 | 11.60295 |
| #1 | 1.957896 | .1034454 | .2100049 | .0402590 | .0412878 | .3609635 | .0256594 |
| #2 | 2.118230 | .1026197 | .2092904 | .0396238 | .0376886 | .3784665 | .0203329 |
| #3 | 2.008920 | .1021069 | .2096482 | .0403819 | .0384466 | .3874503 | .0228871 |

Sample Name: CRI01 Acquired: 8/4/2025 11:57:19 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | .0211588 | .0198792 | .0208125 |
| Stddev | .0007094 | .0007344 | .0001794 |
| %RSD | 3.352772 | 3.694288 | .8617556 |
| #1 | .0206568 | .0198395 | .0209567 |
| #2 | .0219703 | .0206326 | .0206117 |
| #3 | .0208492 | .0191654 | .0208693 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5526.401 | 91443.93 | 7981.003 | 4657.235 | 6896.418 |
| Stddev | 4.736 | 2459.20 | 16.482 | 145.597 | 6.918 |
| %RSD | .0857000 | 2.689294 | .2065181 | 3.126246 | .1003105 |
| #1 | 5530.020 | 93936.58 | 7999.172 | 4801.966 | 6892.006 |
| #2 | 5528.143 | 89019.62 | 7976.827 | 4510.787 | 6904.391 |
| #3 | 5521.041 | 91375.60 | 7967.011 | 4658.953 | 6892.857 |

Sample Name: ICSA01 Acquired: 8/4/2025 12:01:34 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.0094505** | **.0146292** | **-.008462** | **.0002255** | **-.004941** | **249.4825** |
| Stddev | .0009085 | .0005499 | .002572 | .0022830 | .000897 | .1950 |
| %RSD | 9.613245 | 3.759169 | 30.39994 | 1012.384 | 18.14908 | .0781541 |
| #1 | .0092813 | .0147063 | -.011155 | -.002069 | -.004632 | 249.3236 |
| #2 | .0086384 | .0140448 | -.008202 | .000248 | -.004240 | 249.4240 |
| #3 | .0104316 | .0151366 | -.006029 | .002497 | -.005952 | 249.7001 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0062431** | **.0017363** | **-.000556** | **237.6221** | **.0560673** | **.0022170** |
| Stddev | .0003580 | .0000712 | .000212 | 1.1982 | .0007463 | .0000723 |
| %RSD | 5.734137 | 4.101786 | 38.16431 | .5042258 | 1.331088 | 3.261531 |
| #1 | .0059169 | .0016923 | -.000801 | 236.4535 | .0559100 | .0021340 |
| #2 | .0061863 | .0018185 | -.000431 | 238.8478 | .0554122 | .0022669 |
| #3 | .0066261 | .0016981 | -.000436 | 237.5648 | .0568797 | .0022500 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0104863** | **98.44583** | **.0065898** | **249.0685** | **.0049211** | **.0022201** |
| Stddev | .0009754 | .40846 | .0007865 | .5518 | .0001826 | .0002445 |
| %RSD | 9.301367 | .4149044 | 11.93568 | .2215269 | 3.710853 | 11.01391 |
| #1 | .0093775 | 98.90054 | .0074981 | 248.8291 | .0050938 | .0024270 |
| #2 | .0112117 | 98.32697 | .0061327 | 248.6768 | .0047300 | .0019502 |
| #3 | .0108697 | 98.11000 | .0061387 | 249.6995 | .0049395 | .0022830 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1153356** | **.0029899** | **.0003306** | **.1145506** | **.0267066** | **.0008150** |
| Stddev | .0128468 | .0014385 | .0004329 | .0483303 | .0026558 | .0004895 |
| %RSD | 11.13863 | 48.11315 | 130.9548 | 42.19127 | 9.944458 | 60.05658 |
| #1 | .1007169 | .0046227 | .0005905 | .0833859 | .0297726 | .0006901 |
| #2 | .1248268 | .0024377 | -.000169 | .1702252 | .0251136 | .0013548 |
| #3 | .1204630 | .0019093 | .000570 | .0900406 | .0252337 | .0004001 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: ICSA01 Acquired: 8/4/2025 12:01:34 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | -.003988 | -.005183 | .0148946 | .0045160 | -.000491 | F .0204200 |
| Stddev | .000754 | .000799 | .0163778 | .0037236 | .003231 | .0034843 |
| %RSD | 18.91182 | 15.42124 | 109.9584 | 82.45265 | 657.8403 | 17.06309 |
| #1 | -.003872 | -.006081 | .0227744 | .0045645 | -.000393 | .0171142 |
| #2 | -.004793 | -.004549 | -.003934 | .0082150 | .002690 | .0240589 |
| #3 | -.003298 | -.004919 | .025843 | .0007684 | -.003770 | .0200870 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0038664 |
| Stddev | .0006026 |
| %RSD | 15.58622 |
| #1 | .0031722 |
| #2 | .0042547 |
| #3 | .0041723 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5022.703 | 83394.11 | 7478.325 | 4281.521 | 5679.793 |
| Stddev | 18.319 | 26.84 | 43.556 | 14.591 | 16.534 |
| %RSD | .3647218 | .0321830 | .5824250 | .3407980 | .2911020 |
| #1 | 5016.031 | 83363.60 | 7528.248 | 4264.677 | 5676.234 |
| #2 | 5008.654 | 83404.66 | 7448.083 | 4290.293 | 5665.329 |
| #3 | 5043.422 | 83414.07 | 7458.644 | 4289.593 | 5697.817 |

Sample Name: ICSAB01 Acquired: 8/4/2025 12:05:46 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.1059510** | **.1057156** | **.0374783** | **.0420910** | **.5985184** | **256.8488** |
| Stddev | .0016232 | .0005604 | .0011931 | .0043622 | .0080785 | 2.0178 |
| %RSD | 1.532001 | .5300888 | 3.183542 | 10.36383 | 1.349756 | .7856041 |
| #1 | .1041548 | .1061228 | .0362000 | .0371300 | .5981712 | 259.0388 |
| #2 | .1063856 | .1050765 | .0385624 | .0438166 | .5906190 | 256.4427 |
| #3 | .1073127 | .1059476 | .0376726 | .0453265 | .6067649 | 255.0650 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.5095980** | **.5079346** | **.9832673** | **244.1377** | **.5525148** | **.4982504** |
| Stddev | .0057795 | .0016416 | .0001626 | 2.1142 | .0030516 | .0008751 |
| %RSD | 1.134129 | .3231932 | .0165373 | .8659665 | .5523107 | .1756327 |
| #1 | .5157912 | .5072718 | .9834029 | 246.4598 | .5534541 | .4981954 |
| #2 | .5086544 | .5098040 | .9833119 | 243.6293 | .5491040 | .4974041 |
| #3 | .5043483 | .5067280 | .9830870 | 242.3242 | .5549863 | .4991517 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4901521** | **101.0005** | **.4993994** | **256.6415** | **.9884317** | **.2140074** |
| Stddev | .0010649 | 1.0523 | .0034560 | 1.8832 | .0011960 | .0010139 |
| %RSD | .2172589 | 1.041903 | .6920216 | .7337830 | .1209988 | .4737656 |
| #1 | .4889872 | 102.2155 | .5028579 | 258.2681 | .9873392 | .2147418 |
| #2 | .4903935 | 100.3767 | .4993945 | 257.0780 | .9882465 | .2128506 |
| #3 | .4910756 | 100.4094 | .4959460 | 254.5784 | .9897095 | .2144298 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0942303** | **.4904849** | **1.023926** | **.0138259** | F **.0255963** | F **.0002879** |
| Stddev | .0099415 | .0057096 | .004101 | .0261530 | .0035793 | .0002259 |
| %RSD | 10.55019 | 1.164079 | .4005449 | 189.1598 | 13.98383 | 78.47210 |
| #1 | .0868874 | .4954313 | 1.025835 | .0400557 | .0297188 | .0000290 |
| #2 | .0902602 | .4842368 | 1.026726 | -.012250 | .0237901 | .0003896 |
| #3 | .1055434 | .4917867 | 1.019219 | .013671 | .0232799 | .0004450 |

Sample Name: ICSAB01 Acquired: 8/4/2025 12:05:46 Type: Unk
Method: 6010-200.7 NEW(v81) 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 -.003632 | F -.005898 | F .0227982 | F .0100404 | F -.004046 | F .0221497 |
| Stddev | .000654 | .001074 | .0126949 | .0043741 | .004619 | .0071902 |
| %RSD | 18.01061 | 18.20445 | 55.68345 | 43.56515 | 114.1593 | 32.46196 |
| #1 | -.003202 | -.006563 | .0104336 | .0148436 | -.002476 | .0221809 |
| #2 | -.004385 | -.006472 | .0221618 | .0062860 | -.009246 | .0293243 |
| #3 | -.003309 | -.004660 | .0357994 | .0089917 | -.000417 | .0149440 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | F .0044242 |
| Stddev | .0001486 |
| %RSD | 3.359650 |
| #1 | .0045082 |
| #2 | .0045119 |
| #3 | .0042526 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5017.741 | 82562.15 | 7381.396 | 4258.237 | 5672.480 |
| Stddev | 4.190 | 346.05 | 25.542 | 26.068 | 12.664 |
| %RSD | .0834966 | .4191345 | .3460323 | .6121797 | .2232513 |
| #1 | 5013.454 | 82165.62 | 7373.391 | 4242.097 | 5659.560 |
| #2 | 5017.941 | 82803.08 | 7360.816 | 4244.303 | 5673.008 |
| #3 | 5021.826 | 82717.77 | 7409.982 | 4288.311 | 5684.871 |

Sample Name: ICSADLX20 Acquired: 8/4/2025 12:09:51 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.0000411** | **-.000150** | **-.000862** | **-.001057** | **-.001762** | **11.96915** | **.0007584** |
| Stddev | .0020148 | .002385 | .001304 | .002472 | .001477 | .05001 | .0009972 |
| %RSD | 4898.590 | 1588.238 | 151.2342 | 233.9579 | 83.82112 | .4178602 | 131.4925 |
| #1 | -.001962 | .002399 | .000448 | -.003251 | -.003450 | 11.91293 | .0006927 |
| #2 | .000019 | -.002327 | -.000874 | .001621 | -.000704 | 12.00871 | -.000204 |
| #3 | .002067 | -.000522 | -.002160 | -.001540 | -.001133 | 11.98580 | .001787 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0001030** | **.0000321** | **12.00350** | **.0011385** | **.0002790** | **.0007556** | **4.601203** |
| Stddev | .0000864 | .0000606 | .06636 | .0005551 | .0000961 | .0003687 | .016397 |
| %RSD | 83.85765 | 189.1784 | .5528390 | 48.75699 | 34.43782 | 48.78962 | .3563545 |
| #1 | .0000110 | .0000952 | 11.93982 | .0016361 | .0002938 | .0003383 | 4.589105 |
| #2 | .0001823 | .0000266 | 11.99843 | .0005398 | .0001764 | .0010369 | 4.594640 |
| #3 | .0001158 | -.000026 | 12.07225 | .0012396 | .0003669 | .0008918 | 4.619865 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.001502** | **12.35236** | **.0002199** | **.0000335** | **-.002984** | **.0016155** | **-.001160** |
| Stddev | .000426 | .07626 | .0002572 | .0006955 | .009713 | .0014306 | .000425 |
| %RSD | 28.35351 | .6173611 | 116.9457 | 2077.248 | 325.5241 | 88.55372 | 36.66940 |
| #1 | -.001011 | 12.26805 | .0000711 | -.000335 | -.012527 | .0019601 | -.001612 |
| #2 | -.001731 | 12.41653 | .0005169 | .000836 | .006891 | .0000441 | -.000767 |
| #3 | -.001765 | 12.37250 | .0000717 | -.000400 | -.003316 | .0028423 | -.001101 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.048035** | **-.003381** | **.0001425** | **-.001507** | **.0007646** | **.0044678** | **.0012109** |
| Stddev | .031795 | .000962 | .0002850 | .000495 | .0018849 | .0089077 | .0015550 |
| %RSD | 66.19247 | 28.44744 | 200.0176 | 32.86014 | 246.5084 | 199.3739 | 128.4154 |
| #1 | -.012020 | -.004269 | .0004616 | -.000944 | .0009426 | -.003756 | .0025417 |
| #2 | -.059868 | -.003515 | -.000087 | -.001704 | .0025543 | .003230 | .0015893 |
| #3 | -.072217 | -.002360 | .000053 | -.001874 | -.001203 | .013930 | -.000498 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: ICSADLX20 Acquired: 8/4/2025 12:09:51 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | -.000741 | -.003260 | .0006088 |
| Stddev | .004562 | .001304 | .0001208 |
| %RSD | 615.3321 | 40.00911 | 19.83496 |
| #1 | -.005715 | -.004194 | .0007471 |
| #2 | .000243 | -.001770 | .0005552 |
| #3 | .003248 | -.003817 | .0005242 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5639.484 | 94954.14 | 7791.799 | 4814.573 | 6933.823 |
| Stddev | 16.975 | 212.62 | 26.923 | 17.412 | 17.595 |
| %RSD | .3010000 | .2239215 | .3455248 | .3616455 | .2537622 |
| #1 | 5658.811 | 95010.49 | 7812.292 | 4799.133 | 6954.026 |
| #2 | 5626.991 | 94719.02 | 7761.308 | 4811.140 | 6925.590 |
| #3 | 5632.650 | 95132.91 | 7801.797 | 4833.445 | 6921.854 |

Sample Name: ICSABDLX20 Acquired: 8/4/2025 12:14:08 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.0047066** | **.0073572** | **.0016688** | **.0041451** | **.0274458** | **12.29528** | **.0242850** |
| Stddev | .0010737 | .0005617 | .0010951 | .0023667 | .0017801 | .03554 | .0010828 |
| %RSD | 22.81316 | 7.634363 | 65.62197 | 57.09668 | 6.485903 | .2890702 | 4.458788 |
| #1 | .0039793 | .0067443 | .0005526 | .0058860 | .0291689 | 12.27160 | .0252178 |
| #2 | .0059398 | .0078473 | .0027416 | .0014503 | .0275547 | 12.27808 | .0230975 |
| #3 | .0042007 | .0074799 | .0017123 | .0050990 | .0256137 | 12.33615 | .0245396 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0254067** | **.0464320** | **12.31758** | **.0256734** | **.0239283** | **.0250344** | **4.733396** |
| Stddev | .0001447 | .0000544 | .05969 | .0002870 | .0000150 | .0002639 | .016044 |
| %RSD | .5696287 | .1172303 | .4846219 | 1.117918 | .0628753 | 1.054109 | .3389438 |
| #1 | .0254327 | .0463827 | 12.27520 | .0254706 | .0239290 | .0250646 | 4.750778 |
| #2 | .0252507 | .0464904 | 12.29169 | .0255479 | .0239430 | .0247567 | 4.730253 |
| #3 | .0255366 | .0464227 | 12.38585 | .0260018 | .0239129 | .0252818 | 4.719155 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0236964** | **12.72179** | **.0473704** | **.0098069** | **-.005726** | **.0260998** | **.0477226** |
| Stddev | .0003407 | .04182 | .0002204 | .0004380 | .000333 | .0013106 | .0003675 |
| %RSD | 1.437679 | .3287247 | .4652030 | 4.466451 | 5.807543 | 5.021657 | .7700631 |
| #1 | .0238140 | 12.71251 | .0474467 | .0093068 | -.005682 | .0245906 | .0477906 |
| #2 | .0233124 | 12.68539 | .0471220 | .0099917 | -.006079 | .0269518 | .0480514 |
| #3 | .0239626 | 12.76747 | .0475424 | .0101222 | -.005418 | .0267570 | .0473259 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.056592** | **-.004341** | **-.000214** | **-.002296** | **-.000625** | **.0103056** | **.0022319** |
| Stddev | .045157 | .000659 | .000103 | .000209 | .000982 | .0036413 | .0016198 |
| %RSD | 79.79430 | 15.19118 | 48.39817 | 9.079775 | 157.1129 | 35.33363 | 72.57120 |
| #1 | -.071132 | -.003580 | -.000095 | -.002487 | -.001745 | .0062061 | .0006624 |
| #2 | -.005956 | -.004705 | -.000265 | -.002328 | -.000219 | .0131647 | .0038976 |
| #3 | -.092689 | -.004738 | -.000281 | -.002074 | .000089 | .0115459 | .0021359 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: ICSABDLX20 Acquired: 8/4/2025 12:14:08 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | -.003040 | -.000786 | .0004173 |
| Stddev | .001012 | .002089 | .0000915 |
| %RSD | 33.28923 | 265.6700 | 21.92607 |
| | | | |
| #1 | -.002974 | .000127 | .0004656 |
| #2 | -.002063 | -.003176 | .0003118 |
| #3 | -.004084 | .000690 | .0004744 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5598.930 | 93714.16 | 7718.210 | 4764.623 | 6872.137 |
| Stddev | 10.977 | 152.21 | 25.937 | 36.269 | 15.070 |
| %RSD | .1960569 | .1624143 | .3360509 | .7612096 | .2192879 |
| | | | | | |
| #1 | 5591.100 | 93544.10 | 7748.135 | 4736.149 | 6857.187 |
| #2 | 5611.477 | 93760.75 | 7704.292 | 4752.264 | 6887.323 |
| #3 | 5594.212 | 93837.62 | 7702.203 | 4805.456 | 6871.902 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: CCV01 Acquired: 8/4/2025 12:25:48 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **5.060849** | **5.083540** | **5.012367** | **5.077162** | **5.067103** | **9.768089** | **9.827098** |
| Stddev | .014770 | .041769 | .006566 | .014536 | .022948 | .021779 | .079086 |
| %RSD | .2918492 | .8216471 | .1309955 | .2862975 | .4528747 | .2229629 | .8047704 |
| #1 | 5.049845 | 5.070537 | 5.011392 | 5.061837 | 5.049106 | 9.792027 | 9.874738 |
| #2 | 5.055066 | 5.130263 | 5.006343 | 5.078895 | 5.059259 | 9.749444 | 9.870749 |
| #3 | 5.077635 | 5.049819 | 5.019366 | 5.090753 | 5.092944 | 9.762795 | 9.735807 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2485301** | **2.527172** | **24.75087** | **.9689963** | **2.519516** | **1.269896** | **4.855037** |
| Stddev | .0013406 | .003280 | .10041 | .0032563 | .004636 | .004485 | .014489 |
| %RSD | .5394121 | .1297896 | .4056759 | .3360493 | .1840140 | .3532102 | .2984289 |
| #1 | .2482308 | 2.523738 | 24.84373 | .9699514 | 2.517342 | 1.267124 | 4.847359 |
| #2 | .2499951 | 2.527504 | 24.76457 | .9653692 | 2.516367 | 1.267492 | 4.846003 |
| #3 | .2473644 | 2.530273 | 24.64432 | .9716682 | 2.524840 | 1.275071 | 4.871749 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.456087** | **24.32707** | **2.526155** | **1.220470** | **23.88739** | **2.443236** | **2.460782** |
| Stddev | .002350 | .08892 | .005830 | .001278 | .07121 | .007247 | .006857 |
| %RSD | .0956762 | .3655277 | .2307665 | .1047226 | .2981243 | .2966079 | .2786600 |
| #1 | 2.458771 | 24.22787 | 2.524714 | 1.220360 | 23.88528 | 2.434895 | 2.456262 |
| #2 | 2.454401 | 24.35372 | 2.521181 | 1.221800 | 23.81725 | 2.446821 | 2.468672 |
| #3 | 2.455088 | 24.39962 | 2.532570 | 1.219251 | 23.95963 | 2.447991 | 2.457412 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **24.21192** | **4.945154** | **5.112872** | **5.053609** | **4.926107** | **4.766929** | **5.069554** |
| Stddev | .12554 | .024876 | .014280 | .007898 | .018219 | .040967 | .003987 |
| %RSD | .5185053 | .5030332 | .2792920 | .1562884 | .3698392 | .8593907 | .0786445 |
| #1 | 24.28033 | 4.939430 | 5.103329 | 5.044510 | 4.947122 | 4.757303 | 5.070331 |
| #2 | 24.06704 | 4.972392 | 5.105998 | 5.057627 | 4.914761 | 4.731634 | 5.073095 |
| #3 | 24.28840 | 4.923639 | 5.129289 | 5.058691 | 4.916439 | 4.811852 | 5.065236 |

Sample Name: CCV01 Acquired: 8/4/2025 12:25:48 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **4.984252** | **4.857331** | **5.021200** |
| Stddev | .003939 | .012003 | .075191 |
| %RSD | .0790202 | .2471188 | 1.497473 |
| #1 | 4.981016 | 4.855018 | 4.934381 |
| #2 | 4.983103 | 4.846652 | 5.063918 |
| #3 | 4.988638 | 4.870323 | 5.065302 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5338.003** | **91544.27** | **7710.983** | **4639.815** | **6251.902** |
| Stddev | 12.219 | 214.48 | 27.657 | 24.264 | 11.703 |
| %RSD | .2288988 | .2342944 | .3586714 | .5229611 | .1871869 |
| #1 | 5326.259 | 91781.10 | 7728.239 | 4661.006 | 6238.577 |
| #2 | 5350.646 | 91363.11 | 7679.083 | 4613.346 | 6256.622 |
| #3 | 5337.103 | 91488.61 | 7725.627 | 4645.093 | 6260.508 |

Sample Name: CCB01 Acquired: 8/4/2025 12:29:59 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **-.000409** | **.0000547** | **.0004553** | **-.003658** | **-.001511** | **.0041848** | **.0002834** |
| Stddev | .001300 | .0014591 | .0004570 | .002004 | .000643 | .0034877 | .0002338 |
| %RSD | 317.8230 | 2665.657 | 100.3658 | 54.78674 | 42.56449 | 83.34290 | 82.51076 |
| #1 | .000635 | -.001083 | .0009792 | -.004356 | -.000880 | .0009894 | .0000166 |
| #2 | -.001866 | .001700 | .0001384 | -.001398 | -.001487 | .0036597 | .0004525 |
| #3 | .000004 | -.000452 | .0002484 | -.005219 | -.002166 | .0079053 | .0003811 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000158** | **.0001915** | **-.018062** | **-.001615** | **.0003681** | **-.000215** | **-.005396** |
| Stddev | .0000621 | .0000567 | .000465 | .000084 | .0000889 | .000153 | .006371 |
| %RSD | 394.1836 | 29.58791 | 2.572537 | 5.209032 | 24.14135 | 70.89249 | 118.0733 |
| #1 | .0000875 | .0001946 | -.018053 | -.001679 | .0003062 | -.000061 | -.002523 |
| #2 | -.000018 | .0001334 | -.018532 | -.001646 | .0003281 | -.000366 | -.000967 |
| #3 | -.000022 | .0002466 | -.017602 | -.001519 | .0004699 | -.000220 | -.012697 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.001577** | **.0192606** | **.0002638** | **.0006259** | **-.073059** | **.0017648** | **-.001158** |
| Stddev | .000647 | .0248650 | .0000667 | .0004927 | .002280 | .0026545 | .000324 |
| %RSD | 41.01429 | 129.0976 | 25.28046 | 78.72757 | 3.121304 | 150.4129 | 27.98762 |
| #1 | -.001030 | .0395489 | .0002981 | .0010652 | -.074559 | .0028729 | -.001180 |
| #2 | -.002290 | .0267107 | .0003064 | .0000931 | -.070435 | .0036858 | -.001470 |
| #3 | -.001410 | -.008478 | .0001869 | .0007193 | -.074184 | -.001264 | -.000823 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.051084** | **-.000389** | **.0007631** | **-.000790** | **.0001017** | **.0035501** | **.0029787** |
| Stddev | .020648 | .000647 | .0002094 | .000546 | .0004064 | .0067710 | .0016884 |
| %RSD | 40.41920 | 166.1551 | 27.43555 | 69.08735 | 399.6282 | 190.7258 | 56.68295 |
| #1 | -.039359 | -.000382 | .0005987 | -.001163 | .0005111 | .0000599 | .0019517 |
| #2 | -.074925 | -.001040 | .0009988 | -.000164 | .0000957 | .0113541 | .0020571 |
| #3 | -.038968 | .000254 | .0006919 | -.001044 | -.000302 | -.000764 | .0049274 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: CCB01 Acquired: 8/4/2025 12:29:59 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | -.003612 | -.004832 | .0002893 |
| Stddev | .002491 | .003301 | .0000394 |
| %RSD | 68.96672 | 68.31611 | 13.60488 |
| | | | |
| #1 | -.000756 | -.001351 | .0002923 |
| #2 | -.004742 | -.007917 | .0003272 |
| #3 | -.005337 | -.005229 | .0002486 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5763.665 | 97910.48 | 7934.030 | 4911.567 | 7371.574 |
| Stddev | 22.605 | 371.30 | 46.630 | 19.423 | 20.675 |
| %RSD | .3921927 | .3792279 | .5877160 | .3954573 | .2804683 |
| | | | | | |
| #1 | 5786.343 | 98105.92 | 7976.053 | 4907.403 | 7391.280 |
| #2 | 5763.515 | 97482.28 | 7942.171 | 4894.563 | 7373.394 |
| #3 | 5741.135 | 98143.24 | 7883.866 | 4932.734 | 7350.050 |

Sample Name: PB169076BL Acquired: 8/4/2025 12:55:46 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **-.000409** | **.0005247** | **-.001466** | **-.003589** | **-.000037** | **.0010573** | **-.000780** |
| Stddev | .001066 | .0010454 | .000692 | .000316 | .001298 | .0105593 | .000297 |
| %RSD | 260.7675 | 199.2265 | 47.21850 | 8.794613 | 3513.371 | 998.6993 | 38.12975 |
| #1 | -.001593 | .0016235 | -.001286 | -.003341 | -.000692 | -.004782 | -.000697 |
| #2 | .000474 | -.000457 | -.000881 | -.003944 | .001458 | .013247 | -.001110 |
| #3 | -.000107 | .000408 | -.002230 | -.003480 | -.000876 | -.005293 | -.000533 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000095** | **-.000080** | **-.014105** | **-.001374** | **.0001256** | **-.000318** | **-.005026** |
| Stddev | .000050 | .000063 | .013836 | .000355 | .0000958 | .000163 | .003263 |
| %RSD | 52.74016 | 78.59852 | 98.08897 | 25.80458 | 76.25648 | 51.08528 | 64.92518 |
| #1 | -.000057 | -.000113 | -.005104 | -.001112 | .0002250 | -.000490 | -.002412 |
| #2 | -.000152 | -.000120 | -.030037 | -.001778 | .0000338 | -.000167 | -.003983 |
| #3 | -.000077 | -.000008 | -.007176 | -.001232 | .0001181 | -.000298 | -.008683 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.001803** | **.0446813** | **-.000013** | **.0007303** | **.0516572** | **.0015263** | **-.001257** |
| Stddev | .000139 | .0120106 | .000130 | .0004620 | .0042265 | .0027391 | .000263 |
| %RSD | 7.710235 | 26.88055 | 1023.774 | 63.25470 | 8.181821 | 179.4656 | 20.94861 |
| #1 | -.001769 | .0314383 | .000098 | .0010906 | .0468779 | .0045755 | -.000955 |
| #2 | -.001956 | .0477363 | .000020 | .0008908 | .0549023 | -.000726 | -.001377 |
| #3 | -.001684 | .0548694 | -.000156 | .0002095 | .0531915 | .000729 | -.001440 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0288158** | **-.005820** | **-.000228** | **-.000400** | **.0008543** | **.0062952** | **.0029287** |
| Stddev | .0428773 | .000925 | .000287 | .000281 | .0015536 | .0055663 | .0029491 |
| %RSD | 148.7978 | 15.89259 | 125.8975 | 70.08666 | 181.8595 | 88.42115 | 100.6975 |
| #1 | .0715075 | -.005074 | -.000360 | -.000185 | .0015424 | .0003869 | .0059330 |
| #2 | .0291846 | -.005532 | -.000426 | -.000298 | .0019450 | .0070579 | .0028151 |
| #3 | -.014245 | -.006855 | .000101 | -.000718 | -.000925 | .0114409 | .0000380 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: PB169076BL Acquired: 8/4/2025 12:55:46 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | -.000591 | -.001200 | -.000051 |
| Stddev | .003267 | .001409 | .000066 |
| %RSD | 552.8025 | 117.4049 | 129.2372 |
| #1 | -.001249 | -.002489 | .000011 |
| #2 | .002955 | .000304 | -.000043 |
| #3 | -.003478 | -.001415 | -.000120 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5563.683 | 94505.53 | 7711.596 | 4738.546 | 7083.163 |
| Stddev | 8.483 | 490.37 | 53.956 | 7.459 | 24.423 |
| %RSD | .1524665 | .5188759 | .6996763 | .1574184 | .3448104 |
| #1 | 5553.903 | 93943.46 | 7654.304 | 4730.001 | 7065.142 |
| #2 | 5568.111 | 94727.29 | 7761.444 | 4743.757 | 7073.388 |
| #3 | 5569.036 | 94845.85 | 7719.040 | 4741.880 | 7110.960 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: PB169076BS Acquired: 8/4/2025 13:00:05 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.8210445** | **2.097352** | **1.002583** | **2.096728** | **.8516797** | **2.084883** | **.2094819** |
| Stddev | .0064652 | .020564 | .001670 | .006575 | .0029313 | .017008 | .0016250 |
| %RSD | .7874409 | .9804669 | .1665861 | .3135684 | .3441838 | .8157707 | .7757363 |
| #1 | .8179566 | 2.081959 | 1.003010 | 2.092707 | .8508014 | 2.104328 | .2084117 |
| #2 | .8167022 | 2.120706 | 1.000741 | 2.093161 | .8492879 | 2.077542 | .2113518 |
| #3 | .8284748 | 2.089391 | 1.003998 | 2.104315 | .8549497 | 2.072778 | .2086822 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2142352** | **.1997192** | **1.060671** | **.4124050** | **.2051471** | **.3253058** | **3.068103** |
| Stddev | .0029010 | .0006467 | .008311 | .0008419 | .0009927 | .0007235 | .019612 |
| %RSD | 1.354103 | .3238219 | .7835938 | .2041448 | .4839109 | .2224139 | .6392068 |
| #1 | .2109402 | .1993756 | 1.054479 | .4114712 | .2047071 | .3247286 | 3.090682 |
| #2 | .2164049 | .1993168 | 1.070117 | .4131062 | .2044504 | .3250713 | 3.058311 |
| #3 | .2153606 | .2004652 | 1.057417 | .4126375 | .2062837 | .3261175 | 3.055316 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2102447** | **2.070620** | **.5165034** | **.0791097** | **2.920803** | **.3124155** | **.2160298** |
| Stddev | .0011466 | .011929 | .0014262 | .0005826 | .025933 | .0003840 | .0036713 |
| %RSD | .5453515 | .5761172 | .2761239 | .7364727 | .8878611 | .1229258 | 1.699463 |
| #1 | .2094308 | 2.076594 | .5153709 | .0784372 | 2.941809 | .3120259 | .2118050 |
| #2 | .2115559 | 2.078382 | .5160341 | .0794302 | 2.928782 | .3124267 | .2184455 |
| #3 | .2097473 | 2.056884 | .5181051 | .0794616 | 2.891819 | .3127937 | .2178389 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.926115** | **.3077650** | **.4268291** | **.7053696** | **.2035969** | **.8606385** | **5.752698** |
| Stddev | .039639 | .0036494 | .0004448 | .0005758 | .0015335 | .0170843 | .020590 |
| %RSD | .3993408 | 1.185791 | .1042118 | .0816369 | .7532062 | 1.985077 | .3579213 |
| #1 | 9.961113 | .3035790 | .4263367 | .7050071 | .2027919 | .8476031 | 5.746800 |
| #2 | 9.934164 | .3094378 | .4272020 | .7050681 | .2053653 | .8799794 | 5.735700 |
| #3 | 9.883070 | .3102781 | .4269485 | .7060336 | .2026336 | .8543330 | 5.775593 |

Sample Name: PB169076BS Acquired: 8/4/2025 13:00:05 Type: Unk
Method: 6010-200.7 NEW(v81) 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 -.005772 | .2001170 | .2059167 |
| Stddev | .004027 | .0042521 | .0014094 |
| %RSD | 69.77378 | 2.124821 | .6844553 |
| #1 | -.006748 | .1997889 | .2056758 |
| #2 | -.001346 | .2045236 | .2074310 |
| #3 | -.009221 | .1960384 | .2046433 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5721.629 | 97761.94 | 8133.054 | 4897.082 | 7111.302 |
| Stddev | 12.096 | 360.51 | 66.429 | 55.978 | 12.517 |
| %RSD | .2114158 | .3687626 | .8167835 | 1.143085 | .1760141 |
| #1 | 5735.323 | 98105.68 | 8203.302 | 4959.487 | 7125.438 |
| #2 | 5712.401 | 97386.72 | 8071.251 | 4851.295 | 7106.843 |
| #3 | 5717.162 | 97793.42 | 8124.608 | 4880.463 | 7101.625 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2725-02DLX5 Acquired: 8/4/2025 13:04:05 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **-.000408** | **.0000579** | **.0171130** | **.0024134** | **.0115317** | **.7184436** | **.0469131** |
| Stddev | .000770 | .0016373 | .0008444 | .0019593 | .0005027 | .0125916 | .0012633 |
| %RSD | 188.6331 | 2827.404 | 4.934209 | 81.18613 | 4.359531 | 1.752621 | 2.692788 |
| #1 | -.000338 | .0006812 | .0180879 | .0046054 | .0120650 | .7326550 | .0469080 |
| #2 | -.000363 | .0012920 | .0166390 | .0018027 | .0110664 | .7139977 | .0481789 |
| #3 | -.001200 | -.001800 | .0166121 | .0008321 | .0114636 | .7086781 | .0456524 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000175** | **.0005470** | **5.365103** | **.0091479** | **.0010586** | **.0788294** | **3.911829** |
| Stddev | .0000229 | .0001034 | .021801 | .0007839 | .0002017 | .0001229 | .027888 |
| %RSD | 130.5335 | 18.91126 | .4063416 | 8.569054 | 19.05223 | .1559208 | .7129035 |
| #1 | -.000002 | .0005153 | 5.382149 | .0083969 | .0012881 | .0788949 | 3.882702 |
| #2 | .000043 | .0004631 | 5.372622 | .0090858 | .0009097 | .0786876 | 3.938285 |
| #3 | .000013 | .0006625 | 5.340538 | .0099610 | .0009779 | .0789057 | 3.914498 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0389943** | **1.293794** | **.0100052** | **.0013359** | **79.27096** | **.0035159** | **.2925311** |
| Stddev | .0002570 | .032451 | .0003092 | .0001167 | .43768 | .0029227 | .0018113 |
| %RSD | .6590386 | 2.508195 | 3.090784 | 8.735068 | .5521352 | 83.12743 | .6191826 |
| #1 | .0387573 | 1.272026 | .0097432 | .0014482 | 78.77319 | .0066896 | .2926961 |
| #2 | .0392675 | 1.278265 | .0099261 | .0012153 | 79.44413 | .0009352 | .2906429 |
| #3 | .0389582 | 1.331092 | .0103463 | .0013442 | 79.59557 | .0029228 | .2942542 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.817396** | **.0223412** | **.0038925** | **.0056174** | **.0270565** | **7.055822** | **1.754923** |
| Stddev | .037011 | .0002676 | .0001857 | .0001098 | .0007261 | .079226 | .005162 |
| %RSD | .9695413 | 1.197727 | 4.769989 | 1.954491 | 2.683735 | 1.122852 | .2941437 |
| #1 | 3.778451 | .0224396 | .0040424 | .0057290 | .0264052 | 6.964618 | 1.759994 |
| #2 | 3.821627 | .0225457 | .0036848 | .0055095 | .0278395 | 7.107601 | 1.749675 |
| #3 | 3.852110 | .0220384 | .0039503 | .0056137 | .0269250 | 7.095247 | 1.755099 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2725-02DLX5 Acquired: 8/4/2025 13:04:05 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | 5.635555 | .0013569 | .0404925 |
| Stddev | .018877 | .0034252 | .0000800 |
| %RSD | .3349699 | 252.4231 | .1976398 |
| #1 | 5.630903 | .0039190 | .0405669 |
| #2 | 5.619439 | .0026851 | .0405028 |
| #3 | 5.656324 | -.002533 | .0404078 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5553.216 | 95377.92 | 8320.393 | 4740.175 | 6738.415 |
| Stddev | 16.466 | 342.36 | 46.420 | 12.240 | 24.324 |
| %RSD | .2965155 | .3589534 | .5579118 | .2582144 | .3609703 |
| #1 | 5542.508 | 95772.04 | 8275.518 | 4753.684 | 6724.597 |
| #2 | 5572.177 | 95154.17 | 8317.443 | 4729.824 | 6766.500 |
| #3 | 5544.965 | 95207.55 | 8368.218 | 4737.016 | 6724.147 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2725-02DUPDLX5 Acquired: 8/4/2025 13:08:17 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **-.001039** | **.0003502** | **.0162352** | **-.001134** | **.0088812** | **.6975950** | **.0441233** |
| Stddev | .003279 | .0030691 | .0003032 | .003691 | .0013498 | .0084167 | .0003029 |
| %RSD | 315.7255 | 876.4420 | 1.867354 | 325.6496 | 15.19795 | 1.206535 | .6865832 |
| #1 | -.000888 | .0030013 | .0165846 | -.003361 | .0086164 | .7028953 | .0444625 |
| #2 | -.004391 | -.003012 | .0160797 | -.003166 | .0103437 | .7019998 | .0440278 |
| #3 | .002163 | .001061 | .0160414 | .003127 | .0076834 | .6878900 | .0438796 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000200** | **.0004991** | **5.188263** | **.0088772** | **.0009593** | **.0748616** | **3.813133** |
| Stddev | .0000669 | .0000597 | .035759 | .0004561 | .0002116 | .0002830 | .025953 |
| %RSD | 334.4127 | 11.95447 | .6892300 | 5.137633 | 22.06104 | .3779586 | .6806294 |
| #1 | -.000051 | .0004618 | 5.210333 | .0086192 | .0008035 | .0751882 | 3.828788 |
| #2 | .000030 | .0004676 | 5.207451 | .0086086 | .0012003 | .0746900 | 3.827435 |
| #3 | .000081 | .0005679 | 5.147006 | .0094038 | .0008742 | .0747067 | 3.783174 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0377642** | **1.246638** | **.0093495** | **.0009651** | **77.18316** | **.0023315** | **.2819026** |
| Stddev | .0006331 | .004516 | .0001949 | .0001663 | .59993 | .0026497 | .0010657 |
| %RSD | 1.676540 | .3622636 | 2.084770 | 17.22782 | .7772848 | 113.6478 | .3780337 |
| #1 | .0375062 | 1.243478 | .0095023 | .0007971 | 77.71780 | .0042617 | .2807312 |
| #2 | .0384855 | 1.251811 | .0091300 | .0009685 | 77.29733 | -.000689 | .2821617 |
| #3 | .0373007 | 1.244625 | .0094163 | .0011296 | 76.53434 | .003422 | .2828148 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.726659** | **.0212183** | **.0035555** | **.0061605** | **.0275202** | **6.870395** | **1.660225** |
| Stddev | .028397 | .0002230 | .0003107 | .0004625 | .0009376 | .083940 | .002130 |
| %RSD | .7619992 | 1.050949 | 8.738445 | 7.507701 | 3.406936 | 1.221761 | .1283133 |
| #1 | 3.716678 | .0212166 | .0038862 | .0056946 | .0284418 | 6.930978 | 1.662634 |
| #2 | 3.758699 | .0214421 | .0035105 | .0061673 | .0275516 | 6.905626 | 1.659447 |
| #3 | 3.704600 | .0209961 | .0032697 | .0066196 | .0265674 | 6.774581 | 1.658592 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2725-02DUPDLX5 Acquired: 8/4/2025 13:08:17 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | 5.337970 | .0025065 | .0393549 |
| Stddev | .062098 | .0016524 | .0003729 |
| %RSD | 1.163324 | 65.92316 | .9475951 |
| #1 | 5.407110 | .0014452 | .0396478 |
| #2 | 5.286943 | .0044103 | .0394818 |
| #3 | 5.319856 | .0016640 | .0389350 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5624.068 | 96301.52 | 8443.704 | 4767.884 | 6840.820 |
| Stddev | 7.243 | 287.40 | 36.558 | 10.518 | 10.977 |
| %RSD | .1287824 | .2984368 | .4329674 | .2205927 | .1604620 |
| #1 | 5629.175 | 95970.97 | 8405.360 | 4770.769 | 6843.415 |
| #2 | 5615.779 | 96492.31 | 8478.168 | 4776.659 | 6828.778 |
| #3 | 5627.250 | 96441.28 | 8447.583 | 4756.225 | 6850.267 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2725-02LDLX25 Acquired: 8/4/2025 13:12:28 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **-.000781** | **-.000613** | **.0030800** | **-.002453** | **.0016432** | **.1366319** | **.0076965** |
| Stddev | .001975 | .000955 | .0007305 | .003908 | .0013836 | .0041494 | .0013348 |
| %RSD | 252.9188 | 155.6487 | 23.71794 | 159.3315 | 84.20359 | 3.036915 | 17.34318 |
| #1 | -.002781 | .000210 | .0029226 | -.001279 | .0007591 | .1364899 | .0085459 |
| #2 | -.000732 | -.000390 | .0024410 | -.006813 | .0009327 | .1325554 | .0061580 |
| #3 | .001169 | -.001660 | .0038764 | .000734 | .0032377 | .1408505 | .0083857 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000153** | **.0000682** | **1.066512** | **.0005759** | **.0002815** | **.0154604** | **.7444685** |
| Stddev | .0000270 | .0000300 | .018524 | .0001090 | .0001709 | .0002678 | .0079418 |
| %RSD | 176.7438 | 44.02049 | 1.736909 | 18.92322 | 60.70417 | 1.732004 | 1.066775 |
| #1 | .0000443 | .0000444 | 1.086749 | .0005711 | .0003769 | .0155529 | .7532255 |
| #2 | .0000105 | .0001019 | 1.062393 | .0006872 | .0003833 | .0156696 | .7424475 |
| #3 | -.000009 | .0000583 | 1.050394 | .0004694 | .0000842 | .0151586 | .7377324 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0060295** | **.2737440** | **.0016441** | **.0003185** | **14.84163** | **-.000791** | **.0554773** |
| Stddev | .0005690 | .0559883 | .0002124 | .0005505 | .11690 | .000325 | .0005257 |
| %RSD | 9.436529 | 20.45279 | 12.92176 | 172.8456 | .7876727 | 41.09349 | .9476390 |
| #1 | .0063930 | .3247301 | .0017302 | -.000265 | 14.72798 | -.000419 | .0559704 |
| #2 | .0053738 | .2826747 | .0014021 | .000828 | 14.96153 | -.000936 | .0549241 |
| #3 | .0063216 | .2138271 | .0018000 | .000393 | 14.83539 | -.001019 | .0555373 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7624236** | **-.001289** | **.0007368** | **.0001037** | **.0047915** | **1.335417** | **.3274656** |
| Stddev | .0163112 | .000827 | .0001176 | .0005000 | .0011692 | .027812 | .0014433 |
| %RSD | 2.139384 | 64.14542 | 15.95696 | 482.2495 | 24.40096 | 2.082648 | .4407513 |
| #1 | .7791126 | -.000360 | .0007549 | -.000305 | .0039928 | 1.320806 | .3289051 |
| #2 | .7616397 | -.001945 | .0006112 | -.000045 | .0061335 | 1.367489 | .3274733 |
| #3 | .7465185 | -.001563 | .0008442 | .000661 | .0042483 | 1.317954 | .3260185 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2725-02LDLX25 Acquired: 8/4/2025 13:12:28 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **1.043788** | **-.000572** | **.0080509** |
| Stddev | .004554 | .004298 | .0001158 |
| %RSD | .4362621 | 751.0788 | 1.438241 |
| #1 | 1.044131 | -.001633 | .0081782 |
| #2 | 1.048161 | .004157 | .0080228 |
| #3 | 1.039073 | -.004241 | .0079518 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5697.078** | **98085.33** | **8287.380** | **4815.789** | **7145.674** |
| Stddev | 12.015 | 270.52 | 23.024 | 10.759 | 24.667 |
| %RSD | .2108944 | .2758045 | .2778255 | .2234198 | .3452003 |
| #1 | 5683.818 | 98374.40 | 8260.892 | 4820.268 | 7119.317 |
| #2 | 5700.176 | 97838.27 | 8302.598 | 4803.514 | 7149.500 |
| #3 | 5707.241 | 98043.32 | 8298.651 | 4823.586 | 7168.204 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2725-02MSDLX5 Acquired: 8/4/2025 13:16:46 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.1617189** | **.3805913** | **.2082561** | **.4092892** | **.1763906** | **1.127036** | **.0873424** |
| Stddev | .0010451 | .0005770 | .0023999 | .0003349 | .0015702 | .005861 | .0010178 |
| %RSD | .6462768 | .1515926 | 1.152368 | .0818306 | .8901598 | .5200614 | 1.165333 |
| #1 | .1605241 | .3812426 | .2096825 | .4090738 | .1770268 | 1.121307 | .0865536 |
| #2 | .1624636 | .3801443 | .2096005 | .4091187 | .1746022 | 1.133021 | .0869824 |
| #3 | .1621691 | .3803870 | .2054854 | .4096751 | .1775429 | 1.126778 | .0884913 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0401697** | **.0392473** | **5.527545** | **.0898661** | **.0411943** | **.1387488** | **4.477504** |
| Stddev | .0003570 | .0001600 | .017982 | .0002518 | .0000112 | .0002907 | .027969 |
| %RSD | .8887602 | .4076633 | .3253152 | .2801940 | .0271687 | .2094834 | .6246641 |
| #1 | .0401175 | .0393093 | 5.506935 | .0899007 | .0411815 | .1389203 | 4.472015 |
| #2 | .0398416 | .0393670 | 5.535666 | .0900988 | .0412021 | .1389128 | 4.507810 |
| #3 | .0405499 | .0390656 | 5.540035 | .0895988 | .0411994 | .1384132 | 4.452685 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0795049** | **1.710341** | **.1096310** | **.0115984** | **80.06507** | **.0621022** | **.3297506** |
| Stddev | .0004935 | .035634 | .0002933 | .0005009 | .77976 | .0041014 | .0013899 |
| %RSD | .6206666 | 2.083429 | .2675508 | 4.318637 | .9739110 | 6.604243 | .4214958 |
| #1 | .0792977 | 1.682720 | .1094377 | .0121668 | 80.11990 | .0607236 | .3310101 |
| #2 | .0791488 | 1.750563 | .1094868 | .0114072 | 80.81598 | .0588678 | .3299823 |
| #3 | .0800682 | 1.697741 | .1099685 | .0112213 | 79.25935 | .0667153 | .3282594 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.910485** | **.0807295** | **.0845407** | **.1165250** | **.0644637** | **7.149679** | **2.850533** |
| Stddev | .077162 | .0007739 | .0002693 | .0002441 | .0001217 | .080596 | .017309 |
| %RSD | 1.305519 | .9586829 | .3185812 | .2094770 | .1887469 | 1.127274 | .6072217 |
| #1 | 5.919758 | .0800851 | .0842343 | .1165692 | .0646042 | 7.146976 | 2.865420 |
| #2 | 5.982592 | .0805153 | .0847399 | .1167440 | .0643903 | 7.231592 | 2.854638 |
| #3 | 5.829105 | .0815879 | .0846480 | .1162618 | .0643967 | 7.070467 | 2.831540 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2725-02MSDLX5 Acquired: 8/4/2025 13:16:46 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **5.501836** | **.0459916** | **.0808216** |
| Stddev | .021138 | .0007976 | .0000926 |
| %RSD | .3842030 | 1.734166 | .1146243 |
| #1 | 5.521174 | .0455773 | .0808768 |
| #2 | 5.505065 | .0454866 | .0808735 |
| #3 | 5.479269 | .0469111 | .0807147 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5603.381** | **95625.90** | **8349.345** | **4757.715** | **6796.952** |
| Stddev | 13.384 | 386.58 | 60.273 | 16.064 | 22.696 |
| %RSD | .2388568 | .4042579 | .7218892 | .3376428 | .3339204 |
| #1 | 5588.015 | 95661.01 | 8354.036 | 4739.199 | 6771.208 |
| #2 | 5612.497 | 95222.97 | 8407.135 | 4766.011 | 6805.576 |
| #3 | 5609.631 | 95993.73 | 8286.863 | 4767.934 | 6814.073 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2725-02MSDDLX5 Acquired: 8/4/2025 13:20:51 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.1535992** | **.3880999** | **.2009885** | **.3975718** | **.1713148** | **1.065223** | **.0839314** |
| Stddev | .0006311 | .0019015 | .0007486 | .0013917 | .0004811 | .009209 | .0002948 |
| %RSD | .4108984 | .4899646 | .3724529 | .3500397 | .2808052 | .8644930 | .3511992 |
| #1 | .1540625 | .3859263 | .2018413 | .3969217 | .1714682 | 1.070567 | .0842220 |
| #2 | .1538547 | .3889177 | .2004395 | .3966241 | .1717004 | 1.054589 | .0836326 |
| #3 | .1528804 | .3894557 | .2006848 | .3991695 | .1707757 | 1.070511 | .0839397 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0383722** | **.0378578** | **5.313604** | **.0859640** | **.0395382** | **.1334486** | **4.416835** |
| Stddev | .0003032 | .0001255 | .015888 | .0008436 | .0002220 | .0007346 | .024513 |
| %RSD | .7900788 | .3316142 | .2990045 | .9813150 | .5613992 | .5504368 | .5549936 |
| #1 | .0386034 | .0378669 | 5.321221 | .0864831 | .0396311 | .1338250 | 4.406897 |
| #2 | .0380289 | .0377280 | 5.295342 | .0864183 | .0392849 | .1326021 | 4.444757 |
| #3 | .0384842 | .0379786 | 5.324250 | .0849906 | .0396986 | .1339186 | 4.398852 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0771972** | **1.617161** | **.1056566** | **.0124863** | **77.52059** | **.0620778** | **.3198760** |
| Stddev | .0008044 | .019295 | .0005948 | .0003665 | .30963 | .0011379 | .0007719 |
| %RSD | 1.042075 | 1.193144 | .5629216 | 2.935036 | .3994158 | 1.833050 | .2413118 |
| #1 | .0778496 | 1.604254 | .1056239 | .0122672 | 77.45494 | .0612365 | .3191009 |
| #2 | .0762984 | 1.639342 | .1050789 | .0129094 | 77.85779 | .0616244 | .3198823 |
| #3 | .0774436 | 1.607886 | .1062671 | .0122823 | 77.24906 | .0633725 | .3206447 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.755188** | **.0771970** | **.0823235** | **.1103027** | **.0583993** | **6.978444** | **2.747304** |
| Stddev | .031089 | .0012084 | .0002544 | .0005989 | .0011678 | .051394 | .013493 |
| %RSD | .5401992 | 1.565367 | .3089711 | .5429245 | 1.999627 | .7364660 | .4911303 |
| #1 | 5.779785 | .0782402 | .0825630 | .1097042 | .0586862 | 6.984822 | 2.746761 |
| #2 | 5.765534 | .0758729 | .0820566 | .1109019 | .0571148 | 7.026352 | 2.734091 |
| #3 | 5.720244 | .0774779 | .0823509 | .1103022 | .0593969 | 6.924160 | 2.761060 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2725-02MSDDLX5 Acquired: 8/4/2025 13:20:51 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **5.324639** | **.0426092** | **.0781949** |
| Stddev | .013067 | .0024975 | .0005168 |
| %RSD | .2454021 | 5.861288 | .6609009 |
| #1 | 5.331626 | .0453181 | .0787274 |
| #2 | 5.309564 | .0421115 | .0776954 |
| #3 | 5.332727 | .0403981 | .0781618 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5633.755** | **95823.62** | **8522.271** | **4726.013** | **6840.648** |
| Stddev | 12.347 | 322.70 | 39.876 | 20.450 | 21.474 |
| %RSD | .2191609 | .3367657 | .4679054 | .4327038 | .3139120 |
| #1 | 5633.601 | 95967.15 | 8490.777 | 4744.327 | 6841.109 |
| #2 | 5646.178 | 95454.05 | 8567.107 | 4703.947 | 6861.887 |
| #3 | 5621.485 | 96049.65 | 8508.928 | 4729.765 | 6818.947 |

Sample Name: Q2725-02ADLX5 Acquired: 8/4/2025 13:24:57 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.1621476** | **.3954910** | **.2062012** | **.4132871** | **.1709934** | **1.058836** | **.0827141** |
| Stddev | .0009447 | .0077539 | .0015875 | .0037807 | .0009570 | .010641 | .0004587 |
| %RSD | .5825912 | 1.960581 | .7698574 | .9147762 | .5596980 | 1.004969 | .5545064 |
| #1 | .1624879 | .3973666 | .2073636 | .4091412 | .1713485 | 1.070039 | .0832308 |
| #2 | .1628750 | .4021350 | .2043926 | .4165441 | .1699095 | 1.057605 | .0823548 |
| #3 | .1610800 | .3869712 | .2068475 | .4141760 | .1717221 | 1.048864 | .0825568 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0386796** | **.0386140** | **5.202346** | **.0869981** | **.0405302** | **.1349367** | **4.382522** |
| Stddev | .0000638 | .0001274 | .015174 | .0003158 | .0000809 | .0008297 | .030776 |
| %RSD | .1648174 | .3299212 | .2916773 | .3630009 | .1995043 | .6148631 | .7022374 |
| #1 | .0387135 | .0385183 | 5.218714 | .0866364 | .0406069 | .1340895 | 4.359763 |
| #2 | .0387192 | .0385650 | 5.199579 | .0871394 | .0405378 | .1349730 | 4.417538 |
| #3 | .0386061 | .0387586 | 5.188747 | .0872187 | .0404458 | .1357476 | 4.370266 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0764622** | **1.579015** | **.1078320** | **.0164799** | **77.08034** | **.0636767** | **.3217365** |
| Stddev | .0003364 | .011778 | .0002604 | .0006029 | .25934 | .0016797 | .0007330 |
| %RSD | .4399629 | .7459317 | .2414749 | 3.658662 | .3364579 | 2.637917 | .2278210 |
| #1 | .0760843 | 1.569210 | .1080131 | .0167806 | 76.78487 | .0654882 | .3218665 |
| #2 | .0767290 | 1.575754 | .1075336 | .0168734 | 77.27026 | .0621707 | .3223957 |
| #3 | .0765732 | 1.592080 | .1079494 | .0157858 | 77.18590 | .0633712 | .3209472 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.796109** | **.0769958** | **.0835833** | **.1362182** | **.0604222** | **6.916811** | **2.761693** |
| Stddev | .008070 | .0005454 | .0001198 | .0009798 | .0006999 | .043074 | .016270 |
| %RSD | .1392388 | .7083019 | .1433004 | .7192927 | 1.158345 | .6227364 | .5891159 |
| #1 | 5.799826 | .0764487 | .0835673 | .1372833 | .0601714 | 6.876837 | 2.747820 |
| #2 | 5.786849 | .0769994 | .0837103 | .1353552 | .0612130 | 6.911169 | 2.757658 |
| #3 | 5.801650 | .0775394 | .0834723 | .1360162 | .0598823 | 6.962428 | 2.779600 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2725-02ADLX5 Acquired: 8/4/2025 13:24:57 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **5.316886** | **.0409967** | **.0771801** |
| Stddev | .015151 | .0018513 | .0000916 |
| %RSD | .2849527 | 4.515683 | .1186321 |
| #1 | 5.328753 | .0390373 | .0771429 |
| #2 | 5.322083 | .0427165 | .0772844 |
| #3 | 5.299820 | .0412364 | .0771130 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5509.112** | **94112.83** | **8516.440** | **4633.057** | **6710.146** |
| Stddev | 12.597 | 164.15 | 15.051 | 10.550 | 18.998 |
| %RSD | .2286520 | .1744206 | .1767231 | .2277112 | .2831260 |
| #1 | 5512.823 | 94198.65 | 8508.059 | 4645.236 | 6716.991 |
| #2 | 5519.437 | 93923.56 | 8507.446 | 4626.739 | 6724.774 |
| #3 | 5495.077 | 94216.29 | 8533.815 | 4627.195 | 6688.674 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: PB169078BL Acquired: 8/4/2025 13:29:01 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **-.001134** | **.0004508** | **.0000626** | **.0000079** | **.0000082** | **.0087174** | **.0009443** |
| Stddev | .001530 | .0007580 | .0005016 | .0024140 | .0015357 | .0142036 | .0004743 |
| %RSD | 135.0056 | 168.1436 | 801.9796 | 30712.35 | 18726.46 | 162.9344 | 50.22967 |
| #1 | -.000063 | .0001392 | -.000145 | .0013919 | .0006295 | .0231804 | .0009867 |
| #2 | -.002886 | -.000102 | .000635 | -.002780 | .0011359 | -.005212 | .0004502 |
| #3 | -.000451 | .001315 | -.000302 | .001411 | -.001741 | .008183 | .0013959 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000040** | **-.000001** | **-.013577** | **-.001298** | **.0001991** | **-.000208** | **-.006013** |
| Stddev | .000048 | .000021 | .004473 | .000450 | .0002012 | .000484 | .004413 |
| %RSD | 119.5796 | 3023.864 | 32.94359 | 34.65691 | 101.0192 | 233.1166 | 73.39418 |
| #1 | -.000091 | .000014 | -.015494 | -.000866 | -.000003 | .000085 | -.005373 |
| #2 | -.000035 | -.000025 | -.008465 | -.001263 | .000201 | -.000767 | -.001955 |
| #3 | .000005 | .000008 | -.016772 | -.001764 | .000400 | .000058 | -.010712 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000535** | **.0365046** | **.0000460** | **.0005997** | **.0000296** | **-.000023** | **-.001304** |
| Stddev | .000499 | .0292906 | .0000751 | .0002579 | .0181865 | .001338 | .000197 |
| %RSD | 93.30766 | 80.23807 | 163.1660 | 42.99936 | 61423.36 | 5709.242 | 15.14149 |
| #1 | .000031 | .0312048 | -.000009 | .0008775 | .0206821 | -.001305 | -.001532 |
| #2 | -.000724 | .0680832 | .000016 | .0003679 | -.007002 | -.000130 | -.001198 |
| #3 | -.000911 | .0102258 | .000131 | .0005537 | -.013591 | .001365 | -.001182 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0046945** | **-.007204** | **.0000659** | **-.000739** | **.0004511** | **-.003438** | **.0027656** |
| Stddev | .0114187 | .000322 | .0001144 | .000101 | .0005983 | .007361 | .0008597 |
| %RSD | 243.2377 | 4.468080 | 173.6963 | 13.61378 | 132.6261 | 214.0879 | 31.08687 |
| #1 | .0125971 | -.006934 | .0000617 | -.000849 | .0011072 | .004132 | .0026247 |
| #2 | .0098836 | -.007560 | -.000046 | -.000651 | -.000065 | -.010571 | .0019850 |
| #3 | -.008397 | -.007118 | .000182 | -.000718 | .000311 | -.003876 | .0036871 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: PB169078BL Acquired: 8/4/2025 13:29:01 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | -.000883 | -.002052 | -.000025 |
| Stddev | .003037 | .000596 | .000021 |
| %RSD | 343.8447 | 29.03334 | 84.71714 |
| #1 | .000902 | -.002740 | -.000005 |
| #2 | .000838 | -.001732 | -.000047 |
| #3 | -.004390 | -.001685 | -.000022 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5660.613 | 96393.91 | 7828.447 | 4858.169 | 7156.092 |
| Stddev | 30.907 | 203.60 | 84.874 | 19.385 | 44.865 |
| %RSD | .5459923 | .2112154 | 1.084177 | .3990223 | .6269510 |
| #1 | 5686.604 | 96570.75 | 7901.558 | 4868.062 | 7187.020 |
| #2 | 5668.797 | 96171.33 | 7848.415 | 4835.833 | 7176.622 |
| #3 | 5626.438 | 96439.63 | 7735.370 | 4870.611 | 7104.635 |

Sample Name: PB169078BS Acquired: 8/4/2025 13:33:20 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.8019180** | **2.029820** | **.9920813** | **2.040115** | **.8348023** | **2.102406** |
| Stddev | .0015482 | .081919 | .0030705 | .008419 | .0033015 | .002536 |
| %RSD | .1930688 | 4.035760 | .3094983 | .4126965 | .3954891 | .1206247 |
| #1 | .8018540 | 1.995408 | .9950855 | 2.034936 | .8353591 | 2.105132 |
| #2 | .8034973 | 2.123332 | .9922099 | 2.049830 | .8377900 | 2.101972 |
| #3 | .8004028 | 1.970721 | .9889486 | 2.035579 | .8312578 | 2.100116 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2108946** | **.2198643** | **.1991054** | **1.073372** | **.4107877** | **.2036875** |
| Stddev | .0010175 | .0006639 | .0005323 | .004775 | .0018201 | .0005838 |
| %RSD | .4824836 | .3019752 | .2673551 | .4448923 | .4430802 | .2866128 |
| #1 | .2098281 | .2197093 | .1996665 | 1.076623 | .4127436 | .2042757 |
| #2 | .2110011 | .2192916 | .1990421 | 1.067889 | .4091437 | .2036784 |
| #3 | .2118548 | .2205920 | .1986075 | 1.075604 | .4104758 | .2031082 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3209897** | **3.048395** | **.2125575** | **2.136002** | **.5125507** | **.0779420** |
| Stddev | .0004500 | .012033 | .0009994 | .016851 | .0013692 | .0005343 |
| %RSD | .1402007 | .3947472 | .4701820 | .7888943 | .2671412 | .6855063 |
| #1 | .3211329 | 3.036638 | .2122234 | 2.121266 | .5140298 | .0773479 |
| #2 | .3204855 | 3.060687 | .2117679 | 2.154374 | .5122948 | .0780950 |
| #3 | .3213507 | 3.047861 | .2136811 | 2.132366 | .5113274 | .0783831 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.867985** | **.3118284** | **.2140110** | **9.826666** | **.3116487** | **.4211933** |
| Stddev | .014327 | .0060699 | .0005417 | .020704 | .0007152 | .0008390 |
| %RSD | .4995389 | 1.946548 | .2530972 | .2106882 | .2294985 | .1991967 |
| #1 | 2.871064 | .3112754 | .2136056 | 9.803894 | .3111618 | .4207920 |
| #2 | 2.880522 | .3060540 | .2146262 | 9.844354 | .3124699 | .4221576 |
| #3 | 2.852369 | .3181559 | .2138012 | 9.831748 | .3113145 | .4206303 |

Sample Name: PB169078BS Acquired: 8/4/2025 13:33:20 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | .7084975 | .2068019 | .8516927 | 5.778570 | F .0002977 | .2026280 |
| Stddev | .0028777 | .0021494 | .0102564 | .012708 | .0026228 | .0008799 |
| %RSD | .4061753 | 1.039370 | 1.204234 | .2199199 | 881.1444 | .4342426 |
| #1 | .7106882 | .2068354 | .8486199 | 5.774224 | .0005048 | .2025822 |
| #2 | .7095659 | .2046359 | .8433240 | 5.792881 | -.002423 | .2017720 |
| #3 | .7052383 | .2089344 | .8631342 | 5.768605 | .002811 | .2035299 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2055891 |
| Stddev | .0005788 |
| %RSD | .2815516 |
| #1 | .2059433 |
| #2 | .2049211 |
| #3 | .2059028 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5622.161 | 93897.14 | 7621.201 | 4776.281 | 6928.086 |
| Stddev | 13.243 | 442.52 | 41.815 | 30.611 | 29.101 |
| %RSD | .2355473 | .4712783 | .5486679 | .6408995 | .4200452 |
| #1 | 5607.455 | 94398.91 | 7663.462 | 4811.069 | 6898.408 |
| #2 | 5625.885 | 93729.88 | 7620.293 | 4753.465 | 6929.277 |
| #3 | 5633.143 | 93562.64 | 7579.847 | 4764.309 | 6956.574 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: CCV02 Acquired: 8/4/2025 13:37:21 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **5.044256** | **5.116285** | **5.020518** | **5.052884** | **5.066582** | **10.18681** | **10.11519** |
| Stddev | .015592 | .067535 | .013133 | .016314 | .014483 | .01377 | .11640 |
| %RSD | .3091018 | 1.320009 | .2615951 | .3228559 | .2858457 | .1351766 | 1.150732 |
| #1 | 5.061910 | 5.135108 | 5.005984 | 5.060335 | 5.079719 | 10.17451 | 10.19295 |
| #2 | 5.038488 | 5.172412 | 5.024037 | 5.064142 | 5.068976 | 10.20169 | 10.17127 |
| #3 | 5.032369 | 5.041335 | 5.031534 | 5.034175 | 5.051052 | 10.18425 | 9.98137 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2610663** | **2.531869** | **25.72237** | **1.002143** | **2.522469** | **1.267525** | **4.934868** |
| Stddev | .0013740 | .004405 | .16692 | .003233 | .003079 | .000571 | .000966 |
| %RSD | .5263218 | .1739712 | .6489383 | .3226279 | .1220718 | .0450865 | .0195720 |
| #1 | .2600335 | 2.527661 | 25.65848 | 1.005869 | 2.519702 | 1.267888 | 4.935685 |
| #2 | .2626257 | 2.531499 | 25.91180 | 1.000482 | 2.521917 | 1.267822 | 4.935116 |
| #3 | .2605396 | 2.536447 | 25.59683 | 1.000078 | 2.525786 | 1.266867 | 4.933802 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.548653** | **25.24492** | **2.527188** | **1.251122** | **24.46183** | **2.539086** | **2.533969** |
| Stddev | .007732 | .05303 | .004615 | .000631 | .06389 | .002570 | .001798 |
| %RSD | .3033785 | .2100778 | .1826075 | .0504639 | .2611892 | .1012337 | .0709660 |
| #1 | 2.543944 | 25.19375 | 2.522521 | 1.250645 | 24.51590 | 2.536541 | 2.535326 |
| #2 | 2.557576 | 25.29964 | 2.527296 | 1.251838 | 24.39133 | 2.541681 | 2.531930 |
| #3 | 2.544438 | 25.24137 | 2.531749 | 1.250883 | 24.47826 | 2.539035 | 2.534652 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **24.66047** | **5.186282** | **5.146561** | **5.070777** | **5.124191** | **4.849548** | **4.993434** |
| Stddev | .15460 | .020820 | .007772 | .005410 | .024999 | .003283 | .027321 |
| %RSD | .6269007 | .4014352 | .1510178 | .1066990 | .4878598 | .0676991 | .5471342 |
| #1 | 24.71121 | 5.165666 | 5.155312 | 5.065078 | 5.118278 | 4.853104 | 4.963558 |
| #2 | 24.78331 | 5.207299 | 5.143909 | 5.071411 | 5.151616 | 4.846633 | 4.999599 |
| #3 | 24.48688 | 5.185882 | 5.140461 | 5.075843 | 5.102678 | 4.848907 | 5.017146 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: CCV02 Acquired: 8/4/2025 13:37:21 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **4.954045** | **5.101930** | **5.122174** |
| Stddev | .011737 | .007386 | .063459 |
| %RSD | .2369103 | .1447663 | 1.238900 |
| #1 | 4.955895 | 5.107153 | 5.158537 |
| #2 | 4.964747 | 5.105158 | 5.159086 |
| #3 | 4.941494 | 5.093480 | 5.048899 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5387.498** | **90494.32** | **7442.399** | **4583.475** | **6298.303** |
| Stddev | 17.251 | 597.42 | 51.959 | 20.070 | 23.401 |
| %RSD | .3202043 | .6601767 | .6981457 | .4378860 | .3715367 |
| #1 | 5389.062 | 90216.92 | 7444.472 | 4589.140 | 6313.019 |
| #2 | 5403.914 | 90086.04 | 7389.435 | 4561.181 | 6310.570 |
| #3 | 5369.519 | 91180.02 | 7493.291 | 4600.105 | 6271.319 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: CCB02 Acquired: 8/4/2025 13:41:33 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.0002426** | **.0020982** | **.0005508** | **-.002520** | **-.001671** | **.0129371** | **.0084268** |
| Stddev | .0013719 | .0011029 | .0005188 | .001213 | .001792 | .0071782 | .0006792 |
| %RSD | 565.3981 | 52.56566 | 94.20750 | 48.11683 | 107.2375 | 55.48526 | 8.060348 |
| #1 | .0015292 | .0031689 | .0011403 | -.002599 | -.000290 | .0160412 | .0076773 |
| #2 | -.001201 | .0009656 | .0001634 | -.003692 | -.001027 | .0047293 | .0086015 |
| #3 | .000400 | .0021602 | .0003486 | -.001270 | -.003696 | .0180410 | .0090017 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000489** | **.0003023** | **-.003923** | **-.001155** | **.0005064** | **.0001650** | **-.004090** |
| Stddev | .0000609 | .0000408 | .014030 | .000219 | .0001129 | .0004479 | .008587 |
| %RSD | 124.5203 | 13.50904 | 357.6350 | 18.91904 | 22.30169 | 271.4352 | 209.9306 |
| #1 | .0000687 | .0003453 | -.017812 | -.001396 | .0003809 | .0004576 | -.013673 |
| #2 | .0000974 | .0002640 | .010245 | -.001101 | .0005385 | .0003881 | -.001505 |
| #3 | -.000019 | .0002975 | -.004202 | -.000969 | .0005998 | -.000351 | .002907 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000795** | **.0053208** | **.0003540** | **.0009359** | **-.056320** | **.0018674** | **-.000068** |
| Stddev | .000199 | .0150894 | .0001507 | .0003429 | .005396 | .0025282 | .000182 |
| %RSD | 25.08085 | 283.5952 | 42.57371 | 36.63661 | 9.580137 | 135.3900 | 269.3029 |
| #1 | -.001025 | .0222368 | .0005273 | .0007602 | -.050092 | .0008349 | .000088 |
| #2 | -.000696 | -.006753 | .0002531 | .0013310 | -.059597 | .0000187 | -.000023 |
| #3 | -.000665 | .000479 | .0002816 | .0007164 | -.059269 | .0047484 | -.000268 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.020369** | **-.002453** | **.0009143** | **.0002569** | **.0010473** | **.0082199** | **.0045763** |
| Stddev | .022860 | .000136 | .0003159 | .0001483 | .0004029 | .0146711 | .0024293 |
| %RSD | 112.2297 | 5.528355 | 34.54728 | 57.72210 | 38.46808 | 178.4831 | 53.08479 |
| #1 | -.020269 | -.002302 | .0012367 | .0003235 | .0006015 | -.008029 | .0028336 |
| #2 | -.043278 | -.002564 | .0009007 | .0000870 | .0011550 | .012193 | .0035440 |
| #3 | .002441 | -.002493 | .0006054 | .0003601 | .0013853 | .020495 | .0073513 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: CCB02 Acquired: 8/4/2025 13:41:33 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | .0010369 | -.001870 | .0010538 |
| Stddev | .0012580 | .000583 | .0000989 |
| %RSD | 121.3245 | 31.17455 | 9.385509 |
| #1 | .0020038 | -.001917 | .0009588 |
| #2 | .0014921 | -.002427 | .0010466 |
| #3 | -.000385 | -.001264 | .0011562 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5591.497 | 94016.26 | 7607.926 | 4723.208 | 7099.461 |
| Stddev | 11.664 | 588.89 | 60.180 | 32.875 | 22.858 |
| %RSD | .2086103 | .6263738 | .7910218 | .6960263 | .3219640 |
| #1 | 5578.862 | 93347.24 | 7676.802 | 4687.457 | 7073.440 |
| #2 | 5601.855 | 94456.13 | 7565.505 | 4730.029 | 7116.299 |
| #3 | 5593.773 | 94245.42 | 7581.471 | 4752.137 | 7108.644 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2733-01 Acquired: 8/4/2025 13:45:52 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **-.003354** | **.0062572** | **.0012926** | **-.009477** | **.0036121** | **1.456116** |
| Stddev | .001311 | .0017782 | .0009404 | .002794 | .0012204 | .004646 |
| %RSD | 39.10213 | 28.41864 | 72.75187 | 29.47767 | 33.78490 | .3190758 |
| #1 | -.001930 | .0052085 | .0004814 | -.006874 | .0048623 | 1.459817 |
| #2 | -.003619 | .0052527 | .0023234 | -.012429 | .0024240 | 1.457630 |
| #3 | -.004512 | .0083103 | .0010731 | -.009129 | .0035500 | 1.450902 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4464486** | **-.000116** | **-.000200** | **452.0804** | **.0035857** | **.0008364** |
| Stddev | .0011567 | .000074 | .000155 | 3.3236 | .0002735 | .0001942 |
| %RSD | .2590902 | 63.66906 | 77.48631 | .7351697 | 7.628440 | 23.22502 |
| #1 | .4451812 | -.000143 | -.000265 | 455.5547 | .0036259 | .0009974 |
| #2 | .4467172 | -.000032 | -.000023 | 451.7548 | .0032943 | .0006206 |
| #3 | .4474473 | -.000172 | -.000313 | 448.9315 | .0038369 | .0008910 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0038320** | **3.534552** | **-.001213** | **.0502651** | **.0048347** | **-.000298** |
| Stddev | .0002531 | .035492 | .000326 | .0245856 | .0003133 | .000610 |
| %RSD | 6.603955 | 1.004141 | 26.87485 | 48.91183 | 6.479904 | 204.7548 |
| #1 | .0036149 | 3.498232 | -.001523 | .0281763 | .0049904 | -.000825 |
| #2 | .0041099 | 3.536270 | -.000873 | .0767534 | .0044741 | .000371 |
| #3 | .0037712 | 3.569153 | -.001243 | .0458656 | .0050396 | -.000439 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **147.5353** | **.0056354** | **.0080425** | **337.7085** | **.0715547** | **.2244317** |
| Stddev | 1.5762 | .0019054 | .0003389 | 3.9290 | .0010680 | .0005527 |
| %RSD | 1.068382 | 33.81109 | 4.213595 | 1.163443 | 1.492516 | .2462769 |
| #1 | 146.2158 | .0064799 | .0084331 | 334.1859 | .0723905 | .2240974 |
| #2 | 147.1092 | .0069725 | .0078681 | 336.9938 | .0719221 | .2241280 |
| #3 | 149.2807 | .0034537 | .0078264 | 341.9458 | .0703515 | .2250697 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2733-01 Acquired: 8/4/2025 13:45:52 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | -.003759 | -.015937 | 9.131645 | .0399664 | F 245.8212 | .2349308 |
| Stddev | .000297 | .000446 | .070439 | .0026525 | .2345 | .0030963 |
| %RSD | 7.903512 | 2.796297 | .7713712 | 6.636730 | .0954004 | 1.317943 |
| #1 | -.003435 | -.015968 | 9.052704 | .0385854 | 245.8674 | .2376008 |
| #2 | -.003825 | -.015476 | 9.154150 | .0430244 | 246.0293 | .2315366 |
| #3 | -.004018 | -.016366 | 9.188081 | .0382893 | 245.5671 | .2356549 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | 8.288325 |
| Stddev | .111880 |
| %RSD | 1.349850 |
| #1 | 8.389282 |
| #2 | 8.307652 |
| #3 | 8.168040 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 4941.670 | 82453.68 | 7532.294 | 4153.293 | 5654.118 |
| Stddev | 4.095 | 425.47 | 49.076 | 7.557 | 8.955 |
| %RSD | .0828570 | .5160156 | .6515460 | .1819494 | .1583845 |
| #1 | 4942.911 | 82940.56 | 7508.143 | 4159.003 | 5650.436 |
| #2 | 4937.099 | 82267.15 | 7499.973 | 4144.724 | 5647.589 |
| #3 | 4945.001 | 82153.33 | 7588.766 | 4156.152 | 5664.327 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2733-01DUP Acquired: 8/4/2025 13:50:22 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **-.001843** | **.0057335** | **.0021715** | **-.008432** | **.0053262** | **1.567064** |
| Stddev | .003432 | .0013391 | .0018827 | .002082 | .0007475 | .013838 |
| %RSD | 186.2437 | 23.35645 | 86.69866 | 24.69685 | 14.03384 | .8830547 |
| #1 | -.003659 | .0041985 | .0025383 | -.006123 | .0045949 | 1.577483 |
| #2 | -.003986 | .0066626 | .0001324 | -.010167 | .0052949 | 1.551363 |
| #3 | .002116 | .0063394 | .0038439 | -.009006 | .0060888 | 1.572346 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4796693** | **-.000175** | **-.000259** | **486.0359** | **.0041227** | **.0007953** |
| Stddev | .0028301 | .000018 | .000115 | 2.6763 | .0004762 | .0000700 |
| %RSD | .5900036 | 10.44682 | 44.23033 | .5506436 | 11.55137 | 8.803609 |
| #1 | .4822736 | -.000175 | -.000243 | 489.0781 | .0036400 | .0007715 |
| #2 | .4766576 | -.000193 | -.000153 | 484.9854 | .0045922 | .0008741 |
| #3 | .4800767 | -.000156 | -.000381 | 484.0442 | .0041360 | .0007402 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0043151** | **3.679424** | **-.000800** | **.0662786** | **.0052987** | **-.000166** |
| Stddev | .0002033 | .041804 | .000377 | .0243873 | .0003409 | .000205 |
| %RSD | 4.710226 | 1.136164 | 47.15484 | 36.79517 | 6.434068 | 123.4662 |
| #1 | .0043576 | 3.632057 | -.001232 | .0636478 | .0051818 | -.000315 |
| #2 | .0040940 | 3.695056 | -.000542 | .0918748 | .0056827 | .000068 |
| #3 | .0044938 | 3.711160 | -.000625 | .0433134 | .0050316 | -.000251 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **154.4201** | **.0066777** | **.0069822** | **354.0719** | **.0740135** | **.2433133** |
| Stddev | 1.6312 | .0022608 | .0003415 | 3.1336 | .0012054 | .0007926 |
| %RSD | 1.056313 | 33.85549 | 4.890367 | .8850084 | 1.628580 | .3257470 |
| #1 | 152.8955 | .0085875 | .0066720 | 351.7314 | .0754047 | .2424742 |
| #2 | 154.2245 | .0072640 | .0069266 | 352.8524 | .0733537 | .2434164 |
| #3 | 156.1402 | .0041815 | .0073481 | 357.6318 | .0732821 | .2440493 |

Sample Name: Q2733-01DUP Acquired: 8/4/2025 13:50:22 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | -.003094 | -.016084 | 9.505135 | .0435500 | F 258.4034 | .2590912 |
| Stddev | .000352 | .001856 | .093528 | .0026054 | 1.3545 | .0001554 |
| %RSD | 11.36362 | 11.53780 | .9839730 | 5.982615 | .5241983 | .0599753 |
| #1 | -.002833 | -.018224 | 9.400245 | .0406831 | 258.8708 | .2591358 |
| #2 | -.003494 | -.014921 | 9.535307 | .0441935 | 259.4624 | .2592194 |
| #3 | -.002956 | -.015107 | 9.579852 | .0457733 | 256.8771 | .2589184 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | 8.988087 |
| Stddev | .127799 |
| %RSD | 1.421872 |
| #1 | 9.100253 |
| #2 | 9.015050 |
| #3 | 8.848958 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 4961.185 | 83071.71 | 7350.325 | 4187.698 | 5680.189 |
| Stddev | 21.099 | 95.64 | 97.682 | 17.908 | 27.213 |
| %RSD | .4252829 | .1151269 | 1.328946 | .4276454 | .4790878 |
| #1 | 4944.208 | 83090.30 | 7250.196 | 4187.366 | 5655.741 |
| #2 | 4954.539 | 82968.15 | 7355.419 | 4205.770 | 5675.318 |
| #3 | 4984.806 | 83156.69 | 7445.361 | 4169.958 | 5709.509 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2733-01LX5 Acquired: 8/4/2025 13:54:52 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **-.004085** | **.0000081** | **-.001333** | **-.005440** | **-.000228** | **.3574689** |
| Stddev | .002268 | .0007315 | .001786 | .004246 | .001135 | .0043926 |
| %RSD | 55.51791 | 9031.232 | 134.0661 | 78.06237 | 498.4973 | 1.228803 |
| #1 | -.005200 | -.000272 | -.000471 | -.001380 | -.000517 | .3538035 |
| #2 | -.001475 | -.000542 | -.003387 | -.009851 | .001024 | .3623378 |
| #3 | -.005580 | .000838 | -.000140 | -.005088 | -.001190 | .3562653 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0928724** | **-.000035** | **-.000053** | **95.24700** | **-.000519** | **.0002308** |
| Stddev | .0003646 | .000044 | .000024 | .13345 | .000318 | .0001447 |
| %RSD | .3926140 | 128.1297 | 45.06020 | .1401070 | 61.28591 | 62.70013 |
| #1 | .0929966 | .000016 | -.000070 | 95.39968 | -.000833 | .0000898 |
| #2 | .0924620 | -.000067 | -.000062 | 95.15263 | -.000197 | .0002236 |
| #3 | .0931588 | -.000052 | -.000026 | 95.18869 | -.000527 | .0003789 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0003638** | **.6867678** | **-.001425** | **.0251396** | **.0009051** | **.0000407** |
| Stddev | .0004832 | .0049870 | .000467 | .0249113 | .0001405 | .0001969 |
| %RSD | 132.8166 | .7261573 | 32.78794 | 99.09191 | 15.51942 | 483.4069 |
| #1 | .0009060 | .6906625 | -.001122 | .0250226 | .0007612 | .0000406 |
| #2 | -.000022 | .6811470 | -.001963 | .0002870 | .0010419 | -.000156 |
| #3 | .000207 | .6884937 | -.001191 | .0501091 | .0009120 | .000238 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **26.64293** | **.0031919** | **.0003934** | **63.18962** | **.0113836** | **.0446201** |
| Stddev | .25586 | .0025054 | .0001122 | .62037 | .0003852 | .0002108 |
| %RSD | .9603285 | 78.49051 | 28.50963 | .9817596 | 3.383652 | .4723272 |
| #1 | 26.92184 | .0004079 | .0003598 | 63.87420 | .0113909 | .0447174 |
| #2 | 26.58786 | .0039029 | .0005185 | 63.02998 | .0117651 | .0443783 |
| #3 | 26.41908 | .0052650 | .0003019 | 62.66466 | .0109948 | .0447646 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2733-01LX5 Acquired: 8/4/2025 13:54:52 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | -.003008 | -.004089 | 1.724927 | .0051540 | F 49.06202 | .0605171 |
| Stddev | .000160 | .001386 | .019956 | .0009764 | .09234 | .0006106 |
| %RSD | 5.326751 | 33.88517 | 1.156947 | 18.94477 | .1882017 | 1.008980 |
| #1 | -.002963 | -.002856 | 1.747661 | .0048940 | 49.08889 | .0606884 |
| #2 | -.003186 | -.003823 | 1.716821 | .0062341 | 49.13794 | .0598391 |
| #3 | -.002875 | -.005589 | 1.710299 | .0043339 | 48.95923 | .0610237 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | 1.749234 |
| Stddev | .005718 |
| %RSD | .3269134 |
| #1 | 1.755347 |
| #2 | 1.748339 |
| #3 | 1.744015 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5441.609 | 91856.81 | 7768.481 | 4584.876 | 6440.260 |
| Stddev | 13.466 | 396.22 | 58.328 | 21.859 | 10.191 |
| %RSD | .2474637 | .4313440 | .7508293 | .4767607 | .1582413 |
| #1 | 5426.062 | 91730.27 | 7830.154 | 4572.466 | 6428.893 |
| #2 | 5449.153 | 91539.32 | 7714.203 | 4572.048 | 6443.305 |
| #3 | 5449.612 | 92300.84 | 7761.087 | 4610.116 | 6448.581 |

Sample Name: Q2733-01MS Acquired: 8/4/2025 13:59:08 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.8564153** | **2.108251** | **.9632904** | **2.141653** | **.8563121** | **3.597349** |
| Stddev | .0023778 | .040875 | .0033284 | .006793 | .0008963 | .026710 |
| %RSD | .2776512 | 1.938820 | .3455244 | .3171914 | .1046637 | .7424998 |
| #1 | .8536704 | 2.124423 | .9640401 | 2.133966 | .8571967 | 3.566515 |
| #2 | .8577316 | 2.138567 | .9661800 | 2.146848 | .8554046 | 3.613380 |
| #3 | .8578440 | 2.061765 | .9596510 | 2.144145 | .8563350 | 3.612152 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6716131** | **.2064881** | **.2006994** | **476.2364** | **.4004350** | **.2064075** |
| Stddev | .0016544 | .0006330 | .0008237 | 8.5526 | .0021255 | .0005892 |
| %RSD | .2463305 | .3065603 | .4104303 | 1.795869 | .5308030 | .2854596 |
| #1 | .6701206 | .2071988 | .2011911 | 466.8489 | .4010347 | .2066855 |
| #2 | .6713268 | .2062805 | .2011586 | 483.5860 | .4021962 | .2068063 |
| #3 | .6733920 | .2059850 | .1997484 | 478.2742 | .3980740 | .2057307 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3059002** | **6.667381** | **.2036410** | **1.978585** | **.5174045** | **.0102513** |
| Stddev | .0007383 | .046743 | .0007564 | .035361 | .0016468 | .0006481 |
| %RSD | .2413571 | .7010628 | .3714464 | 1.787204 | .3182735 | 6.322153 |
| #1 | .3065278 | 6.613413 | .2029172 | 2.014077 | .5184943 | .0096705 |
| #2 | .3060860 | 6.695017 | .2035795 | 1.943356 | .5182091 | .0101331 |
| #3 | .3050867 | 6.693714 | .2044263 | 1.978323 | .5155101 | .0109504 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **151.5442** | **.3109395** | **.2275575** | **351.1976** | **.3504029** | **.6609548** |
| Stddev | .6645 | .0056745 | .0003052 | 1.6428 | .0015488 | .0006142 |
| %RSD | .4384565 | 1.824945 | .1341089 | .4677581 | .4420178 | .0929246 |
| #1 | 150.8252 | .3052810 | .2272383 | 349.3354 | .3519073 | .6612785 |
| #2 | 151.6717 | .3109076 | .2275878 | 351.8160 | .3504883 | .6602465 |
| #3 | 152.1356 | .3166298 | .2278464 | 352.4414 | .3488131 | .6613395 |

Sample Name: Q2733-01MS Acquired: 8/4/2025 13:59:08 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | .7157296 | .1843642 | 10.04689 | 6.260155 | F 252.1203 | .4550409 |
| Stddev | .0016945 | .0016600 | .07519 | .028497 | 1.1683 | .0010896 |
| %RSD | .2367543 | .9003820 | .7483638 | .4552176 | .4633705 | .2394440 |
| #1 | .7172106 | .1825817 | 9.97325 | 6.290771 | 252.9685 | .4562947 |
| #2 | .7160965 | .1858657 | 10.04387 | 6.255292 | 252.6045 | .4545042 |
| #3 | .7138817 | .1846453 | 10.12354 | 6.234402 | 250.7878 | .4543238 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | 8.858492 |
| Stddev | .049109 |
| %RSD | .5543757 |
| #1 | 8.848937 |
| #2 | 8.911676 |
| #3 | 8.814862 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5043.301 | 84952.75 | 7461.725 | 4244.126 | 5777.780 |
| Stddev | 8.497 | 190.76 | 9.669 | 8.294 | 10.902 |
| %RSD | .1684871 | .2245430 | .1295820 | .1954213 | .1886869 |
| #1 | 5035.473 | 85140.82 | 7451.089 | 4237.742 | 5773.831 |
| #2 | 5042.092 | 84759.41 | 7464.100 | 4241.136 | 5769.403 |
| #3 | 5052.338 | 84958.01 | 7469.985 | 4253.501 | 5790.106 |

Sample Name: Q2733-01MSD Acquired: 8/4/2025 14:03:23 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.8680847** | **2.181309** | **.9674129** | **2.184958** | **.8768451** | **3.520964** |
| Stddev | .0052299 | .013068 | .0046492 | .006835 | .0004627 | .011149 |
| %RSD | .6024704 | .5990771 | .4805778 | .3128251 | .0527625 | .3166446 |
| #1 | .8740424 | 2.181730 | .9727526 | 2.190869 | .8765831 | 3.513891 |
| #2 | .8642501 | 2.194160 | .9652234 | 2.186531 | .8773793 | 3.515185 |
| #3 | .8659618 | 2.168035 | .9642627 | 2.177474 | .8765729 | 3.533816 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6501589** | **.2046529** | **.2022542** | **447.7161** | **.4061083** | **.2082404** |
| Stddev | .0013707 | .0018228 | .0008302 | 1.4943 | .0006046 | .0006613 |
| %RSD | .2108291 | .8906700 | .4104842 | .3337513 | .1488776 | .3175818 |
| #1 | .6493103 | .2066866 | .2032072 | 449.4062 | .4056820 | .2088904 |
| #2 | .6494262 | .2041059 | .2016880 | 447.1721 | .4058427 | .2082626 |
| #3 | .6517403 | .2031662 | .2018674 | 446.5701 | .4068002 | .2075683 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3079170** | **6.615606** | **.2072884** | **2.002357** | **.5213830** | **.0153682** |
| Stddev | .0012131 | .060099 | .0006500 | .022356 | .0026973 | .0006088 |
| %RSD | .3939559 | .9084357 | .3135694 | 1.116501 | .5173440 | 3.961756 |
| #1 | .3093079 | 6.565363 | .2079968 | 2.028171 | .5242844 | .0150812 |
| #2 | .3070777 | 6.599272 | .2067195 | 1.989651 | .5189514 | .0160675 |
| #3 | .3073655 | 6.682183 | .2071488 | 1.989250 | .5209134 | .0149559 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **143.1260** | **.3203813** | **.2280418** | **332.1506** | **.3439351** | **.6637899** |
| Stddev | 1.3279 | .0020540 | .0005057 | 2.5109 | .0041643 | .0025473 |
| %RSD | .9278139 | .6411220 | .2217712 | .7559423 | 1.210789 | .3837529 |
| #1 | 141.7753 | .3184713 | .2276957 | 329.8573 | .3485378 | .6665756 |
| #2 | 143.1726 | .3225541 | .2278075 | 331.7610 | .3428389 | .6632147 |
| #3 | 144.4300 | .3201186 | .2286222 | 334.8335 | .3404284 | .6615793 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2733-01MSD Acquired: 8/4/2025 14:03:23 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | .7269146 | .1906587 | 9.607449 | 6.218804 | F 236.2907 | .4423169 |
| Stddev | .0019167 | .0010143 | .097809 | .034505 | .7981 | .0006849 |
| %RSD | .2636784 | .5320057 | 1.018053 | .5548521 | .3377423 | .1548379 |
| #1 | .7288957 | .1908785 | 9.501292 | 6.245637 | 237.0607 | .4425596 |
| #2 | .7267786 | .1915452 | 9.627142 | 6.230895 | 236.3441 | .4415438 |
| #3 | .7250695 | .1895526 | 9.693913 | 6.179881 | 235.4673 | .4428474 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | 8.346451 |
| Stddev | .072954 |
| %RSD | .8740726 |
| #1 | 8.420483 |
| #2 | 8.344247 |
| #3 | 8.274625 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5092.954 | 86154.27 | 7639.410 | 4283.724 | 5855.309 |
| Stddev | 18.370 | 29.80 | 63.609 | 14.359 | 15.955 |
| %RSD | .3606903 | .0345838 | .8326461 | .3352079 | .2724910 |
| #1 | 5072.428 | 86121.64 | 7572.473 | 4300.300 | 5836.890 |
| #2 | 5098.583 | 86161.16 | 7646.692 | 4275.088 | 5864.142 |
| #3 | 5107.850 | 86180.03 | 7699.065 | 4275.784 | 5864.894 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2733-01A Acquired: 8/4/2025 14:07:39 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.8762060** | **2.147820** | **.9786462** | **2.212129** | **.8671257** | **3.572830** |
| Stddev | .0040190 | .036001 | .0035518 | .004924 | .0010622 | .020453 |
| %RSD | .4586804 | 1.676163 | .3629323 | .2225901 | .1224936 | .5724569 |
| #1 | .8716634 | 2.189382 | .9749349 | 2.216230 | .8659476 | 3.596424 |
| #2 | .8792993 | 2.126353 | .9820136 | 2.206668 | .8680103 | 3.560130 |
| #3 | .8776553 | 2.127723 | .9789902 | 2.213489 | .8674192 | 3.561936 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6689524** | **.2026647** | **.2036042** | **465.2209** | **.4031477** | **.2097631** |
| Stddev | .0021044 | .0021250 | .0005351 | 1.4823 | .0021154 | .0006080 |
| %RSD | .3145775 | 1.048552 | .2627904 | .3186140 | .5247160 | .2898395 |
| #1 | .6707758 | .2048528 | .2030241 | 466.9232 | .4013899 | .2095729 |
| #2 | .6666497 | .2006089 | .2037103 | 464.5239 | .4054954 | .2092730 |
| #3 | .6694316 | .2025326 | .2040783 | 464.2157 | .4025576 | .2104435 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3102882** | **6.779218** | **.2052690** | **1.963455** | **.5261953** | **.0738947** |
| Stddev | .0007535 | .101382 | .0000601 | .012236 | .0017509 | .0017750 |
| %RSD | .2428501 | 1.495486 | .0292690 | .6231807 | .3327508 | 2.402076 |
| #1 | .3095786 | 6.662917 | .2052348 | 1.955462 | .5242181 | .0731323 |
| #2 | .3110791 | 6.848942 | .2052337 | 1.977541 | .5268185 | .0759235 |
| #3 | .3102068 | 6.825795 | .2053383 | 1.957361 | .5275494 | .0726283 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **150.8594** | **.3168698** | **.2311539** | **349.1856** | **.3447544** | **.6697015** |
| Stddev | 2.0656 | .0015168 | .0011646 | 4.2646 | .0040095 | .0002285 |
| %RSD | 1.369247 | .4786883 | .5038328 | 1.221289 | 1.163010 | .0341222 |
| #1 | 148.4784 | .3179352 | .2298338 | 344.2987 | .3489879 | .6695170 |
| #2 | 152.1724 | .3151332 | .2315918 | 352.1539 | .3410145 | .6696304 |
| #3 | 151.9274 | .3175410 | .2320362 | 351.1041 | .3442608 | .6699571 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2733-01A Acquired: 8/4/2025 14:07:39 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | .7231939 | .1864815 | 10.18114 | 6.261934 | F 248.5081 | .4494269 |
| Stddev | .0024484 | .0011467 | .13842 | .015678 | .6945 | .0035911 |
| %RSD | .3385522 | .6149224 | 1.359583 | .2503705 | .2794588 | .7990493 |
| #1 | .7204144 | .1854002 | 10.02132 | 6.254948 | 249.1370 | .4526657 |
| #2 | .7241362 | .1863603 | 10.26283 | 6.279891 | 247.7627 | .4455650 |
| #3 | .7250312 | .1876840 | 10.25927 | 6.250964 | 248.6245 | .4500500 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | 8.733306 |
| Stddev | .083482 |
| %RSD | .9559086 |
| #1 | 8.761565 |
| #2 | 8.639362 |
| #3 | 8.798992 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5042.311 | 86020.00 | 7689.699 | 4262.086 | 5782.448 |
| Stddev | 8.280 | 600.52 | 62.126 | 28.873 | 12.888 |
| %RSD | .1642190 | .6981174 | .8079167 | .6774437 | .2228870 |
| #1 | 5050.592 | 86713.04 | 7621.794 | 4294.832 | 5797.199 |
| #2 | 5034.031 | 85653.55 | 7743.685 | 4240.286 | 5773.366 |
| #3 | 5042.310 | 85693.40 | 7703.619 | 4251.141 | 5776.779 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2742-01 Acquired: 8/4/2025 14:12:42 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **-.003829** | **.0027149** | **.0005902** | **-.005823** | **.0012084** | **.1569377** |
| Stddev | .001987 | .0013993 | .0003238 | .001565 | .0014805 | .0086528 |
| %RSD | 51.90592 | 51.53909 | 54.87340 | 26.87025 | 122.5180 | 5.513504 |
| #1 | -.006018 | .0042039 | .0009597 | -.007024 | .0010737 | .1595328 |
| #2 | -.002139 | .0014272 | .0003561 | -.004054 | -.000200 | .1472844 |
| #3 | -.003330 | .0025136 | .0004546 | -.006390 | .002752 | .1639960 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1501213** | **-.000146** | **-.000094** | **234.5109** | **-.000005** | **.0001961** |
| Stddev | .0004076 | .000018 | .000052 | 1.3696 | .000140 | .0001436 |
| %RSD | .2715000 | 12.07184 | 55.47557 | .5840102 | 2893.416 | 73.23041 |
| #1 | .1502720 | -.000166 | -.000102 | 233.0837 | -.000066 | .0002865 |
| #2 | .1496599 | -.000138 | -.000142 | 235.8144 | .000156 | .0000305 |
| #3 | .1504322 | -.000134 | -.000039 | 234.6346 | -.000104 | .0002712 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0086836** | **1.198664** | **.0277668** | **74.44869** | **.0040542** | **.0003586** |
| Stddev | .0002244 | .006182 | .0003534 | .20318 | .0005060 | .0001538 |
| %RSD | 2.583661 | .5157244 | 1.272730 | .2729063 | 12.47987 | 42.88272 |
| #1 | .0086776 | 1.203960 | .0281748 | 74.31527 | .0042858 | .0005358 |
| #2 | .0089109 | 1.200161 | .0275701 | 74.68252 | .0044028 | .0002802 |
| #3 | .0084623 | 1.191871 | .0275555 | 74.34829 | .0034739 | .0002598 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **541.9473** | **.0026669** | **.0599476** | **12.06578** | **.0551459** | **.0039661** |
| Stddev | 1.9249 | .0022906 | .0000886 | .03969 | .0005449 | .0002668 |
| %RSD | .3551783 | 85.89037 | .1477246 | .3289421 | .9881114 | 6.726100 |
| #1 | 540.4299 | .0004569 | .0600273 | 12.03494 | .0546895 | .0042730 |
| #2 | 541.2995 | .0050304 | .0598523 | 12.05184 | .0549990 | .0038365 |
| #3 | 544.1125 | .0025135 | .0599632 | 12.11056 | .0557491 | .0037890 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2742-01 Acquired: 8/4/2025 14:12:42 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | .0247877 | -.009017 | F 16.53599 | .0145435 | 19.60802 | .0176859 |
| Stddev | .0012398 | .000867 | .05885 | .0027977 | .10226 | .0019158 |
| %RSD | 5.001820 | 9.617379 | .3558782 | 19.23713 | .5215424 | 10.83229 |
| #1 | .0241425 | -.009688 | 16.60386 | .0127847 | 19.55489 | .0166961 |
| #2 | .0240034 | -.008038 | 16.49929 | .0130761 | 19.54325 | .0198941 |
| #3 | .0262171 | -.009325 | 16.50480 | .0177697 | 19.72591 | .0164675 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .4803802 |
| Stddev | .0011252 |
| %RSD | .2342226 |
| #1 | .4790810 |
| #2 | .4810354 |
| #3 | .4810241 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5035.314 | 85379.42 | 7813.944 | 4273.637 | 5753.955 |
| Stddev | 17.362 | 277.87 | 42.923 | 26.623 | 20.518 |
| %RSD | .3448139 | .3254498 | .5493175 | .6229493 | .3565844 |
| #1 | 5055.113 | 85379.82 | 7853.037 | 4242.905 | 5777.331 |
| #2 | 5022.682 | 85101.35 | 7768.012 | 4289.653 | 5738.929 |
| #3 | 5028.147 | 85657.08 | 7820.785 | 4288.353 | 5745.606 |

Sample Name: Q2734-01 Acquired: 8/4/2025 14:17:05 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.0798964** | **-.027845** | **1.132288** | **-.003430** | **-.013693** | **131.6035** | **.9531233** |
| Stddev | .0001153 | .001210 | .002794 | .000649 | .001298 | .2110 | .0014280 |
| %RSD | .1442630 | 4.345557 | .2467501 | 18.92314 | 9.481033 | .1603088 | .1498221 |
| #1 | .0798586 | -.028193 | 1.135501 | -.003509 | -.012504 | 131.4614 | .9530721 |
| #2 | .0800258 | -.026499 | 1.130935 | -.004036 | -.015078 | 131.5032 | .9517216 |
| #3 | .0798048 | -.028843 | 1.130428 | -.002745 | -.013497 | 131.8459 | .9545762 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0106720** | **.0079528** | **80.41663** | **.1867926** | **.1394471** | **1.276279** | **229.1042** |
| Stddev | .0000693 | .0002242 | .36337 | .0012317 | .0002315 | .001499 | 1.8749 |
| %RSD | .6490685 | 2.819126 | .4518574 | .6593887 | .1659826 | .1174764 | .8183584 |
| #1 | .0107312 | .0079497 | 80.28163 | .1854160 | .1396941 | 1.275690 | 230.2377 |
| #2 | .0105958 | .0077302 | 80.14008 | .1877905 | .1394120 | 1.277983 | 230.1348 |
| #3 | .0106890 | .0081786 | 80.82818 | .1871714 | .1392352 | 1.275163 | 226.9401 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.755149** | **63.09698** | **.3488094** | **.0056684** | **6.748539** | **.3631217** | **1.206606** |
| Stddev | .011912 | .09068 | .0001957 | .0008064 | .087090 | .0044570 | .001747 |
| %RSD | .2069856 | .1437118 | .0560898 | 14.22674 | 1.290508 | 1.227418 | .1447646 |
| #1 | 5.753457 | 63.17454 | .3487963 | .0064049 | 6.812409 | .3675342 | 1.205373 |
| #2 | 5.744174 | 63.11911 | .3490113 | .0057937 | 6.783875 | .3586214 | 1.205840 |
| #3 | 5.767817 | 62.99728 | .3486206 | .0048067 | 6.649335 | .3632095 | 1.208605 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.23257** | **.3168342** | **.0051675** | **.0979991** | **3.559032** | **6.254461** | **6.082272** |
| Stddev | .04288 | .0069504 | .0003498 | .0009031 | .018048 | .056001 | .035547 |
| %RSD | .4190099 | 2.193698 | 6.768614 | .9215328 | .5071159 | .8953772 | .5844287 |
| #1 | 10.27732 | .3219722 | .0050273 | .0970356 | 3.561573 | 6.227250 | 6.049154 |
| #2 | 10.22854 | .3196046 | .0049096 | .0988263 | 3.539848 | 6.318868 | 6.119830 |
| #3 | 10.19185 | .3089259 | .0055656 | .0981352 | 3.575676 | 6.217265 | 6.077833 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2734-01 Acquired: 8/4/2025 14:17:05 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **2.557539** | **.2133904** | **.1112267** |
| Stddev | .012578 | .0031538 | .0024963 |
| %RSD | .4917957 | 1.477956 | 2.244336 |
| #1 | 2.544371 | .2159074 | .1104723 |
| #2 | 2.558819 | .2098526 | .1091946 |
| #3 | 2.569428 | .2144111 | .1140132 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **6211.726** | **106302.4** | **8968.099** | **5286.772** | **6202.215** |
| Stddev | 13.513 | 181.0 | 91.082 | 18.882 | 13.533 |
| %RSD | .2175479 | .1702361 | 1.015619 | .3571638 | .2181926 |
| #1 | 6209.704 | 106507.8 | 9037.396 | 5272.379 | 6208.692 |
| #2 | 6199.337 | 106166.4 | 9001.964 | 5308.152 | 6186.661 |
| #3 | 6226.137 | 106233.0 | 8864.935 | 5279.785 | 6211.292 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2741-01 Acquired: 8/4/2025 14:21:05 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.0681009** | **-.025500** | **.1910103** | **-.000839** | **-.011622** | **75.61708** | **.5076491** |
| Stddev | .0008846 | .001116 | .0029728 | .001295 | .002947 | .07632 | .0007040 |
| %RSD | 1.298917 | 4.376894 | 1.556375 | 154.3512 | 25.35986 | .1009300 | .1386740 |
| #1 | .0686174 | -.024476 | .1944256 | .000239 | -.014637 | 75.58746 | .5083488 |
| #2 | .0670795 | -.025336 | .1890033 | -.000481 | -.008748 | 75.70377 | .5069409 |
| #3 | .0686057 | -.026690 | .1896019 | -.002276 | -.011481 | 75.56001 | .5076575 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0075302** | **.0002605** | **138.8727** | **.1538403** | **.0807967** | **.2194822** | **171.3996** |
| Stddev | .0000995 | .0002223 | .2685 | .0005700 | .0002093 | .0015022 | 1.7433 |
| %RSD | 1.321734 | 85.33349 | .1933536 | .3705323 | .2590934 | .6844265 | 1.017111 |
| #1 | .0074267 | .0002284 | 139.1740 | .1531951 | .0810316 | .2210594 | 171.3749 |
| #2 | .0076252 | .0004971 | 138.7851 | .1540502 | .0806298 | .2180684 | 169.6687 |
| #3 | .0075389 | .0000560 | 138.6589 | .1542757 | .0807289 | .2193189 | 173.1551 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.814079** | **53.13684** | **.1529534** | **.0031652** | **3.263760** | **.2653356** | **.5830677** |
| Stddev | .002249 | .16583 | .0006261 | .0003081 | .057617 | .0024855 | .0013303 |
| %RSD | .0589751 | .3120809 | .4093256 | 9.735655 | 1.765362 | .9367543 | .2281466 |
| #1 | 3.816606 | 52.99501 | .1531781 | .0031532 | 3.256819 | .2625192 | .5844327 |
| #2 | 3.812294 | 53.31917 | .1522460 | .0028632 | 3.209928 | .2662653 | .5829952 |
| #3 | 3.813338 | 53.09635 | .1534361 | .0034791 | 3.324534 | .2672223 | .5817752 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **12.09051** | **.0416428** | **.0111158** | **.0146932** | **2.051517** | **7.318589** | **3.421180** |
| Stddev | .11521 | .0128555 | .0000792 | .0003642 | .018389 | .298794 | .016390 |
| %RSD | .9529128 | 30.87093 | .7126885 | 2.478832 | .8963554 | 4.082670 | .4790820 |
| #1 | 12.08541 | .0408347 | .0111777 | .0151049 | 2.048292 | 7.051662 | 3.439776 |
| #2 | 11.97793 | .0292104 | .0110265 | .0144130 | 2.071305 | 7.262739 | 3.414929 |
| #3 | 12.20819 | .0548833 | .0111432 | .0145615 | 2.034954 | 7.641368 | 3.408835 |

Sample Name: Q2741-01 Acquired: 8/4/2025 14:21:05 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **6.220330** | **.1361378** | **.7797567** |
| Stddev | .021679 | .0005093 | .0028634 |
| %RSD | .3485178 | .3741157 | .3672229 |
| #1 | 6.239478 | .1355558 | .7816136 |
| #2 | 6.196792 | .1363550 | .7811976 |
| #3 | 6.224720 | .1365024 | .7764590 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5778.546** | **98620.54** | **8318.733** | **4880.539** | **6206.342** |
| Stddev | 18.266 | 152.21 | 82.825 | 2.546 | 9.745 |
| %RSD | .3161088 | .1543383 | .9956419 | .0521643 | .1570197 |
| #1 | 5763.928 | 98739.45 | 8321.042 | 4878.419 | 6195.188 |
| #2 | 5799.023 | 98673.17 | 8234.777 | 4879.835 | 6213.208 |
| #3 | 5772.687 | 98449.00 | 8400.379 | 4883.362 | 6210.630 |

Sample Name: Q2743-01 Acquired: 8/4/2025 14:25:08 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.2026312** | **-.021863** | **11.05358** | **.0012240** | **.0029486** | **114.5813** |
| Stddev | .0008695 | .002633 | .03623 | .0033835 | .0012670 | .3464 |
| %RSD | .4291005 | 12.04550 | .3277347 | 276.4349 | 42.96997 | .3023451 |
| #1 | .2031049 | -.023499 | 11.02609 | .0041927 | .0028075 | 114.9373 |
| #2 | .2031609 | -.023264 | 11.04002 | -.002460 | .0042802 | 114.5611 |
| #3 | .2016277 | -.018825 | 11.09463 | .001939 | .0017580 | 114.2453 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.051799** | **.0106260** | **.0135543** | **325.8345** | **.2291957** | **.1074341** |
| Stddev | .009883 | .0001460 | .0000165 | 1.0513 | .0011899 | .0002892 |
| %RSD | .2439204 | 1.374040 | .1219515 | .3226369 | .5191796 | .2692226 |
| #1 | 4.061074 | .0106950 | .0135724 | 326.9974 | .2305177 | .1074033 |
| #2 | 4.052921 | .0107247 | .0135401 | 324.9514 | .2288590 | .1071615 |
| #3 | 4.041403 | .0104583 | .0135503 | 325.5548 | .2282103 | .1077375 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.634524** | **193.1793** | **2.645489** | **71.86863** | **.2834584** | **.0153154** |
| Stddev | .009388 | 1.6399 | .007431 | .32162 | .0014029 | .0008697 |
| %RSD | .3563613 | .8488790 | .2808901 | .4475139 | .4949043 | 5.678928 |
| #1 | 2.628278 | 192.1179 | 2.653839 | 72.22737 | .2826532 | .0143156 |
| #2 | 2.629973 | 192.3520 | 2.643028 | 71.77246 | .2826437 | .0157329 |
| #3 | 2.645320 | 195.0680 | 2.639601 | 71.60607 | .2850782 | .0158976 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.580323** | **.3506352** | **4.457690** | **11.73480** | **.0833784** | **.0166948** |
| Stddev | .029356 | .0021633 | .008676 | .11019 | .0110878 | .0000413 |
| %RSD | .6409177 | .6169667 | .1946347 | .9390061 | 13.29818 | .2474628 |
| #1 | 4.584635 | .3483125 | 4.463668 | 11.66759 | .0715330 | .0166478 |
| #2 | 4.549049 | .3510006 | 4.461662 | 11.67483 | .0850934 | .0167110 |
| #3 | 4.607285 | .3525925 | 4.447738 | 11.86196 | .0935088 | .0167256 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2743-01 Acquired: 8/4/2025 14:25:08 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | .6490466 | 3.579469 | F 21.85182 | F 22.50887 | 6.010009 | .2048905 |
| Stddev | .0013743 | .016668 | .24991 | .01308 | .017774 | .0030687 |
| %RSD | .2117438 | .4656481 | 1.143672 | .0580957 | .2957474 | 1.497740 |
| #1 | .6474609 | 3.580140 | 21.90387 | 22.52372 | 5.991119 | .2026501 |
| #2 | .6497847 | 3.562476 | 21.57999 | 22.49910 | 6.012506 | .2083882 |
| #3 | .6498940 | 3.595791 | 22.07162 | 22.50379 | 6.026404 | .2036332 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | 2.013551 |
| Stddev | .019468 |
| %RSD | .9668285 |
| #1 | 2.029163 |
| #2 | 2.019751 |
| #3 | 1.991738 |

| 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 | 102811.6 | 9178.543 | 5073.206 | 5946.380 |
| Stddev | 6.923 | 371.4 | 72.605 | 12.289 | 11.572 |
| %RSD | .1146231 | .3612195 | .7910249 | .2422269 | .1946122 |
| #1 | 6045.739 | 102785.7 | 9099.081 | 5080.788 | 5955.988 |
| #2 | 6040.667 | 103195.2 | 9195.130 | 5079.802 | 5949.617 |
| #3 | 6032.046 | 102453.8 | 9241.420 | 5059.028 | 5933.533 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: CCV03 Acquired: 8/4/2025 14:43:24 Type: Unk
Method: 6010-200.7 NEW(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.887699** | **5.424548** | **4.644272** | **5.051938** | **4.993085** | **9.425452** |
| Stddev | .024410 | .082576 | .021580 | .010807 | .019201 | .115874 |
| %RSD | .4994087 | 1.522260 | .4646609 | .2139268 | .3845526 | 1.229377 |
| #1 | 4.865246 | 5.334771 | 4.630106 | 5.041593 | 4.985627 | 9.556688 |
| #2 | 4.884169 | 5.497254 | 4.633601 | 5.051065 | 4.978733 | 9.382411 |
| #3 | 4.913681 | 5.441620 | 4.669109 | 5.063155 | 5.014897 | 9.337257 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.740061** | **.2356263** | **2.306539** | **24.44081** | **.9069431** | **2.322529** |
| Stddev | .119433 | .0029379 | .010066 | .25087 | .0049643 | .010310 |
| %RSD | 1.226209 | 1.246855 | .4364174 | 1.026428 | .5473644 | .4439102 |
| #1 | 9.875268 | .2390158 | 2.297734 | 24.72659 | .9067920 | 2.315145 |
| #2 | 9.648928 | .2340527 | 2.304370 | 24.25690 | .9119812 | 2.318134 |
| #3 | 9.695988 | .2338104 | 2.317513 | 24.33895 | .9020561 | 2.334308 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.187689** | **4.988521** | **2.403007** | **22.99524** | **2.329188** | **1.212028** |
| Stddev | .004736 | .014062 | .022408 | .31344 | .009781 | .000215 |
| %RSD | .3987208 | .2818931 | .9325186 | 1.363065 | .4199135 | .0177035 |
| #1 | 1.185105 | 4.972631 | 2.428860 | 23.34617 | 2.322664 | 1.212180 |
| #2 | 1.184808 | 4.993571 | 2.391006 | 22.89644 | 2.324467 | 1.211782 |
| #3 | 1.193155 | 4.999361 | 2.389154 | 22.74310 | 2.340434 | 1.212121 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **23.59068** | **2.376575** | **2.552583** | **25.11571** | **4.755081** | **4.882919** |
| Stddev | .01375 | .032911 | .003936 | .05451 | .067555 | .017458 |
| %RSD | .0582752 | 1.384798 | .1541831 | .2170433 | 1.420688 | .3575417 |
| #1 | 23.57485 | 2.413406 | 2.554993 | 25.05370 | 4.831805 | 4.870671 |
| #2 | 23.59761 | 2.366268 | 2.554714 | 25.13733 | 4.728914 | 4.875177 |
| #3 | 23.59958 | 2.350052 | 2.548041 | 25.15609 | 4.704524 | 4.902910 |

Sample Name: CCV03 Acquired: 8/4/2025 14:43:24 Type: Unk
Method: 6010-200.7 NEW(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV03 Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.692204** | **4.907049** | **4.876584** | F **4.416047** | **4.791513** | **4.584649** |
| Stddev | .019448 | .051800 | .003399 | .019544 | .017386 | .062031 |
| %RSD | .4144782 | 1.055622 | .0697024 | .4425691 | .3628398 | 1.353019 |
| #1 | 4.672929 | 4.966740 | 4.874046 | 4.399414 | 4.774433 | 4.651243 |
| #2 | 4.691863 | 4.873900 | 4.875260 | 4.411154 | 4.790919 | 4.574198 |
| #3 | 4.711821 | 4.880506 | 4.880446 | 4.437572 | 4.809189 | 4.528508 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | **4.813588** |
| Stddev | .049043 |
| %RSD | 1.018843 |
| #1 | 4.869818 |
| #2 | 4.791292 |
| #3 | 4.779654 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5538.849** | **93952.66** | **8304.604** | **4615.462** | **6601.219** |
| Stddev | 15.889 | 136.99 | 104.805 | 9.723 | 13.484 |
| %RSD | .2868593 | .1458127 | 1.262013 | .2106521 | .2042622 |
| #1 | 5536.420 | 94078.53 | 8187.206 | 4617.776 | 6606.976 |
| #2 | 5555.813 | 93806.75 | 8337.861 | 4623.819 | 6610.869 |
| #3 | 5524.315 | 93972.72 | 8388.746 | 4604.791 | 6585.812 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: CCB03 Acquired: 8/4/2025 14:54:00 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **-.001004** | **-.002587** | **-.000449** | **-.002294** | **-.001972** | **.0103815** | **-.001047** |
| Stddev | .001876 | .001908 | .000428 | .002167 | .001482 | .0075638 | .000294 |
| %RSD | 186.8362 | 73.76854 | 95.34063 | 94.44399 | 75.16611 | 72.85841 | 28.10387 |
| #1 | .000015 | -.001550 | -.000692 | -.004779 | -.002488 | .0154775 | -.001347 |
| #2 | .000141 | -.001422 | -.000700 | -.000798 | -.000301 | .0016907 | -.001035 |
| #3 | -.003169 | -.004789 | .000045 | -.001305 | -.003127 | .0139763 | -.000759 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000011** | **.0001790** | **.0107735** | **-.001616** | **.0003821** | **.0000369** | **-.003017** |
| Stddev | .0000426 | .0000059 | .0102869 | .000435 | .0001537 | .0002036 | .004215 |
| %RSD | 4020.786 | 3.275910 | 95.48322 | 26.90498 | 40.22742 | 550.9103 | 139.6932 |
| #1 | -.000011 | .0001724 | .0191212 | -.001115 | .0002462 | -.000198 | -.004511 |
| #2 | .000048 | .0001813 | .0139181 | -.001831 | .0005489 | .000168 | -.006282 |
| #3 | -.000034 | .0001835 | -.000719 | -.001900 | .0003512 | .000140 | .001741 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.001003** | **.0409153** | **.0002490** | **.0003119** | **.0893059** | **.0013942** | **-.000553** |
| Stddev | .000362 | .0306196 | .0001906 | .0003427 | .0109424 | .0024088 | .000152 |
| %RSD | 36.07911 | 74.83658 | 76.53609 | 109.8619 | 12.25273 | 172.7769 | 27.43109 |
| #1 | -.000969 | .0186428 | .0004563 | .0002871 | .1011304 | .0032729 | -.000472 |
| #2 | -.000660 | .0758320 | .0000813 | -.000018 | .0795372 | -.001321 | -.000727 |
| #3 | -.001381 | .0282711 | .0002094 | .000666 | .0872501 | .002231 | -.000459 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2938677** | **-.002224** | **.0005655** | **-.000138** | **.0000446** | **.0038449** | **.0073822** |
| Stddev | .0216567 | .000710 | .0004134 | .000467 | .0019057 | .0047645 | .0016628 |
| %RSD | 7.369537 | 31.93202 | 73.09943 | 337.7094 | 4270.500 | 123.9160 | 22.52432 |
| #1 | .2786912 | -.001437 | .0006482 | -.000243 | .0021869 | .0014573 | .0081408 |
| #2 | .3186684 | -.002417 | .0001171 | .000372 | -.000591 | .0007464 | .0054754 |
| #3 | .2842437 | -.002817 | .0009314 | -.000544 | -.001462 | .0093311 | .0085303 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: CCB03 Acquired: 8/4/2025 14:54:00 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | .0063128 | F -.010474 | .0001927 |
| Stddev | .0013811 | .004020 | .0000176 |
| %RSD | 21.87798 | 38.38015 | 9.108911 |
| #1 | .0078797 | -.014620 | .0002069 |
| #2 | .0052726 | -.006593 | .0001731 |
| #3 | .0057859 | -.010211 | .0001981 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5731.640 | 97444.49 | 8295.522 | 4770.804 | 7438.205 |
| Stddev | 5.190 | 212.63 | 29.327 | 14.947 | 14.198 |
| %RSD | .0905518 | .2182057 | .3535267 | .3133113 | .1908764 |
| #1 | 5725.882 | 97362.34 | 8311.979 | 4780.745 | 7430.057 |
| #2 | 5735.957 | 97685.94 | 8312.925 | 4778.053 | 7454.599 |
| #3 | 5733.082 | 97285.20 | 8261.663 | 4753.615 | 7429.959 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2753-01 Acquired: 8/4/2025 14:58:51 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.0957210** | **-.004256** | **.7666531** | **-.010024** | **.0012154** | **174.9108** | **1.539126** |
| Stddev | .0040433 | .001646 | .0008593 | .003657 | .0028492 | .1555 | .001781 |
| %RSD | 4.224063 | 38.67491 | .1120788 | 36.48494 | 234.4292 | .0888837 | .1157141 |
| #1 | .1003678 | -.002387 | .7665876 | -.010810 | .0031000 | 174.9577 | 1.541058 |
| #2 | .0937892 | -.004889 | .7658284 | -.006037 | .0026086 | 175.0375 | 1.537549 |
| #3 | .0930059 | -.005492 | .7675432 | -.013224 | -.002062 | 174.7373 | 1.538771 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0117925** | **.0121572** | **561.4770** | **3.737702** | **.2223763** | **.8773246** | **356.7957** |
| Stddev | .0001079 | .0000859 | 3.5500 | .003964 | .0005678 | .0034433 | .7094 |
| %RSD | .9151479 | .7064084 | .6322654 | .1060598 | .2553487 | .3924819 | .1988140 |
| #1 | .0116802 | .0120800 | 557.3917 | 3.733133 | .2218627 | .8748547 | 357.2673 |
| #2 | .0118020 | .0121418 | 563.2272 | 3.740228 | .2222800 | .8758613 | 355.9799 |
| #3 | .0118954 | .0122497 | 563.8121 | 3.739746 | .2229861 | .8812580 | 357.1400 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.509101** | **340.4060** | **.5029179** | **.0151111** | **31.37846** | **.7742756** | **1.754994** |
| Stddev | .003508 | .5521 | .0021371 | .0009541 | .08208 | .0030365 | .008721 |
| %RSD | .0636780 | .1621880 | .4249424 | 6.313765 | .2615754 | .3921789 | .4969513 |
| #1 | 5.511266 | 340.3437 | .5020356 | .0148015 | 31.47293 | .7749904 | 1.764676 |
| #2 | 5.505053 | 340.9866 | .5013631 | .0143503 | 31.33778 | .7768910 | 1.752555 |
| #3 | 5.510983 | 339.8877 | .5053549 | .0161816 | 31.32467 | .7709455 | 1.747752 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **38.51879** | **.4215986** | **.0160442** | **.0733122** | **12.55244** | **12.19184** | **13.41759** |
| Stddev | .19889 | .0027359 | .0001649 | .0009126 | .03157 | .12908 | .07075 |
| %RSD | .5163329 | .6489444 | 1.027521 | 1.244809 | .2515169 | 1.058730 | .5272572 |
| #1 | 38.70160 | .4215592 | .0162331 | .0730274 | 12.55815 | 12.09925 | 13.38068 |
| #2 | 38.30701 | .4188826 | .0159294 | .0743332 | 12.51840 | 12.13700 | 13.37292 |
| #3 | 38.54777 | .4243541 | .0159700 | .0725759 | 12.58076 | 12.33929 | 13.49915 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2753-01 Acquired: 8/4/2025 14:58:51 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **19.05323** | **.2831442** | **2.239012** |
| Stddev | .10985 | .0060079 | .014626 |
| %RSD | .5765624 | 2.121834 | .6532305 |
| #1 | 19.01812 | .2890873 | 2.255472 |
| #2 | 18.96523 | .2770737 | 2.234054 |
| #3 | 19.17635 | .2832715 | 2.227509 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5895.692** | **103691.4** | **9773.511** | **5008.856** | **5434.167** |
| Stddev | 13.670 | 187.5 | 43.537 | 22.615 | 16.037 |
| %RSD | .2318641 | .1808409 | .4454588 | .4515067 | .2951130 |
| #1 | 5907.773 | 103753.4 | 9814.827 | 4987.709 | 5444.269 |
| #2 | 5898.450 | 103480.8 | 9728.050 | 5006.162 | 5442.556 |
| #3 | 5880.854 | 103840.1 | 9777.656 | 5032.698 | 5415.675 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2758-01 Acquired: 8/4/2025 15:03:09 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.2138828** | **-.050440** | **8.279147** | **.0103532** | **.0744110** | **91.94769** | **3.472369** |
| Stddev | .0013945 | .003615 | .010021 | .0012284 | .0032474 | .31337 | .012367 |
| %RSD | .6519746 | 7.166020 | .1210343 | 11.86522 | 4.364170 | .3408118 | .3561529 |
| #1 | .2123925 | -.053493 | 8.276583 | .0097794 | .0747976 | 92.17046 | 3.479951 |
| #2 | .2151560 | -.046449 | 8.270656 | .0095166 | .0774479 | 91.58936 | 3.458099 |
| #3 | .2140999 | -.051377 | 8.290200 | .0117635 | .0709876 | 92.08325 | 3.479058 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0109097** | **.0481277** | **57.85778** | **.2908835** | **.1217018** | **2.720003** | **354.8127** |
| Stddev | .0000748 | .0002363 | .29096 | .0008488 | .0003324 | .004216 | 1.1896 |
| %RSD | .6859979 | .4908948 | .5028959 | .2918113 | .2731713 | .1550159 | .3352722 |
| #1 | .0109223 | .0478554 | 57.93680 | .2902078 | .1214083 | 2.717475 | 356.1526 |
| #2 | .0109774 | .0482495 | 57.53547 | .2906064 | .1216342 | 2.717664 | 353.8806 |
| #3 | .0108293 | .0482782 | 58.10108 | .2918363 | .1220629 | 2.724870 | 354.4050 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.701109** | **27.84784** | **.5878527** | **.0787748** | **3.404661** | **.3960250** | **8.405977** |
| Stddev | .021618 | .06079 | .0003514 | .0007075 | .012147 | .0011824 | .020848 |
| %RSD | .4598414 | .2182775 | .0597842 | .8981748 | .3567727 | .2985710 | .2480139 |
| #1 | 4.714605 | 27.89761 | .5880813 | .0794331 | 3.412447 | .3972315 | 8.415380 |
| #2 | 4.676175 | 27.78009 | .5874480 | .0780266 | 3.410870 | .3959754 | 8.382084 |
| #3 | 4.712545 | 27.86583 | .5880287 | .0788646 | 3.390664 | .3948683 | 8.420468 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.40596** | **.1059254** | **.0389463** | **1.545463** | **2.953953** | **6.218144** | **10.15438** |
| Stddev | .05764 | .0097593 | .0002101 | .001353 | .017344 | .171672 | .00648 |
| %RSD | .5538797 | 9.213403 | .5395273 | .0875426 | .5871363 | 2.760818 | .0638422 |
| #1 | 10.44300 | .1156661 | .0387087 | 1.543947 | 2.973848 | 6.397491 | 10.15385 |
| #2 | 10.33955 | .1059625 | .0391077 | 1.545894 | 2.942019 | 6.055346 | 10.14818 |
| #3 | 10.43531 | .0961475 | .0390226 | 1.546548 | 2.945993 | 6.201597 | 10.16112 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2758-01 Acquired: 8/4/2025 15:03:09 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **8.636914** | **.1650970** | **.0651473** |
| Stddev | .021434 | .0005581 | .0012892 |
| %RSD | .2481662 | .3380403 | 1.978847 |
| | | | |
| #1 | 8.619462 | .1645293 | .0655420 |
| #2 | 8.630442 | .1656450 | .0637069 |
| #3 | 8.660838 | .1651167 | .0661929 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **6292.784** | **109018.8** | **9864.917** | **5300.934** | **6470.275** |
| Stddev | 4.973 | 193.7 | 24.057 | 12.943 | 6.848 |
| %RSD | .0790330 | .1776579 | .2438644 | .2441669 | .1058446 |
| | | | | | |
| #1 | 6296.336 | 108797.6 | 9866.941 | 5286.706 | 6470.517 |
| #2 | 6294.916 | 109157.6 | 9887.898 | 5312.009 | 6476.999 |
| #3 | 6287.100 | 109101.3 | 9839.912 | 5304.087 | 6463.308 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: PB169096BL Acquired: 8/4/2025 15:07:10 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **-.001977** | **-.002884** | **-.000528** | **-.001637** | **-.004900** | **.0016097** | **-.002680** |
| Stddev | .000199 | .000864 | .000213 | .001361 | .001796 | .0060949 | .000517 |
| %RSD | 10.08525 | 29.96950 | 40.24217 | 83.11953 | 36.65833 | 378.6391 | 19.29425 |
| #1 | -.001844 | -.003316 | -.000772 | -.002080 | -.006351 | .0085141 | -.002666 |
| #2 | -.002206 | -.003448 | -.000387 | -.002722 | -.002891 | -.000662 | -.003203 |
| #3 | -.001880 | -.001889 | -.000425 | -.000110 | -.005457 | -.003023 | -.002170 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000152** | **-.000001** | **.0023385** | **-.001615** | **.0002250** | **-.000264** | **-.003889** |
| Stddev | .0000885 | .000041 | .0078937 | .000068 | .0001255 | .000364 | .001157 |
| %RSD | 584.1273 | 3902.284 | 337.5518 | 4.213027 | 55.76938 | 138.0304 | 29.74646 |
| #1 | -.000083 | .000044 | .0086970 | -.001687 | .0002763 | -.000683 | -.005140 |
| #2 | .000089 | -.000011 | .0048150 | -.001552 | .0000820 | -.000031 | -.002858 |
| #3 | .000039 | -.000036 | -.006496 | -.001605 | .0003166 | -.000077 | -.003670 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.001492** | **.0096601** | **.0001442** | **.0006806** | **.1597940** | **-.001237** | **-.001059** |
| Stddev | .000337 | .0066017 | .0002597 | .0004293 | .0124086 | .002326 | .000295 |
| %RSD | 22.55678 | 68.33944 | 180.1316 | 63.07156 | 7.765366 | 188.0753 | 27.87411 |
| #1 | -.001134 | .0078317 | -.000113 | .0004680 | .1521892 | .001441 | -.001389 |
| #2 | -.001801 | .0169833 | .000139 | .0011747 | .1530799 | -.002759 | -.000967 |
| #3 | -.001541 | .0041654 | .000406 | .0003991 | .1741130 | -.002393 | -.000821 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3615645** | **-.005016** | **-.000156** | **-.000963** | **-.000403** | **-.006997** | **.0043014** |
| Stddev | .0385000 | .000976 | .000114 | .000449 | .000901 | .016283 | .0019691 |
| %RSD | 10.64816 | 19.46754 | 72.94046 | 46.59433 | 223.6372 | 232.7036 | 45.77687 |
| #1 | .4054588 | -.004498 | -.000198 | -.001450 | -.000248 | -.025145 | .0020901 |
| #2 | .3335167 | -.006142 | -.000027 | -.000566 | .000411 | .006337 | .0049491 |
| #3 | .3457181 | -.004407 | -.000243 | -.000873 | -.001371 | -.002185 | .0058650 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: PB169096BL Acquired: 8/4/2025 15:07:10 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | .0052634 | -.004898 | -.000125 | | |
| Stddev | .0012532 | .001441 | .000050 | | |
| %RSD | 23.81049 | 29.42826 | 40.09690 | | |
| | | | | | |
| #1 | .0045169 | -.005395 | -.000140 | | |
| #2 | .0045630 | -.003274 | -.000166 | | |
| #3 | .0067102 | -.006026 | -.000069 | | |
| | | | | | |
| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5845.319 | 101785.1 | 8372.885 | 4958.919 | 7527.062 |
| Stddev | 11.689 | 286.8 | 21.823 | 31.698 | 16.352 |
| %RSD | .1999767 | .2817397 | .2606344 | .6392020 | .2172409 |
| | | | | | |
| #1 | 5848.584 | 101883.8 | 8397.556 | 4988.710 | 7525.701 |
| #2 | 5855.029 | 102009.5 | 8364.988 | 4962.438 | 7544.052 |
| #3 | 5832.345 | 101462.0 | 8356.109 | 4925.608 | 7511.434 |

Sample Name: Q2740-01 Acquired: 8/4/2025 15:15:29 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.0601583** | **-.021496** | **.2850456** | **.0005846** | **-.015433** | **114.0077** | **.4989343** |
| Stddev | .0008284 | .003026 | .0010466 | .0020494 | .001770 | 1.8975 | .0081146 |
| %RSD | 1.377101 | 14.07479 | .3671570 | 350.5650 | 11.47021 | 1.664392 | 1.626386 |
| #1 | .0608918 | -.024977 | .2848814 | .0013865 | -.016836 | 111.8576 | .4897999 |
| #2 | .0592597 | -.019498 | .2840908 | -.001744 | -.016017 | 115.4480 | .5053095 |
| #3 | .0603233 | -.020014 | .2861646 | .002112 | -.013444 | 114.7174 | .5016936 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0079424** | **.0013461** | **40.88128** | **.1453248** | **.0899992** | **.2431471** | **214.9471** |
| Stddev | .0002341 | .0002118 | .69675 | .0007582 | .0001543 | .0013621 | 1.0361 |
| %RSD | 2.947739 | 15.73117 | 1.704320 | .5217509 | .1713981 | .5601883 | .4820197 |
| #1 | .0076868 | .0013432 | 40.07957 | .1457745 | .0900391 | .2425425 | 215.2571 |
| #2 | .0081464 | .0011358 | 41.34052 | .1444494 | .0898289 | .2421919 | 215.7927 |
| #3 | .0079939 | .0015593 | 41.22374 | .1457506 | .0901295 | .2447068 | 213.7913 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.343718** | **40.68533** | **.1619377** | **.0076301** | **7.495061** | **.3018671** | **.5267707** |
| Stddev | .058923 | .69786 | .0005233 | .0010430 | .051692 | .0034467 | .0017169 |
| %RSD | 1.762204 | 1.715252 | .3231413 | 13.66965 | .6896861 | 1.141801 | .3259214 |
| #1 | 3.275912 | 39.88284 | .1622128 | .0075574 | 7.523675 | .2980727 | .5286984 |
| #2 | 3.382482 | 41.14986 | .1613342 | .0087075 | 7.526119 | .3027241 | .5254060 |
| #3 | 3.372762 | 41.02330 | .1622660 | .0066253 | 7.435388 | .3048045 | .5262078 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.445972** | **.0935112** | **.0036873** | **.0157001** | **2.927158** | **8.342020** | **5.966076** |
| Stddev | .088848 | .0111795 | .0000870 | .0007995 | .030667 | .313479 | .031427 |
| %RSD | 1.051960 | 11.95525 | 2.360571 | 5.092213 | 1.047678 | 3.757835 | .5267574 |
| #1 | 8.506332 | .1045237 | .0035868 | .0165697 | 2.891898 | 8.331193 | 5.963218 |
| #2 | 8.487636 | .0938381 | .0037341 | .0155337 | 2.947624 | 8.660773 | 5.936176 |
| #3 | 8.343948 | .0821719 | .0037409 | .0149970 | 2.941952 | 8.034095 | 5.998834 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2740-01 Acquired: 8/4/2025 15:15:29 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **2.694316** | **.1179152** | **-.095517** |
| Stddev | .015477 | .0033121 | .002147 |
| %RSD | .5744229 | 2.808904 | 2.247765 |
| #1 | 2.707911 | .1144568 | -.097787 |
| #2 | 2.677473 | .1182301 | -.095243 |
| #3 | 2.697564 | .1210586 | -.093520 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **6422.091** | **111158.3** | **10000.67** | **5433.276** | **6703.292** |
| Stddev | 24.902 | 214.2 | 183.40 | 15.674 | 23.821 |
| %RSD | .3877556 | .1927386 | 1.833894 | .2884756 | .3553678 |
| #1 | 6434.950 | 110966.5 | 10204.99 | 5415.389 | 6720.565 |
| #2 | 6437.934 | 111389.6 | 9946.75 | 5439.833 | 6713.194 |
| #3 | 6393.388 | 111118.9 | 9850.27 | 5444.607 | 6676.116 |

Sample Name: Q2740-01DUP Acquired: 8/4/2025 15:19:31 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.0587561** | **-.020789** | **.3159849** | **.0002960** | **-.017639** | **116.1339** | **.4946312** |
| Stddev | .0029039 | .002465 | .0019953 | .0033254 | .001943 | .8005 | .0031630 |
| %RSD | 4.942309 | 11.85785 | .6314519 | 1123.501 | 11.01392 | .6892977 | .6394618 |
| #1 | .0605719 | -.018023 | .3137668 | -.003501 | -.017458 | 116.5661 | .4967678 |
| #2 | .0602894 | -.022755 | .3165546 | .002692 | -.019667 | 116.6253 | .4961281 |
| #3 | .0554069 | -.021587 | .3176335 | .001697 | -.015794 | 115.2101 | .4909976 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0080066** | **.0016181** | **48.79580** | **.1468359** | **.0936180** | **.2652391** | **217.0486** |
| Stddev | .0000933 | .0001069 | .27064 | .0004205 | .0007623 | .0015977 | 1.1050 |
| %RSD | 1.164909 | 6.605777 | .5546456 | .2863797 | .8142250 | .6023680 | .5091022 |
| #1 | .0079394 | .0014947 | 48.99578 | .1465045 | .0928641 | .2640832 | 215.7991 |
| #2 | .0081131 | .0016783 | 48.90380 | .1473089 | .0936015 | .2645717 | 217.4496 |
| #3 | .0079674 | .0016814 | 48.48784 | .1466942 | .0943884 | .2670623 | 217.8971 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.598403** | **44.60370** | **.1653258** | **.0073409** | **7.510562** | **.3109951** | **.5166814** |
| Stddev | .020736 | .18639 | .0007128 | .0003337 | .053048 | .0022334 | .0014165 |
| %RSD | .5762623 | .4178701 | .4311607 | 4.545498 | .7063134 | .7181394 | .2741602 |
| #1 | 3.606459 | 44.78385 | .1647808 | .0069920 | 7.453359 | .3102637 | .5154408 |
| #2 | 3.613903 | 44.61560 | .1661324 | .0076570 | 7.558137 | .3135025 | .5182248 |
| #3 | 3.574848 | 44.41165 | .1650640 | .0073735 | 7.520189 | .3092192 | .5163785 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **7.940663** | **.1016509** | **.0040851** | **.0146159** | **2.958903** | **8.537185** | **5.933210** |
| Stddev | .060901 | .0029970 | .0002171 | .0015986 | .035321 | .098356 | .017381 |
| %RSD | .7669569 | 2.948369 | 5.314397 | 10.93737 | 1.193728 | 1.152093 | .2929430 |
| #1 | 7.870749 | .0988760 | .0038366 | .0164440 | 2.994798 | 8.633126 | 5.915142 |
| #2 | 7.969059 | .1012475 | .0042376 | .0134803 | 2.957726 | 8.541849 | 5.949811 |
| #3 | 7.982180 | .1048292 | .0041811 | .0139235 | 2.924185 | 8.436579 | 5.934677 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2740-01DUP Acquired: 8/4/2025 15:19:31 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **2.569044** | **.1214514** | **-.089126** |
| Stddev | .014363 | .0011400 | .001695 |
| %RSD | .5590605 | .9386832 | 1.901633 |
| #1 | 2.557388 | .1209155 | -.087389 |
| #2 | 2.585089 | .1206781 | -.089215 |
| #3 | 2.564653 | .1227607 | -.090775 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **6383.076** | **109862.9** | **9892.069** | **5383.837** | **6614.727** |
| Stddev | 19.092 | 351.5 | 65.647 | 24.291 | 22.304 |
| %RSD | .2991048 | .3199393 | .6636299 | .4511767 | .3371845 |
| #1 | 6403.077 | 110264.8 | 9844.557 | 5411.512 | 6639.871 |
| #2 | 6381.108 | 109710.9 | 9864.673 | 5373.950 | 6606.984 |
| #3 | 6365.045 | 109613.0 | 9966.976 | 5366.049 | 6597.327 |

Sample Name: Q2740-01LX5 Acquired: 8/4/2025 15:23:33 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.0114247** | **-.004763** | **.0608822** | **-.001140** | **-.004428** | **27.33667** | **.1198741** |
| Stddev | .0031252 | .002477 | .0017784 | .001447 | .002236 | .05185 | .0007399 |
| %RSD | 27.35448 | 52.01002 | 2.920995 | 126.9597 | 50.50429 | .1896684 | .6172038 |
| #1 | .0149857 | -.003468 | .0628893 | .000470 | -.006651 | 27.39017 | .1192073 |
| #2 | .0101499 | -.003202 | .0602544 | -.002332 | -.002178 | 27.28665 | .1197450 |
| #3 | .0091383 | -.007619 | .0595029 | -.001558 | -.004455 | 27.33317 | .1206700 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0020499** | **-.000314** | **10.05932** | **.0338072** | **.0186751** | **.0592371** | **51.39489** |
| Stddev | .0000452 | .000092 | .01541 | .0001421 | .0000913 | .0001114 | .29209 |
| %RSD | 2.204135 | 29.31808 | .1531460 | .4204012 | .4891646 | .1879716 | .5683320 |
| #1 | .0020428 | -.000312 | 10.06292 | .0339710 | .0186506 | .0592413 | 51.72913 |
| #2 | .0020086 | -.000407 | 10.07261 | .0337155 | .0185985 | .0591237 | 51.26694 |
| #3 | .0020982 | -.000223 | 10.04243 | .0337352 | .0187762 | .0593463 | 51.18861 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8258233** | **10.04175** | **.0338293** | **.0013772** | **1.814524** | **.0731866** | **.1254675** |
| Stddev | .0015643 | .09383 | .0005142 | .0001081 | .006405 | .0014151 | .0005380 |
| %RSD | .1894258 | .9344308 | 1.519982 | 7.851305 | .3529651 | 1.933610 | .4288276 |
| #1 | .8260561 | 10.13927 | .0344084 | .0012563 | 1.817807 | .0729877 | .1260888 |
| #2 | .8272582 | 9.95210 | .0334264 | .0014105 | 1.807144 | .0746907 | .1251568 |
| #3 | .8241556 | 10.03389 | .0336531 | .0014648 | 1.818623 | .0718815 | .1251569 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.187361** | **.0087483** | **.0004761** | **.0017859** | **.7157088** | **2.171288** | **1.248960** |
| Stddev | .007548 | .0006971 | .0002154 | .0003783 | .0071458 | .086899 | .006303 |
| %RSD | .3450953 | 7.968752 | 45.24824 | 21.18133 | .9984288 | 4.002205 | .5046981 |
| #1 | 2.187159 | .0095356 | .0002372 | .0015675 | .7230291 | 2.237132 | 1.255407 |
| #2 | 2.179915 | .0082094 | .0005356 | .0015674 | .7153459 | 2.072792 | 1.248662 |
| #3 | 2.195008 | .0084998 | .0006556 | .0022226 | .7087513 | 2.203940 | 1.242811 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2740-01LX5 Acquired: 8/4/2025 15:23:33 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | .5562493 | .0227762 | -.022328 |
| Stddev | .0021657 | .0009004 | .000179 |
| %RSD | .3893332 | 3.953438 | .8028667 |
| #1 | .5566553 | .0220899 | -.022483 |
| #2 | .5539094 | .0224429 | -.022369 |
| #3 | .5581833 | .0237958 | -.022132 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5878.586 | 99868.39 | 8639.124 | 4888.806 | 7082.898 |
| Stddev | 9.100 | 394.29 | 31.135 | 12.996 | 7.984 |
| %RSD | .1547934 | .3948059 | .3603910 | .2658414 | .1127233 |
| #1 | 5868.191 | 99904.82 | 8658.630 | 4888.631 | 7076.269 |
| #2 | 5885.110 | 99457.15 | 8603.218 | 4875.899 | 7080.662 |
| #3 | 5882.457 | 100243.2 | 8655.524 | 4901.890 | 7091.761 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2740-01MS Acquired: 8/4/2025 15:27:42 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | .7496555 | 2.114708 | 1.215441 | 1.709726 | .3516101 | 133.9694 | .7096058 |
| Stddev | .0042552 | .028556 | .002007 | .007149 | .0028020 | .0153 | .0004715 |
| %RSD | .5676258 | 1.350354 | .1651004 | .4181524 | .7969123 | .0114036 | .0664512 |
| #1 | .7533083 | 2.147048 | 1.217340 | 1.717972 | .3543379 | 133.9572 | .7097875 |
| #2 | .7449831 | 2.104109 | 1.215641 | 1.705941 | .3487394 | 133.9865 | .7090704 |
| #3 | .7506751 | 2.092968 | 1.213341 | 1.705265 | .3517529 | 133.9645 | .7099595 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .1771721 | .1902928 | 46.52999 | .4876150 | .2970501 | .5357169 | 232.9811 |
| Stddev | .0006555 | .0002140 | .21673 | .0018377 | .0004468 | .0019311 | .1559 |
| %RSD | .3699855 | .1124565 | .4657865 | .3768781 | .1503999 | .3604638 | .0669174 |
| #1 | .1767149 | .1904978 | 46.30774 | .4890008 | .2967419 | .5354223 | 233.0947 |
| #2 | .1779232 | .1900708 | 46.74075 | .4883139 | .2968459 | .5339501 | 233.0454 |
| #3 | .1768784 | .1903098 | 46.54149 | .4855304 | .2975625 | .5377784 | 232.8034 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.112943 | 47.43986 | .6631065 | .0745779 | 10.41222 | .5939609 | .7451838 |
| Stddev | .014253 | .07135 | .0008001 | .0004281 | .03314 | .0014656 | .0032235 |
| %RSD | .3465340 | .1503977 | .1206641 | .5740809 | .3182344 | .2467488 | .4325803 |
| #1 | 4.096794 | 47.39536 | .6639786 | .0740859 | 10.44956 | .5942792 | .7458843 |
| #2 | 4.123763 | 47.52215 | .6624063 | .0747820 | 10.38634 | .5952413 | .7416676 |
| #3 | 4.118272 | 47.40206 | .6629345 | .0748658 | 10.40074 | .5923624 | .7479994 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 17.35406 | .2774447 | .3536638 | .6552097 | 3.082702 | 8.313481 | 11.45938 |
| Stddev | .06188 | .0011820 | .0011324 | .0006747 | .002714 | .061163 | .02251 |
| %RSD | .3565515 | .4260127 | .3201828 | .1029768 | .0880345 | .7357102 | .1964037 |
| #1 | 17.42140 | .2786897 | .3537345 | .6557604 | 3.084350 | 8.321583 | 11.43447 |
| #2 | 17.29971 | .2763380 | .3524978 | .6554116 | 3.084187 | 8.248671 | 11.46542 |
| #3 | 17.34106 | .2773064 | .3547592 | .6544571 | 3.079570 | 8.370190 | 11.47825 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2740-01MS Acquired: 8/4/2025 15:27:42 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **2.474113** | **.3103010** | **.0852198** |
| Stddev | .008928 | .0023798 | .0005076 |
| %RSD | .3608576 | .7669348 | .5955955 |
| #1 | 2.473345 | .3099616 | .0849503 |
| #2 | 2.465594 | .3128323 | .0849039 |
| #3 | 2.483400 | .3081091 | .0858053 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **6302.975** | **108249.9** | **9651.923** | **5296.618** | **6485.342** |
| Stddev | 29.629 | 268.4 | 29.964 | 23.897 | 17.636 |
| %RSD | .4700800 | .2479805 | .3104485 | .4511796 | .2719393 |
| #1 | 6322.690 | 108006.2 | 9680.681 | 5295.750 | 6503.164 |
| #2 | 6317.333 | 108205.9 | 9620.883 | 5320.937 | 6484.965 |
| #3 | 6268.903 | 108537.6 | 9654.203 | 5273.166 | 6467.897 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2740-01MSD Acquired: 8/4/2025 15:31:38 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.7345470** | **2.097679** | **1.229112** | **1.673623** | **.3290827** | **138.9777** | **.7174662** |
| Stddev | .0020335 | .032844 | .000655 | .003418 | .0005487 | .3294 | .0017059 |
| %RSD | .2768429 | 1.565714 | .0532798 | .2042551 | .1667327 | .2370466 | .2377601 |
| #1 | .7323061 | 2.120392 | 1.229843 | 1.676052 | .3295924 | 139.1037 | .7180741 |
| #2 | .7362749 | 2.112625 | 1.228915 | 1.675103 | .3285019 | 139.2255 | .7187849 |
| #3 | .7350600 | 2.060021 | 1.228579 | 1.669714 | .3291538 | 138.6038 | .7155397 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1728371** | **.1862503** | **63.82360** | **.4734833** | **.3010534** | **.5615803** | **243.2166** |
| Stddev | .0011738 | .0004644 | .04518 | .0034473 | .0004368 | .0035231 | 1.7228 |
| %RSD | .6791313 | .2493355 | .0707902 | .7280814 | .1451016 | .6273570 | .7083397 |
| #1 | .1723102 | .1861991 | 63.86555 | .4771765 | .3010368 | .5582384 | 244.4318 |
| #2 | .1720191 | .1858137 | 63.82950 | .4729230 | .3006251 | .5612422 | 243.9730 |
| #3 | .1741820 | .1867382 | 63.77576 | .4703505 | .3014983 | .5652603 | 241.2450 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.050515** | **56.53255** | **.6624747** | **.0719712** | **10.95741** | **.6082517** | **.7880094** |
| Stddev | .006025 | .09459 | .0009600 | .0010300 | .12561 | .0043670 | .0015662 |
| %RSD | .1487514 | .1673201 | .1449175 | 1.431179 | 1.146361 | .7179677 | .1987523 |
| #1 | 4.056922 | 56.44609 | .6620868 | .0721153 | 11.03286 | .6092186 | .7862311 |
| #2 | 4.049660 | 56.63358 | .6617692 | .0729216 | 11.02697 | .6120542 | .7886138 |
| #3 | 4.044963 | 56.51799 | .6635680 | .0708767 | 10.81241 | .6034822 | .7891834 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **17.92717** | **.2563497** | **.3452924** | **.6374315** | **3.440887** | **11.01546** | **11.88616** |
| Stddev | .12868 | .0041387 | .0004717 | .0023575 | .009930 | .07412 | .02214 |
| %RSD | .7177762 | 1.614476 | .1366092 | .3698456 | .2886020 | .6728560 | .1862269 |
| #1 | 17.97434 | .2585886 | .3448013 | .6375707 | 3.436945 | 11.07638 | 11.87982 |
| #2 | 18.02561 | .2588866 | .3457419 | .6350075 | 3.452183 | 11.03706 | 11.86789 |
| #3 | 17.78157 | .2515738 | .3453340 | .6397163 | 3.433532 | 10.93294 | 11.91078 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2740-01MSD Acquired: 8/4/2025 15:31:38 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | 3.093375 | .3096774 | .0852119 |
| Stddev | .003052 | .0026638 | .0006529 |
| %RSD | .0986528 | .8601790 | .7662577 |
| #1 | 3.091000 | .3121403 | .0846520 |
| #2 | 3.092307 | .3100417 | .0850546 |
| #3 | 3.096817 | .3068503 | .0859291 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6356.273 | 109740.3 | 9764.137 | 5322.946 | 6453.302 |
| Stddev | 8.800 | 368.2 | 33.210 | 25.361 | 10.521 |
| %RSD | .1384500 | .3355348 | .3401174 | .4764442 | .1630381 |
| #1 | 6361.976 | 109632.7 | 9791.513 | 5352.230 | 6461.470 |
| #2 | 6360.706 | 109437.9 | 9773.705 | 5308.314 | 6457.007 |
| #3 | 6346.138 | 110150.3 | 9727.194 | 5308.293 | 6441.430 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2740-01A Acquired: 8/4/2025 15:35:34 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.7824732** | **2.093827** | **1.246210** | **1.819257** | **.7551545** | **116.6964** | **.6812506** |
| Stddev | .0028056 | .056526 | .003303 | .011707 | .0041599 | .3325 | .0027077 |
| %RSD | .3585577 | 2.699632 | .2650227 | .6434970 | .5508705 | .2848846 | .3974580 |
| #1 | .7853335 | 2.084189 | 1.249925 | 1.813991 | .7595593 | 116.5465 | .6807399 |
| #2 | .7823606 | 2.154552 | 1.245099 | 1.832673 | .7546112 | 116.4653 | .6788346 |
| #3 | .7797256 | 2.042740 | 1.243606 | 1.811109 | .7512929 | 117.0774 | .6841772 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1816451** | **.1938285** | **46.12780** | **.4831797** | **.2904132** | **.5112817** | **221.4649** |
| Stddev | .0016564 | .0007009 | .36110 | .0015334 | .0011386 | .0018534 | 1.3406 |
| %RSD | .9119128 | .3616358 | .7828349 | .3173566 | .3920778 | .3625045 | .6053156 |
| #1 | .1817865 | .1945657 | 46.09868 | .4828914 | .2917224 | .5134189 | 221.6402 |
| #2 | .1799225 | .1937495 | 45.78214 | .4818109 | .2896539 | .5103104 | 222.7092 |
| #3 | .1832263 | .1931704 | 46.50259 | .4848368 | .2898632 | .5101159 | 220.0453 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.662507** | **44.42278** | **.6600598** | **.0783104** | **10.27925** | **.5706860** | **.7086514** |
| Stddev | .021517 | .11771 | .0020573 | .0005804 | .09187 | .0059485 | .0008086 |
| %RSD | .5874824 | .2649760 | .3116882 | .7411789 | .8937466 | 1.042350 | .1141007 |
| #1 | 3.658525 | 44.39202 | .6624220 | .0786887 | 10.31829 | .5639563 | .7095264 |
| #2 | 3.643260 | 44.32351 | .6590964 | .0786004 | 10.34515 | .5728598 | .7084959 |
| #3 | 3.685737 | 44.55282 | .6586609 | .0776422 | 10.17431 | .5752418 | .7079318 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **17.99044** | **.3445693** | **.3862569** | **.7229155** | **3.137715** | **8.746515** | **11.24565** |
| Stddev | .09889 | .0033691 | .0016600 | .0017963 | .026636 | .067018 | .06484 |
| %RSD | .5497051 | .9777679 | .4297548 | .2484741 | .8489082 | .7662273 | .5765858 |
| #1 | 17.96590 | .3474335 | .3876394 | .7246160 | 3.132980 | 8.670400 | 11.31765 |
| #2 | 18.09930 | .3454172 | .3867155 | .7230938 | 3.113763 | 8.796671 | 11.22743 |
| #3 | 17.90613 | .3408573 | .3844159 | .7210368 | 3.166401 | 8.772472 | 11.19186 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2740-01A Acquired: 8/4/2025 15:35:34 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **2.605949** | **.2926821** | **.0848243** |
| Stddev | .013028 | .0013381 | .0021579 |
| %RSD | .4999483 | .4571828 | 2.543923 |
| #1 | 2.607049 | .2912212 | .0843475 |
| #2 | 2.618393 | .2938483 | .0829447 |
| #3 | 2.592406 | .2929766 | .0871807 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **6228.052** | **106389.8** | **9648.521** | **5161.439** | **6477.047** |
| Stddev | 19.848 | 88.5 | 108.246 | 10.274 | 24.602 |
| %RSD | .3186875 | .0831878 | 1.121897 | .1990624 | .3798325 |
| #1 | 6218.416 | 106310.0 | 9657.856 | 5150.693 | 6455.172 |
| #2 | 6214.863 | 106374.5 | 9751.798 | 5162.458 | 6472.289 |
| #3 | 6250.879 | 106485.0 | 9535.909 | 5171.166 | 6503.681 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: PB169096BS Acquired: 8/4/2025 15:39:30 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.8400997** | **2.261154** | **.9876114** | **2.194648** | **.8864899** | **2.084241** |
| Stddev | .0175596 | .047431 | .0203964 | .046800 | .0182592 | .010550 |
| %RSD | 2.090186 | 2.097624 | 2.065228 | 2.132459 | 2.059714 | .5061911 |
| #1 | .8319353 | 2.260571 | .9794357 | 2.169420 | .8792642 | 2.078340 |
| #2 | .8281087 | 2.214018 | .9725713 | 2.165874 | .8729494 | 2.096421 |
| #3 | .8602551 | 2.308874 | 1.010827 | 2.248649 | .9072562 | 2.077962 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2133099** | **.2190446** | **.1943195** | **1.110407** | **.3939953** | **.2016720** |
| Stddev | .0003068 | .0005982 | .0037031 | .003351 | .0040976 | .0041026 |
| %RSD | .1438491 | .2730984 | 1.905688 | .3018266 | 1.040013 | 2.034299 |
| #1 | .2133457 | .2186364 | .1925286 | 1.110244 | .3908725 | .1996868 |
| #2 | .2135973 | .2197313 | .1918522 | 1.107139 | .3986351 | .1989396 |
| #3 | .2129868 | .2187662 | .1985776 | 1.113837 | .3924784 | .2063896 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3231059** | **3.174536** | **.2127403** | **2.063601** | **.5070956** | **.0809264** |
| Stddev | .0068632 | .026606 | .0014510 | .008966 | .0103919 | .0010907 |
| %RSD | 2.124136 | .8380986 | .6820579 | .4344693 | 2.049301 | 1.347791 |
| #1 | .3196573 | 3.149718 | .2125866 | 2.054414 | .5019835 | .0797257 |
| #2 | .3186509 | 3.202627 | .2142620 | 2.072328 | .5002500 | .0818560 |
| #3 | .3310095 | 3.171264 | .2113722 | 2.064061 | .5190533 | .0811976 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.960448** | **.3062188** | **.2214626** | **10.45629** | **.3151953** | **.4314858** |
| Stddev | .029879 | .0036205 | .0021877 | .05760 | .0021240 | .0089211 |
| %RSD | 1.009261 | 1.182335 | .9878229 | .5508999 | .6738571 | 2.067528 |
| #1 | 2.927522 | .3034406 | .2201232 | 10.39813 | .3130652 | .4266841 |
| #2 | 2.985834 | .3103133 | .2239872 | 10.51332 | .3173130 | .4259940 |
| #3 | 2.967988 | .3049024 | .2202776 | 10.45741 | .3152078 | .4417793 |

Sample Name: PB169096BS Acquired: 8/4/2025 15:39:30 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.6999886** | **.2112517** | **.8728646** | **5.415255** | F **.0026339** | **.1884312** |
| Stddev | .0154115 | .0010918 | .0117234 | .105252 | .0008779 | .0034840 |
| %RSD | 2.201682 | .5168314 | 1.343093 | 1.943623 | 33.33247 | 1.848960 |
| #1 | .6928208 | .2117386 | .8699050 | 5.364722 | .0032741 | .1846286 |
| #2 | .6894664 | .2100012 | .8857842 | 5.344799 | .0029944 | .1914697 |
| #3 | .7176786 | .2120154 | .8629046 | 5.536244 | .0016331 | .1891954 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | **.2101126** |
| Stddev | .0001489 |
| %RSD | .0708854 |
| #1 | .2102805 |
| #2 | .2100610 |
| #3 | .2099963 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5745.071** | **99018.53** | **8316.721** | **4816.145** | **7257.747** |
| Stddev | 104.393 | 929.60 | 30.440 | 32.986 | 123.870 |
| %RSD | 1.817085 | .9388188 | .3660110 | .6849053 | 1.706731 |
| #1 | 5801.057 | 99755.43 | 8334.409 | 4836.853 | 7320.551 |
| #2 | 5809.528 | 97974.14 | 8281.572 | 4778.105 | 7337.635 |
| #3 | 5624.628 | 99326.02 | 8334.181 | 4833.476 | 7115.054 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: CCV04 Acquired: 8/4/2025 15:48:51 Type: Unk
Method: 6010-200.7 NEW(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.933937** | **5.355718** | **4.718979** | **5.065650** | **5.061572** | **9.683473** |
| Stddev | .009231 | .156443 | .017587 | .019588 | .009046 | .031926 |
| %RSD | .1870990 | 2.921037 | .3726774 | .3866755 | .1787104 | .3296982 |
| #1 | 4.939555 | 5.534329 | 4.739167 | 5.086799 | 5.066871 | 9.715381 |
| #2 | 4.923283 | 5.243006 | 4.706982 | 5.048131 | 5.051127 | 9.683508 |
| #3 | 4.938972 | 5.289819 | 4.710789 | 5.062022 | 5.066717 | 9.651529 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.10395** | **.2473070** | **2.340222** | **25.16229** | **.9162079** | **2.360378** |
| Stddev | .04271 | .0029653 | .005316 | .12352 | .0045715 | .005616 |
| %RSD | .4227281 | 1.199029 | .2271641 | .4909132 | .4989581 | .2379362 |
| #1 | 10.14754 | .2493117 | 2.346340 | 25.21282 | .9133276 | 2.366795 |
| #2 | 10.10216 | .2439007 | 2.337595 | 25.02150 | .9214790 | 2.356358 |
| #3 | 10.06217 | .2487085 | 2.336730 | 25.25253 | .9138170 | 2.357982 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.205756** | **4.903295** | **2.462535** | **23.56326** | **2.368349** | **1.225786** |
| Stddev | .001049 | .007049 | .007970 | .19950 | .004981 | .002869 |
| %RSD | .0869593 | .1437611 | .3236309 | .8466691 | .2103034 | .2340690 |
| #1 | 1.206918 | 4.895733 | 2.462407 | 23.65064 | 2.374054 | 1.227517 |
| #2 | 1.205467 | 4.909684 | 2.454631 | 23.33498 | 2.364868 | 1.222474 |
| #3 | 1.204882 | 4.904468 | 2.470568 | 23.70416 | 2.366124 | 1.227368 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **23.22854** | **2.425313** | **2.526868** | **24.59942** | **4.961421** | **5.004750** |
| Stddev | .16493 | .006140 | .004078 | .14016 | .050150 | .009677 |
| %RSD | .7100410 | .2531633 | .1613950 | .5697653 | 1.010805 | .1933588 |
| #1 | 23.12593 | 2.425484 | 2.527286 | 24.45022 | 4.997962 | 5.015842 |
| #2 | 23.41879 | 2.419089 | 2.522596 | 24.72833 | 4.904245 | 4.998035 |
| #3 | 23.14091 | 2.431365 | 2.530721 | 24.61970 | 4.982056 | 5.000373 |

Sample Name: CCV04 Acquired: 8/4/2025 15:48:51 Type: Unk
Method: 6010-200.7 NEW(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV04 Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | 4.752170 | 5.044555 | 4.878586 | F 4.444369 | 4.756237 | 4.700495 |
| Stddev | .021690 | .021598 | .064890 | .015808 | .036005 | .008731 |
| %RSD | .4564173 | .4281357 | 1.330097 | .3556786 | .7570072 | .1857517 |
| #1 | 4.777201 | 5.064845 | 4.837599 | 4.461751 | 4.794050 | 4.700877 |
| #2 | 4.740380 | 5.021852 | 4.953400 | 4.430852 | 4.722363 | 4.691579 |
| #3 | 4.738930 | 5.046967 | 4.844758 | 4.440504 | 4.752299 | 4.709029 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | 5.042140 |
| Stddev | .044425 |
| %RSD | .8810828 |
| #1 | 5.029139 |
| #2 | 5.005665 |
| #3 | 5.091615 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5598.193 | 95994.20 | 8104.002 | 4661.369 | 6698.053 |
| Stddev | 5.881 | 353.84 | 73.940 | 23.942 | 15.130 |
| %RSD | .1050560 | .3686052 | .9123842 | .5136172 | .2258861 |
| #1 | 5591.408 | 95716.86 | 8031.421 | 4636.074 | 6680.594 |
| #2 | 5601.825 | 95873.02 | 8179.229 | 4683.677 | 6707.327 |
| #3 | 5601.347 | 96392.70 | 8101.357 | 4664.356 | 6706.239 |

Sample Name: CCB04 Acquired: 8/4/2025 15:53:27 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.0004171** | **-.000104** | **-.000581** | **-.002368** | **-.000545** | **.0219944** | **.0053843** |
| Stddev | .0006343 | .001141 | .000400 | .002520 | .000425 | .0100631 | .0005646 |
| %RSD | 152.0549 | 1097.797 | 68.92471 | 106.4365 | 77.94990 | 45.75309 | 10.48583 |
| #1 | -.000289 | .001177 | -.000984 | .000498 | -.000075 | .0335871 | .0055208 |
| #2 | .000602 | -.001008 | -.000183 | -.004239 | -.000658 | .0168861 | .0058681 |
| #3 | .000939 | -.000481 | -.000576 | -.003363 | -.000901 | .0155099 | .0047640 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000569** | **.0002837** | **.0050741** | **-.001739** | **.0003045** | **.0004712** | **.0025177** |
| Stddev | .0000245 | .0000788 | .0051008 | .000061 | .0000919 | .0003230 | .0044546 |
| %RSD | 43.14469 | 27.77987 | 100.5260 | 3.497457 | 30.19791 | 68.55107 | 176.9297 |
| #1 | .0000441 | .0002220 | .0027687 | -.001808 | .0001984 | .0005004 | .0014481 |
| #2 | .0000851 | .0002566 | .0015329 | -.001693 | .0003542 | .0007786 | -.001305 |
| #3 | .0000413 | .0003725 | .0109206 | -.001715 | .0003609 | .0001346 | .007410 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.001208** | **.0017039** | **.0004202** | **.0008924** | **.0060575** | **-.000931** | **.0001160** |
| Stddev | .000284 | .0212501 | .0003857 | .0004887 | .0139764 | .002366 | .0001761 |
| %RSD | 23.48589 | 1247.177 | 91.78193 | 54.75853 | 230.7281 | 254.0818 | 151.8807 |
| #1 | -.001077 | -.000072 | .0002441 | .0013290 | .0007825 | .000792 | -.000040 |
| #2 | -.001013 | -.018603 | .0001541 | .0003645 | -.004514 | .000043 | .000080 |
| #3 | -.001533 | .023786 | .0008626 | .0009836 | .021904 | -.003629 | .000307 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2003097** | **.0007139** | **.0012626** | **.0004318** | **.0008577** | **-.002785** | **.0056832** |
| Stddev | .0130533 | .0006135 | .0001779 | .0004277 | .0008794 | .002969 | .0027214 |
| %RSD | 6.516559 | 85.93463 | 14.09353 | 99.04786 | 102.5355 | 106.6051 | 47.88533 |
| #1 | .2136801 | .0002864 | .0014651 | .0005918 | .0007212 | -.000141 | .0026087 |
| #2 | .1996506 | .0004385 | .0011311 | -.000053 | .0000544 | -.005997 | .0077832 |
| #3 | .1875984 | .0014168 | .0011916 | .000756 | .0017973 | -.002217 | .0066577 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: CCB04 Acquired: 8/4/2025 15:53:27 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | .0003928 | F -.012139 | .0006210 |
| Stddev | .0028378 | .002043 | .0001149 |
| %RSD | 722.4573 | 16.82943 | 18.50723 |
| | | | |
| #1 | .0011947 | -.014026 | .0006355 |
| #2 | -.002760 | -.012421 | .0007279 |
| #3 | .002743 | -.009970 | .0004994 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5868.673 | 102564.3 | 8315.143 | 4947.055 | 7594.830 |
| Stddev | 17.630 | 31.0 | 41.740 | 11.651 | 13.110 |
| %RSD | .3004064 | .0302638 | .5019753 | .2355112 | .1726111 |
| | | | | | |
| #1 | 5852.269 | 102546.1 | 8298.429 | 4957.351 | 7588.192 |
| #2 | 5887.315 | 102600.1 | 8284.350 | 4934.408 | 7609.931 |
| #3 | 5866.434 | 102546.7 | 8362.649 | 4949.404 | 7586.367 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2734-02 Acquired: 8/4/2025 16:08:13 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **-.003158** | **-.000758** | **.0052809** | **-.002741** | **.0009076** | **.1396059** | **.2464523** |
| Stddev | .002028 | .001809 | .0012945 | .004091 | .0008397 | .0175862 | .0000895 |
| %RSD | 64.21776 | 238.5616 | 24.51226 | 149.2603 | 92.51590 | 12.59703 | .0363154 |
| #1 | -.004003 | .000373 | .0052949 | -.007441 | .0003712 | .1333321 | .2464284 |
| #2 | -.000844 | .000197 | .0065684 | -.000797 | .0018752 | .1260170 | .2463771 |
| #3 | -.004628 | -.002845 | .0039795 | .000015 | .0004763 | .1594687 | .2465513 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000212** | **.0013339** | **97.17866** | **-.001327** | **.0030524** | **.0375028** | **.0052035** |
| Stddev | .000055 | .0000282 | .47154 | .000137 | .0000770 | .0007326 | .0054431 |
| %RSD | 25.88837 | 2.112057 | .4852288 | 10.35554 | 2.522796 | 1.953402 | 104.6034 |
| #1 | -.000209 | .0013664 | 97.68175 | -.001244 | .0031409 | .0382945 | .0114846 |
| #2 | -.000269 | .0013160 | 96.74677 | -.001252 | .0030004 | .0373652 | .0022583 |
| #3 | -.000159 | .0013193 | 97.10746 | -.001485 | .0030160 | .0368489 | .0018677 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8317996** | **3.381918** | **.0077576** | **.0005191** | **374.1284** | **.0010376** | **.1021287** |
| Stddev | .0021661 | .070475 | .0001976 | .0002941 | .3601 | .0025219 | .0007303 |
| %RSD | .2604155 | 2.083874 | 2.547454 | 56.65017 | .0962586 | 243.0517 | .7150511 |
| #1 | .8334699 | 3.404099 | .0075758 | .0001832 | 373.7562 | .0014393 | .1017207 |
| #2 | .8293521 | 3.303021 | .0079679 | .0007298 | 374.1538 | .0033345 | .1016935 |
| #3 | .8325768 | 3.438633 | .0077290 | .0006444 | 374.4751 | -.001661 | .1029718 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.531718** | **.0146688** | **.0007273** | **-.001640** | **-.003468** | **2.406620** | **.0194313** |
| Stddev | .039997 | .0003096 | .0002495 | .000320 | .001034 | .013347 | .0010594 |
| %RSD | 1.579847 | 2.110273 | 34.29893 | 19.51180 | 29.80146 | .5546094 | 5.452099 |
| #1 | 2.487637 | .0149335 | .0006784 | -.001320 | -.004656 | 2.392945 | .0203595 |
| #2 | 2.565693 | .0147445 | .0005059 | -.001640 | -.002771 | 2.407302 | .0182772 |
| #3 | 2.541823 | .0143285 | .0009976 | -.001960 | -.002979 | 2.419613 | .0196573 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2734-02 Acquired: 8/4/2025 16:08:13 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | .9345081 | -.008328 | .3585607 |
| Stddev | .0147899 | .001116 | .0008715 |
| %RSD | 1.582634 | 13.39442 | .2430649 |
| #1 | .9515857 | -.008318 | .3593261 |
| #2 | .9258950 | -.009449 | .3576122 |
| #3 | .9260436 | -.007218 | .3587438 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5353.987 | 92636.08 | 8330.835 | 4497.634 | 6286.259 |
| Stddev | 60.496 | 187.42 | 57.252 | 6.894 | 72.417 |
| %RSD | 1.129922 | .2023238 | .6872258 | .1532767 | 1.151982 |
| #1 | 5284.156 | 92733.13 | 8269.130 | 4504.196 | 6202.650 |
| #2 | 5387.322 | 92755.08 | 8382.233 | 4490.450 | 6326.892 |
| #3 | 5390.483 | 92420.03 | 8341.142 | 4498.255 | 6329.234 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2703-05 Acquired: 8/4/2025 16:12:37 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.0055904** | **-.007673** | **.0003200** | **.0018439** | **-.004291** | **.0527921** | **.1485130** |
| Stddev | .0017540 | .001940 | .0011616 | .0038136 | .001196 | .0092672 | .0001480 |
| %RSD | 31.37556 | 25.27919 | 362.9935 | 206.8207 | 27.88173 | 17.55414 | .0996759 |
| #1 | .0036267 | -.009176 | .0015025 | .0049157 | -.003540 | .0432411 | .1486753 |
| #2 | .0070017 | -.008358 | -.000820 | -.002424 | -.003662 | .0617468 | .1484784 |
| #3 | .0061429 | -.005483 | .000277 | .003040 | -.005671 | .0533884 | .1483853 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0002687** | **-.000755** | **16.88295** | **-.000997** | **.0037732** | **.0004083** | **45.82412** |
| Stddev | .0000829 | .000058 | .02363 | .000223 | .0000922 | .0002187 | .17847 |
| %RSD | 30.84334 | 7.724654 | .1399750 | 22.36853 | 2.442995 | 53.57753 | .3894778 |
| #1 | .0002930 | -.000725 | 16.90975 | -.000887 | .0038510 | .0001559 | 45.69690 |
| #2 | .0001763 | -.000718 | 16.86513 | -.000851 | .0037974 | .0005251 | 46.02814 |
| #3 | .0003366 | -.000822 | 16.87396 | -.001254 | .0036714 | .0005437 | 45.74731 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.492877** | **7.925547** | **.0038324** | **.0029112** | **274.1330** | **-.000835** | **.0938304** |
| Stddev | .007327 | .019760 | .0003922 | .0007585 | 1.7371 | .001549 | .0006705 |
| %RSD | .1630695 | .2493248 | 10.23255 | 26.05467 | .6336639 | 185.5700 | .7146072 |
| #1 | 4.501235 | 7.920356 | .0037421 | .0037513 | 273.5968 | -.002584 | .0934291 |
| #2 | 4.489835 | 7.908900 | .0042618 | .0027057 | 272.7273 | -.000285 | .0946045 |
| #3 | 4.487563 | 7.947384 | .0034933 | .0022766 | 276.0750 | .000364 | .0934577 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.343011** | **.1052691** | **.0012989** | **-.001463** | **.0015170** | **2.796760** | **1.729402** |
| Stddev | .057838 | .0009446 | .0001740 | .000622 | .0008228 | .031754 | .004578 |
| %RSD | 1.331749 | .8973385 | 13.39251 | 42.53864 | 54.24043 | 1.135387 | .2647109 |
| #1 | 4.281884 | .1045350 | .0012147 | -.002178 | .0022059 | 2.764396 | 1.731644 |
| #2 | 4.396873 | .1063348 | .0014989 | -.001041 | .0006059 | 2.798018 | 1.732427 |
| #3 | 4.350276 | .1049375 | .0011831 | -.001171 | .0017392 | 2.827867 | 1.724135 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2703-05 Acquired: 8/4/2025 16:12:37 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | .4046088 | -.005862 | .1018619 |
| Stddev | .0018804 | .001653 | .0002486 |
| %RSD | .4647426 | 28.19044 | .2440951 |
| #1 | .4059896 | -.005190 | .1016153 |
| #2 | .4053697 | -.007745 | .1021125 |
| #3 | .4024672 | -.004652 | .1018581 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5520.943 | 93968.95 | 8552.001 | 4590.987 | 6549.624 |
| Stddev | 6.412 | 125.23 | 16.079 | 18.417 | 14.071 |
| %RSD | .1161460 | .1332705 | .1880127 | .4011463 | .2148368 |
| #1 | 5513.598 | 94069.30 | 8540.095 | 4576.912 | 6537.582 |
| #2 | 5525.423 | 93828.60 | 8570.291 | 4584.218 | 6546.198 |
| #3 | 5523.810 | 94008.94 | 8545.615 | 4611.830 | 6565.092 |

Sample Name: Q2743-02 Acquired: 8/4/2025 16:16:59 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **-.003231** | **-.001415** | **.2491284** | **-.000844** | **.0000074** | **.1470087** | **.4631542** |
| Stddev | .001167 | .000607 | .0004147 | .004288 | .0017639 | .0072663 | .0019232 |
| %RSD | 36.13098 | 42.91434 | .1664597 | 507.9929 | 23949.19 | 4.942742 | .4152424 |
| #1 | -.001993 | -.001691 | .2486762 | .003846 | .0003166 | .1552932 | .4612740 |
| #2 | -.003388 | -.000719 | .2494909 | -.004565 | -.001891 | .1440175 | .4630710 |
| #3 | -.004312 | -.001834 | .2492180 | -.001813 | .001596 | .1417155 | .4651177 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000142** | **.0014188** | **72.82911** | **-.001956** | **.0006714** | **.0283514** | **.0127992** |
| Stddev | .000068 | .0000666 | .15716 | .000188 | .0001584 | .0004252 | .0014972 |
| %RSD | 47.94193 | 4.690642 | .2157940 | 9.594688 | 23.59403 | 1.499619 | 11.69726 |
| #1 | -.000126 | .0013420 | 72.73167 | -.002167 | .0008544 | .0281057 | .0110748 |
| #2 | -.000217 | .0014550 | 73.01042 | -.001896 | .0005787 | .0288423 | .0135554 |
| #3 | -.000084 | .0014594 | 72.74524 | -.001806 | .0005813 | .0281061 | .0137674 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0733620** | **4.305053** | **.0055463** | **.0005165** | **340.4104** | **.0033061** | **.4394339** |
| Stddev | .0006644 | .024244 | .0002970 | .0002745 | .4446 | .0012410 | .0003318 |
| %RSD | .9056147 | .5631551 | 5.355258 | 53.14419 | .1306096 | 37.53749 | .0754984 |
| #1 | .0731167 | 4.280503 | .0053087 | .0006630 | 340.8210 | .0046340 | .4391989 |
| #2 | .0728552 | 4.328979 | .0054509 | .0001999 | 340.4720 | .0031087 | .4398134 |
| #3 | .0741142 | 4.305677 | .0058793 | .0006868 | 339.9382 | .0021756 | .4392893 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.397331** | **.0225255** | **.0014014** | **-.001719** | **-.002367** | **3.834780** | **.0264549** |
| Stddev | .029221 | .0007533 | .0002089 | .000603 | .000273 | .014124 | .0035075 |
| %RSD | 2.091166 | 3.344431 | 14.90837 | 35.06248 | 11.52666 | .3683169 | 13.25849 |
| #1 | 1.368154 | .0222897 | .0016392 | -.002026 | -.002079 | 3.818778 | .0291708 |
| #2 | 1.397245 | .0219183 | .0013177 | -.002105 | -.002398 | 3.840054 | .0276989 |
| #3 | 1.426594 | .0233686 | .0012473 | -.001024 | -.002622 | 3.845509 | .0224949 |

Sample Name: Q2743-02 Acquired: 8/4/2025 16:16:59 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | 1.281389 | -.005353 | .4790180 |
| Stddev | .012141 | .002230 | .0009394 |
| %RSD | .9474911 | 41.65451 | .1961163 |
| #1 | 1.269142 | -.005984 | .4780697 |
| #2 | 1.281603 | -.007199 | .4799483 |
| #3 | 1.293421 | -.002876 | .4790360 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5471.478 | 94375.38 | 8464.895 | 4610.568 | 6454.322 |
| Stddev | 10.216 | 393.08 | 16.783 | 15.312 | 10.596 |
| %RSD | .1867221 | .4165038 | .1982713 | .3321023 | .1641714 |
| #1 | 5462.761 | 93954.21 | 8446.702 | 4596.286 | 6453.176 |
| #2 | 5482.720 | 94439.44 | 8468.206 | 4608.683 | 6465.445 |
| #3 | 5468.954 | 94732.49 | 8479.776 | 4626.735 | 6444.346 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2753-02 Acquired: 8/4/2025 16:21:22 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **-.001347** | **-.000468** | **-.000614** | **-.004237** | **-.004173** | **.0788907** | **.0695576** |
| Stddev | .001042 | .001349 | .001320 | .002828 | .001828 | .0028808 | .0004635 |
| %RSD | 77.34590 | 288.4039 | 214.9161 | 66.73460 | 43.81095 | 3.651593 | .6663577 |
| #1 | -.001125 | -.001900 | -.001398 | -.005856 | -.006051 | .0764813 | .0700507 |
| #2 | -.000434 | -.000281 | -.001354 | -.005884 | -.002399 | .0781091 | .0691309 |
| #3 | -.002482 | .000778 | .000910 | -.000972 | -.004070 | .0820816 | .0694911 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0001055** | **.0002363** | **40.42580** | **.0074878** | **.0009345** | **.0060888** | **.0041161** |
| Stddev | .0000322 | .0000506 | .12139 | .0003812 | .0001295 | .0002247 | .0070268 |
| %RSD | 30.49847 | 21.39975 | .3002766 | 5.091145 | 13.86101 | 3.690205 | 170.7129 |
| #1 | .0001119 | .0002182 | 40.50919 | .0076823 | .0007875 | .0059282 | .0050175 |
| #2 | .0001339 | .0001972 | 40.48168 | .0070486 | .0009839 | .0063456 | .0106488 |
| #3 | .0000706 | .0002934 | 40.28654 | .0077326 | .0010320 | .0059927 | -.003318 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1411790** | **6.233491** | **.0046825** | **.0011882** | **233.2891** | **.0021121** | **.0551203** |
| Stddev | .0003539 | .001416 | .0002853 | .0001508 | 2.0076 | .0014554 | .0001410 |
| %RSD | .2506568 | .0227211 | 6.093380 | 12.69343 | .8605825 | 68.90498 | .2558588 |
| #1 | .1412395 | 6.232234 | .0044526 | .0011225 | 231.3638 | .0030478 | .0551704 |
| #2 | .1414987 | 6.235025 | .0050018 | .0013607 | 233.1334 | .0028532 | .0549610 |
| #3 | .1407988 | 6.233212 | .0045932 | .0010814 | 235.3700 | .0004354 | .0552294 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.399924** | **.0064630** | **-.000527** | **-.004068** | **-.001458** | **.4185896** | **.0098724** |
| Stddev | .031341 | .0005244 | .000128 | .000087 | .001258 | .0061108 | .0016131 |
| %RSD | 2.238748 | 8.114646 | 24.35678 | 2.146493 | 86.23561 | 1.459847 | 16.33940 |
| #1 | 1.374931 | .0070016 | -.000642 | -.004169 | -.000189 | .4171283 | .0087428 |
| #2 | 1.389754 | .0064332 | -.000550 | -.004012 | -.001483 | .4252986 | .0091546 |
| #3 | 1.435086 | .0059540 | -.000388 | -.004023 | -.002704 | .4133421 | .0117199 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2753-02 Acquired: 8/4/2025 16:21:22 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **3.941334** | **-.012375** | **.1261452** |
| Stddev | .011014 | .000348 | .0001650 |
| %RSD | .2794374 | 2.815563 | .1308256 |
| | | | |
| #1 | 3.929985 | -.012545 | .1260279 |
| #2 | 3.951979 | -.011974 | .1263340 |
| #3 | 3.942038 | -.012606 | .1260739 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5610.531** | **96482.49** | **8784.047** | **4716.450** | **6652.982** |
| Stddev | 17.262 | 76.56 | 40.957 | 5.923 | 12.133 |
| %RSD | .3076724 | .0793524 | .4662636 | .1255717 | .1823690 |
| | | | | | |
| #1 | 5624.800 | 96570.67 | 8742.488 | 4714.032 | 6655.685 |
| #2 | 5615.449 | 96432.94 | 8785.280 | 4712.118 | 6663.535 |
| #3 | 5591.343 | 96443.86 | 8824.373 | 4723.198 | 6639.725 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2753-02DUP Acquired: 8/4/2025 16:25:47 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.0003129** | **.0016026** | **.0012538** | **-.005974** | **-.004041** | **.1223261** | **.1174975** |
| Stddev | .0015391 | .0014764 | .0006156 | .001389 | .001735 | .0101439 | .0006487 |
| %RSD | 491.8530 | 92.12417 | 49.09956 | 23.25457 | 42.93103 | 8.292528 | .5521200 |
| #1 | -.001253 | .0008720 | .0007355 | -.007579 | -.002501 | .1323053 | .1179951 |
| #2 | .000369 | .0006339 | .0010916 | -.005184 | -.003702 | .1120251 | .1167638 |
| #3 | .001823 | .0033018 | .0019343 | -.005161 | -.005921 | .1226477 | .1177336 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000289** | **.0004235** | **66.33726** | **.0134379** | **.0018640** | **.0101021** | **.0072363** |
| Stddev | .0001079 | .0000250 | .28411 | .0001488 | .0001880 | .0001097 | .0032442 |
| %RSD | 373.0878 | 5.894037 | .4282769 | 1.107062 | 10.08492 | 1.085566 | 44.83177 |
| #1 | .0000875 | .0004042 | 66.46425 | .0135294 | .0020730 | .0101321 | .0092986 |
| #2 | .0000948 | .0004147 | 66.01180 | .0135181 | .0017087 | .0101937 | .0034969 |
| #3 | -.000096 | .0004517 | 66.53571 | .0132663 | .0018102 | .0099806 | .0089135 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2342796** | **10.21421** | **.0075606** | **.0011602** | **413.4146** | **.0007785** | **.0955069** |
| Stddev | .0010673 | .04090 | .0000726 | .0004462 | 3.0816 | .0021076 | .0005286 |
| %RSD | .4555472 | .4004497 | .9603508 | 38.45830 | .7453908 | 270.7213 | .5535040 |
| #1 | .2351140 | 10.25881 | .0074839 | .0006685 | 414.7674 | -.001227 | .0960208 |
| #2 | .2330770 | 10.20536 | .0076283 | .0012726 | 409.8880 | .002975 | .0949647 |
| #3 | .2346477 | 10.17846 | .0075695 | .0015394 | 415.5883 | .000587 | .0955353 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.534949** | **.0150171** | **.0000118** | **-.003541** | **-.002778** | **.7531656** | **.0179872** |
| Stddev | .022309 | .0003354 | .0001966 | .000207 | .000448 | .0119043 | .0020756 |
| %RSD | .8800395 | 2.233297 | 1662.052 | 5.853709 | 16.12256 | 1.580571 | 11.53946 |
| #1 | 2.540299 | .0146554 | .0000014 | -.003313 | -.002296 | .7457862 | .0184279 |
| #2 | 2.554096 | .0150781 | -.000179 | -.003589 | -.003181 | .7668987 | .0198071 |
| #3 | 2.510452 | .0153178 | .000213 | -.003719 | -.002856 | .7468117 | .0157266 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2753-02DUP Acquired: 8/4/2025 16:25:47 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | 6.711361 | -.010523 | .2099763 |
| Stddev | .013120 | .001769 | .0007381 |
| %RSD | .1954842 | 16.80568 | .3515210 |
| #1 | 6.709624 | -.008876 | .2108237 |
| #2 | 6.699197 | -.010301 | .2094734 |
| #3 | 6.725263 | -.012393 | .2096319 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5371.602 | 91531.61 | 8860.132 | 4456.039 | 6262.147 |
| Stddev | 8.739 | 399.05 | 82.255 | 17.269 | 7.533 |
| %RSD | .1626972 | .4359664 | .9283705 | .3875525 | .1202882 |
| #1 | 5368.600 | 91983.27 | 8896.815 | 4465.884 | 6265.447 |
| #2 | 5381.447 | 91226.78 | 8917.663 | 4466.134 | 6267.466 |
| #3 | 5364.759 | 91384.77 | 8765.918 | 4436.098 | 6253.527 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2753-02LX5 Acquired: 8/4/2025 16:30:09 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **-.000138** | **-.001557** | **-.001460** | **-.003628** | **-.002302** | **.0191961** | **.0106101** |
| Stddev | .000924 | .001494 | .000488 | .002969 | .000950 | .0060298 | .0012987 |
| %RSD | 667.3233 | 95.97899 | 33.42138 | 81.82773 | 41.25763 | 31.41163 | 12.23990 |
| #1 | -.001146 | -.003023 | -.000948 | -.000515 | -.002310 | .0124591 | .0119817 |
| #2 | .000668 | -.001609 | -.001919 | -.006428 | -.001348 | .0240872 | .0093993 |
| #3 | .000063 | -.000037 | -.001514 | -.003942 | -.003248 | .0210421 | .0104494 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000023** | **.0000264** | **7.677756** | **-.000049** | **.0002495** | **.0010828** | **-.004744** |
| Stddev | .000023 | .0000331 | .025388 | .000234 | .0000763 | .0002590 | .008240 |
| %RSD | 97.33440 | 125.4371 | .3306729 | 478.2434 | 30.58653 | 23.91703 | 173.6825 |
| #1 | -.000014 | .0000550 | 7.648446 | .000045 | .0002130 | .0013790 | -.014252 |
| #2 | -.000007 | -.000010 | 7.691914 | -.000315 | .0003372 | .0009701 | .000316 |
| #3 | -.000049 | .000034 | 7.692908 | .000123 | .0001983 | .0008993 | -.000297 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0255686** | **1.194560** | **.0008708** | **.0009748** | **37.92130** | **.0009080** | **.0086837** |
| Stddev | .0003223 | .030030 | .0001438 | .0003326 | .50831 | .0043088 | .0000988 |
| %RSD | 1.260464 | 2.513895 | 16.51010 | 34.11961 | 1.340433 | 474.5675 | 1.138255 |
| #1 | .0251964 | 1.227122 | .0008676 | .0007689 | 37.33997 | -.001106 | .0087787 |
| #2 | .0257543 | 1.167956 | .0007286 | .0013585 | 38.28215 | .005855 | .0086910 |
| #3 | .0257550 | 1.188602 | .0010161 | .0007970 | 38.14176 | -.002025 | .0085814 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.929360** | **-.004280** | **-.000154** | **-.001755** | **-.000793** | **.0753319** | **.0039150** |
| Stddev | .071772 | .000177 | .000065 | .000181 | .000828 | .0058141 | .0023132 |
| %RSD | 3.719976 | 4.128385 | 42.24786 | 10.31359 | 104.3937 | 7.718013 | 59.08415 |
| #1 | 2.010597 | -.004209 | -.000190 | -.001924 | -.001693 | .0818400 | .0049076 |
| #2 | 1.902939 | -.004481 | -.000194 | -.001564 | -.000625 | .0706504 | .0055663 |
| #3 | 1.874543 | -.004149 | -.000079 | -.001777 | -.000062 | .0735054 | .0012712 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2753-02LX5 Acquired: 8/4/2025 16:30:09 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | .6778322 | .0242892 | .0236516 |
| Stddev | .0106854 | .0029765 | .0001133 |
| %RSD | 1.576406 | 12.25454 | .4789016 |
| #1 | .6655113 | .0274358 | .0235436 |
| #2 | .6834236 | .0215185 | .0236417 |
| #3 | .6845617 | .0239132 | .0237695 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5650.763 | 98233.96 | 8366.823 | 4726.336 | 7004.255 |
| Stddev | 2.615 | 234.20 | 45.999 | 15.858 | 6.336 |
| %RSD | .0462745 | .2384128 | .5497806 | .3355149 | .0904572 |
| #1 | 5647.894 | 98272.58 | 8315.912 | 4721.954 | 7000.030 |
| #2 | 5653.011 | 97982.85 | 8405.393 | 4713.130 | 7001.196 |
| #3 | 5651.385 | 98446.45 | 8379.163 | 4743.923 | 7011.540 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2753-02MS Acquired: 8/4/2025 16:34:26 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.8398932** | **2.045577** | **.9114502** | **2.151195** | **.8569874** | **2.111390** | **.3213753** |
| Stddev | .0022265 | .099784 | .0044200 | .003700 | .0022951 | .009209 | .0012562 |
| %RSD | .2650872 | 4.878046 | .4849443 | .1720174 | .2678135 | .4361610 | .3908922 |
| #1 | .8403058 | 2.109903 | .9129412 | 2.150545 | .8563066 | 2.120026 | .3228031 |
| #2 | .8418845 | 2.096200 | .9064775 | 2.147863 | .8551096 | 2.101699 | .3208830 |
| #3 | .8374893 | 1.930628 | .9149319 | 2.155178 | .8595458 | 2.112444 | .3204397 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1917569** | **.1908848** | **64.80961** | **.3945520** | **.1970934** | **.3018463** | **3.271492** |
| Stddev | .0019997 | .0005468 | .34630 | .0005230 | .0007825 | .0008085 | .035179 |
| %RSD | 1.042825 | .2864656 | .5343276 | .1325531 | .3970203 | .2678626 | 1.075312 |
| #1 | .1940659 | .1905470 | 65.20750 | .3951356 | .1968074 | .3017200 | 3.231871 |
| #2 | .1906050 | .1905917 | 64.64501 | .3943947 | .1964942 | .3011084 | 3.283547 |
| #3 | .1905998 | .1915157 | 64.57630 | .3941257 | .1979787 | .3027106 | 3.299059 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4286318** | **11.68458** | **.4965829** | **.0770439** | **377.2951** | **.3022892** | **.3026980** |
| Stddev | .0011435 | .07996 | .0017959 | .0003651 | 4.2214 | .0037909 | .0008315 |
| %RSD | .2667821 | .6843063 | .3616529 | .4738572 | 1.118870 | 1.254050 | .2747023 |
| #1 | .4293790 | 11.77683 | .4959907 | .0768716 | 381.8591 | .3048183 | .3026435 |
| #2 | .4273154 | 11.64169 | .4951579 | .0774632 | 373.5305 | .2979305 | .3018950 |
| #3 | .4292009 | 11.63522 | .4986002 | .0767967 | 376.4957 | .3041187 | .3035554 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **13.63537** | **.2723322** | **.4334339** | **.6776901** | **.2023708** | **1.632411** | **5.514006** |
| Stddev | .12181 | .0038131 | .0012364 | .0031414 | .0003306 | .010212 | .014108 |
| %RSD | .8933284 | 1.400170 | .2852585 | .4635466 | .1633823 | .6255614 | .2558580 |
| #1 | 13.50759 | .2766566 | .4330328 | .6756667 | .2027521 | 1.624433 | 5.522623 |
| #2 | 13.75017 | .2708871 | .4324479 | .6760945 | .2021964 | 1.628881 | 5.521670 |
| #3 | 13.64836 | .2694529 | .4348211 | .6813091 | .2021639 | 1.643920 | 5.497725 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2753-02MS Acquired: 8/4/2025 16:34:26 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **5.751954** | **.1829014** | **.4002432** |
| Stddev | .025630 | .0024485 | .0006686 |
| %RSD | .4455832 | 1.338692 | .1670577 |
| | | | |
| #1 | 5.776835 | .1816436 | .4006857 |
| #2 | 5.753389 | .1857232 | .4005699 |
| #3 | 5.725636 | .1813375 | .3994740 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5344.276** | **92050.11** | **8458.601** | **4450.378** | **6312.963** |
| Stddev | 15.765 | 361.02 | 71.058 | 21.873 | 13.605 |
| %RSD | .2949936 | .3921945 | .8400739 | .4914765 | .2155081 |
| | | | | | |
| #1 | 5352.650 | 92452.96 | 8379.863 | 4474.555 | 6317.551 |
| #2 | 5354.087 | 91755.85 | 8477.980 | 4431.964 | 6323.681 |
| #3 | 5326.091 | 91941.52 | 8517.959 | 4444.616 | 6297.658 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2753-02MSD Acquired: 8/4/2025 16:38:32 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.7570134** | **1.774206** | **.8200104** | **1.942775** | **.7734025** | **1.935918** | **.2832207** |
| Stddev | .0021520 | .054385 | .0018832 | .014167 | .0024574 | .011288 | .0003658 |
| %RSD | .2842698 | 3.065317 | .2296493 | .7291986 | .3177429 | .5830969 | .1291382 |
| #1 | .7556646 | 1.714142 | .8180717 | 1.926768 | .7755101 | 1.939545 | .2834501 |
| #2 | .7558804 | 1.820111 | .8201270 | 1.953701 | .7707032 | 1.923262 | .2834131 |
| #3 | .7594951 | 1.788366 | .8218325 | 1.947854 | .7739941 | 1.944947 | .2827989 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1740792** | **.1728138** | **52.88993** | **.3638979** | **.1790844** | **.2749159** | **2.935407** |
| Stddev | .0015706 | .0003999 | .22715 | .0012455 | .0006513 | .0006573 | .030075 |
| %RSD | .9022501 | .2314363 | .4294829 | .3422575 | .3636843 | .2390882 | 1.024575 |
| #1 | .1754224 | .1725968 | 53.05278 | .3644191 | .1788154 | .2749090 | 2.903353 |
| #2 | .1744629 | .1725692 | 52.98657 | .3624765 | .1786107 | .2742620 | 2.939858 |
| #3 | .1723522 | .1732753 | 52.63043 | .3647982 | .1798271 | .2755765 | 2.963008 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3687832** | **9.750946** | **.4508134** | **.0674772** | **297.0097** | **.2762537** | **.2636469** |
| Stddev | .0005150 | .065324 | .0011677 | .0006039 | .9030 | .0029108 | .0003848 |
| %RSD | .1396594 | .6699261 | .2590174 | .8949553 | .3040177 | 1.053665 | .1459595 |
| #1 | .3686050 | 9.755416 | .4499111 | .0668554 | 296.5323 | .2758667 | .2633212 |
| #2 | .3683808 | 9.813921 | .4503969 | .0675147 | 296.4456 | .2793386 | .2635480 |
| #3 | .3693636 | 9.683502 | .4521322 | .0680615 | 298.0511 | .2735557 | .2640715 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **11.87142** | **.2430719** | **.4062817** | **.6146896** | **.1880823** | **1.401766** | **4.951852** |
| Stddev | .05602 | .0030186 | .0015668 | .0018411 | .0031079 | .007425 | .029042 |
| %RSD | .4718851 | 1.241868 | .3856408 | .2995158 | 1.652393 | .5297089 | .5864861 |
| #1 | 11.80795 | .2454390 | .4050329 | .6125679 | .1899138 | 1.393599 | 4.921144 |
| #2 | 11.89233 | .2441041 | .4057726 | .6158655 | .1898391 | 1.403589 | 4.955537 |
| #3 | 11.91397 | .2396725 | .4080398 | .6156355 | .1844939 | 1.408110 | 4.978876 |

Sample Name: Q2753-02MSD Acquired: 8/4/2025 16:38:32 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **4.358149** | **.1675862** | **.3473383** |
| Stddev | .013762 | .0033317 | .0006111 |
| %RSD | .3157669 | 1.988073 | .1759525 |
| #1 | 4.342258 | .1685785 | .3470112 |
| #2 | 4.366110 | .1703091 | .3480434 |
| #3 | 4.366078 | .1638711 | .3469604 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5369.402** | **93502.61** | **8314.913** | **4489.592** | **6453.216** |
| Stddev | 12.549 | 360.99 | 60.400 | 18.806 | 15.325 |
| %RSD | .2337113 | .3860710 | .7264002 | .4188828 | .2374839 |
| #1 | 5374.902 | 93852.06 | 8270.540 | 4504.262 | 6458.539 |
| #2 | 5378.261 | 93131.10 | 8290.500 | 4468.391 | 6465.171 |
| #3 | 5355.042 | 93524.67 | 8383.697 | 4496.124 | 6435.939 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2753-02A Acquired: 8/4/2025 16:42:38 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.8931505** | **2.153681** | **.9721821** | **2.384159** | **.9236906** | **2.125508** | **.3031364** |
| Stddev | .0038881 | .083274 | .0027700 | .004808 | .0034143 | .021248 | .0016993 |
| %RSD | .4353238 | 3.866593 | .2849263 | .2016505 | .3696342 | .9996837 | .5605626 |
| #1 | .8887760 | 2.206437 | .9694366 | 2.388824 | .9232675 | 2.148371 | .3019313 |
| #2 | .8944634 | 2.196924 | .9721336 | 2.384432 | .9272967 | 2.106366 | .3023979 |
| #3 | .8962123 | 2.057681 | .9749760 | 2.379220 | .9205075 | 2.121786 | .3050799 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2058085** | **.1994202** | **54.43700** | **.3971040** | **.2039678** | **.3144773** | **3.298823** |
| Stddev | .0008006 | .0006180 | .08399 | .0006549 | .0005720 | .0003236 | .009176 |
| %RSD | .3889818 | .3099057 | .1542813 | .1649122 | .2804184 | .1029073 | .2781533 |
| #1 | .2061437 | .1991933 | 54.52816 | .3967574 | .2033300 | .3148509 | 3.290753 |
| #2 | .2048948 | .1989477 | 54.42005 | .3978594 | .2041383 | .3142886 | 3.296913 |
| #3 | .2063869 | .2001196 | 54.36278 | .3966953 | .2044351 | .3142922 | 3.308804 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3944886** | **10.18330** | **.5155753** | **.0808039** | **310.0165** | **.3064893** | **.3020094** |
| Stddev | .0004131 | .01682 | .0016785 | .0004940 | 4.5336 | .0016305 | .0005240 |
| %RSD | .1047275 | .1652142 | .3255609 | .6113055 | 1.462387 | .5319982 | .1734872 |
| #1 | .3949290 | 10.20034 | .5145618 | .0809285 | 315.0664 | .3061382 | .3015884 |
| #2 | .3944272 | 10.16670 | .5146512 | .0812235 | 306.2967 | .3082667 | .3018436 |
| #3 | .3941096 | 10.18287 | .5175127 | .0802595 | 308.6863 | .3050629 | .3025962 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **13.44590** | **.3053052** | **.4473551** | **.7381658** | **.2125531** | **1.541211** | **5.882031** |
| Stddev | .00057 | .0018777 | .0006835 | .0030069 | .0004801 | .018829 | .002885 |
| %RSD | .0042449 | .6150128 | .1527767 | .4073493 | .2258717 | 1.221711 | .0490521 |
| #1 | 13.44655 | .3055900 | .4476758 | .7359609 | .2127791 | 1.561102 | 5.884250 |
| #2 | 13.44564 | .3033014 | .4465703 | .7369455 | .2128784 | 1.538867 | 5.883073 |
| #3 | 13.44550 | .3070242 | .4478192 | .7415910 | .2120017 | 1.523664 | 5.878769 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2753-02A Acquired: 8/4/2025 16:42:38 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **5.212484** | **.1864561** | **.3705449** |
| Stddev | .013913 | .0036528 | .0011130 |
| %RSD | .2669094 | 1.959073 | .3003576 |
| #1 | 5.223386 | .1866900 | .3695924 |
| #2 | 5.217251 | .1826919 | .3702741 |
| #3 | 5.196814 | .1899863 | .3717683 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5578.471** | **95820.70** | **8741.096** | **4682.985** | **6544.131** |
| Stddev | 14.625 | 257.18 | 27.260 | 17.968 | 31.234 |
| %RSD | .2621620 | .2683956 | .3118587 | .3836873 | .4772784 |
| #1 | 5589.271 | 95631.58 | 8717.421 | 4672.289 | 6566.136 |
| #2 | 5584.314 | 95716.96 | 8770.898 | 4672.937 | 6557.874 |
| #3 | 5561.828 | 96113.54 | 8734.969 | 4703.729 | 6508.382 |

Sample Name: PB169079TB Acquired: 8/4/2025 16:46:44 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **-.002832** | **-.000223** | **-.001560** | **.0020740** | **.0009031** | **.0087036** | **-.003611** |
| Stddev | .000588 | .001766 | .000684 | .0030456 | .0005355 | .0051250 | .000767 |
| %RSD | 20.74549 | 792.3663 | 43.87211 | 146.8466 | 59.29050 | 58.88317 | 21.24844 |
| #1 | -.002598 | -.001671 | -.002049 | .0023072 | .0014018 | .0031758 | -.004142 |
| #2 | -.002399 | .001745 | -.000778 | -.001082 | .0003372 | .0132973 | -.002731 |
| #3 | -.003501 | -.000742 | -.001853 | .004996 | .0009704 | .0096378 | -.003959 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000229** | **-.000094** | **.1096785** | **-.001271** | **-.000136** | **-.000201** | **-.000049** |
| Stddev | .000039 | .000011 | .0077739 | .000189 | .000105 | .000423 | .001580 |
| %RSD | 16.96892 | 11.54909 | 7.087873 | 14.85825 | 77.63184 | 210.1439 | 3193.243 |
| #1 | -.000260 | -.000092 | .1103331 | -.001091 | -.000102 | -.000665 | .001559 |
| #2 | -.000186 | -.000106 | .1171044 | -.001254 | -.000253 | .000166 | -.000110 |
| #3 | -.000242 | -.000085 | .1015980 | -.001468 | -.000051 | -.000105 | -.001598 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0039757** | **.0036799** | **.0009315** | **.0008503** | **431.5816** | **-.000537** | **-.000326** |
| Stddev | .0002252 | .0046463 | .0002205 | .0001144 | 3.7276 | .000776 | .000117 |
| %RSD | 5.665230 | 126.2607 | 23.67708 | 13.45858 | .8636992 | 144.3593 | 35.79940 |
| #1 | .0038996 | .0085716 | .0010557 | .0009723 | 435.8781 | .000358 | -.000262 |
| #2 | .0037984 | .0031426 | .0006768 | .0007454 | 429.6573 | -.000972 | -.000256 |
| #3 | .0042291 | -.000674 | .0010619 | .0008330 | 429.2095 | -.000998 | -.000461 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4314809** | **-.006179** | **.0007739** | **.0008398** | **.0003189** | **.0177407** | **.0078511** |
| Stddev | .0265127 | .000541 | .0000712 | .0001986 | .0021228 | .0237740 | .0004628 |
| %RSD | 6.144593 | 8.753080 | 9.203286 | 23.64153 | 665.7914 | 134.0081 | 5.895242 |
| #1 | .4610459 | -.006475 | .0008539 | .0006446 | .0002845 | .0258509 | .0079635 |
| #2 | .4098165 | -.005555 | .0007174 | .0008333 | .0024587 | -.009027 | .0073424 |
| #3 | .4235803 | -.006508 | .0007503 | .0010416 | -.001787 | .036398 | .0082474 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: PB169079TB Acquired: 8/4/2025 16:46:44 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | .1614388 | -.015539 | .0002025 |
| Stddev | .0033753 | .001507 | .0000639 |
| %RSD | 2.090742 | 9.697198 | 31.55809 |
| #1 | .1650741 | -.015679 | .0001979 |
| #2 | .1584041 | -.013967 | .0001410 |
| #3 | .1608383 | -.016970 | .0002685 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5360.970 | 91800.66 | 8505.768 | 4477.329 | 6359.662 |
| Stddev | 9.169 | 402.19 | 70.781 | 27.371 | 8.779 |
| %RSD | .1710289 | .4381123 | .8321508 | .6113302 | .1380382 |
| #1 | 5352.851 | 92236.80 | 8562.270 | 4508.912 | 6361.119 |
| #2 | 5359.146 | 91444.41 | 8426.374 | 4462.585 | 6350.247 |
| #3 | 5370.914 | 91720.77 | 8528.661 | 4460.491 | 6367.622 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: CCV05 Acquired: 8/4/2025 16:51:13 Type: Unk
Method: 6010-200.7 NEW(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.045389** | **5.467332** | **4.761515** | **5.200185** | **5.192293** | **9.769146** |
| Stddev | .011800 | .086196 | .011420 | .013052 | .008333 | .026387 |
| %RSD | .2338862 | 1.576569 | .2398435 | .2509861 | .1604951 | .2701076 |
| #1 | 5.035874 | 5.553591 | 4.755721 | 5.202331 | 5.188395 | 9.743905 |
| #2 | 5.041700 | 5.381199 | 4.754154 | 5.186194 | 5.186623 | 9.766988 |
| #3 | 5.058594 | 5.467206 | 4.774671 | 5.212031 | 5.201861 | 9.796547 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.21710** | **.2485988** | **2.362057** | **25.37261** | **.9250536** | **2.390471** |
| Stddev | .18023 | .0006163 | .005557 | .01028 | .0021479 | .007119 |
| %RSD | 1.764036 | .2478978 | .2352595 | .0405070 | .2321907 | .2978028 |
| #1 | 10.41033 | .2488335 | 2.359826 | 25.36515 | .9259539 | 2.386587 |
| #2 | 10.18742 | .2490633 | 2.357962 | 25.38433 | .9226021 | 2.386140 |
| #3 | 10.05354 | .2478997 | 2.368383 | 25.36835 | .9266049 | 2.398687 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.224184** | **5.038449** | **2.493760** | **23.70394** | **2.397817** | **1.250612** |
| Stddev | .002265 | .037440 | .003967 | .08967 | .005694 | .001910 |
| %RSD | .1850295 | .7430840 | .1590653 | .3782824 | .2374741 | .1527081 |
| #1 | 1.223328 | 5.003820 | 2.489475 | 23.60811 | 2.394711 | 1.249935 |
| #2 | 1.222472 | 5.033349 | 2.497304 | 23.78580 | 2.394350 | 1.249133 |
| #3 | 1.226753 | 5.078177 | 2.494501 | 23.71792 | 2.404388 | 1.252768 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **22.92344** | **2.456797** | **2.554071** | **25.97577** | **4.991582** | **5.100979** |
| Stddev | .13566 | .003444 | .002183 | .06392 | .006166 | .011091 |
| %RSD | .5917752 | .1401985 | .0854676 | .2460936 | .1235376 | .2174292 |
| #1 | 22.87518 | 2.452882 | 2.556513 | 25.99427 | 4.988429 | 5.096524 |
| #2 | 22.81852 | 2.458152 | 2.552309 | 25.90464 | 4.998687 | 5.092808 |
| #3 | 23.07663 | 2.459359 | 2.553392 | 26.02841 | 4.987629 | 5.113604 |

Sample Name: CCV05 Acquired: 8/4/2025 16:51:13 Type: Unk
Method: 6010-200.7 NEW(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV05 Custom ID2: Custom ID3:
Comment:

| Elem | Sn1899 | Ti3361 | Si2881 | P_1774 | S_1820 | Li6707 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.804484** | **5.128402** | **4.910328** | F **4.470553** | **4.838739** | **4.781711** |
| Stddev | .012009 | .008364 | .017222 | .002523 | .017564 | .007772 |
| %RSD | .2499627 | .1630909 | .3507369 | .0564370 | .3629959 | .1625331 |
| #1 | 4.802352 | 5.123536 | 4.904452 | 4.470746 | 4.837577 | 4.772814 |
| #2 | 4.793683 | 5.123610 | 4.896813 | 4.467939 | 4.821784 | 4.785144 |
| #3 | 4.817417 | 5.138060 | 4.929719 | 4.472974 | 4.856856 | 4.787176 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | **5.151225** |
| Stddev | .049038 |
| %RSD | .9519652 |
| #1 | 5.105303 |
| #2 | 5.145495 |
| #3 | 5.202876 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5522.212** | **95192.88** | **8164.842** | **4597.654** | **6625.980** |
| Stddev | 5.253 | 149.10 | 15.782 | 5.424 | 4.312 |
| %RSD | .0951276 | .1566290 | .1932941 | .1179670 | .0650733 |
| #1 | 5528.264 | 95224.30 | 8172.311 | 4594.400 | 6630.561 |
| #2 | 5519.534 | 95323.77 | 8146.712 | 4594.647 | 6625.378 |
| #3 | 5518.837 | 95030.58 | 8175.504 | 4603.915 | 6622.000 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: CCB05 Acquired: 8/4/2025 16:55:23 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **-.001412** | **-.002559** | **-.000147** | **-.002958** | **-.001332** | **-.003873** | **-.002239** |
| Stddev | .001156 | .001713 | .000907 | .002341 | .000146 | .002681 | .000518 |
| %RSD | 81.92319 | 66.94086 | 617.0180 | 79.15541 | 10.97994 | 69.23721 | 23.14277 |
| #1 | -.000102 | -.002062 | .000757 | -.004593 | -.001452 | -.005741 | -.001707 |
| #2 | -.001841 | -.004466 | -.000142 | -.004004 | -.001376 | -.005077 | -.002269 |
| #3 | -.002292 | -.001150 | -.001056 | -.000276 | -.001169 | -.000800 | -.002742 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000253** | **.0002595** | **-.004178** | **-.001661** | **.0003623** | **-.000093** | **-.001394** |
| Stddev | .0000691 | .0000546 | .001253 | .000064 | .0002262 | .000217 | .002530 |
| %RSD | 273.0765 | 21.03772 | 30.00447 | 3.868330 | 62.43894 | 233.4908 | 181.4527 |
| #1 | -.000016 | .0002978 | -.003205 | -.001714 | .0006163 | .000134 | -.001194 |
| #2 | .000105 | .0002838 | -.003736 | -.001680 | .0002878 | -.000298 | .001029 |
| #3 | -.000013 | .0001970 | -.005592 | -.001590 | .0001827 | -.000115 | -.004019 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.001494** | **.0128087** | **.0003759** | **.0009849** | **.6133761** | **-.001069** | **-.000775** |
| Stddev | .000647 | .0307598 | .0004622 | .0002901 | .0106258 | .003042 | .000130 |
| %RSD | 43.32349 | 240.1469 | 122.9379 | 29.45816 | 1.732350 | 284.5819 | 16.83380 |
| #1 | -.001882 | -.019716 | .0009013 | .0009041 | .6159950 | -.000145 | -.000926 |
| #2 | -.001853 | .041432 | .0001945 | .0007437 | .6224475 | -.004466 | -.000692 |
| #3 | -.000747 | .016710 | .0000320 | .0013068 | .6016857 | .001404 | -.000708 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7843530** | **-.001772** | **.0011708** | **.0004467** | **.0007808** | **-.008786** | **.0070010** |
| Stddev | .0278875 | .000876 | .0003256 | .0004551 | .0006785 | .007596 | .0009224 |
| %RSD | 3.555476 | 49.45570 | 27.81239 | 101.8647 | 86.89924 | 86.45074 | 13.17586 |
| #1 | .8068645 | -.000774 | .0015160 | .0001137 | .0015155 | -.017147 | .0080628 |
| #2 | .7531564 | -.002125 | .0011273 | .0002612 | .0006490 | -.002311 | .0063972 |
| #3 | .7930381 | -.002416 | .0008692 | .0009653 | .0001778 | -.006901 | .0065430 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: CCB05 Acquired: 8/4/2025 16:55:23 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | -.000274 | .0027505 | .0003584 |
| Stddev | .001490 | .0034052 | .0000804 |
| %RSD | 544.2708 | 123.8036 | 22.42777 |
| | | | |
| #1 | .000442 | -.000647 | .0002656 |
| #2 | -.001987 | .006163 | .0004028 |
| #3 | .000724 | .002735 | .0004067 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5763.602 | 100941.6 | 8420.762 | 4819.244 | 7529.502 |
| Stddev | 3.617 | 204.0 | 14.627 | 8.885 | 14.834 |
| %RSD | .0627500 | .2020625 | .1737013 | .1843693 | .1970131 |
| | | | | | |
| #1 | 5767.778 | 100819.1 | 8432.139 | 4819.138 | 7542.452 |
| #2 | 5761.505 | 100828.6 | 8425.884 | 4828.182 | 7532.735 |
| #3 | 5761.522 | 101177.0 | 8404.263 | 4810.412 | 7513.318 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: PB169101BL Acquired: 8/4/2025 16:59:43 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **-.001361** | **-.003057** | **-.001638** | **.0008507** | **-.001657** | **-.003085** | **-.002143** |
| Stddev | .000392 | .000740 | .001073 | .0023219 | .000567 | .005671 | .000191 |
| %RSD | 28.79500 | 24.19536 | 65.51154 | 272.9328 | 34.19622 | 183.8401 | 8.904787 |
| #1 | -.000946 | -.003891 | -.000622 | -.000421 | -.002289 | .002868 | -.001925 |
| #2 | -.001724 | -.002481 | -.002760 | -.000557 | -.001194 | -.003698 | -.002280 |
| #3 | -.001411 | -.002799 | -.001532 | .003531 | -.001488 | -.008424 | -.002224 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000022** | **-.000016** | **-.003969** | **-.001645** | **.0000066** | **-.000223** | **-.004623** |
| Stddev | .000010 | .000047 | .004156 | .000204 | .0002375 | .000292 | .002059 |
| %RSD | 42.97009 | 298.7474 | 104.7114 | 12.41291 | 3623.978 | 131.3153 | 44.54377 |
| #1 | -.000030 | -.000067 | -.007487 | -.001418 | .0002291 | -.000516 | -.006243 |
| #2 | -.000025 | -.000005 | -.005038 | -.001704 | .0000341 | .000069 | -.005321 |
| #3 | -.000012 | .000025 | .000617 | -.001813 | -.000244 | -.000221 | -.002306 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.001411** | **.0129143** | **.0001187** | **.0010828** | **.5688024** | **-.002678** | **-.000392** |
| Stddev | .000258 | .0101453 | .0001868 | .0002294 | .0142334 | .000362 | .000173 |
| %RSD | 18.29895 | 78.55890 | 157.2977 | 21.18536 | 2.502339 | 13.53139 | 44.19097 |
| #1 | -.001147 | .0235367 | .0002502 | .0008184 | .5529228 | -.002364 | -.000586 |
| #2 | -.001663 | .0118809 | -.000095 | .0012290 | .5730728 | -.002595 | -.000336 |
| #3 | -.001424 | .0033252 | .000201 | .0012011 | .5804118 | -.003075 | -.000254 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7765640** | **-.003882** | **.0002023** | **-.000661** | **.0004905** | **-.003203** | **.0037968** |
| Stddev | .0071025 | .000125 | .0002438 | .000523 | .0012082 | .003236 | .0015385 |
| %RSD | .9146004 | 3.232901 | 120.5015 | 79.17494 | 246.3310 | 101.0342 | 40.52234 |
| #1 | .7765664 | -.003737 | -.000077 | -.001189 | .0013403 | .000461 | .0020681 |
| #2 | .7836652 | -.003961 | .000374 | -.000142 | .0010237 | -.004401 | .0050159 |
| #3 | .7694603 | -.003947 | .000309 | -.000652 | -.000893 | -.005669 | .0043063 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: PB169101BL Acquired: 8/4/2025 16:59:43 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | -.001047 | -.001312 | -.000088 |
| Stddev | .000411 | .003578 | .000039 |
| %RSD | 39.23689 | 272.6657 | 44.03750 |
| #1 | -.001171 | .000578 | -.000043 |
| #2 | -.000589 | .000925 | -.000109 |
| #3 | -.001382 | -.005439 | -.000112 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5777.614 | 100168.1 | 8178.732 | 4811.618 | 7502.089 |
| Stddev | 6.196 | 261.2 | 54.081 | 3.510 | 13.269 |
| %RSD | .1072381 | .2607597 | .6612435 | .0729582 | .1768722 |
| #1 | 5770.682 | 100466.9 | 8116.481 | 4815.253 | 7487.374 |
| #2 | 5782.611 | 100054.0 | 8205.572 | 4811.353 | 7505.749 |
| #3 | 5779.550 | 99983.4 | 8214.144 | 4808.247 | 7513.144 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: PB169101BS Acquired: 8/4/2025 17:04:03 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.8341163** | **2.277296** | **.9791135** | **2.159901** | **.8753933** | **2.119021** | **.2205247** |
| Stddev | .0033898 | .096677 | .0020942 | .010224 | .0028607 | .010623 | .0006530 |
| %RSD | .4063900 | 4.245254 | .2138857 | .4733641 | .3267952 | .5012933 | .2961305 |
| #1 | .8349120 | 2.272142 | .9769837 | 2.160834 | .8785416 | 2.111870 | .2203887 |
| #2 | .8303994 | 2.183299 | .9791866 | 2.149242 | .8729531 | 2.113965 | .2199503 |
| #3 | .8370374 | 2.376447 | .9811701 | 2.169626 | .8746851 | 2.131227 | .2212350 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2198950** | **.1930648** | **1.133548** | **.3943866** | **.2015689** | **.3202678** | **3.131049** |
| Stddev | .0008059 | .0004843 | .005765 | .0019045 | .0001802 | .0008700 | .009979 |
| %RSD | .3664729 | .2508651 | .5086010 | .4828944 | .0894222 | .2716567 | .3187063 |
| #1 | .2197646 | .1925804 | 1.130952 | .3965852 | .2015792 | .3198573 | 3.141821 |
| #2 | .2191624 | .1930648 | 1.129537 | .3933265 | .2013837 | .3196789 | 3.129207 |
| #3 | .2207582 | .1935491 | 1.140155 | .3932481 | .2017437 | .3212671 | 3.122120 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2179455** | **2.083324** | **.5046666** | **.0810738** | **3.237253** | **.3174009** | **.2183420** |
| Stddev | .0013504 | .027103 | .0013026 | .0004239 | .010185 | .0082108 | .0009692 |
| %RSD | .6196180 | 1.300970 | .2581190 | .5228120 | .3146077 | 2.586891 | .4438884 |
| #1 | .2186884 | 2.069348 | .5032299 | .0814085 | 3.248898 | .3173168 | .2192693 |
| #2 | .2163867 | 2.066061 | .5049991 | .0812157 | 3.232850 | .3092324 | .2184211 |
| #3 | .2187613 | 2.114563 | .5057708 | .0805972 | 3.230011 | .3256534 | .2173357 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.69693** | **.3211964** | **.4352903** | **.6903375** | **.2158186** | **.8605360** | **5.367101** |
| Stddev | .03136 | .0011466 | .0009628 | .0040243 | .0006950 | .0057434 | .015548 |
| %RSD | .2931594 | .3569914 | .2211758 | .5829447 | .3220195 | .6674230 | .2896850 |
| #1 | 10.71161 | .3207139 | .4357639 | .6918405 | .2150355 | .8645261 | 5.371423 |
| #2 | 10.71826 | .3203698 | .4341824 | .6857780 | .2163621 | .8539533 | 5.349849 |
| #3 | 10.66093 | .3225054 | .4359245 | .6933939 | .2160581 | .8631284 | 5.380030 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: PB169101BS Acquired: 8/4/2025 17:04:03 Type: Unk
Method: 6010-200.7 NEW(v81) 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 -.001127 | .2028508 | .2161019 |
| Stddev | .002493 | .0009183 | .0006899 |
| %RSD | 221.2220 | .4527220 | .3192486 |
| #1 | .001293 | .2035619 | .2161424 |
| #2 | -.000987 | .2031765 | .2153926 |
| #3 | -.003687 | .2018140 | .2167707 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5685.499 | 98679.84 | 8080.234 | 4752.108 | 7182.894 |
| Stddev | 9.292 | 309.75 | 16.336 | 12.251 | 15.132 |
| %RSD | .1634292 | .3138940 | .2021782 | .2578007 | .2106726 |
| #1 | 5688.053 | 98498.47 | 8079.527 | 4744.054 | 7198.154 |
| #2 | 5693.246 | 98503.54 | 8096.912 | 4746.063 | 7182.636 |
| #3 | 5675.197 | 99037.49 | 8064.262 | 4766.207 | 7167.892 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2745-01 Acquired: 8/4/2025 17:08:04 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **-.000923** | **-.015476** | **-.000797** | **-.006190** | **-.005163** | **-.007183** | **-.021701** |
| Stddev | .000094 | .000067 | .000279 | .000603 | .000127 | .004854 | .000087 |
| %RSD | 10.21894 | .4304077 | 35.00440 | 9.743325 | 2.461007 | 67.57059 | .3999574 |
| #1 | -.000952 | -.015544 | -.000628 | -.006877 | -.005094 | -.010506 | -.021635 |
| #2 | -.001000 | -.015475 | -.000645 | -.005747 | -.005086 | -.009430 | -.021799 |
| #3 | -.000818 | -.015411 | -.001120 | -.005947 | -.005310 | -.001613 | -.021667 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000092** | **.0001280** | **-.028056** | **-.002473** | **-.000079** | **-.000733** | **-.016467** |
| Stddev | .0000154 | .0000227 | .002553 | .000107 | .000033 | .000060 | .001279 |
| %RSD | 168.5322 | 17.72373 | 9.100879 | 4.330655 | 41.68234 | 8.242435 | 7.764544 |
| #1 | .0000038 | .0001467 | -.025993 | -.002384 | -.000106 | -.000795 | -.016641 |
| #2 | -.000003 | .0001345 | -.027263 | -.002592 | -.000089 | -.000674 | -.017650 |
| #3 | .000027 | .0001027 | -.030912 | -.002444 | -.000042 | -.000731 | -.015110 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.001893** | **.0151405** | **.0005323** | **.0005180** | **-.226672** | **.0011011** | **-.002559** |
| Stddev | .000050 | .0094223 | .0000252 | .0000972 | .001829 | .0006730 | .000081 |
| %RSD | 2.645048 | 62.23217 | 4.725627 | 18.77070 | .8067214 | 61.11994 | 3.183142 |
| #1 | -.001897 | .0260018 | .0005054 | .0005498 | -.224762 | .0004207 | -.002532 |
| #2 | -.001840 | .0102618 | .0005552 | .0005953 | -.226846 | .0011163 | -.002494 |
| #3 | -.001940 | .0091580 | .0005363 | .0004088 | -.228407 | .0017664 | -.002650 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1945188** | **-.008083** | **-.000636** | **-.002975** | **-.000191** | **-.035548** | **-.009091** |
| Stddev | .0161650 | .000077 | .000038 | .000109 | .000084 | .001597 | .000098 |
| %RSD | 8.310262 | .9509016 | 5.898590 | 3.655278 | 43.78632 | 4.491904 | 1.081621 |
| #1 | .1921690 | -.008043 | -.000629 | -.002888 | -.000112 | -.037028 | -.009203 |
| #2 | .1796573 | -.008172 | -.000676 | -.002939 | -.000181 | -.033856 | -.009018 |
| #3 | .2117301 | -.008035 | -.000602 | -.003097 | -.000279 | -.035761 | -.009053 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2745-01 Acquired: 8/4/2025 17:08:04 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | -.010656 | -.016227 | -.000182 |
| Stddev | .001122 | .000332 | .000032 |
| %RSD | 10.52455 | 2.048066 | 17.75410 |
| #1 | -.011014 | -.016255 | -.000145 |
| #2 | -.011555 | -.016545 | -.000194 |
| #3 | -.009399 | -.015882 | -.000206 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 24878.19 | 411765.2 | 24819.73 | 21097.95 | 32249.32 |
| Stddev | 38.46 | 5259.0 | 187.55 | 50.05 | 41.88 |
| %RSD | .1546020 | 1.277189 | .7556641 | .2372288 | .1298709 |
| #1 | 24862.78 | 417806.9 | 24825.31 | 21150.44 | 32240.80 |
| #2 | 24921.97 | 409274.1 | 24629.45 | 21092.64 | 32294.81 |
| #3 | 24849.83 | 408214.7 | 25004.44 | 21050.76 | 32212.36 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2745-02 Acquired: 8/4/2025 17:12:31 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **-.002841** | **-.000659** | **.0052184** | **-.002580** | **-.000059** | **.0525176** | **.0027563** |
| Stddev | .000182 | .001661 | .0008764 | .001566 | .000775 | .0058691 | .0009117 |
| %RSD | 6.421512 | 252.2116 | 16.79511 | 60.68482 | 1324.440 | 11.17551 | 33.07604 |
| #1 | -.003040 | -.001066 | .0056774 | -.003646 | .000668 | .0583833 | .0035811 |
| #2 | -.002802 | -.002078 | .0057700 | -.003313 | -.000874 | .0525244 | .0017774 |
| #3 | -.002681 | .001168 | .0042078 | -.000782 | .000030 | .0466451 | .0029106 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000230** | **-.000058** | **4.411034** | **-.001653** | **.0068016** | **.0149624** | **.0856149** |
| Stddev | .000022 | .000042 | .032751 | .000188 | .0001026 | .0001422 | .0035295 |
| %RSD | 9.673478 | 71.84299 | .7424679 | 11.39566 | 1.508114 | .9501543 | 4.122525 |
| #1 | -.000255 | -.000026 | 4.448746 | -.001436 | .0068737 | .0149639 | .0882937 |
| #2 | -.000224 | -.000106 | 4.394614 | -.001749 | .0068470 | .0148196 | .0869356 |
| #3 | -.000211 | -.000043 | 4.389741 | -.001773 | .0066842 | .0151039 | .0816156 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0203974** | **1.693124** | **.0085384** | **.0007467** | **13.57396** | **-.001063** | **.0541778** |
| Stddev | .0005061 | .020931 | .0004194 | .0002373 | .04019 | .000259 | .0003470 |
| %RSD | 2.480996 | 1.236233 | 4.912075 | 31.77466 | .2961047 | 24.38225 | .6405129 |
| #1 | .0209647 | 1.668988 | .0080694 | .0009124 | 13.56342 | -.001130 | .0540809 |
| #2 | .0202348 | 1.706285 | .0086681 | .0004749 | 13.61837 | -.001282 | .0545629 |
| #3 | .0199926 | 1.704099 | .0088776 | .0008529 | 13.54009 | -.000777 | .0538895 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.085240** | **.0027942** | **.0001465** | **.0023133** | **-.000052** | **5.684093** | **.0075338** |
| Stddev | .035388 | .0004411 | .0002606 | .0003476 | .000972 | .042632 | .0007695 |
| %RSD | 3.260829 | 15.78611 | 177.8308 | 15.02806 | 1872.354 | .7500267 | 10.21440 |
| #1 | 1.092078 | .0024062 | -.000039 | .0020316 | .001059 | 5.639339 | .0074226 |
| #2 | 1.046932 | .0032740 | .000034 | .0022064 | -.000470 | 5.724227 | .0083529 |
| #3 | 1.116709 | .0027025 | .000444 | .0027018 | -.000744 | 5.688713 | .0068260 |

Sample Name: Q2745-02 Acquired: 8/4/2025 17:12:31 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | 5.023897 | -.016426 | .0240902 |
| Stddev | .021341 | .003132 | .0001070 |
| %RSD | .4247941 | 19.06437 | .4441519 |
| #1 | 5.000731 | -.019612 | .0242131 |
| #2 | 5.028202 | -.013352 | .0240180 |
| #3 | 5.042757 | -.016314 | .0240394 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5750.511 | 99861.55 | 8190.111 | 4839.801 | 7335.710 |
| Stddev | 3.652 | 347.63 | 71.846 | 23.671 | 6.174 |
| %RSD | .0635082 | .3481160 | .8772277 | .4890963 | .0841638 |
| #1 | 5746.294 | 99460.32 | 8109.435 | 4816.035 | 7342.138 |
| #2 | 5752.652 | 100072.7 | 8213.706 | 4839.990 | 7329.826 |
| #3 | 5752.587 | 100051.6 | 8247.193 | 4863.376 | 7335.166 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2756-01 Acquired: 8/4/2025 17:16:47 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.0065968** | **.0003186** | **.0404387** | **.0002410** | **-.001429** | **.2347676** | **.1233951** |
| Stddev | .0028716 | .0023743 | .0001157 | .0009378 | .001593 | .0073837 | .0013113 |
| %RSD | 43.53049 | 745.2431 | .2860422 | 389.1427 | 111.4388 | 3.145105 | 1.062690 |
| #1 | .0036200 | -.000978 | .0404598 | -.000309 | .000410 | .2327440 | .1225752 |
| #2 | .0093502 | -.001125 | .0403140 | .001324 | -.002334 | .2429521 | .1249075 |
| #3 | .0068201 | .003059 | .0405424 | -.000292 | -.002365 | .2286067 | .1227027 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000306** | **-.000108** | **73.21005** | **.0022463** | **.0071272** | **.0055409** | **11.94045** |
| Stddev | .000042 | .000004 | .08974 | .0002463 | .0000814 | .0002235 | .01423 |
| %RSD | 13.86656 | 3.337213 | .1225731 | 10.96274 | 1.142435 | 4.033897 | .1192014 |
| #1 | -.000355 | -.000109 | 73.21140 | .0021323 | .0070720 | .0052984 | 11.95555 |
| #2 | -.000282 | -.000104 | 73.29911 | .0020778 | .0072207 | .0057387 | 11.93853 |
| #3 | -.000281 | -.000111 | 73.11965 | .0025289 | .0070888 | .0055854 | 11.92728 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.456535** | **9.660896** | **.0229897** | **.0008795** | **109.4275** | **.0011712** | **.2545955** |
| Stddev | .004992 | .035211 | .0002513 | .0001561 | .5047 | .0002909 | .0007116 |
| %RSD | .1444151 | .3644643 | 1.093065 | 17.75023 | .4612243 | 24.83996 | .2794857 |
| #1 | 3.459358 | 9.646468 | .0231271 | .0009226 | 109.9854 | .0014804 | .2551475 |
| #2 | 3.459475 | 9.635191 | .0231422 | .0010095 | 109.0027 | .0009028 | .2548465 |
| #3 | 3.450771 | 9.701029 | .0226996 | .0007063 | 109.2945 | .0011306 | .2537924 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **38.33082** | **.1046518** | **.0123367** | **-.002850** | **.0035140** | **9.384983** | **.5541484** |
| Stddev | .11654 | .0006470 | .0001852 | .000218 | .0014104 | .083295 | .0056685 |
| %RSD | .3040475 | .6182102 | 1.501233 | 7.639183 | 40.13747 | .8875369 | 1.022916 |
| #1 | 38.45110 | .1041283 | .0124438 | -.003000 | .0037342 | 9.479346 | .5547622 |
| #2 | 38.21842 | .1044519 | .0124434 | -.002949 | .0020064 | 9.321685 | .5594850 |
| #3 | 38.32293 | .1053751 | .0121228 | -.002600 | .0048013 | 9.353917 | .5481980 |

Sample Name: Q2756-01 Acquired: 8/4/2025 17:16:47 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | 3.485168 | -.003321 | .7511036 |
| Stddev | .007975 | .001725 | .0010616 |
| %RSD | .2288129 | 51.94070 | .1413456 |
| #1 | 3.476051 | -.005307 | .7523248 |
| #2 | 3.490846 | -.002186 | .7505864 |
| #3 | 3.488607 | -.002471 | .7503997 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5418.551 | 92475.47 | 8075.666 | 4536.815 | 6526.450 |
| Stddev | 2.248 | 185.40 | 20.460 | 29.347 | 4.677 |
| %RSD | .0414935 | .2004861 | .2533571 | .6468615 | .0716567 |
| #1 | 5420.728 | 92316.26 | 8077.803 | 4519.653 | 6522.883 |
| #2 | 5418.687 | 92431.13 | 8054.221 | 4520.091 | 6531.744 |
| #3 | 5416.238 | 92679.02 | 8094.974 | 4570.701 | 6524.722 |

Sample Name: Q2756-01DUP Acquired: 8/4/2025 17:20:59 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.0079896** | **-.003535** | **.0405787** | **-.000252** | **-.000753** | **.2183800** | **.1207158** |
| Stddev | .0010074 | .000511 | .0011198 | .002996 | .000349 | .0055148 | .0013593 |
| %RSD | 12.60912 | 14.46273 | 2.759482 | 1187.275 | 46.30450 | 2.525320 | 1.126006 |
| #1 | .0088300 | -.004054 | .0401573 | -.002702 | -.000760 | .2139155 | .1193120 |
| #2 | .0068729 | -.003518 | .0397308 | -.001144 | -.001099 | .2245447 | .1208096 |
| #3 | .0082659 | -.003032 | .0418481 | .003089 | -.000401 | .2166798 | .1220257 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000290** | **-.000078** | **72.26127** | **-.000428** | **.0071883** | **.0052526** | **11.57145** |
| Stddev | .000025 | .000022 | .09205 | .000104 | .0001517 | .0004302 | .06862 |
| %RSD | 8.604879 | 28.82531 | .1273835 | 24.29103 | 2.111002 | 8.190333 | .5929898 |
| #1 | -.000317 | -.000084 | 72.16170 | -.000349 | .0072986 | .0048059 | 11.51462 |
| #2 | -.000268 | -.000053 | 72.34327 | -.000546 | .0070152 | .0052877 | 11.55206 |
| #3 | -.000286 | -.000097 | 72.27885 | -.000390 | .0072510 | .0056642 | 11.64768 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.415868** | **9.582448** | **.0222816** | **.0008409** | **106.2755** | **.0029982** | **.2501051** |
| Stddev | .006870 | .093037 | .0001717 | .0004789 | .2621 | .0022394 | .0001454 |
| %RSD | .2011223 | .9709096 | .7705491 | 56.95432 | .2466013 | 74.69364 | .0581142 |
| #1 | 3.408908 | 9.519722 | .0224680 | .0009958 | 106.1475 | .0051934 | .2502709 |
| #2 | 3.422644 | 9.689342 | .0221299 | .0012233 | 106.5770 | .0007170 | .2500450 |
| #3 | 3.416053 | 9.538278 | .0222469 | .0003037 | 106.1020 | .0030842 | .2499995 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **37.18525** | **.1028818** | **.0122811** | **-.000132** | **.0044454** | **9.146012** | **.5312861** |
| Stddev | .08272 | .0000785 | .0000985 | .000390 | .0021954 | .013305 | .0011746 |
| %RSD | .2224611 | .0763329 | .8024539 | 294.4424 | 49.38512 | .1454719 | .2210865 |
| #1 | 37.10326 | .1029724 | .0122785 | -.000232 | .0031686 | 9.146956 | .5299775 |
| #2 | 37.26869 | .1028411 | .0121838 | -.000463 | .0069804 | 9.158820 | .5322492 |
| #3 | 37.18380 | .1028320 | .0123809 | .000297 | .0031872 | 9.132261 | .5316315 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2756-01DUP Acquired: 8/4/2025 17:20:59 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **3.416818** | **-.002886** | **.7431860** |
| Stddev | .030307 | .003837 | .0011567 |
| %RSD | .8870053 | 132.9585 | .1556448 |
| #1 | 3.388871 | -.007315 | .7444235 |
| #2 | 3.412548 | -.000764 | .7430027 |
| #3 | 3.449033 | -.000579 | .7421319 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5574.965** | **96013.75** | **8266.070** | **4668.381** | **6709.954** |
| Stddev | 8.934 | 465.16 | 26.055 | 24.552 | 16.051 |
| %RSD | .1602591 | .4844770 | .3152041 | .5259176 | .2392099 |
| #1 | 5580.900 | 96542.86 | 8294.181 | 4696.716 | 6720.174 |
| #2 | 5579.306 | 95669.14 | 8242.730 | 4653.403 | 6718.234 |
| #3 | 5564.690 | 95829.24 | 8261.300 | 4655.025 | 6691.454 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2756-01LX5 Acquired: 8/4/2025 17:25:10 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.0019902** | **-.002526** | **.0088772** | **-.001394** | **-.001955** | **.0528297** | **.0238505** |
| Stddev | .0011782 | .001712 | .0011967 | .002582 | .000395 | .0135561 | .0007655 |
| %RSD | 59.19864 | 67.78709 | 13.48043 | 185.1987 | 20.18589 | 25.66009 | 3.209496 |
| #1 | .0014254 | -.003725 | .0075411 | .001061 | -.001501 | .0461918 | .0238720 |
| #2 | .0012008 | -.000565 | .0098506 | -.001156 | -.002146 | .0684256 | .0230745 |
| #3 | .0033445 | -.003288 | .0092398 | -.004088 | -.002218 | .0438717 | .0246050 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000102** | **-.000023** | **15.98740** | **-.000802** | **.0014830** | **.0008443** | **2.512668** |
| Stddev | .000008 | .000033 | .07530 | .000254 | .0000335 | .0002108 | .026100 |
| %RSD | 7.678193 | 148.2520 | .4709747 | 31.70511 | 2.255805 | 24.96828 | 1.038717 |
| #1 | -.000095 | -.000012 | 16.07183 | -.000564 | .0014653 | .0008935 | 2.538397 |
| #2 | -.000110 | -.000060 | 15.92719 | -.001070 | .0015215 | .0006133 | 2.513393 |
| #3 | -.000101 | .000004 | 15.96320 | -.000771 | .0014621 | .0010263 | 2.486213 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7577342** | **2.157204** | **.0046404** | **.0009004** | **21.73043** | **.0005227** | **.0523714** |
| Stddev | .0020501 | .003253 | .0002983 | .0000898 | .14716 | .0042664 | .0000846 |
| %RSD | .2705584 | .1507801 | 6.428866 | 9.977778 | .6772292 | 816.1894 | .1614696 |
| #1 | .7598352 | 2.158794 | .0049556 | .0009364 | 21.82933 | .0023669 | .0524634 |
| #2 | .7576284 | 2.153463 | .0043624 | .0009666 | 21.80066 | -.004356 | .0522970 |
| #3 | .7557391 | 2.159356 | .0046033 | .0007981 | 21.56131 | .003557 | .0523537 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **8.497520** | **.0185290** | **.0024440** | **-.001881** | **.0027481** | **1.964946** | **.1124326** |
| Stddev | .046329 | .0005166 | .0000653 | .000408 | .0020185 | .031936 | .0030100 |
| %RSD | .5452098 | 2.788042 | 2.670651 | 21.68436 | 73.45138 | 1.625265 | 2.677122 |
| #1 | 8.529856 | .0190177 | .0025090 | -.001870 | .0004508 | 1.992153 | .1140602 |
| #2 | 8.518259 | .0179884 | .0023785 | -.002294 | .0042375 | 1.972901 | .1089592 |
| #3 | 8.444444 | .0185810 | .0024444 | -.001478 | .0035561 | 1.929785 | .1142783 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2756-01LX5 Acquired: 8/4/2025 17:25:10 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | .7213896 | .0037919 | .1627970 |
| Stddev | .0054342 | .0035414 | .0003405 |
| %RSD | .7533025 | 93.39265 | .2091579 |
| #1 | .7273243 | .0075839 | .1630574 |
| #2 | .7201875 | .0005704 | .1629219 |
| #3 | .7166571 | .0032215 | .1624117 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5610.058 | 96439.74 | 8206.583 | 4682.765 | 6981.958 |
| Stddev | 8.844 | 7.07 | 33.371 | 12.030 | 13.550 |
| %RSD | .1576433 | .0073327 | .4066329 | .2569021 | .1940785 |
| #1 | 5618.669 | 96442.77 | 8229.235 | 4670.887 | 6991.232 |
| #2 | 5610.507 | 96431.66 | 8222.251 | 4682.465 | 6988.235 |
| #3 | 5600.998 | 96444.80 | 8168.261 | 4694.942 | 6966.407 |

Sample Name: Q2756-01MS Acquired: 8/4/2025 17:29:26 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.8449154** | **2.076044** | **.9859208** | **2.097338** | **.8516944** | **2.262961** | **.3303057** |
| Stddev | .0054908 | .049140 | .0004593 | .009543 | .0007566 | .017792 | .0006982 |
| %RSD | .6498607 | 2.367025 | .0465823 | .4549904 | .0888373 | .7862136 | .2113752 |
| #1 | .8449077 | 2.042310 | .9857378 | 2.087806 | .8509163 | 2.283321 | .3310705 |
| #2 | .8394285 | 2.053397 | .9855813 | 2.097316 | .8517392 | 2.255156 | .3297025 |
| #3 | .8504100 | 2.132424 | .9864434 | 2.106892 | .8524276 | 2.250405 | .3301441 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1999118** | **.1938471** | **72.03852** | **.3963230** | **.2076575** | **.3090029** | **14.72017** |
| Stddev | .0006472 | .0002945 | .21699 | .0020353 | .0003905 | .0006988 | .04654 |
| %RSD | .3237354 | .1519123 | .3012205 | .5135411 | .1880513 | .2261512 | .3161655 |
| #1 | .1998815 | .1939874 | 72.28658 | .3947484 | .2080973 | .3095700 | 14.72078 |
| #2 | .2005735 | .1940452 | 71.88387 | .3955993 | .2075237 | .3082222 | 14.67332 |
| #3 | .1992802 | .1935087 | 71.94512 | .3986212 | .2073515 | .3092164 | 14.76639 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.574420** | **11.39536** | **.5248802** | **.0768450** | **109.2837** | **.3149829** | **.4586746** |
| Stddev | .007243 | .06826 | .0006226 | .0007496 | .3422 | .0041039 | .0012469 |
| %RSD | .2026480 | .5990169 | .1186151 | .9754409 | .3131553 | 1.302906 | .2718381 |
| #1 | 3.582721 | 11.38386 | .5255899 | .0776027 | 109.5123 | .3194910 | .4578517 |
| #2 | 3.571159 | 11.46864 | .5246244 | .0768286 | 108.8903 | .3139939 | .4580630 |
| #3 | 3.569380 | 11.33357 | .5244262 | .0761038 | 109.4487 | .3114639 | .4601092 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **47.70870** | **.3704846** | **.4619500** | **.6936969** | **.2115965** | **10.05036** | **6.073967** |
| Stddev | .16795 | .0009444 | .0003530 | .0003246 | .0030844 | .05085 | .016199 |
| %RSD | .3520308 | .2549068 | .0764194 | .0467937 | 1.457695 | .5059405 | .2666874 |
| #1 | 47.84657 | .3707107 | .4620833 | .6933305 | .2124617 | 10.05959 | 6.090400 |
| #2 | 47.52165 | .3712954 | .4615498 | .6938118 | .2081718 | 9.99553 | 6.058013 |
| #3 | 47.75789 | .3694477 | .4622170 | .6939485 | .2141559 | 10.09597 | 6.073486 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2756-01MS Acquired: 8/4/2025 17:29:26 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **3.357179** | **.1936212** | **.9423980** |
| Stddev | .015196 | .0014483 | .0023168 |
| %RSD | .4526516 | .7480326 | .2458427 |
| #1 | 3.356447 | .1924545 | .9450210 |
| #2 | 3.342362 | .1931669 | .9406309 |
| #3 | 3.372728 | .1952423 | .9415423 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5572.941** | **96553.25** | **8424.019** | **4719.376** | **6683.804** |
| Stddev | 11.400 | 40.58 | 17.478 | 20.530 | 12.188 |
| %RSD | .2045686 | .0420282 | .2074762 | .4350164 | .1823556 |
| #1 | 5568.342 | 96599.51 | 8425.197 | 4696.976 | 6673.492 |
| #2 | 5585.923 | 96523.65 | 8405.982 | 4723.856 | 6697.255 |
| #3 | 5564.559 | 96536.58 | 8440.879 | 4737.296 | 6680.665 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2756-01MSD Acquired: 8/4/2025 17:33:23 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.8199562** | **2.060472** | **.9581171** | **2.052741** | **.8442549** | **2.203254** | **.3205217** |
| Stddev | .0037862 | .034093 | .0013123 | .005366 | .0042321 | .008154 | .0000717 |
| %RSD | .4617615 | 1.654627 | .1369658 | .2614103 | .5012863 | .3700856 | .0223596 |
| #1 | .8173474 | 2.084096 | .9580775 | 2.047427 | .8393687 | 2.195288 | .3205621 |
| #2 | .8182223 | 2.075931 | .9594487 | 2.052639 | .8467678 | 2.202889 | .3204389 |
| #3 | .8242989 | 2.021387 | .9568250 | 2.058158 | .8466281 | 2.211584 | .3205640 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1946276** | **.1875539** | **70.52251** | **.3829856** | **.2010569** | **.2991747** | **14.35146** |
| Stddev | .0008812 | .0002086 | .22321 | .0014702 | .0005311 | .0006973 | .07127 |
| %RSD | .4527810 | .1112301 | .3165098 | .3838708 | .2641776 | .2330715 | .4966320 |
| #1 | .1946233 | .1873612 | 70.75627 | .3813904 | .2011080 | .2988022 | 14.30870 |
| #2 | .1937486 | .1877755 | 70.31161 | .3842861 | .2015607 | .2987427 | 14.43374 |
| #3 | .1955110 | .1875251 | 70.49965 | .3832802 | .2005021 | .2999791 | 14.31194 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.509935** | **11.21388** | **.5069703** | **.0750437** | **107.8148** | **.3044273** | **.4500774** |
| Stddev | .004563 | .03152 | .0008643 | .0005199 | .3222 | .0024557 | .0023157 |
| %RSD | .1300042 | .2811248 | .1704901 | .6928066 | .2988478 | .8066487 | .5145065 |
| #1 | 3.515167 | 11.24161 | .5066224 | .0744438 | 107.6974 | .3021113 | .4485792 |
| #2 | 3.507861 | 11.22044 | .5079544 | .0753229 | 108.1792 | .3041685 | .4489085 |
| #3 | 3.506777 | 11.17959 | .5063342 | .0753643 | 107.5677 | .3070021 | .4527446 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **46.96124** | **.3645071** | **.4610047** | **.6802942** | **.2034495** | **9.872045** | **5.920330** |
| Stddev | .08454 | .0013417 | .0005941 | .0014099 | .0028832 | .048711 | .031179 |
| %RSD | .1800305 | .3680941 | .1288654 | .2072530 | 1.417132 | .4934234 | .5266418 |
| #1 | 46.87053 | .3651701 | .4603412 | .6790927 | .2052651 | 9.830042 | 5.895822 |
| #2 | 47.03784 | .3629629 | .4614873 | .6799436 | .2049583 | 9.925444 | 5.955424 |
| #3 | 46.97534 | .3653882 | .4611856 | .6818464 | .2001250 | 9.860650 | 5.909743 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2756-01MSD Acquired: 8/4/2025 17:33:23 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **3.339844** | **.1893796** | **.9210524** |
| Stddev | .009393 | .0015435 | .0033891 |
| %RSD | .2812497 | .8150094 | .3679597 |
| #1 | 3.329016 | .1877374 | .9247715 |
| #2 | 3.344704 | .1908004 | .9202476 |
| #3 | 3.345811 | .1896011 | .9181381 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5535.035** | **95386.62** | **8299.829** | **4667.529** | **6636.606** |
| Stddev | 2.978 | 73.26 | 34.838 | 15.242 | 11.153 |
| %RSD | .0537986 | .0768012 | .4197424 | .3265549 | .1680491 |
| #1 | 5532.406 | 95431.28 | 8269.912 | 4664.025 | 6634.993 |
| #2 | 5534.429 | 95426.50 | 8338.077 | 4684.218 | 6626.347 |
| #3 | 5538.269 | 95302.07 | 8291.498 | 4654.345 | 6648.477 |

Sample Name: Q2756-01A Acquired: 8/4/2025 17:37:20 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.8454532** | **2.072467** | **.9867124** | **2.116776** | **.8645448** | **2.283343** | **.3307969** |
| Stddev | .0033704 | .006263 | .0027858 | .001311 | .0010726 | .014500 | .0008854 |
| %RSD | .3986475 | .3021901 | .2823323 | .0619347 | .1240635 | .6350529 | .2676662 |
| #1 | .8436307 | 2.066172 | .9851097 | 2.116069 | .8657520 | 2.273110 | .3317626 |
| #2 | .8433865 | 2.078697 | .9850984 | 2.115972 | .8641808 | 2.299937 | .3306050 |
| #3 | .8493424 | 2.072532 | .9899292 | 2.118289 | .8637016 | 2.276983 | .3300232 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2007829** | **.1938617** | **71.95897** | **.3950669** | **.2080496** | **.3094195** | **14.66191** |
| Stddev | .0005636 | .0001137 | .25873 | .0001678 | .0006877 | .0002618 | .04407 |
| %RSD | .2806780 | .0586319 | .3595525 | .0424850 | .3305695 | .0846169 | .3005506 |
| #1 | .2010180 | .1937849 | 72.25770 | .3949145 | .2080393 | .3095552 | 14.65148 |
| #2 | .2011908 | .1938080 | 71.81320 | .3952468 | .2073671 | .3091177 | 14.62398 |
| #3 | .2001399 | .1939923 | 71.80602 | .3950393 | .2087425 | .3095856 | 14.71025 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.565577** | **11.26407** | **.5248433** | **.0742927** | **108.3314** | **.3182622** | **.4581978** |
| Stddev | .009946 | .06126 | .0009324 | .0004822 | .3658 | .0029899 | .0007905 |
| %RSD | .2789478 | .5438661 | .1776486 | .6490149 | .3376492 | .9394464 | .1725243 |
| #1 | 3.576138 | 11.28223 | .5247055 | .0744396 | 108.0198 | .3154808 | .4579067 |
| #2 | 3.556388 | 11.31420 | .5239875 | .0737541 | 108.2402 | .3178816 | .4590925 |
| #3 | 3.564203 | 11.19578 | .5258369 | .0746843 | 108.7341 | .3214242 | .4575941 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **47.18572** | **.3740403** | **.4640683** | **.7059024** | **.2123980** | **10.01274** | **6.098130** |
| Stddev | .05399 | .0021961 | .0008196 | .0032111 | .0018912 | .06877 | .028486 |
| %RSD | .1144241 | .5871250 | .1766110 | .4548967 | .8903833 | .6868620 | .4671263 |
| #1 | 47.19292 | .3759046 | .4631551 | .7044894 | .2139219 | 9.98028 | 6.066671 |
| #2 | 47.12849 | .3745967 | .4643096 | .7036400 | .2102815 | 9.96620 | 6.105542 |
| #3 | 47.23576 | .3716195 | .4647401 | .7095777 | .2129905 | 10.09174 | 6.122178 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: Q2756-01A Acquired: 8/4/2025 17:37:20 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | 3.363746 | .1919704 | .9413001 |
| Stddev | .010991 | .0027209 | .0029028 |
| %RSD | .3267362 | 1.417345 | .3083859 |
| #1 | 3.355743 | .1950439 | .9445878 |
| #2 | 3.359218 | .1909979 | .9402221 |
| #3 | 3.376277 | .1898695 | .9390906 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5547.961 | 96082.55 | 8339.612 | 4674.941 | 6641.222 |
| Stddev | 10.128 | 145.27 | 16.817 | 15.966 | 13.657 |
| %RSD | .1825618 | .1511883 | .2016494 | .3415214 | .2056405 |
| #1 | 5558.292 | 96238.66 | 8323.283 | 4689.015 | 6653.107 |
| #2 | 5547.541 | 96057.63 | 8338.675 | 4657.592 | 6644.256 |
| #3 | 5538.048 | 95951.35 | 8356.877 | 4678.217 | 6626.304 |

Sample Name: CCV06 Acquired: 8/4/2025 17:41:17 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **5.207554** | F **5.644167** | **4.947107** | **5.375657** | **5.335246** | **10.17259** |
| Stddev | .010264 | .147212 | .006867 | .024157 | .022224 | .01373 |
| %RSD | .1971023 | 2.608211 | .1388038 | .4493863 | .4165545 | .1349346 |
| #1 | 5.215380 | 5.806622 | 4.945209 | 5.403114 | 5.325127 | 10.15677 |
| #2 | 5.195933 | 5.519608 | 4.941389 | 5.357667 | 5.319882 | 10.17963 |
| #3 | 5.211350 | 5.606271 | 4.954724 | 5.366190 | 5.360729 | 10.18137 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.48390** | **.2569625** | **2.456395** | **25.96603** | **.9816118** | **2.474372** |
| Stddev | .10991 | .0006316 | .004279 | .10327 | .0060713 | .003413 |
| %RSD | 1.048406 | .2457765 | .1741914 | .3977045 | .6185085 | .1379510 |
| #1 | 10.56170 | .2572847 | 2.459778 | 26.05919 | .9884492 | 2.475726 |
| #2 | 10.53183 | .2573681 | 2.451585 | 25.98392 | .9768518 | 2.470490 |
| #3 | 10.35816 | .2562349 | 2.457822 | 25.85499 | .9795346 | 2.476901 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.263441** | **5.210934** | **2.573160** | **24.83924** | **2.480082** | **1.302802** |
| Stddev | .001756 | .055596 | .002870 | .04237 | .003887 | .010940 |
| %RSD | .1389562 | 1.066919 | .1115554 | .1705866 | .1567160 | .8397305 |
| #1 | 1.265124 | 5.264695 | 2.576422 | 24.87532 | 2.483159 | 1.315225 |
| #2 | 1.261621 | 5.153668 | 2.572037 | 24.79258 | 2.475714 | 1.294604 |
| #3 | 1.263580 | 5.214438 | 2.571021 | 24.84982 | 2.481372 | 1.298578 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **24.62369** | **2.551277** | **2.608871** | **26.64902** | **5.183090** | **5.233687** |
| Stddev | .25104 | .009301 | .021695 | .22955 | .010968 | .015200 |
| %RSD | 1.019490 | .3645611 | .8315860 | .8613920 | .2116176 | .2904175 |
| #1 | 24.84951 | 2.561696 | 2.633921 | 26.91047 | 5.183499 | 5.249362 |
| #2 | 24.35338 | 2.543811 | 2.596135 | 26.48053 | 5.193848 | 5.219012 |
| #3 | 24.66817 | 2.548326 | 2.596558 | 26.55605 | 5.171923 | 5.232688 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: CCV06 Acquired: 8/4/2025 17:41:17 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **5.002160** | **5.247242** | **5.167543** | **4.748392** | **5.048424** | **5.009154** |
| Stddev | .013804 | .023049 | .053569 | .020304 | .015739 | .014447 |
| %RSD | .2759628 | .4392585 | 1.036646 | .4275948 | .3117689 | .2884110 |
| #1 | 5.014115 | 5.268161 | 5.201187 | 4.755037 | 5.055910 | 5.016127 |
| #2 | 4.987052 | 5.251033 | 5.105769 | 4.725598 | 5.030339 | 4.992543 |
| #3 | 5.005313 | 5.222533 | 5.195675 | 4.764541 | 5.059024 | 5.018792 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | **5.160484** |
| Stddev | .044414 |
| %RSD | .8606636 |
| #1 | 5.188907 |
| #2 | 5.109303 |
| #3 | 5.183241 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5494.899** | **92713.57** | **8036.789** | **4582.226** | **6548.755** |
| Stddev | 5.259 | 708.56 | 50.269 | 46.960 | 7.857 |
| %RSD | .0956981 | .7642462 | .6254847 | 1.024832 | .1199739 |
| #1 | 5489.712 | 91895.88 | 8024.540 | 4531.648 | 6542.097 |
| #2 | 5494.760 | 93097.89 | 7993.777 | 4590.585 | 6546.748 |
| #3 | 5500.226 | 93146.93 | 8092.050 | 4624.446 | 6557.421 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: CCB06 Acquired: 8/4/2025 17:45:26 Type: Unk
Method: 6010-200.7 NEW(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.001953** | **-.003278** | **-.000272** | **-.001002** | **.0009781** | **-.005556** | **-.001641** |
| Stddev | .002405 | .001456 | .001300 | .003586 | .0017039 | .006302 | .000408 |
| %RSD | 123.1707 | 44.41983 | 477.9699 | 357.8611 | 174.2140 | 113.4290 | 24.87114 |
| #1 | -.001426 | -.004833 | -.001030 | -.001099 | .0015423 | .001654 | -.001343 |
| #2 | .000145 | -.003053 | -.001015 | -.004539 | .0023282 | -.010016 | -.002107 |
| #3 | -.004578 | -.001947 | .001229 | .002632 | -.000936 | -.008306 | -.001475 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000067** | **-.000010** | **.0123406** | **-.001365** | **.0000370** | **.0001671** | **-.004097** |
| Stddev | .000020 | .000073 | .0054762 | .000102 | .0000857 | .0004070 | .005688 |
| %RSD | 29.07712 | 761.7588 | 44.37542 | 7.471912 | 231.5531 | 243.5202 | 138.8313 |
| #1 | -.000072 | .000063 | .0178040 | -.001454 | -.000033 | -.000247 | -.010627 |
| #2 | -.000084 | -.000008 | .0123660 | -.001386 | .000012 | .000183 | -.001445 |
| #3 | -.000046 | -.000083 | .0068517 | -.001253 | .000132 | .000566 | -.000220 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.001748** | **.0197872** | **-.000056** | **.0003345** | **.4808028** | **-.000893** | **-.001483** |
| Stddev | .000061 | .0092507 | .000253 | .0002591 | .0118931 | .003777 | .000179 |
| %RSD | 3.503249 | 46.75085 | 449.4302 | 77.45057 | 2.473585 | 422.7134 | 12.07669 |
| #1 | -.001693 | .0208723 | .000217 | .0002520 | .4801000 | -.004559 | -.001389 |
| #2 | -.001814 | .0100418 | -.000281 | .0001267 | .4930316 | -.001107 | -.001372 |
| #3 | -.001736 | .0284474 | -.000105 | .0006248 | .4692767 | .002985 | -.001690 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7273479** | **-.001623** | **.0005332** | **-.000918** | **-.000185** | **-.001517** | **.0011179** |
| Stddev | .0052620 | .000571 | .0001027 | .000455 | .000794 | .010933 | .0009549 |
| %RSD | .7234461 | 35.20468 | 19.25368 | 49.58882 | 428.2939 | 720.6270 | 85.42216 |
| #1 | .7334011 | -.001134 | .0006424 | -.000906 | -.000630 | .009927 | .0005516 |
| #2 | .7247771 | -.002251 | .0005186 | -.000469 | .000732 | -.011855 | .0022204 |
| #3 | .7238656 | -.001484 | .0004387 | -.001378 | -.000659 | -.002624 | .0005816 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: CCB06 Acquired: 8/4/2025 17:45:26 Type: Unk
Method: 6010-200.7 NEW(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB06 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0011899 | .0017796 | -.000075 |
| Stddev | .0006709 | .0004319 | .000023 |
| %RSD | 56.38081 | 24.26922 | 31.12434 |
| #1 | .0015758 | .0013542 | -.000060 |
| #2 | .0015786 | .0017668 | -.000063 |
| #3 | .0004152 | .0022177 | -.000102 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5703.553 | 98376.85 | 8067.648 | 4791.889 | 7374.489 |
| Stddev | 10.647 | 441.68 | 57.211 | 29.602 | 14.215 |
| %RSD | .1866792 | .4489648 | .7091464 | .6177542 | .1927632 |
| #1 | 5697.221 | 97891.61 | 8097.315 | 4758.949 | 7367.984 |
| #2 | 5715.846 | 98483.51 | 8103.933 | 4816.266 | 7390.792 |
| #3 | 5697.593 | 98755.43 | 8001.697 | 4800.452 | 7364.689 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: PB169098BL Acquired: 8/4/2025 17:49:45 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **-.001420** | **-.002579** | **-.000651** | **-.003239** | **-.001169** | **-.004212** | **-.002683** |
| Stddev | .000540 | .001454 | .001248 | .003756 | .000484 | .012100 | .000148 |
| %RSD | 38.00381 | 56.39078 | 191.7216 | 115.9394 | 41.45136 | 287.2963 | 5.511282 |
| #1 | -.000945 | -.003325 | -.001800 | -.004377 | -.001028 | -.007112 | -.002697 |
| #2 | -.001309 | -.000903 | -.000830 | .000954 | -.001708 | -.014598 | -.002824 |
| #3 | -.002007 | -.003509 | .000677 | -.006295 | -.000770 | .009075 | -.002529 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000067** | **-.000007** | **-.004343** | **-.001327** | **.0001634** | **-.000222** | **-.012412** |
| Stddev | .000040 | .000058 | .005282 | .000245 | .0001059 | .000430 | .003681 |
| %RSD | 60.20735 | 773.1005 | 121.6425 | 18.47547 | 64.83980 | 193.8757 | 29.65869 |
| #1 | -.000076 | .000012 | -.009049 | -.001158 | .0001459 | .000245 | -.013565 |
| #2 | -.000023 | -.000072 | -.005350 | -.001214 | .0000673 | -.000309 | -.008292 |
| #3 | -.000101 | .000038 | .001371 | -.001608 | .0002770 | -.000601 | -.015379 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.001709** | **.0210407** | **.0003974** | **.0007210** | **.3002081** | **-.004211** | **-.001313** |
| Stddev | .000431 | .0016385 | .0004888 | .0005602 | .0113580 | .001257 | .000241 |
| %RSD | 25.19744 | 7.787496 | 122.9924 | 77.70040 | 3.783364 | 29.84614 | 18.37986 |
| #1 | -.001239 | .0194739 | .0009530 | .0010216 | .3031495 | -.005649 | -.001079 |
| #2 | -.002085 | .0209056 | .0002054 | .0010666 | .3098061 | -.003318 | -.001561 |
| #3 | -.001802 | .0227427 | .0000338 | .0000746 | .2876688 | -.003667 | -.001299 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.4723482** | **-.004207** | **.0001235** | **-.000740** | **.0001848** | **-.008228** | **.0034968** |
| Stddev | .0278525 | .001149 | .0001008 | .000327 | .0011743 | .010636 | .0013830 |
| %RSD | 5.896595 | 27.32021 | 81.58071 | 44.19209 | 635.3455 | 129.2635 | 39.55121 |
| #1 | .4403612 | -.005534 | .0000693 | -.001117 | -.000862 | -.012671 | .0028865 |
| #2 | .4854461 | -.003562 | .0000615 | -.000571 | -.000038 | .003909 | .0050801 |
| #3 | .4912373 | -.003526 | .0002398 | -.000532 | .001455 | -.015922 | .0025239 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: PB169098BL Acquired: 8/4/2025 17:49:45 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | -.000189 | -.004310 | -.000047 |
| Stddev | .002098 | .001590 | .000110 |
| %RSD | 1112.285 | 36.89291 | 233.9617 |
| | | | |
| #1 | -.000199 | -.002869 | -.000069 |
| #2 | -.002281 | -.006016 | .000072 |
| #3 | .001915 | -.004045 | -.000145 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5701.019 | 97998.73 | 8156.370 | 4790.984 | 7383.226 |
| Stddev | 12.150 | 107.56 | 65.638 | 19.314 | 22.343 |
| %RSD | .2131210 | .1097548 | .8047443 | .4031315 | .3026173 |
| | | | | | |
| #1 | 5699.376 | 98049.83 | 8125.308 | 4812.983 | 7383.569 |
| #2 | 5713.907 | 98071.22 | 8231.773 | 4776.816 | 7405.395 |
| #3 | 5689.774 | 97875.15 | 8112.028 | 4783.152 | 7360.713 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: PB169098BS Acquired: 8/4/2025 17:54:04 Type: Unk
Method: 6010-200.7 NEW(v81) 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 | **.8286884** | **2.268502** | **.9873966** | **2.146380** | **.8682653** | **2.098414** | **.2156878** |
| Stddev | .0035818 | .059139 | .0040384 | .012312 | .0022161 | .010199 | .0006649 |
| %RSD | .4322261 | 2.606981 | .4089995 | .5735997 | .2552341 | .4860446 | .3082749 |
| #1 | .8292880 | 2.273645 | .9876906 | 2.144748 | .8691944 | 2.110159 | .2151837 |
| #2 | .8248447 | 2.206959 | .9832191 | 2.134966 | .8657359 | 2.093293 | .2154384 |
| #3 | .8319327 | 2.324902 | .9912799 | 2.159427 | .8698657 | 2.091790 | .2164414 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2158895** | **.1946567** | **1.097595** | **.4003897** | **.2017913** | **.3198428** | **3.117149** |
| Stddev | .0009104 | .0005849 | .012615 | .0020871 | .0005029 | .0008979 | .019873 |
| %RSD | .4217086 | .3004939 | 1.149300 | .5212765 | .2492358 | .2807435 | .6375385 |
| #1 | .2149280 | .1943149 | 1.083474 | .3996795 | .2013563 | .3199476 | 3.127775 |
| #2 | .2167385 | .1943231 | 1.101563 | .3987503 | .2016755 | .3188970 | 3.094222 |
| #3 | .2160019 | .1953321 | 1.107749 | .4027393 | .2023420 | .3206837 | 3.129451 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2145582** | **2.073511** | **.5070696** | **.0797174** | **3.125107** | **.3147398** | **.2144790** |
| Stddev | .0005428 | .009966 | .0011048 | .0002964 | .008516 | .0031911 | .0010143 |
| %RSD | .2529889 | .4806527 | .2178781 | .3718103 | .2725148 | 1.013888 | .4729191 |
| #1 | .2148245 | 2.062047 | .5064280 | .0800043 | 3.134819 | .3114339 | .2149394 |
| #2 | .2149164 | 2.080122 | .5064355 | .0794124 | 3.118917 | .3178021 | .2133161 |
| #3 | .2139337 | 2.078363 | .5083453 | .0797356 | 3.121583 | .3149833 | .2151814 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **10.39477** | **.3143765** | **.4320874** | **.6986423** | **.2095401** | **.8563865** | **5.470143** |
| Stddev | .08582 | .0004240 | .0006989 | .0020346 | .0022852 | .0142156 | .011452 |
| %RSD | .8255843 | .1348725 | .1617412 | .2912161 | 1.090589 | 1.659947 | .2093554 |
| #1 | 10.49266 | .3148365 | .4327755 | .6987005 | .2114854 | .8688553 | 5.475571 |
| #2 | 10.33247 | .3140013 | .4313783 | .6965792 | .2070234 | .8409066 | 5.456986 |
| #3 | 10.35919 | .3142916 | .4321084 | .7006471 | .2101115 | .8593975 | 5.477872 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: PB169098BS Acquired: 8/4/2025 17:54:04 Type: Unk
Method: 6010-200.7 NEW(v81) 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 -.002496 | .1963459 | .2113864 |
| Stddev | .000217 | .0025605 | .0002282 |
| %RSD | 8.681902 | 1.304098 | .1079485 |
| #1 | -.002337 | .1992230 | .2116449 |
| #2 | -.002743 | .1943173 | .2113016 |
| #3 | -.002409 | .1954975 | .2112128 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5692.692 | 98467.77 | 8131.479 | 4837.914 | 7133.981 |
| Stddev | 6.965 | 365.86 | 40.641 | 10.711 | 10.185 |
| %RSD | .1223563 | .3715567 | .4997949 | .2213934 | .1427728 |
| #1 | 5690.023 | 98309.71 | 8172.745 | 4825.552 | 7140.378 |
| #2 | 5700.597 | 98886.09 | 8091.494 | 4844.425 | 7139.329 |
| #3 | 5687.457 | 98207.50 | 8130.197 | 4843.765 | 7122.236 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: CCV07 Acquired: 8/4/2025 17:58:04 Type: Unk
Method: 6010-200.7 NEW(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **5.177838** | **5.474469** | **4.953695** | **5.296073** | **5.301003** | **10.17227** | **10.48381** |
| Stddev | .026512 | .180847 | .026838 | .040153 | .029469 | .02762 | .15564 |
| %RSD | .5120189 | 3.303456 | .5417707 | .7581691 | .5559043 | .2715639 | 1.484566 |
| #1 | 5.172757 | 5.456542 | 4.962264 | 5.300733 | 5.300638 | 10.18527 | 10.30933 |
| #2 | 5.154235 | 5.303254 | 4.923620 | 5.253793 | 5.271718 | 10.19100 | 10.60835 |
| #3 | 5.206522 | 5.663612 | 4.975202 | 5.333693 | 5.330652 | 10.14055 | 10.53374 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2569703** | **2.461921** | **26.04076** | **.9664635** | **2.481171** | **1.263141** | **5.152231** |
| Stddev | .0014204 | .013122 | .08211 | .0039601 | .014018 | .006137 | .008165 |
| %RSD | .5527449 | .5329903 | .3153010 | .4097482 | .5649780 | .4858770 | .1584696 |
| #1 | .2565559 | 2.465959 | 25.98485 | .9687748 | 2.483938 | 1.264321 | 5.146180 |
| #2 | .2585518 | 2.447255 | 26.13503 | .9687248 | 2.465975 | 1.256499 | 5.148997 |
| #3 | .2558031 | 2.472550 | 26.00241 | .9618909 | 2.493599 | 1.268602 | 5.161518 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.572244** | **24.80999** | **2.486178** | **1.284916** | **24.57227** | **2.562872** | **2.581289** |
| Stddev | .011048 | .06080 | .014211 | .004054 | .04437 | .008511 | .010749 |
| %RSD | .4295062 | .2450708 | .5716087 | .3154972 | .1805493 | .3320874 | .4164380 |
| #1 | 2.564406 | 24.75147 | 2.491141 | 1.284018 | 24.58115 | 2.562195 | 2.577256 |
| #2 | 2.584880 | 24.80564 | 2.470150 | 1.289343 | 24.61153 | 2.571701 | 2.593472 |
| #3 | 2.567447 | 24.87284 | 2.497241 | 1.281386 | 24.52414 | 2.554719 | 2.573140 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **25.84841** | **5.166863** | **5.241326** | **4.999842** | **5.254931** | **5.046844** | **4.776803** |
| Stddev | .02248 | .031885 | .028879 | .036383 | .019536 | .044678 | .017195 |
| %RSD | .0869566 | .6171008 | .5509899 | .7276741 | .3717719 | .8852629 | .3599759 |
| #1 | 25.82325 | 5.161252 | 5.242075 | 5.006863 | 5.248105 | 4.995394 | 4.776169 |
| #2 | 25.86653 | 5.201181 | 5.212080 | 4.960460 | 5.276964 | 5.075850 | 4.759934 |
| #3 | 25.85544 | 5.138156 | 5.269824 | 5.032202 | 5.239723 | 5.069289 | 4.794307 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: CCV07 Acquired: 8/4/2025 17:58:04 Type: Unk
Method: 6010-200.7 NEW(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCV07 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | **4.983798** | **4.979217** | **5.318714** |
| Stddev | .046037 | .012482 | .026097 |
| %RSD | .9237243 | .2506840 | .4906636 |
| | | | |
| #1 | 4.976446 | 4.979340 | 5.291894 |
| #2 | 4.941880 | 4.991637 | 5.320227 |
| #3 | 5.033069 | 4.966674 | 5.344022 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5486.677** | **94057.46** | **8004.828** | **4600.312** | **6536.840** |
| Stddev | 17.107 | 269.64 | 31.924 | 27.927 | 29.431 |
| %RSD | .3117924 | .2866786 | .3988143 | .6070693 | .4502334 |
| | | | | | |
| #1 | 5480.655 | 94360.19 | 8039.497 | 4631.920 | 6522.599 |
| #2 | 5505.981 | 93843.06 | 7976.644 | 4578.976 | 6570.682 |
| #3 | 5473.396 | 93969.13 | 7998.343 | 4590.039 | 6517.238 |

Reviewed By:jaswal
On:8/6/2025 7:45:51 AM
Inst Id :P4
LB :LB136697

Sample Name: CCB07 Acquired: 8/4/2025 18:02:15 Type: Unk
Method: 6010-200.7 NEW(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

| Elem | As1890 | Tl1908 | Pb2203 | Se1960 | Sb2068 | Al3961 | Ba4934 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0003154** | **-.002479** | **-.000834** | **-.003447** | **-.000736** | **-.009617** | **-.000774** |
| Stddev | .0006361 | .000783 | .000542 | .001676 | .000642 | .006835 | .000981 |
| %RSD | 201.6825 | 31.57573 | 64.96223 | 48.62870 | 87.26483 | 71.07513 | 126.7226 |
| #1 | .0000245 | -.001783 | -.000271 | -.002763 | -.001199 | -.011558 | -.000256 |
| #2 | -.000123 | -.003327 | -.000879 | -.002221 | -.001005 | -.015272 | -.000161 |
| #3 | .001045 | -.002328 | -.001352 | -.005357 | -.000003 | -.002021 | -.001906 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000054** | **.0000113** | **.0044678** | **-.001335** | **-.000004** | **-.000138** | **-.008404** |
| Stddev | .000082 | .0000438 | .0002733 | .000198 | .000061 | .000245 | .001995 |
| %RSD | 152.9065 | 388.6179 | 6.117116 | 14.81870 | 1511.276 | 177.7802 | 23.74360 |
| #1 | -.000033 | -.000001 | .0041566 | -.001421 | .000035 | -.000314 | -.010443 |
| #2 | .000016 | .000060 | .0045783 | -.001475 | .000027 | .000142 | -.006456 |
| #3 | -.000144 | -.000025 | .0046686 | -.001109 | -.000074 | -.000241 | -.008312 |

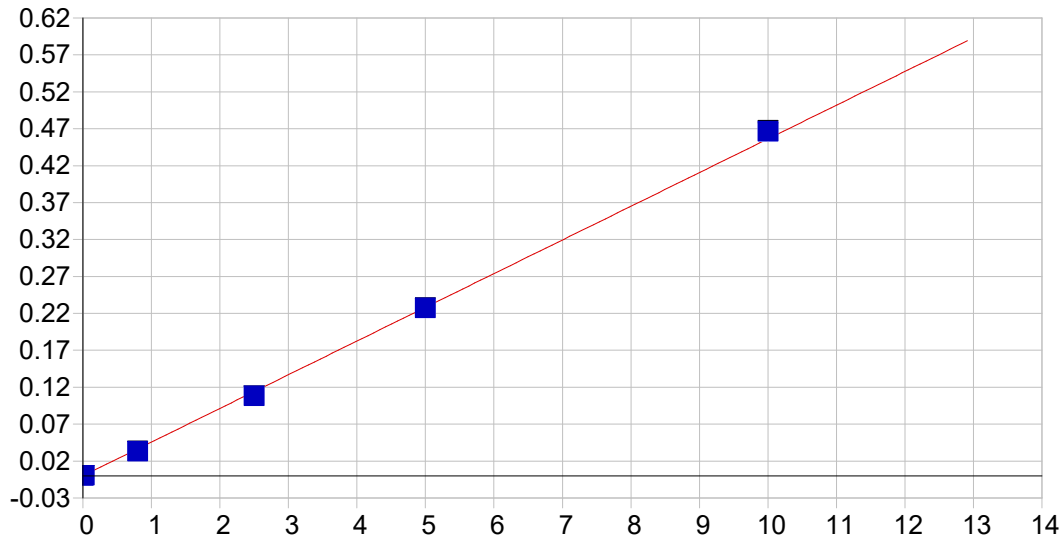
| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.001592** | **.0137549** | **-.000004** | **.0011277** | **.1957975** | **-.000641** | **-.001413** |
| Stddev | .000016 | .0065219 | .000416 | .0002933 | .0046831 | .001393 | .000232 |
| %RSD | 1.030069 | 47.41536 | 11772.67 | 26.00754 | 2.391801 | 217.3655 | 16.41956 |
| #1 | -.001602 | .0062634 | -.000478 | .0008234 | .1921041 | -.002126 | -.001150 |
| #2 | -.001600 | .0181670 | .000297 | .0011513 | .2010648 | -.000434 | -.001590 |
| #3 | -.001573 | .0168343 | .000170 | .0014085 | .1942236 | .000637 | -.001498 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3810149** | **-.000114** | **.0006969** | **-.001076** | **.0006125** | **.0023695** | **.0030818** |
| Stddev | .0327118 | .001236 | .0001739 | .000486 | .0014604 | .0154246 | .0023761 |
| %RSD | 8.585433 | 1079.514 | 24.95673 | 45.20890 | 238.4421 | 650.9647 | 77.09959 |
| #1 | .3608147 | -.000112 | .0006954 | -.001576 | .0022216 | -.006727 | .0023761 |
| #2 | .4187559 | -.001352 | .0008716 | -.000605 | -.000629 | .020179 | .0057308 |
| #3 | .3634739 | .001120 | .0005238 | -.001047 | .000245 | -.006343 | .0011386 |

Sample Name: CCB07 Acquired: 8/4/2025 18:02:15 Type: Unk
Method: 6010-200.7 NEW(v81) Mode: CONC Corr. Factor: 1.000000
User: Jaswal Custom ID1: CCB07 Custom ID2: Custom ID3:
Comment:

| Elem | S_1820 | Li6707 | Sr4077 |
|---|---|---|---|
| Units | ppm | ppm | ppm |
| Avg | .0001190 | -.006649 | -.000090 |
| Stddev | .0010541 | .002446 | .000082 |
| %RSD | 886.1925 | 36.78502 | 90.12106 |
| #1 | .0008696 | -.004955 | .000004 |
| #2 | .0005734 | -.005540 | -.000139 |
| #3 | -.001086 | -.009454 | -.000136 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5697.260 | 98863.27 | 7984.403 | 4836.340 | 7346.968 |
| Stddev | 11.429 | 238.71 | 84.235 | 4.279 | 9.936 |
| %RSD | .2006033 | .2414544 | 1.054993 | .0884861 | .1352434 |
| #1 | 5689.385 | 98589.03 | 7983.503 | 4839.701 | 7337.028 |
| #2 | 5710.369 | 98976.36 | 7900.622 | 4837.797 | 7356.900 |
| #3 | 5692.027 | 99024.42 | 8069.084 | 4831.522 | 7346.978 |

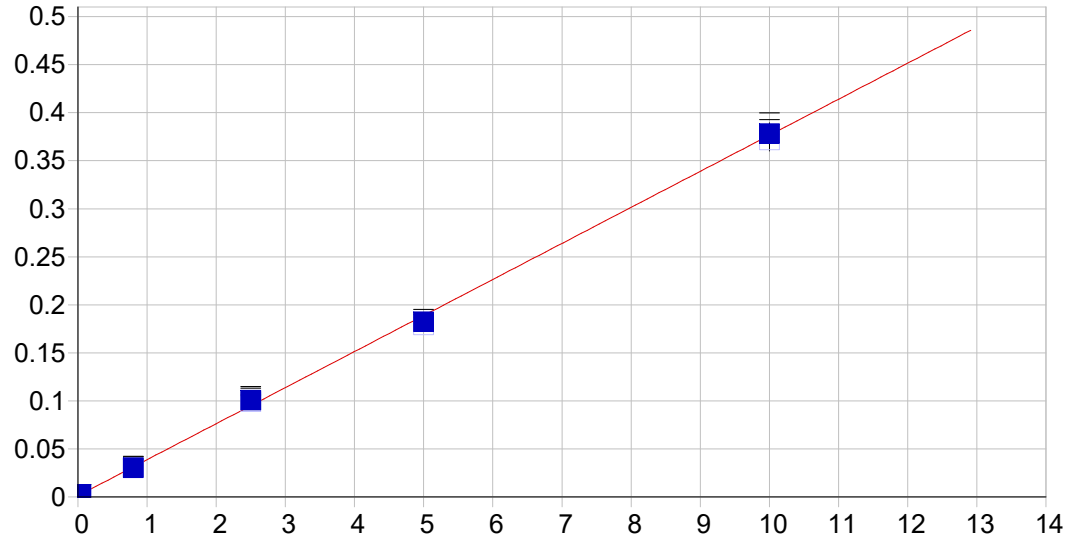



**As 189.042 {479}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000009 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.045627 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999494 | Status: | OK. |
| Std Error of Est: | 0.000034 | | |
| Predicted MDL: | 0.002519 | | |
| Predicted MQL: | 0.008396 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00001 | .000 | 1 |
| S1 | .02000 | .01812 | -.002 | -9.39 | .00083 | .000 | 1 |
| S3 | 2.5000 | 2.3721 | -.128 | -5.11 | .10812 | .000 | 1 |
| S4 | 5.0000 | 4.9810 | -.019 | -.381 | .22703 | .000 | 1 |
| S5 | 10.000 | 10.222 | .222 | 2.22 | .46594 | .001 | 1 |
| S2 | .80000 | .72629 | -.074 | -9.21 | .03311 | .000 | 1 |

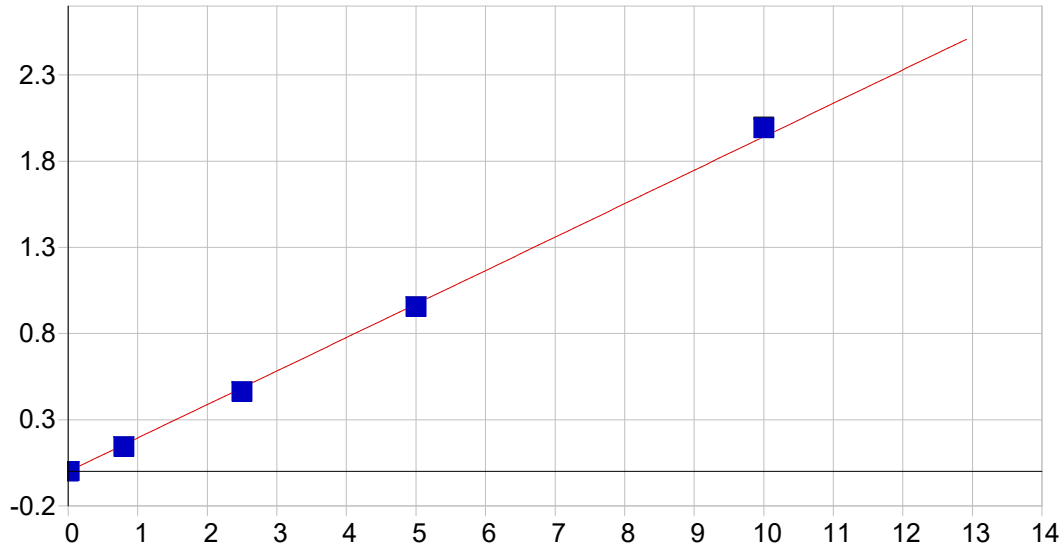



**Tl 190.856 {477}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.001211 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.037530 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999538 | Status: | OK. |
| Std Error of Est: | 0.000037 | | |
| Predicted MDL: | 0.003344 | | |
| Predicted MQL: | 0.011148 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00121 | .000 | 1 |
| S1 | .04000 | .03614 | -.004 | -9.65 | .00247 | .000 | 1 |
| S3 | 2.5000 | 2.6524 | .152 | 6.10 | .09904 | .004 | 1 |
| S4 | 5.0000 | 4.8277 | -.172 | -3.45 | .17897 | .003 | 1 |
| S5 | 10.000 | 10.045 | .045 | .446 | .37134 | .011 | 1 |
| S2 | .80000 | .77892 | -.021 | -2.63 | .02990 | .002 | 1 |

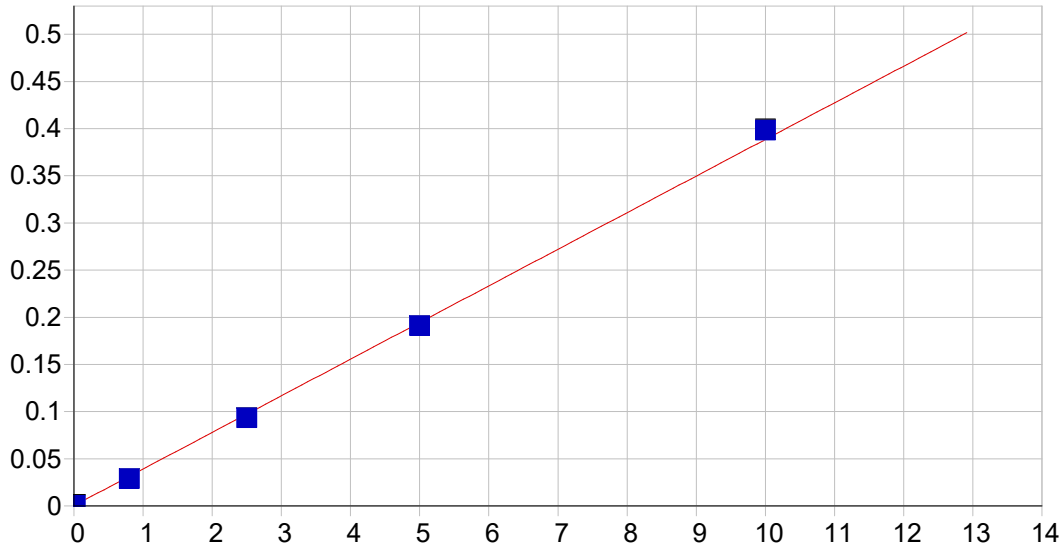



**Pb 220.353 {453}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000137 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.194146 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999475 | Status: | OK. |
| Std Error of Est: | 0.000114 | | |
| Predicted MDL: | 0.001472 | | |
| Predicted MQL: | 0.004908 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00014 | .000 | 1 |
| S1 | .01200 | .01142 | -.001 | -4.82 | .00231 | .000 | 1 |
| S3 | 2.5000 | 2.3813 | -.119 | -4.75 | .46195 | .001 | 1 |
| S4 | 5.0000 | 4.9210 | -.079 | -1.58 | .95453 | .001 | 1 |
| S5 | 10.000 | 10.264 | .264 | 2.64 | 1.9908 | .005 | 1 |
| S2 | .80000 | .73465 | -.065 | -8.17 | .14261 | .000 | 1 |

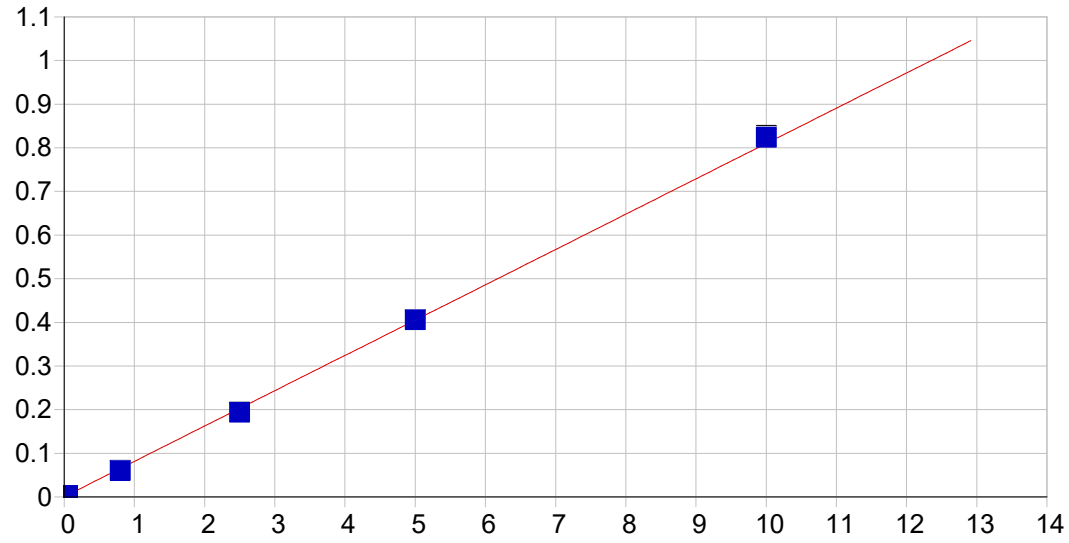



**Se 196.090 {472}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000300 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.038827 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999513 | Status: | OK. |
| Std Error of Est: | 0.000028 | | |
| Predicted MDL: | 0.003689 | | |
| Predicted MQL: | 0.012295 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00030 | .000 | 1 |
| S1 | .02000 | .02247 | .002 | 12.4 | .00117 | .000 | 1 |
| S3 | 2.5000 | 2.3992 | -.101 | -4.03 | .09343 | .000 | 1 |
| S4 | 5.0000 | 4.9126 | -.087 | -1.75 | .19099 | .000 | 1 |
| S5 | 10.000 | 10.252 | .252 | 2.52 | .39827 | .001 | 1 |
| S2 | .80000 | .73330 | -.067 | -8.34 | .02876 | .000 | 1 |

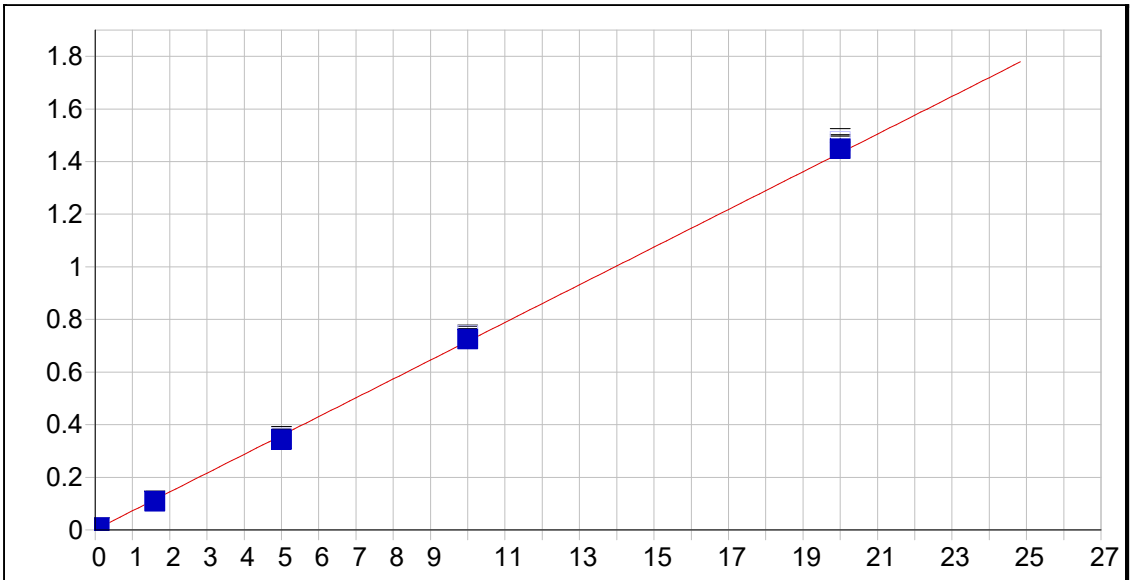



**Sb 206.833 {463}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000509 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.080925 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999652 | Status: | OK. |
| Std Error of Est: | 0.000079 | | |
| Predicted MDL: | 0.002293 | | |
| Predicted MQL: | 0.007645 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | .00051 | .000 | 1 |
| S1 | .05000 | .04897 | -.001 | -2.06 | .00448 | .000 | 1 |
| S3 | 2.5000 | 2.3848 | -.115 | -4.61 | .19405 | .000 | 1 |
| S4 | 5.0000 | 5.0016 | .002 | .033 | .40636 | .000 | 1 |
| S5 | 10.000 | 10.174 | .174 | 1.74 | .82607 | .002 | 1 |
| S2 | .80000 | .74011 | -.060 | -7.49 | .06058 | .000 | 1 |

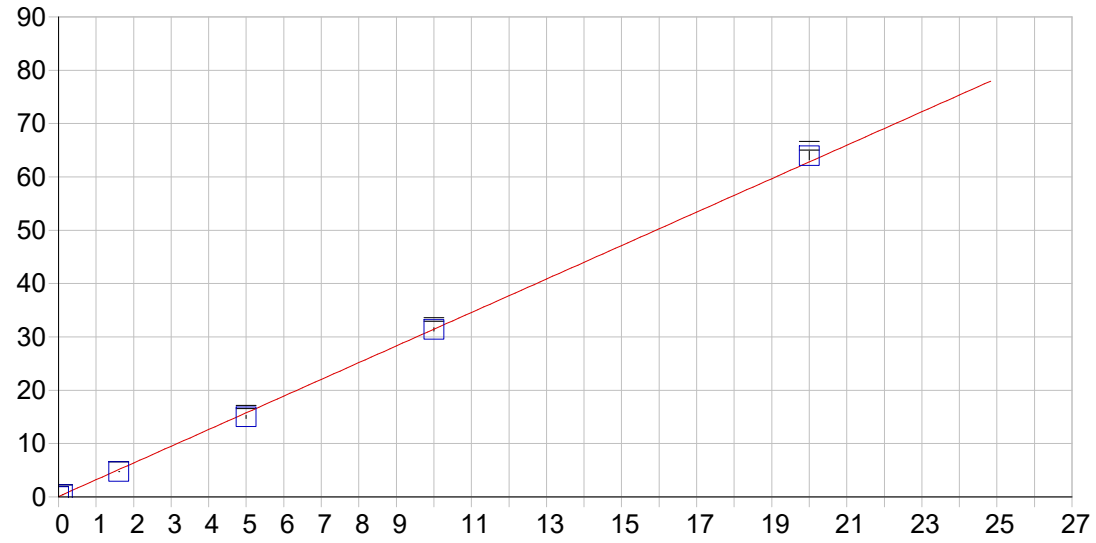



**Al 396.152 { 85}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000969 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.071598 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999741 | Status: | OK. |
| Std Error of Est: | 0.000123 | | |
| Predicted MDL: | 0.014618 | | |
| Predicted MQL: | 0.048728 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | .00097 | .001 | 1 |
| S1 | .10000 | .09866 | -.001 | -1.34 | .00859 | .000 | 1 |
| S3 | 5.0000 | 4.7726 | -.227 | -4.55 | .34963 | .005 | 1 |
| S4 | 10.000 | 10.107 | .107 | 1.07 | .73850 | .002 | 1 |
| S5 | 20.000 | 20.219 | .219 | 1.10 | 1.4764 | .012 | 1 |
| S2 | 1.6000 | 1.5028 | -.097 | -6.07 | .11079 | .002 | 1 |

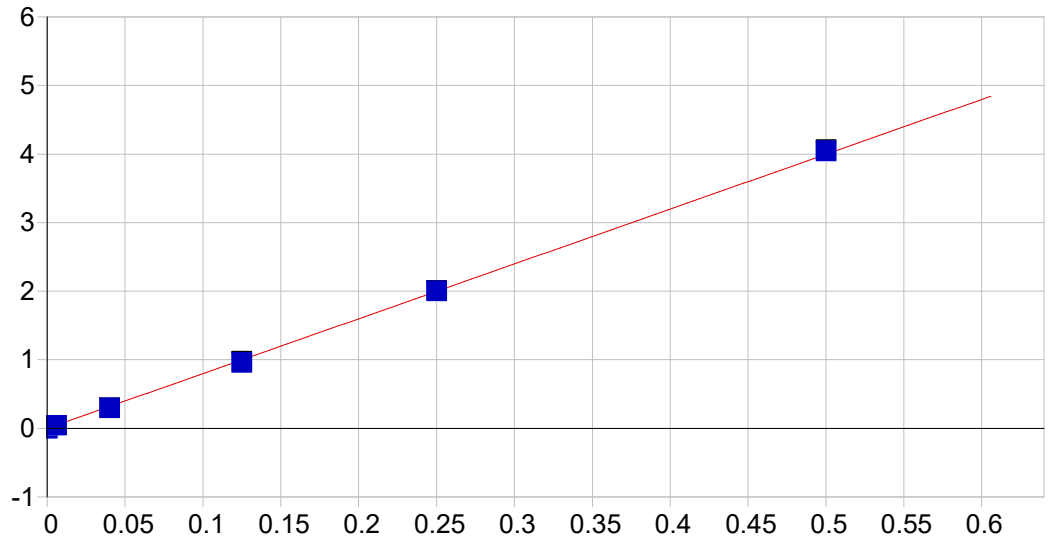



**Ba 493.409 { 68}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.086671 | Re-Slope: | 1.000000 |
| A1 (Gain): | 3.135895 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999628 | Status: | OK. |
| Std Error of Est: | 0.006347 | | |
| Predicted MDL: | 0.000871 | | |
| Predicted MQL: | 0.002904 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | .08670 | .004 | 1 |
| S1 | .10000 | .10049 | .000 | .493 | .40181 | .004 | 1 |
| S3 | 5.0000 | 4.7582 | -.242 | -4.84 | 15.008 | .319 | 1 |
| S4 | 10.000 | 9.9811 | -.019 | -.189 | 31.386 | .324 | 1 |
| S5 | 20.000 | 20.377 | .377 | 1.88 | 63.986 | .835 | 1 |
| S2 | 1.6000 | 1.4833 | -.117 | -7.29 | 4.7381 | .019 | 1 |

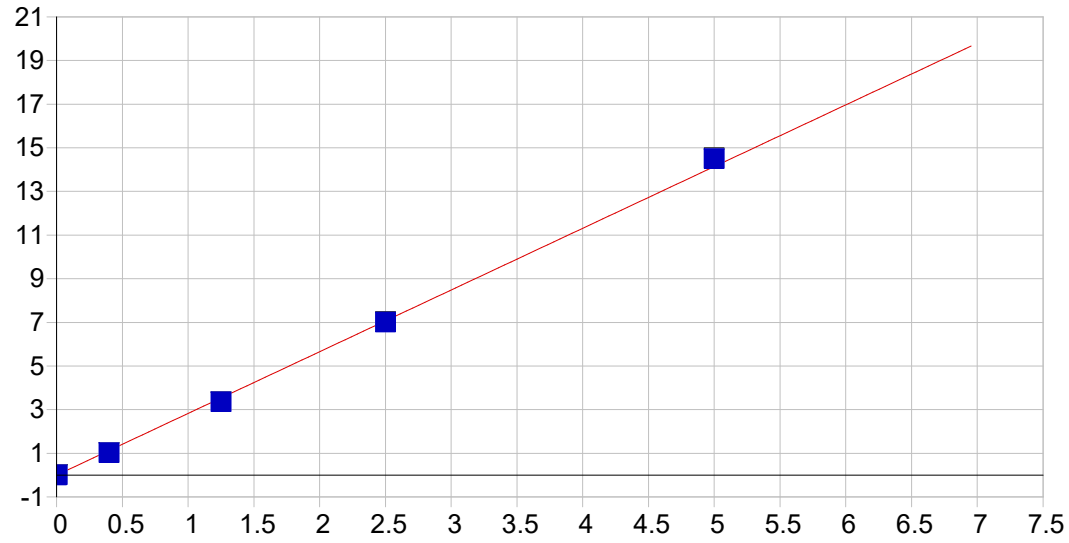



**Be 234.861 {144}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.001455 | Re-Slope: | 1.000000 |
| A1 (Gain): | 7.996752 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999761 | Status: | OK. |
| Std Error of Est: | 0.000500 | | |
| Predicted MDL: | 0.000079 | | |
| Predicted MQL: | 0.000262 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00145 | .001 | 1 |
| S1 | .00600 | .00593 | -.000 | -1.17 | .04561 | .001 | 1 |
| S3 | .12500 | .12023 | -.005 | -3.82 | .95548 | .020 | 1 |
| S4 | .25000 | .25067 | .001 | .267 | 1.9941 | .008 | 1 |
| S5 | .50000 | .50671 | .007 | 1.34 | 4.0327 | .015 | 1 |
| S2 | .04000 | .03747 | -.003 | -6.34 | .29671 | .003 | 1 |

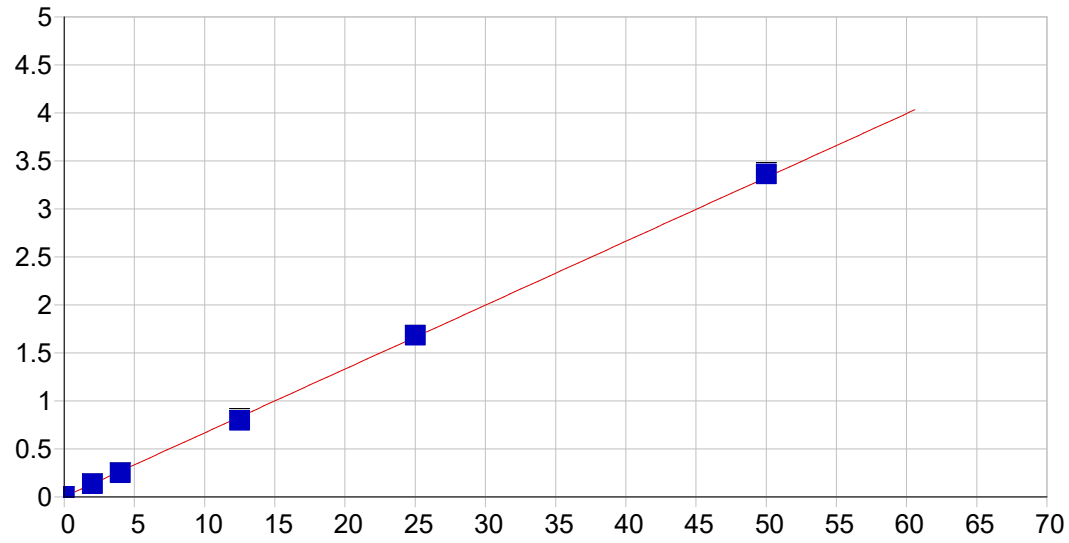



**Cd 226.502 {449}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000314 | Re-Slope: | 1.000000 |
| A1 (Gain): | 2.827641 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999415 | Status: | OK. |
| Std Error of Est: | 0.000878 | | |
| Predicted MDL: | 0.000085 | | |
| Predicted MQL: | 0.000283 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00031 | .000 | 1 |
| S1 | .00600 | .00551 | -.000 | -8.17 | .01532 | .000 | 1 |
| S3 | 1.2500 | 1.1860 | -.064 | -5.12 | 3.3557 | .007 | 1 |
| S4 | 2.5000 | 2.4770 | -.023 | -.920 | 7.0084 | .012 | 1 |
| S5 | 5.0000 | 5.1273 | .127 | 2.55 | 14.507 | .029 | 1 |
| S2 | .40000 | .36019 | -.040 | -9.95 | 1.0189 | .001 | 1 |

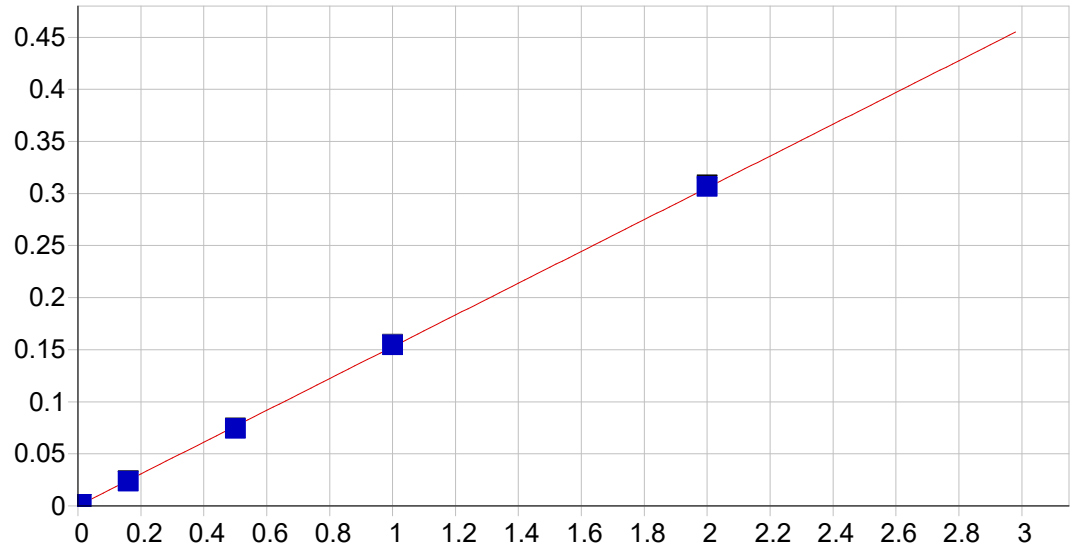



**Ca 373.690 { 90}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.001975 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.066511 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999734 | Status: | OK. |
| Std Error of Est: | 0.000812 | | |
| Predicted MDL: | 0.013196 | | |
| Predicted MQL: | 0.043986 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00015 | .000 | .000 | .00199 | .002 | 1 |
| S2 | 4.0000 | 3.7303 | -.270 | -6.74 | .25008 | .002 | 1 |
| S3 | 12.500 | 11.962 | -.538 | -4.30 | .79761 | .019 | 1 |
| S4 | 25.000 | 25.262 | .262 | 1.05 | 1.6822 | .003 | 1 |
| S5 | 50.000 | 50.516 | .516 | 1.03 | 3.3618 | .019 | 1 |
| S1 | 2.0000 | 2.0291 | .029 | 1.45 | .13693 | .001 | 1 |

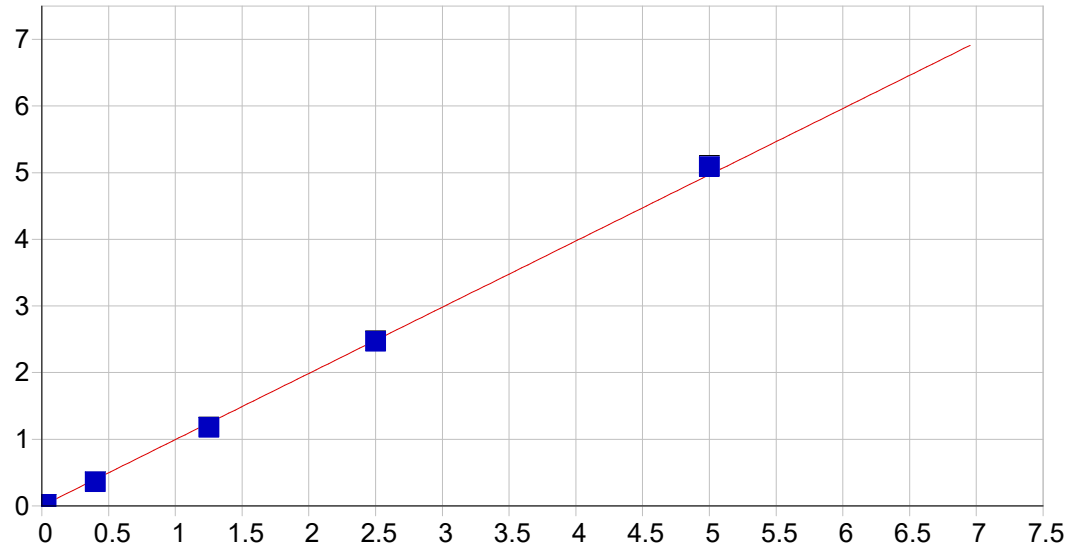



**Cr 267.716 {126}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000175 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.152637 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999903 | Status: | OK. |
| Std Error of Est: | 0.000016 | | |
| Predicted MDL: | 0.000438 | | |
| Predicted MQL: | 0.001459 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00018 | .000 | 1 |
| S1 | .01000 | .00966 | -.000 | -3.37 | .00165 | .000 | 1 |
| S3 | .50000 | .48660 | -.013 | -2.68 | .07448 | .000 | 1 |
| S4 | 1.0000 | 1.0111 | .011 | 1.11 | .15457 | .001 | 1 |
| S5 | 2.0000 | 2.0081 | .008 | .405 | .30681 | .001 | 1 |
| S2 | .16000 | .15452 | -.005 | -3.43 | .02377 | .000 | 1 |

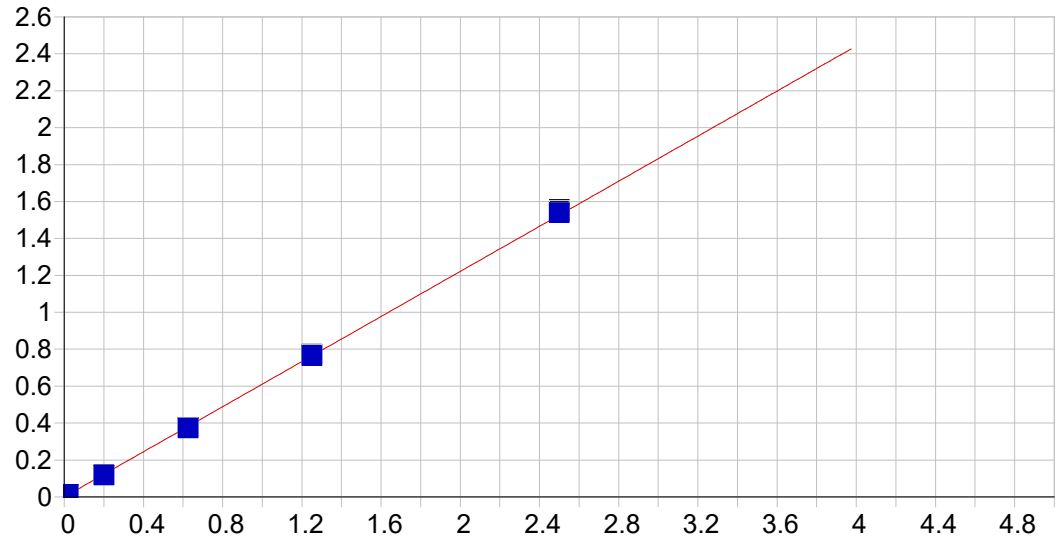



**Co 228.616 {448}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000376 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.993744 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999474 | Status: | OK. |
| Std Error of Est: | 0.000656 | | |
| Predicted MDL: | 0.000218 | | |
| Predicted MQL: | 0.000728 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00038 | .000 | 1 |
| S1 | .03000 | .02880 | -.001 | -3.99 | .02887 | .000 | 1 |
| S3 | 1.2500 | 1.1842 | -.066 | -5.26 | 1.1793 | .002 | 1 |
| S4 | 2.5000 | 2.4836 | -.016 | -.658 | 2.4726 | .004 | 1 |
| S5 | 5.0000 | 5.1194 | .119 | 2.39 | 5.0962 | .014 | 1 |
| S2 | .40000 | .36407 | -.036 | -8.98 | .36284 | .001 | 1 |

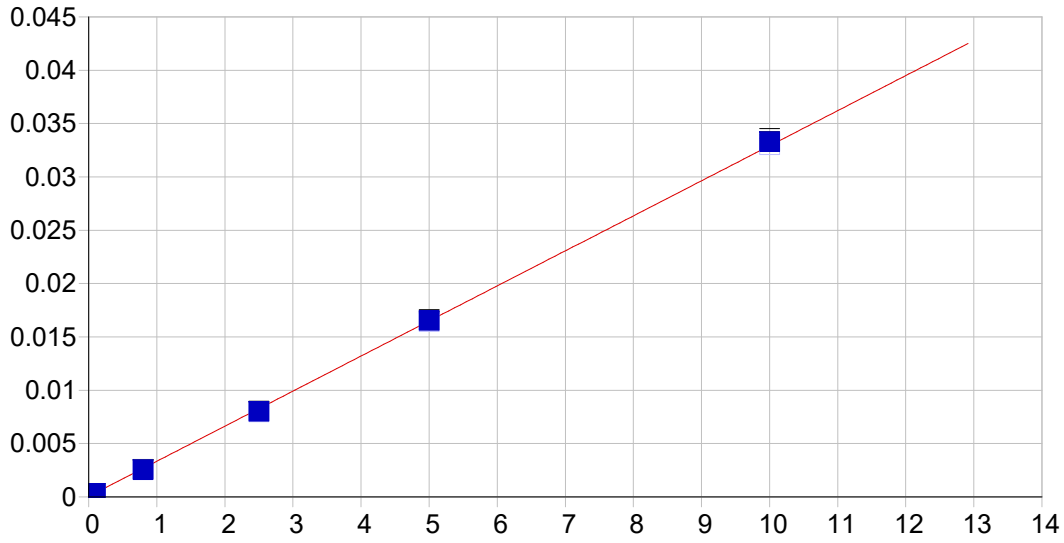



**Cu 224.700 {450}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000376 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.610597 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999901 | Status: | OK. |
| Std Error of Est: | 0.000102 | | |
| Predicted MDL: | 0.000467 | | |
| Predicted MQL: | 0.001558 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00038 | .000 | 1 |
| S1 | .02000 | .02106 | .001 | 5.29 | .01337 | .000 | 1 |
| S3 | .62500 | .61030 | -.015 | -2.35 | .37620 | .001 | 1 |
| S4 | 1.2500 | 1.2526 | .003 | .212 | .77160 | .001 | 1 |
| S5 | 2.5000 | 2.5196 | .020 | .782 | 1.5515 | .005 | 1 |
| S2 | .20000 | .19143 | -.009 | -4.28 | .11828 | .000 | 1 |

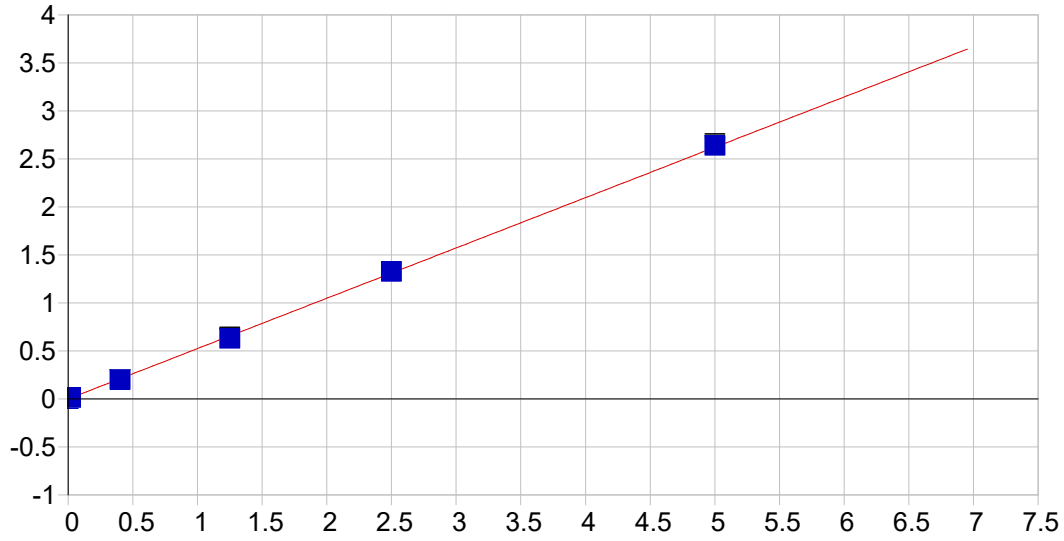



**Fe 240.488 {140}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000057 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.003287 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999829 | Status: | OK. |
| Std Error of Est: | 0.000003 | | |
| Predicted MDL: | 0.007299 | | |
| Predicted MQL: | 0.024330 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | .00006 | .000 | 1 |
| S1 | .10000 | .09467 | -.005 | -5.33 | .00036 | .000 | 1 |
| S3 | 2.5000 | 2.4198 | -.080 | -3.21 | .00794 | .000 | 1 |
| S4 | 5.0000 | 5.0155 | .015 | .310 | .01640 | .000 | 1 |
| S5 | 10.000 | 10.111 | .111 | 1.11 | .03301 | .000 | 1 |
| S2 | .80000 | .75928 | -.041 | -5.09 | .00253 | .000 | 1 |

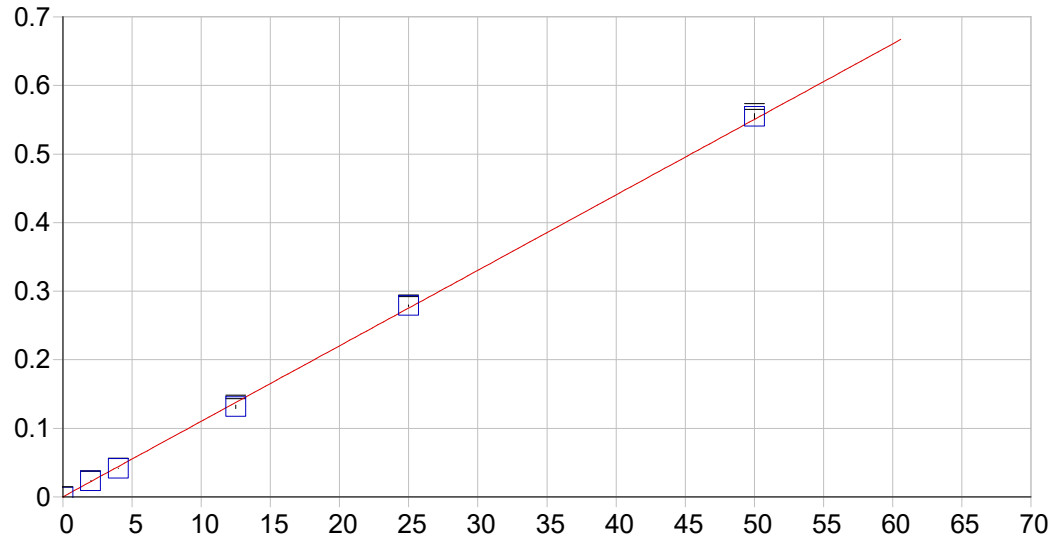



**Mn 257.610 {131}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000260 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.524105 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999789 | Status: | OK. |
| Std Error of Est: | 0.000179 | | |
| Predicted MDL: | 0.000623 | | |
| Predicted MQL: | 0.002076 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | -.00000 | -.000 | .000 | .00026 | .000 | 1 |
| S1 | .02000 | .02331 | .003 | 16.5 | .01248 | .000 | 1 |
| S3 | 1.2500 | 1.2030 | -.047 | -3.76 | .63088 | .012 | 1 |
| S4 | 2.5000 | 2.5278 | .028 | 1.11 | 1.3253 | .001 | 1 |
| S5 | 5.0000 | 5.0359 | .036 | .717 | 2.6401 | .018 | 1 |
| S2 | .40000 | .38009 | -.020 | -4.98 | .19951 | .001 | 1 |

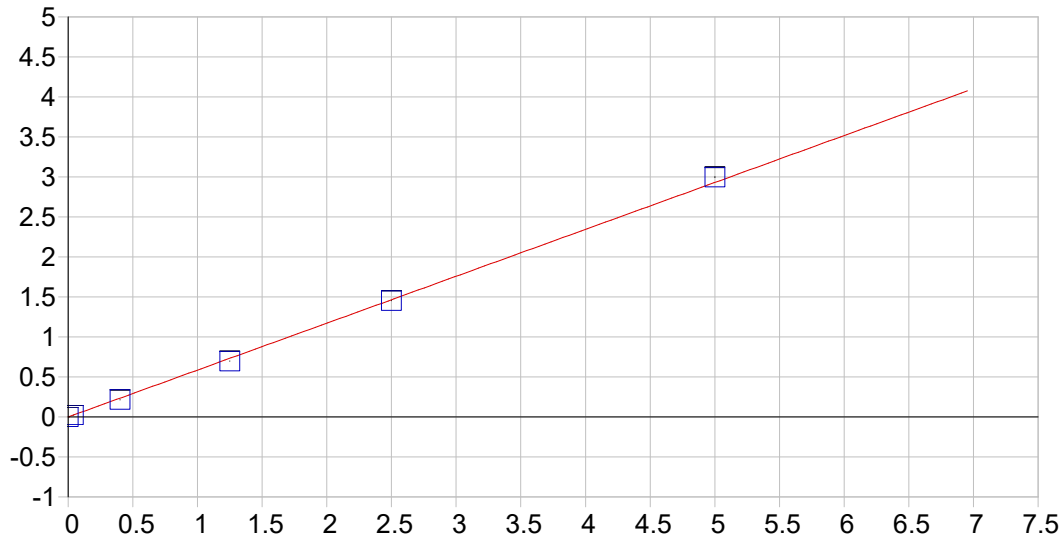



**Mg 279.079 {121}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000217 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.011007 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999714 | Status: | OK. |
| Std Error of Est: | 0.000139 | | |
| Predicted MDL: | 0.033538 | | |
| Predicted MQL: | 0.111794 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00007 | .000 | .000 | .00022 | .000 | 1 |
| S2 | 4.0000 | 3.7617 | -.238 | -5.96 | .04162 | .000 | 1 |
| S3 | 12.500 | 11.922 | -.578 | -4.62 | .13144 | .003 | 1 |
| S4 | 25.000 | 25.320 | .320 | 1.28 | .27890 | .001 | 1 |
| S5 | 50.000 | 50.392 | .392 | .784 | .55487 | .004 | 1 |
| S1 | 2.0000 | 2.1039 | .104 | 5.19 | .02337 | .000 | 1 |

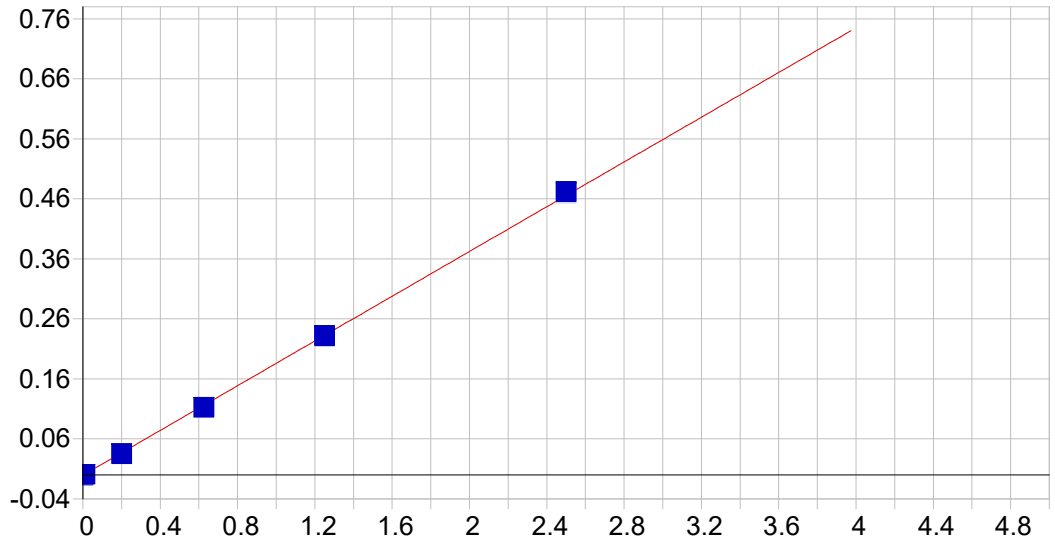



**Ni 231.604 {446}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000536 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.586183 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999543 | Status: | OK. |
| Std Error of Est: | 0.000416 | | |
| Predicted MDL: | 0.000394 | | |
| Predicted MQL: | 0.001313 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | -.00053 | .000 | 1 |
| S1 | .04000 | .03853 | -.001 | -3.67 | .02205 | .000 | 1 |
| S3 | 1.2500 | 1.1904 | -.060 | -4.77 | .69728 | .001 | 1 |
| S4 | 2.5000 | 2.4811 | -.019 | -.758 | 1.4538 | .003 | 1 |
| S5 | 5.0000 | 5.1134 | .113 | 2.27 | 2.9969 | .006 | 1 |
| S2 | .40000 | .36652 | -.033 | -8.37 | .21431 | .001 | 1 |

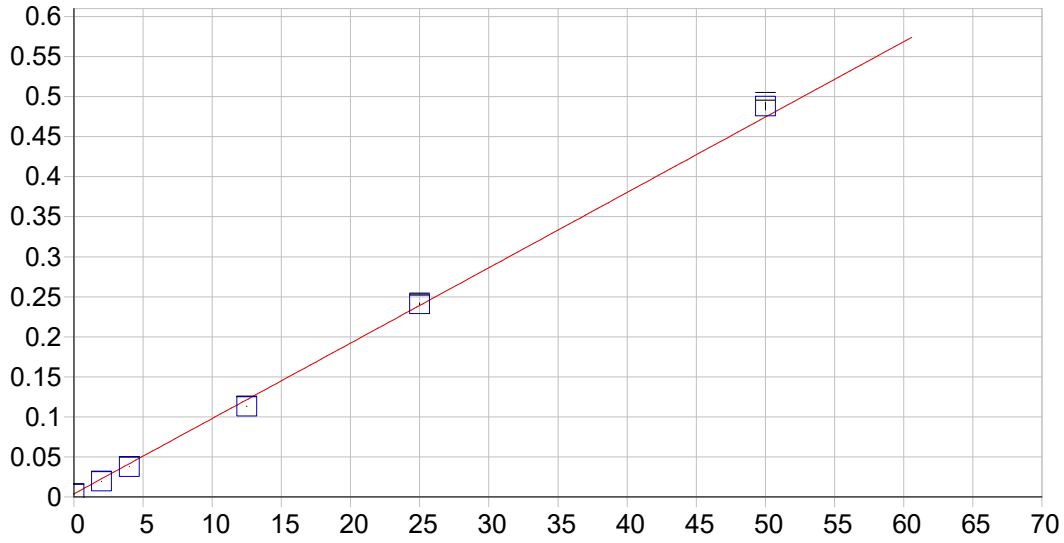



**Ag 328.068 {103}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000495 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.186379 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999834 | Status: | OK. |
| Std Error of Est: | 0.000028 | | |
| Predicted MDL: | 0.000619 | | |
| Predicted MQL: | 0.002065 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00049 | .000 | 1 |
| S1 | .01000 | .00959 | -.000 | -4.09 | .00128 | .000 | 1 |
| S3 | .62500 | .60567 | -.019 | -3.09 | .11182 | .000 | 1 |
| S4 | 1.2500 | 1.2458 | -.004 | -.333 | .23057 | .000 | 1 |
| S5 | 2.5000 | 2.5333 | .033 | 1.33 | .46939 | .000 | 1 |
| S2 | .20000 | .19064 | -.009 | -4.68 | .03486 | .000 | 1 |

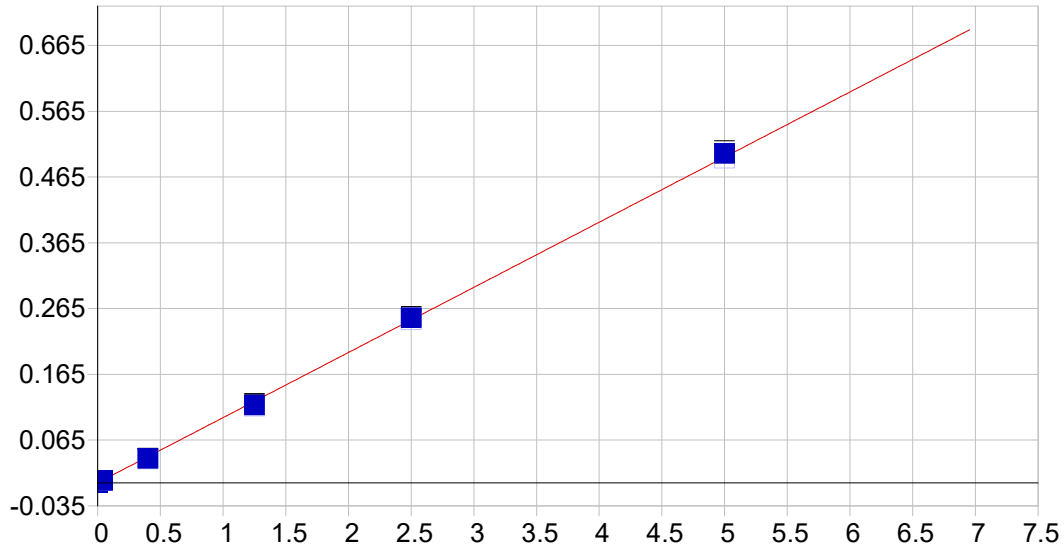



**Na 589.592 { 57}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.003846 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.009413 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.998881 | Status: | OK. |
| Std Error of Est: | 0.000236 | | |
| Predicted MDL: | 0.016290 | | |
| Predicted MQL: | 0.054300 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00062 | .001 | .000 | .00385 | .000 | 1 |
| S2 | 4.0000 | 3.5894 | -.411 | -10.3 | .03763 | .000 | 1 |
| S3 | 12.500 | 11.616 | -.884 | -7.07 | .11319 | .001 | 1 |
| S4 | 25.000 | 25.189 | .189 | .754 | .24095 | .001 | 1 |
| S5 | 50.000 | 51.455 | 1.46 | 2.91 | .48820 | .005 | 1 |
| S1 | 2.0000 | 1.6511 | -.349 | -17.4 | .01939 | .000 | 1 |

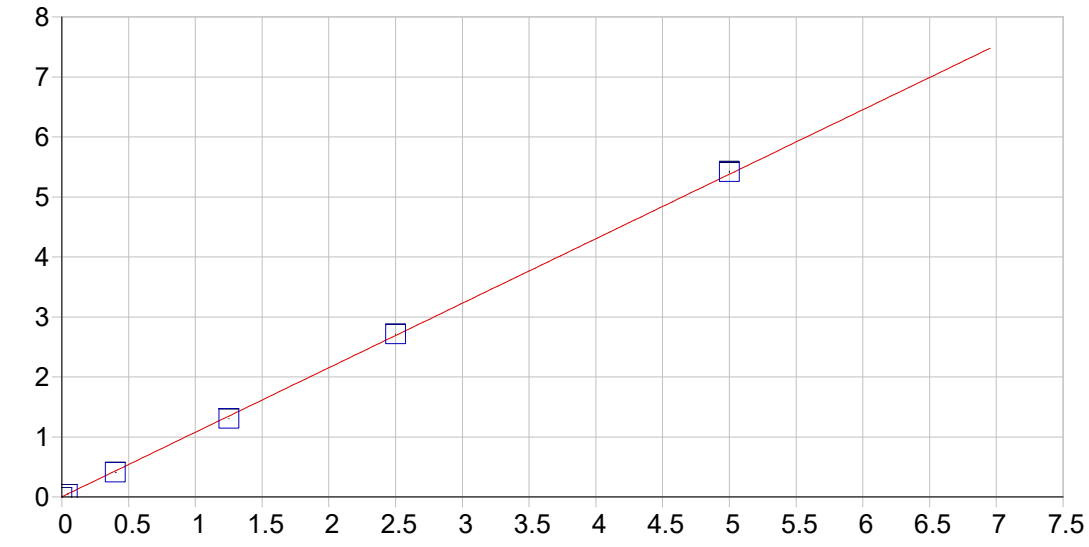



**V 292.402 {115}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000039 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.099074 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999645 | Status: | OK. |
| Std Error of Est: | 0.000061 | | |
| Predicted MDL: | 0.004088 | | |
| Predicted MQL: | 0.013628 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | .00004 | .000 | 1 |
| S1 | .04000 | .03499 | -.005 | -12.5 | .00336 | .000 | 1 |
| S3 | 1.2500 | 1.1942 | -.056 | -4.46 | .11655 | .002 | 1 |
| S4 | 2.5000 | 2.5353 | .035 | 1.41 | .24761 | .002 | 1 |
| S5 | 5.0000 | 5.0545 | .055 | 1.09 | .49359 | .004 | 1 |
| S2 | .40000 | .37084 | -.029 | -7.29 | .03620 | .001 | 1 |

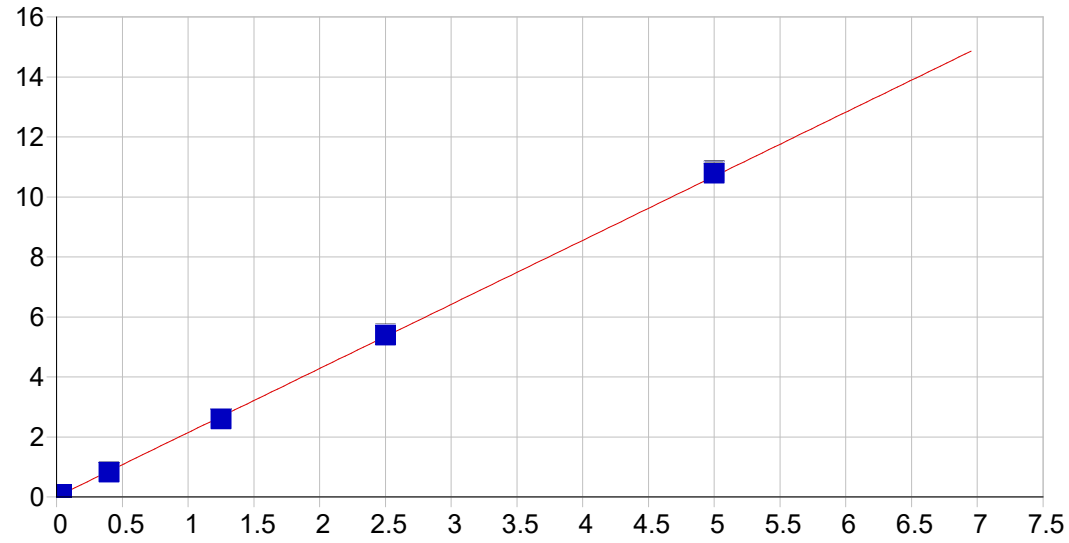



**Zn 206.200 {464}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.002263 | Re-Slope: | 1.000000 |
| A1 (Gain): | 1.075144 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999850 | Status: | OK. |
| Std Error of Est: | 0.000436 | | |
| Predicted MDL: | 0.000156 | | |
| Predicted MQL: | 0.000522 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00226 | .000 | 1 |
| S1 | .04000 | .04095 | .001 | 2.36 | .04628 | .000 | 1 |
| S3 | 1.2500 | 1.2109 | -.039 | -3.13 | 1.3041 | .002 | 1 |
| S4 | 2.5000 | 2.5210 | .021 | .842 | 2.7128 | .003 | 1 |
| S5 | 5.0000 | 5.0376 | .038 | .751 | 5.4184 | .010 | 1 |
| S2 | .40000 | .37958 | -.020 | -5.10 | .41037 | .000 | 1 |

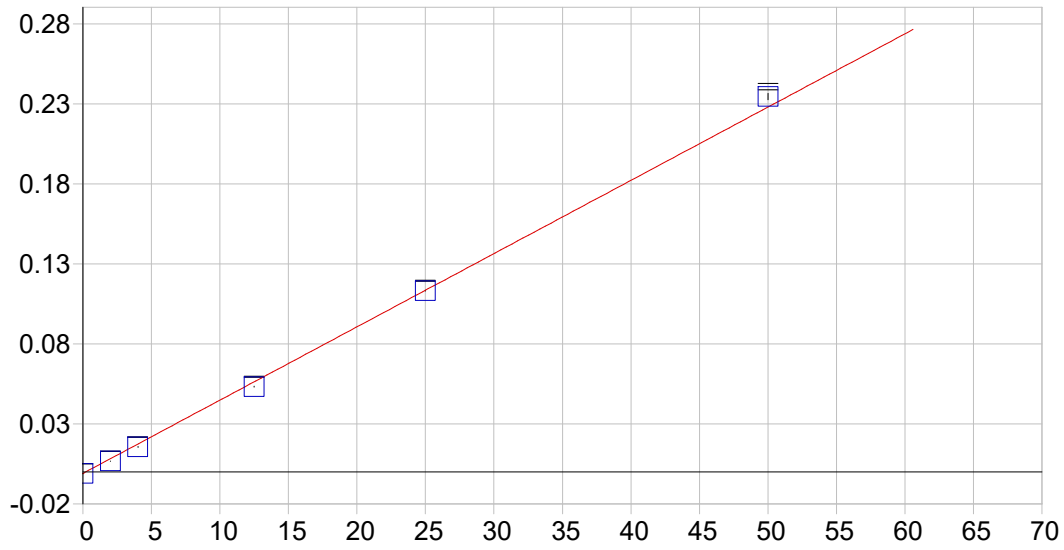



**Zn 213.856 {158}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.007422 | Re-Slope: | 1.000000 |
| A1 (Gain): | 2.136156 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999847 | Status: | OK. |
| Std Error of Est: | 0.000882 | | |
| Predicted MDL: | 0.000264 | | |
| Predicted MQL: | 0.000879 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00743 | .001 | 1 |
| S1 | .04000 | .03997 | -.000 | -.068 | .09341 | .001 | 1 |
| S3 | 1.2500 | 1.2106 | -.039 | -3.15 | 2.6120 | .005 | 1 |
| S4 | 2.5000 | 2.5159 | .016 | .638 | 5.4190 | .012 | 1 |
| S5 | 5.0000 | 5.0445 | .044 | .890 | 10.858 | .014 | 1 |
| S2 | .40000 | .37901 | -.021 | -5.25 | .82300 | .003 | 1 |

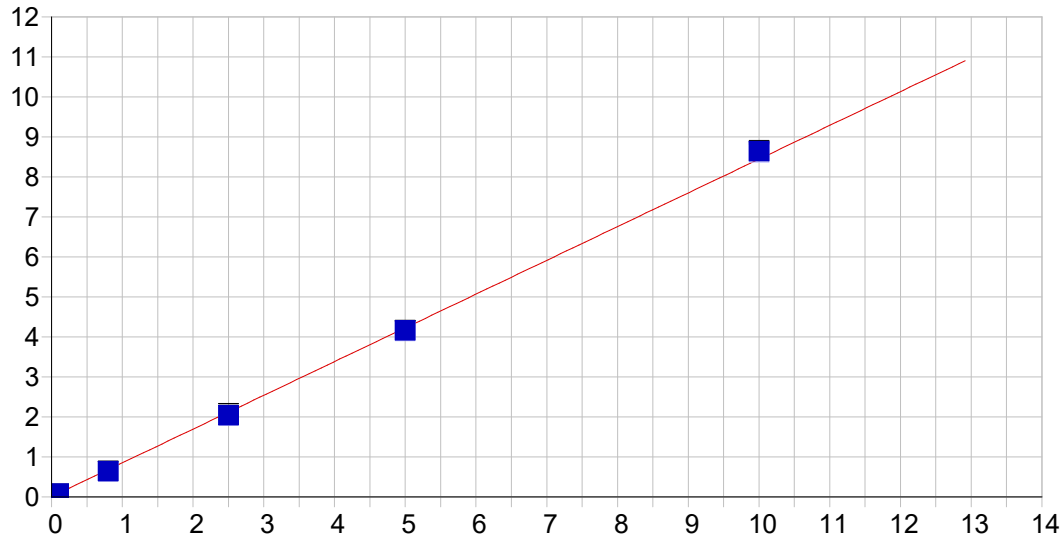



**K 766.490 { 44}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000946 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.004578 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999105 | Status: | OK. |
| Std Error of Est: | 0.000103 | | |
| Predicted MDL: | 0.043721 | | |
| Predicted MQL: | 0.145738 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00057 | .001 | .000 | -.00094 | .000 | 1 |
| S2 | 4.0000 | 3.6135 | -.387 | -9.66 | .01559 | .000 | 1 |
| S3 | 12.500 | 11.841 | -.659 | -5.27 | .05326 | .000 | 1 |
| S4 | 25.000 | 24.934 | -.066 | -.265 | .11319 | .000 | 1 |
| S5 | 50.000 | 51.439 | 1.44 | 2.88 | .23452 | .002 | 1 |
| S1 | 2.0000 | 1.6726 | -.327 | -16.4 | .00671 | .000 | 1 |

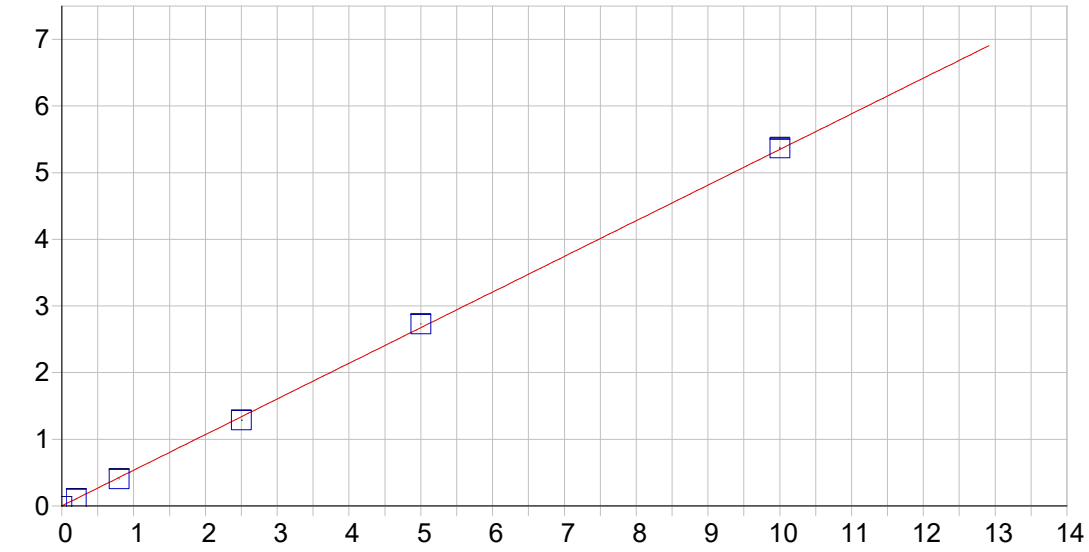



**B 249.678 {135}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.007755 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.843655 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999623 | Status: | OK. |
| Std Error of Est: | 0.001212 | | |
| Predicted MDL: | 0.000826 | | |
| Predicted MQL: | 0.002752 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00002 | .000 | .000 | .00777 | .001 | 1 |
| S1 | .10000 | .09027 | -.010 | -9.73 | .08341 | .000 | 1 |
| S3 | 2.5000 | 2.4113 | -.089 | -3.55 | 2.0344 | .044 | 1 |
| S4 | 5.0000 | 4.9227 | -.077 | -1.55 | 4.1456 | .011 | 1 |
| S5 | 10.000 | 10.227 | .227 | 2.27 | 8.6057 | .028 | 1 |
| S2 | .80000 | .74848 | -.052 | -6.44 | .63678 | .006 | 1 |

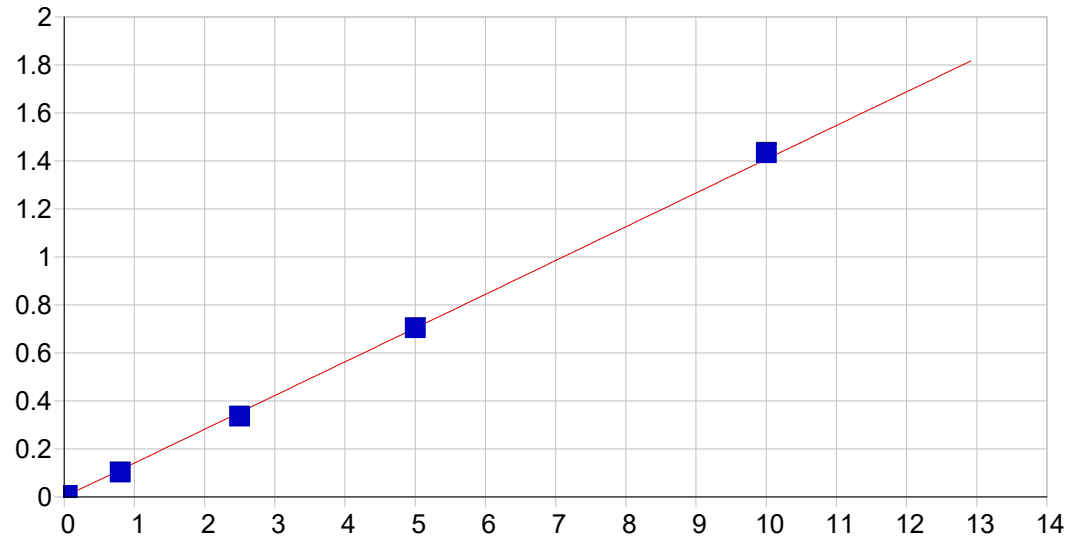



**Mo 202.030 {467}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000770 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.534770 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999777 | Status: | OK. |
| Std Error of Est: | 0.000841 | | |
| Predicted MDL: | 0.000318 | | |
| Predicted MQL: | 0.001059 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | .00078 | .000 | 1 |
| S1 | .20000 | .20054 | .001 | .272 | .10801 | .000 | 1 |
| S3 | 2.5000 | 2.4049 | -.095 | -3.80 | 1.2868 | .002 | 1 |
| S4 | 5.0000 | 5.1025 | .103 | 2.05 | 2.7295 | .002 | 1 |
| S5 | 10.000 | 10.036 | .036 | .359 | 5.3677 | .013 | 1 |
| S2 | .80000 | .75610 | -.044 | -5.49 | .40511 | .001 | 1 |

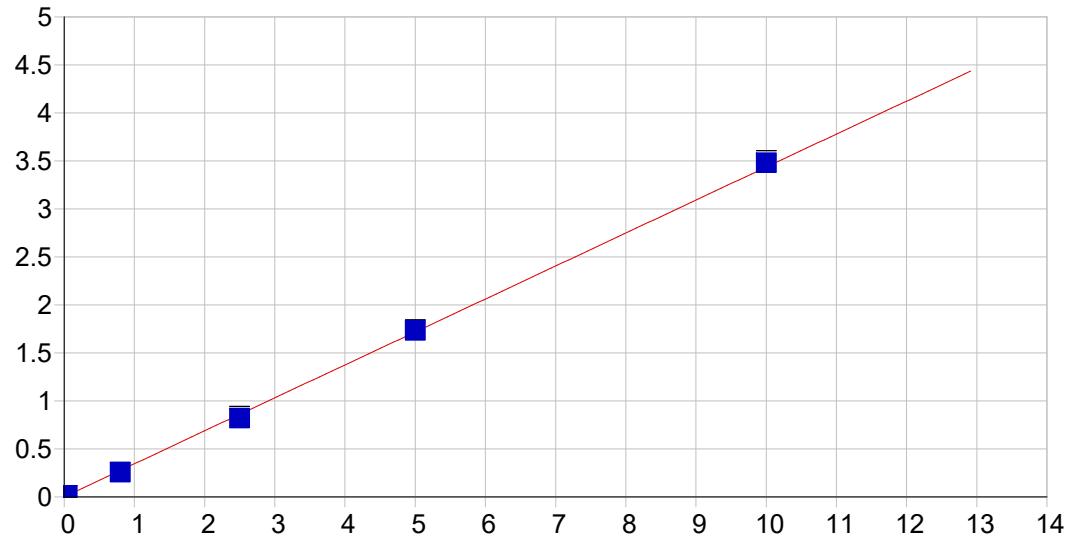



**Sn 189.989 {478}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000352 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.140633 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999569 | Status: | OK. |
| Std Error of Est: | 0.000137 | | |
| Predicted MDL: | 0.000718 | | |
| Predicted MQL: | 0.002392 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | .00035 | .000 | 1 |
| S1 | .04000 | .03648 | -.004 | -8.80 | .00548 | .000 | 1 |
| S3 | 2.5000 | 2.3828 | -.117 | -4.69 | .33509 | .001 | 1 |
| S4 | 5.0000 | 5.0058 | .006 | .116 | .70362 | .002 | 1 |
| S5 | 10.000 | 10.187 | .187 | 1.87 | 1.4315 | .003 | 1 |
| S2 | .80000 | .72806 | -.072 | -8.99 | .10263 | .000 | 1 |

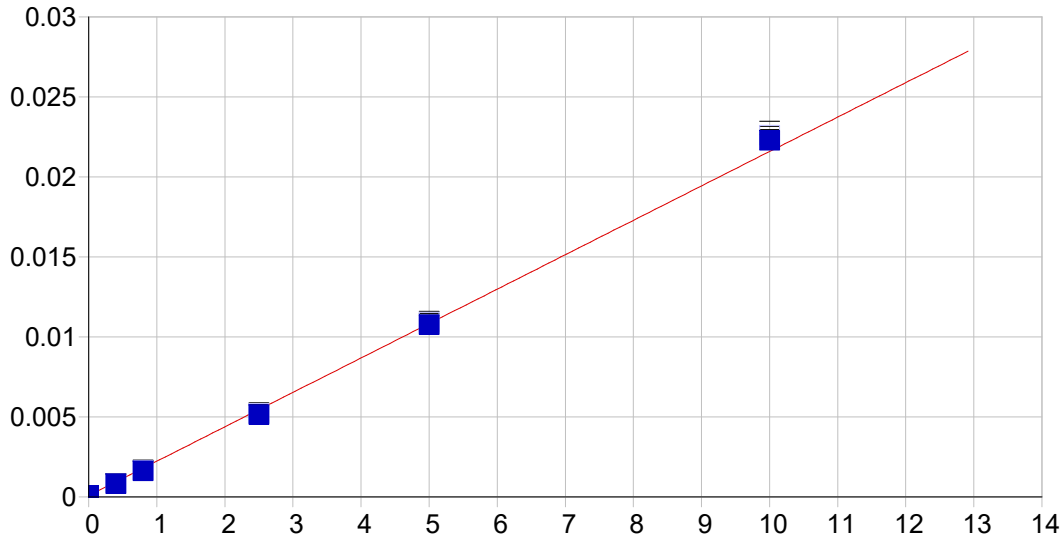



**Ti 336.121 {100}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.001283 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.343402 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999669 | Status: | OK. |
| Std Error of Est: | 0.000293 | | |
| Predicted MDL: | 0.001847 | | |
| Predicted MQL: | 0.006156 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00001 | .000 | .000 | .00129 | .000 | 1 |
| S1 | .04000 | .03808 | -.002 | -4.79 | .01435 | .001 | 1 |
| S3 | 2.5000 | 2.3820 | -.118 | -4.72 | .81897 | .020 | 1 |
| S4 | 5.0000 | 5.0475 | .047 | .950 | 1.7340 | .004 | 1 |
| S5 | 10.000 | 10.131 | .131 | 1.31 | 3.4791 | .024 | 1 |
| S2 | .80000 | .74120 | -.059 | -7.35 | .25571 | .002 | 1 |

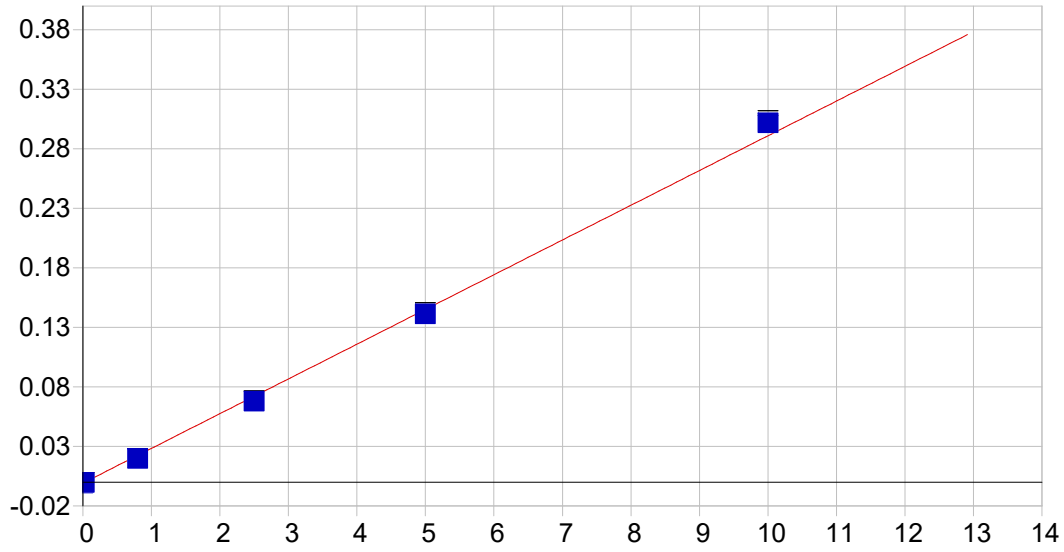



**Si 288.158 {117}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000080 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.002151 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999076 | Status: | OK. |
| Std Error of Est: | 0.000010 | | |
| Predicted MDL: | 0.017357 | | |
| Predicted MQL: | 0.057858 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00011 | .000 | .000 | .00008 | .000 | 1 |
| S1 | .40000 | .34228 | -.058 | -14.4 | .00082 | .000 | 1 |
| S3 | 2.5000 | 2.3523 | -.148 | -5.91 | .00522 | .000 | 1 |
| S4 | 5.0000 | 4.9667 | -.033 | -.666 | .01092 | .000 | 1 |
| S5 | 10.000 | 10.319 | .319 | 3.19 | .02260 | .000 | 1 |
| S2 | .80000 | .71931 | -.081 | -10.1 | .00165 | .000 | 1 |

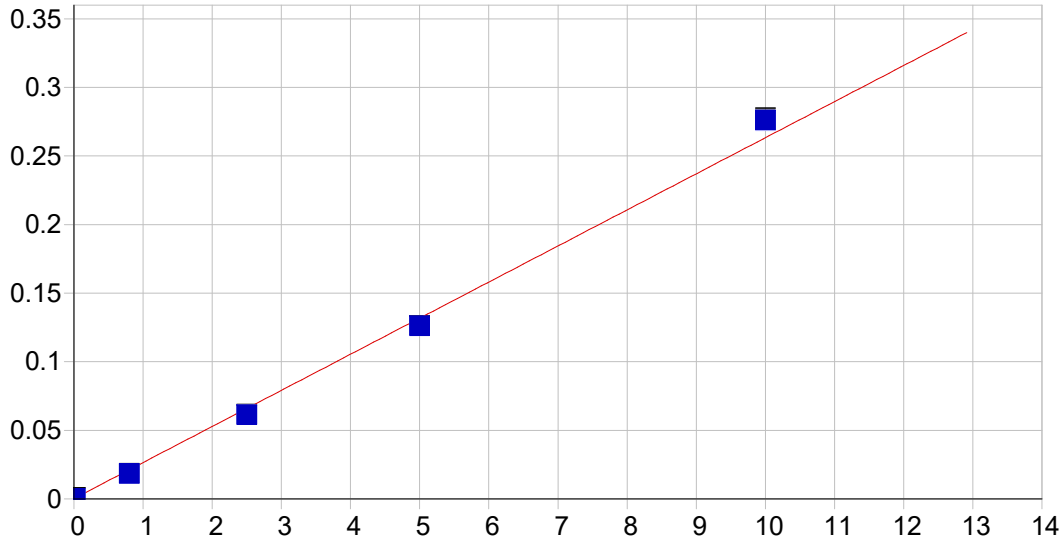



**P 177.495 {490}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | -0.000858 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.029184 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999018 | Status: | OK. |
| Std Error of Est: | 0.000030 | | |
| Predicted MDL: | 0.002656 | | |
| Predicted MQL: | 0.008852 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | -.00086 | .000 | 1 |
| S1 | .02000 | .01923 | -.001 | -3.84 | -.00030 | .000 | 1 |
| S3 | 2.5000 | 2.3583 | -.142 | -5.67 | .06796 | .000 | 1 |
| S4 | 5.0000 | 4.8676 | -.132 | -2.65 | .14118 | .001 | 1 |
| S5 | 10.000 | 10.368 | .368 | 3.68 | .30169 | .002 | 1 |
| S2 | .80000 | .70665 | -.093 | -11.7 | .01976 | .000 | 1 |

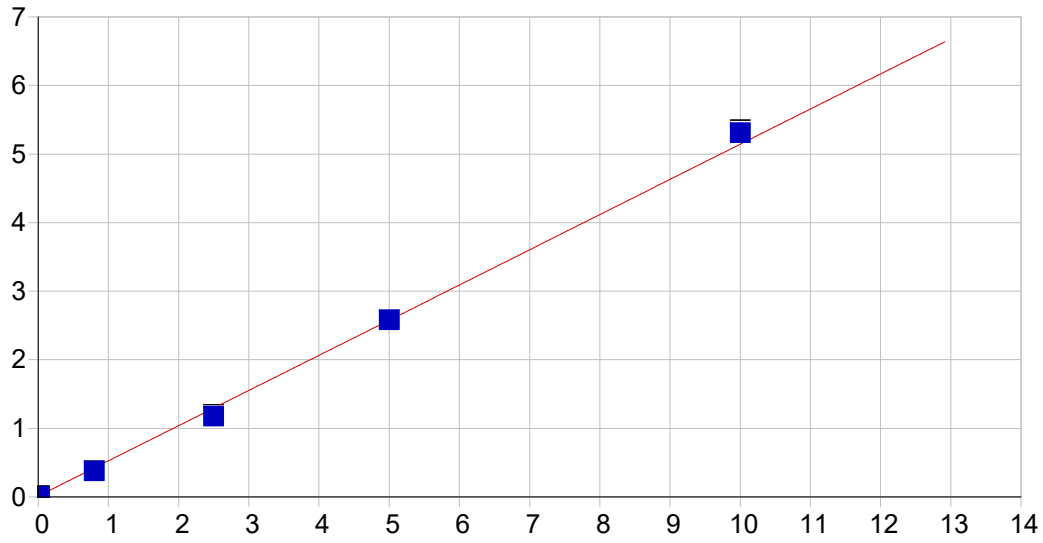



**S 182.034 {485}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.000214 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.026313 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.998377 | Status: | OK. |
| Std Error of Est: | 0.000035 | | |
| Predicted MDL: | 0.003453 | | |
| Predicted MQL: | 0.011510 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00021 | .000 | 1 |
| S1 | .02000 | .02185 | .002 | 9.27 | .00077 | .000 | 1 |
| S3 | 2.5000 | 2.3271 | -.173 | -6.91 | .06128 | .000 | 1 |
| S4 | 5.0000 | 4.7921 | -.208 | -4.16 | .12597 | .000 | 1 |
| S5 | 10.000 | 10.488 | .488 | 4.88 | .27549 | .002 | 1 |
| S2 | .80000 | .69136 | -.109 | -13.6 | .01835 | .000 | 1 |

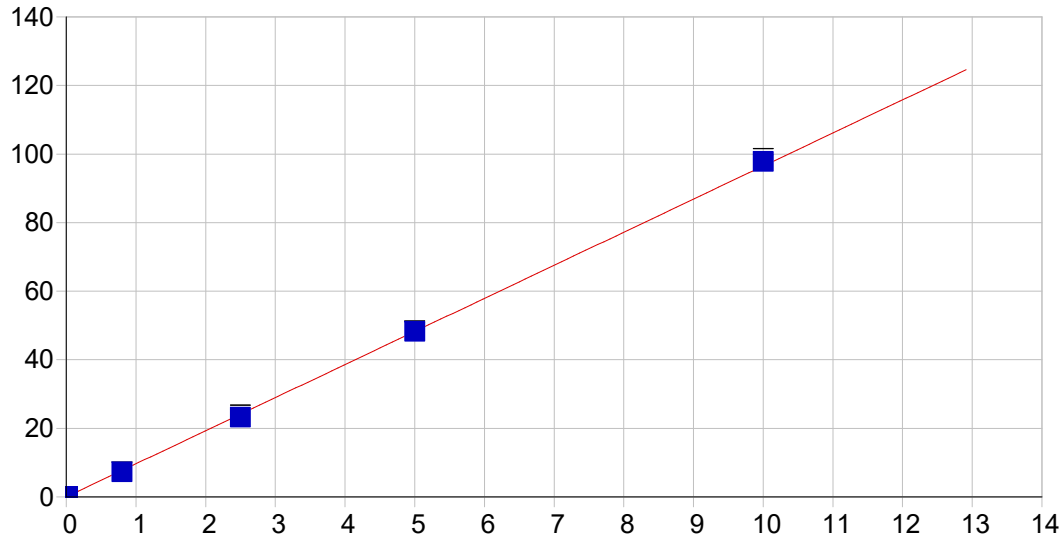



**Li 670.784 { 50}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.012601 | Re-Slope: | 1.000000 |
| A1 (Gain): | 0.513044 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.998569 | Status: | OK. |
| Std Error of Est: | 0.000644 | | |
| Predicted MDL: | 0.004237 | | |
| Predicted MQL: | 0.014124 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00002 | .000 | .000 | .01261 | .002 | 1 |
| S5 | 10.000 | 10.324 | .324 | 3.24 | 5.3135 | .041 | 1 |
| S4 | 5.0000 | 5.0092 | .009 | .183 | 2.5846 | .003 | 1 |
| S3 | 2.5000 | 2.2711 | -.229 | -9.16 | 1.1788 | .020 | 1 |
| S1 | .02000 | .00506 | -.015 | -74.7 | .01538 | .001 | 1 |
| S2 | .80000 | .71078 | -.089 | -11.2 | .37759 | .001 | 1 |

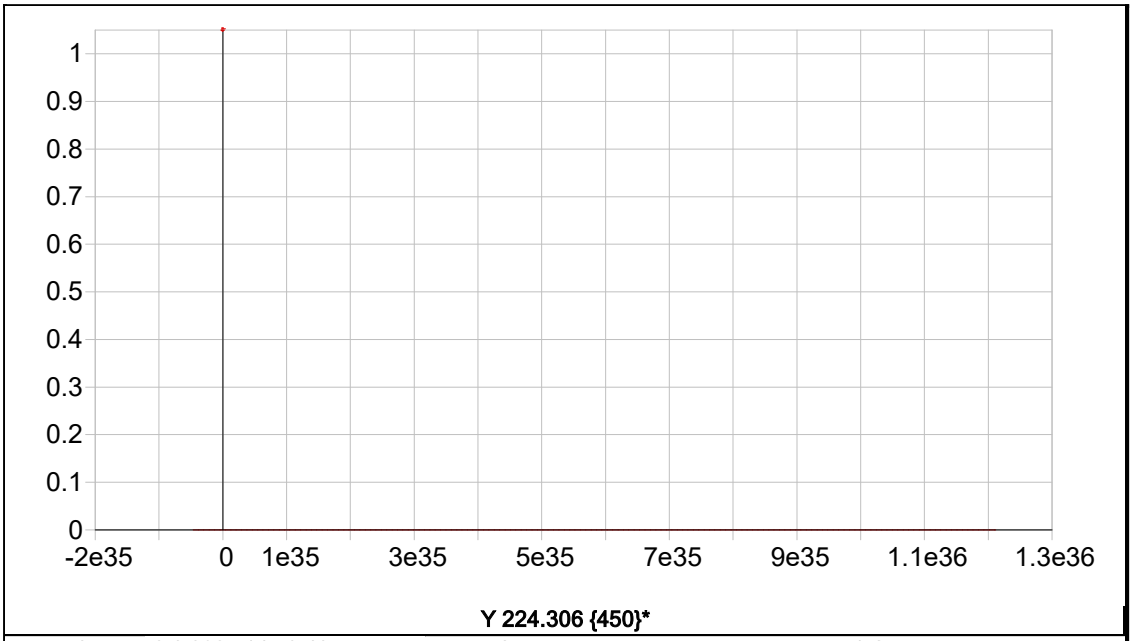



**Sr 407.771 { 83}**

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | Type of Fit: | Linear | Weighting: | 1/Conc |

| | | | |
|---|---|---|---|
| A0 (Offset): | 0.002283 | Re-Slope: | 1.000000 |
| A1 (Gain): | 9.649535 | Y-int: | 0.000000 |
| A2 (Curvature): | 0.000000 | | |
| n (Exponent): | 1.000000 | | |
| Correlation: | 0.999786 | Status: | OK. |
| Std Error of Est: | 0.004686 | | |
| Predicted MDL: | 0.000116 | | |
| Predicted MQL: | 0.000385 | | |

| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|
| S0 | .00000 | .00000 | .000 | .000 | .00229 | .001 | 1 |
| S1 | .02000 | .02095 | .001 | 4.73 | .20532 | .000 | 1 |
| S3 | 2.5000 | 2.4088 | -.091 | -3.65 | 23.269 | .614 | 1 |
| S4 | 5.0000 | 5.0019 | .002 | .039 | 48.315 | .189 | 1 |
| S5 | 10.000 | 10.135 | .135 | 1.35 | 97.890 | .894 | 1 |
| S2 | .80000 | .75371 | -.046 | -5.79 | 7.2826 | .021 | 1 |

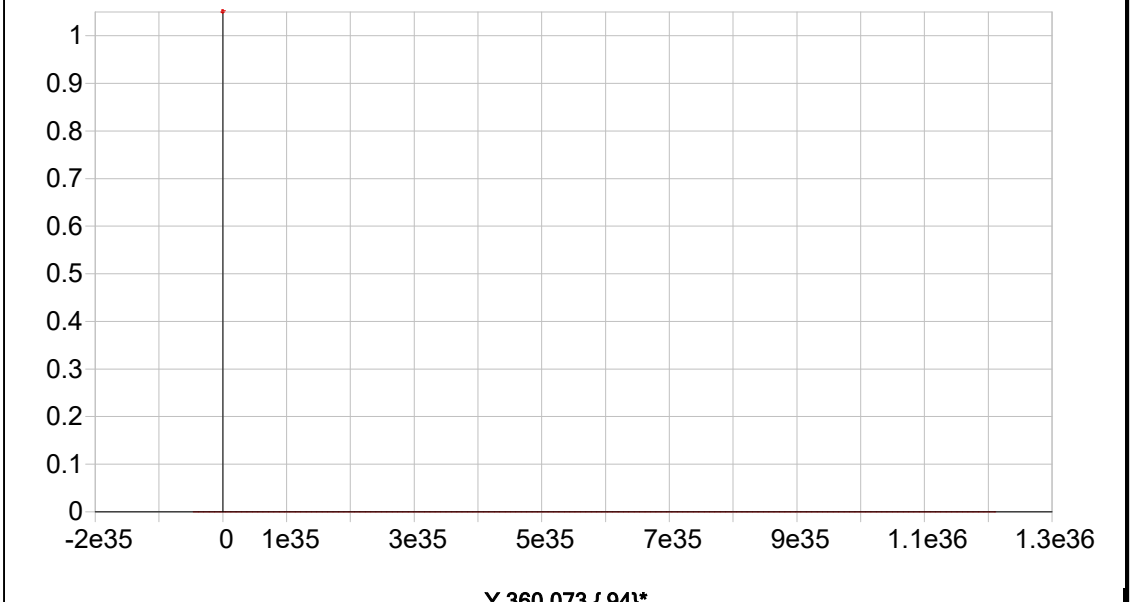



**Y 224.306 {450}***

| | | | | | |
|---|---|---|---|---|---|
| Date of Fit: | 8/6/2025 14:53:46 | 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 |
|---|---|---|---|---|---|---|---|



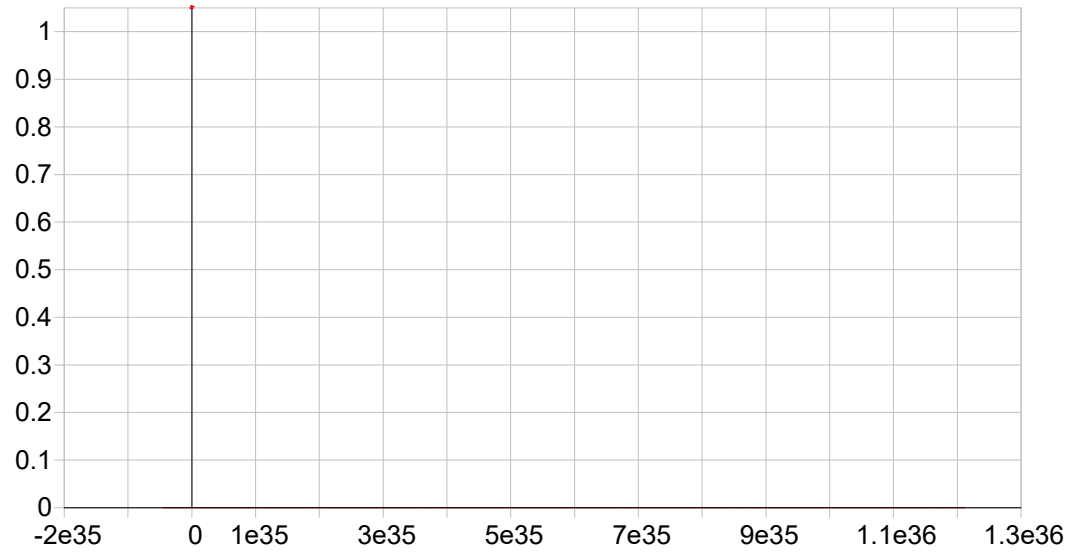

**Y 360.073 { 94}***

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

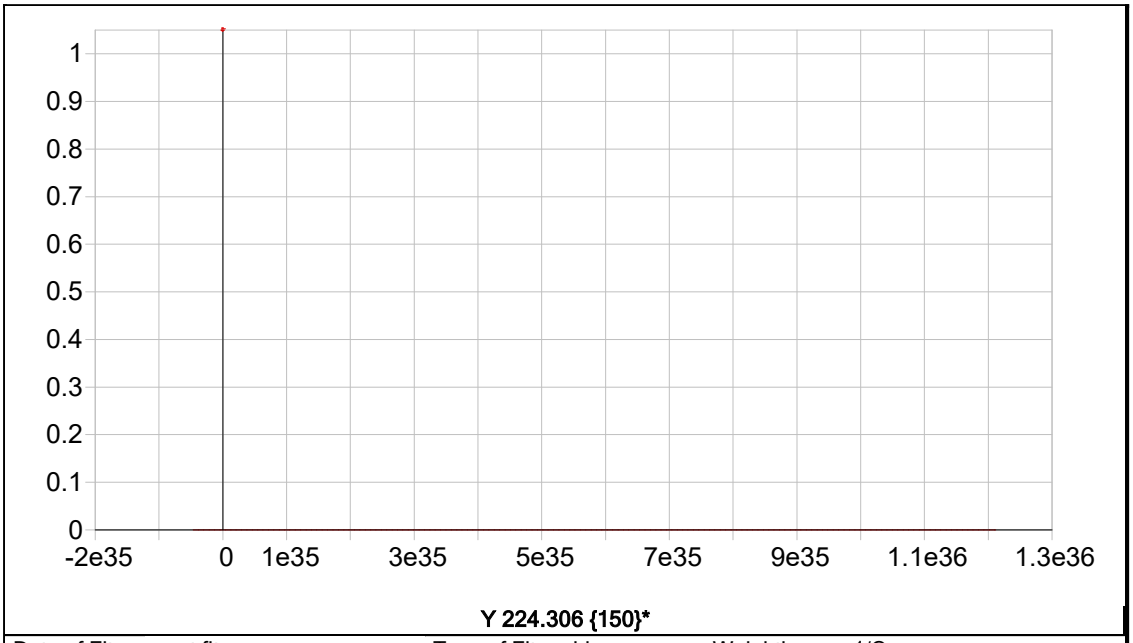
| Std. Name | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR | Std Dev | Emphasis |
|---|---|---|---|---|---|---|---|




**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 |
|---|---|---|---|---|---|---|---|

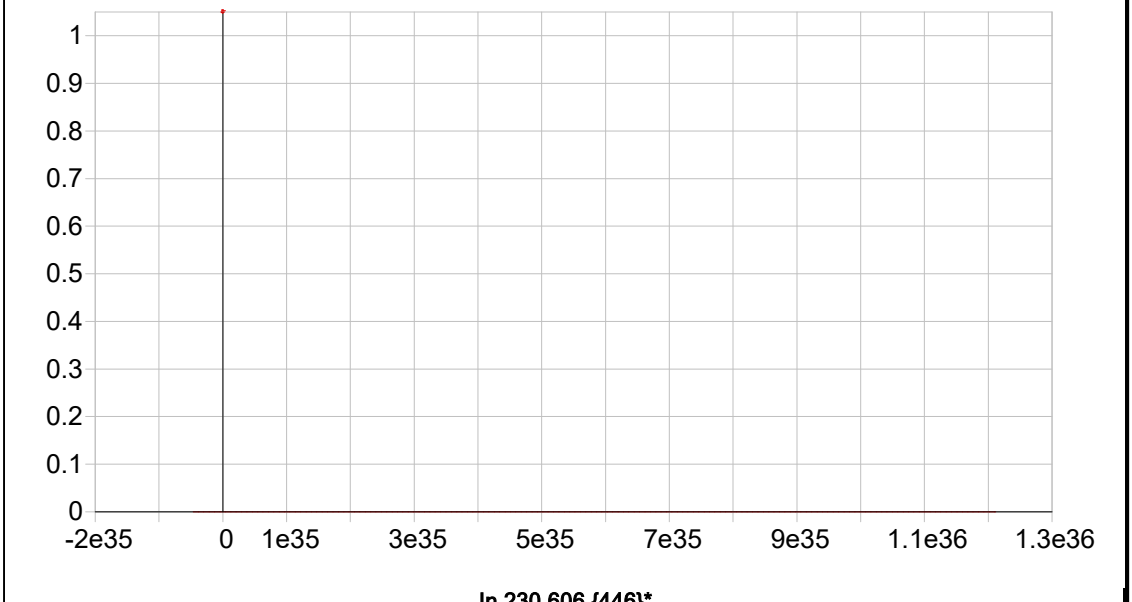



**Y 224.306 {150}***

| | | | | | |
|---|---|---|---|---|---|
| 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:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: S0 Acquired: 8/6/2025 11:30:52 Type: Cal
Method: 6010-200.7 NEW(v85) 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 | **.00001** | **.00121** | **.00014** | **.00030** | **.00051** | **.00097** | **.08670** | **-.00145** |
| Stddev | .00006 | .00003 | .00029 | .00005 | .00023 | .00078 | .00383 | .00095 |
| %RSD | 720.50 | 2.2202 | 213.12 | 16.404 | 45.852 | 80.400 | 4.4208 | 65.779 |
| #1 | .00008 | .00124 | -.00010 | .00028 | .00075 | .00143 | .08735 | -.00248 |
| #2 | -.00005 | .00119 | .00046 | .00026 | .00029 | .00007 | .09017 | -.00059 |
| #3 | -.00000 | .00120 | .00005 | .00035 | .00048 | .00141 | .08259 | -.00128 |

| 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 | **-.00031** | **.00199** | **.00018** | **.00038** | **.00038** | **.00006** | **.00026** | **.00022** |
| Stddev | .00012 | .00180 | .00008 | .00027 | .00021 | .00001 | .00044 | .00015 |
| %RSD | 38.825 | 90.794 | 47.010 | 71.170 | 55.830 | 24.993 | 170.09 | 69.171 |
| #1 | -.00041 | .00209 | .00009 | .00008 | .00033 | .00004 | .00015 | .00007 |
| #2 | -.00018 | .00013 | .00019 | .00060 | .00019 | .00006 | -.00012 | .00037 |
| #3 | -.00034 | .00373 | .00025 | .00046 | .00060 | .00007 | .00074 | .00022 |

| 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 | **-.00053** | **-.00049** | **.00385** | **.00004** | **.00743** | **-.00094** | **.00777** | **.00078** |
| Stddev | .00015 | .00004 | .00017 | .00030 | .00062 | .00022 | .00063 | .00035 |
| %RSD | 28.688 | 8.4797 | 4.4670 | 753.48 | 8.3538 | 23.809 | 8.1033 | 44.448 |
| #1 | -.00067 | -.00052 | .00365 | -.00016 | .00795 | -.00075 | .00738 | .00103 |
| #2 | -.00056 | -.00051 | .00393 | .00038 | .00760 | -.00119 | .00744 | .00092 |
| #3 | -.00037 | -.00045 | .00397 | -.00010 | .00674 | -.00088 | .00850 | .00038 |

| 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 | **.00035** | **.00129** | **.00008** | **-.00086** | **.00021** | **.01261** | **.00229** |
| Stddev | .00008 | .00002 | .00004 | .00003 | .00001 | .00204 | .00063 |
| %RSD | 21.410 | 1.7668 | 44.964 | 2.9230 | 3.5033 | 16.162 | 27.713 |
| #1 | .00038 | .00128 | .00007 | -.00084 | .00021 | .01286 | .00272 |
| #2 | .00027 | .00131 | .00005 | -.00085 | .00021 | .01046 | .00259 |
| #3 | .00041 | .00126 | .00012 | -.00089 | .00022 | .01451 | .00156 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: S0 Acquired: 8/6/2025 11:30:52 Type: Cal
Method: 6010-200.7 NEW(v85) 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 | **5935.4** | **98528.** | **7916.4** | **5082.5** | **7072.9** |
| Stddev | 1.4 | 232. | 49.7 | 15.1 | 8.6 |
| %RSD | .02338 | .23592 | .62730 | .29638 | .12227 |
| | | | | | |
| #1 | 5934.6 | 98785. | 7969.0 | 5090.5 | 7066.2 |
| #2 | 5934.7 | 98333. | 7870.3 | 5065.2 | 7069.8 |
| #3 | 5937.0 | 98466. | 7910.0 | 5091.9 | 7082.7 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: S1 Acquired: 8/6/2025 11:35:12 Type: Cal
Method: 6010-200.7 NEW(v85) 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 | **.00083** | **.00247** | **.00231** | **.00117** | **.00448** | **.00859** | **.40181** | **.04561** |
| Stddev | .00004 | .00005 | .00019 | .00012 | .00020 | .00041 | .00351 | .00090 |
| %RSD | 4.6066 | 2.1570 | 8.4121 | 10.132 | 4.3652 | 4.8069 | .87386 | 1.9628 |
| #1 | .00080 | .00241 | .00217 | .00110 | .00429 | .00885 | .39790 | .04628 |
| #2 | .00082 | .00250 | .00223 | .00131 | .00447 | .00811 | .40469 | .04459 |
| #3 | .00087 | .00251 | .00253 | .00111 | .00468 | .00880 | .40283 | .04595 |

| 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 | **.01532** | **.13693** | **.00165** | **.02887** | **.01337** | **.00036** | **.01248** | **.02337** |
| Stddev | .00014 | .00068 | .00002 | .00007 | .00032 | .00001 | .00011 | .00008 |
| %RSD | .91456 | .49814 | 1.5111 | .22801 | 2.4182 | 1.7831 | .90652 | .35117 |
| #1 | .01548 | .13771 | .00165 | .02880 | .01328 | .00036 | .01249 | .02347 |
| #2 | .01528 | .13645 | .00163 | .02892 | .01310 | .00036 | .01236 | .02332 |
| #3 | .01521 | .13664 | .00168 | .02891 | .01373 | .00037 | .01258 | .02333 |

| 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 | **.02205** | **.00128** | **.01939** | **.00336** | **.09341** | **.00671** | **.08341** | **.10801** |
| Stddev | .00017 | .00006 | .00004 | .00009 | .00070 | .00014 | .00014 | .00007 |
| %RSD | .78437 | 4.5803 | .22542 | 2.8203 | .75186 | 2.1059 | .17131 | .06344 |
| #1 | .02210 | .00132 | .01940 | .00341 | .09298 | .00685 | .08352 | .10796 |
| #2 | .02219 | .00129 | .01934 | .00325 | .09303 | .00657 | .08347 | .10800 |
| #3 | .02186 | .00121 | .01942 | .00341 | .09422 | .00671 | .08325 | .10809 |

| 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 | **.00548** | **.01435** | **.00082** | **-.00030** | **.00077** | **.01538** | **.20532** |
| Stddev | .00005 | .00052 | .00001 | .00001 | .00009 | .00098 | .00029 |
| %RSD | .87405 | 3.6161 | 1.5652 | 4.5624 | 11.993 | 6.3593 | .14071 |
| #1 | .00553 | .01419 | .00080 | -.00028 | .00082 | .01449 | .20499 |
| #2 | .00546 | .01393 | .00082 | -.00029 | .00082 | .01643 | .20552 |
| #3 | .00544 | .01493 | .00083 | -.00031 | .00066 | .01522 | .20545 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: S1 Acquired: 8/6/2025 11:35:12 Type: Cal
Method: 6010-200.7 NEW(v85) 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 | 6156.3 | 101830. | 8119.0 | 5254.4 | 7396.4 |
| Stddev | 11.1 | 67. | 19.2 | 29.4 | 19.9 |
| %RSD | .17983 | .06543 | .23602 | .55927 | .26869 |
| #1 | 6144.2 | 101900. | 8117.8 | 5220.6 | 7376.6 |
| #2 | 6158.7 | 101830. | 8100.5 | 5273.9 | 7396.3 |
| #3 | 6165.9 | 101760. | 8138.8 | 5268.7 | 7416.3 |

Sample Name: S2 Acquired: 8/6/2025 11:39:28 Type: Cal
Method: 6010-200.7 NEW(v85) 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 | **.03311** | **.02990** | **.14261** | **.02876** | **.06058** | **.11079** | **4.7381** | **.29671** |
| Stddev | .00004 | .00152 | .00015 | .00007 | .00021 | .00167 | .0194 | .00286 |
| %RSD | .12850 | 5.1003 | .10470 | .24512 | .34399 | 1.5040 | .41035 | .96334 |
| #1 | .03311 | .03120 | .14249 | .02884 | .06039 | .10891 | 4.7198 | .29472 |
| #2 | .03306 | .03027 | .14256 | .02873 | .06054 | .11209 | 4.7360 | .29542 |
| #3 | .03315 | .02822 | .14277 | .02871 | .06080 | .11137 | 4.7585 | .29999 |

| 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 | **1.0189** | **.25008** | **.02377** | **.36284** | **.11828** | **.00253** | **.19951** | **.04162** |
| Stddev | .0011 | .00232 | .00011 | .00107 | .00036 | .00002 | .00090 | .00019 |
| %RSD | .10906 | .92591 | .46728 | .29583 | .30210 | .84287 | .44908 | .46680 |
| #1 | 1.0179 | .24863 | .02370 | .36170 | .11821 | .00251 | .19891 | .04140 |
| #2 | 1.0187 | .24887 | .02390 | .36298 | .11797 | .00254 | .19908 | .04174 |
| #3 | 1.0201 | .25275 | .02371 | .36383 | .11867 | .00254 | .20054 | .04173 |

| 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 | **.21431** | **.03486** | **.03763** | **.03620** | **.82300** | **.01559** | **.63678** | **.40511** |
| Stddev | .00056 | .00019 | .00022 | .00056 | .00338 | .00008 | .00585 | .00077 |
| %RSD | .25994 | .53923 | .57270 | 1.5578 | .41009 | .49025 | .91902 | .18994 |
| #1 | .21412 | .03505 | .03767 | .03556 | .81910 | .01564 | .63524 | .40509 |
| #2 | .21388 | .03467 | .03783 | .03641 | .82505 | .01564 | .63185 | .40589 |
| #3 | .21494 | .03485 | .03740 | .03663 | .82484 | .01551 | .64325 | .40435 |

| 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 | **.10263** | **.25571** | **.00165** | **.01976** | **.01835** | **.37759** | **7.2826** |
| Stddev | .00013 | .00237 | .00003 | .00015 | .00014 | .00138 | .0208 |
| %RSD | .12246 | .92628 | 1.5643 | .78064 | .78093 | .36462 | .28610 |
| #1 | .10268 | .25383 | .00167 | .01994 | .01852 | .37615 | 7.2670 |
| #2 | .10272 | .25494 | .00167 | .01965 | .01825 | .37890 | 7.2746 |
| #3 | .10248 | .25837 | .00162 | .01969 | .01828 | .37772 | 7.3063 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: S2 Acquired: 8/6/2025 11:39:28 Type: Cal
Method: 6010-200.7 NEW(v85) 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 | 6080.3 | 100150. | 8240.7 | 5210.2 | 7078.7 |
| Stddev | 18.3 | 446. | 48.4 | 10.3 | 20.6 |
| %RSD | .30155 | .44562 | .58712 | .19825 | .29070 |
| #1 | 6089.6 | 99795. | 8256.7 | 5198.3 | 7089.4 |
| #2 | 6092.1 | 100010. | 8279.0 | 5215.0 | 7091.8 |
| #3 | 6059.2 | 100650. | 8186.3 | 5217.2 | 7055.0 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: S3 Acquired: 8/6/2025 11:43:31 Type: Cal
Method: 6010-200.7 NEW(v85) 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 | **.10812** | **.09904** | **.46195** | **.09343** | **.19405** | **.34963** | **15.008** | **.95548** |
| Stddev | .00040 | .00402 | .00114 | .00017 | .00043 | .00544 | .319 | .01972 |
| %RSD | .36585 | 4.0585 | .24744 | .18654 | .22007 | 1.5554 | 2.1260 | 2.0634 |
| #1 | .10783 | .10010 | .46064 | .09351 | .19360 | .35201 | 15.159 | .96783 |
| #2 | .10857 | .10243 | .46273 | .09355 | .19409 | .34340 | 14.642 | .93275 |
| #3 | .10795 | .09460 | .46249 | .09323 | .19445 | .35347 | 15.224 | .96588 |

| 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 | **3.3557** | **.79761** | **.07448** | **1.1793** | **.37620** | **.00794** | **.63088** | **.13144** |
| Stddev | .0071 | .01926 | .00022 | .0018 | .00062 | .00001 | .01214 | .00272 |
| %RSD | .21127 | 2.4148 | .29836 | .15365 | .16470 | .18593 | 1.9241 | 2.0700 |
| #1 | 3.3480 | .80925 | .07444 | 1.1772 | .37572 | .00795 | .63798 | .13274 |
| #2 | 3.3572 | .77538 | .07428 | 1.1800 | .37598 | .00795 | .61686 | .12832 |
| #3 | 3.3619 | .80821 | .07472 | 1.1806 | .37690 | .00792 | .63780 | .13328 |

| 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 | **.69728** | **.11182** | **.11319** | **.11655** | **2.6120** | **.05326** | **2.0344** | **1.2868** |
| Stddev | .00122 | .00007 | .00051 | .00235 | .0046 | .00036 | .0440 | .0023 |
| %RSD | .17565 | .06031 | .45334 | 2.0164 | .17701 | .67408 | 2.1614 | .18100 |
| #1 | .69640 | .11178 | .11261 | .11827 | 2.6117 | .05284 | 2.0623 | 1.2843 |
| #2 | .69675 | .11190 | .11337 | .11387 | 2.6167 | .05348 | 1.9837 | 1.2889 |
| #3 | .69868 | .11179 | .11359 | .11750 | 2.6075 | .05344 | 2.0573 | 1.2873 |

| 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 | **.33509** | **.81897** | **.00522** | **.06796** | **.06128** | **1.1788** | **23.269** |
| Stddev | .00090 | .02017 | .00003 | .00043 | .00042 | .0201 | .614 |
| %RSD | .26826 | 2.4623 | .65052 | .63678 | .68403 | 1.7060 | 2.6369 |
| #1 | .33438 | .82999 | .00518 | .06831 | .06123 | 1.1876 | 23.455 |
| #2 | .33610 | .79569 | .00524 | .06808 | .06172 | 1.1558 | 22.584 |
| #3 | .33480 | .83122 | .00524 | .06748 | .06088 | 1.1930 | 23.767 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: S3 Acquired: 8/6/2025 11:43:31 Type: Cal
Method: 6010-200.7 NEW(v85) 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 | **5814.8** | **96001.** | **7989.0** | **4952.6** | **6590.2** |
| Stddev | 7.4 | 156. | 169.5 | 21.0 | 5.8 |
| %RSD | .12683 | .16261 | 2.1216 | .42340 | .08802 |
| #1 | 5807.2 | 96166. | 7882.1 | 4967.8 | 6583.6 |
| #2 | 5821.9 | 95856. | 8184.4 | 4928.7 | 6594.3 |
| #3 | 5815.2 | 95980. | 7900.5 | 4961.4 | 6592.8 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: S4 Acquired: 8/6/2025 11:47:36 Type: Cal
Method: 6010-200.7 NEW(v85) 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 | **.22703** | **.17897** | **.95453** | **.19099** | **.40636** | **.73850** | **31.386** | **1.9941** |
| Stddev | .00023 | .00256 | .00121 | .00048 | .00017 | .00239 | .324 | .0078 |
| %RSD | .10202 | 1.4282 | .12644 | .25097 | .04135 | .32334 | 1.0320 | .39340 |
| #1 | .22718 | .17607 | .95552 | .19053 | .40650 | .73748 | 31.238 | 1.9894 |
| #2 | .22714 | .17995 | .95319 | .19148 | .40641 | .74123 | 31.163 | 1.9897 |
| #3 | .22676 | .18089 | .95489 | .19095 | .40618 | .73679 | 31.758 | 2.0032 |

| 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 | **7.0084** | **1.6822** | **.15457** | **2.4726** | **.77160** | **.01640** | **1.3253** | **.27890** |
| Stddev | .0122 | .0028 | .00066 | .0040 | .00062 | .00009 | .0008 | .00131 |
| %RSD | .17344 | .16696 | .42499 | .15967 | .08078 | .54952 | .06424 | .46997 |
| #1 | 7.0197 | 1.6824 | .15532 | 2.4766 | .77159 | .01649 | 1.3261 | .28032 |
| #2 | 6.9956 | 1.6849 | .15407 | 2.4687 | .77098 | .01641 | 1.3244 | .27866 |
| #3 | 7.0099 | 1.6793 | .15433 | 2.4725 | .77223 | .01631 | 1.3254 | .27773 |

| 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 | **1.4538** | **.23057** | **.24095** | **.24761** | **5.4190** | **.11319** | **4.1456** | **2.7295** |
| Stddev | .0026 | .00023 | .00119 | .00173 | .0120 | .00031 | .0107 | .0019 |
| %RSD | .17842 | .09813 | .49558 | .69791 | .22214 | .27389 | .25906 | .06814 |
| #1 | 1.4561 | .23059 | .24228 | .24960 | 5.4320 | .11354 | 4.1394 | 2.7288 |
| #2 | 1.4510 | .23034 | .24061 | .24681 | 5.4167 | .11296 | 4.1394 | 2.7280 |
| #3 | 1.4543 | .23079 | .23996 | .24643 | 5.4083 | .11307 | 4.1580 | 2.7316 |

| 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 | **.70362** | **1.7340** | **.01092** | **.14118** | **.12597** | **2.5846** | **48.315** |
| Stddev | .00164 | .0044 | .00007 | .00112 | .00018 | .0027 | .189 |
| %RSD | .23292 | .25590 | .60057 | .79339 | .14609 | .10562 | .39177 |
| #1 | .70518 | 1.7347 | .01100 | .14246 | .12611 | 2.5864 | 48.106 |
| #2 | .70191 | 1.7380 | .01088 | .14068 | .12576 | 2.5859 | 48.474 |
| #3 | .70376 | 1.7292 | .01089 | .14039 | .12603 | 2.5814 | 48.365 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: S4 Acquired: 8/6/2025 11:47:36 Type: Cal
Method: 6010-200.7 NEW(v85) 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 | 5791.2 | 96417. | 7841.2 | 4947.2 | 6506.0 |
| Stddev | 9.5 | 388. | 11.5 | 22.1 | 20.0 |
| %RSD | .16433 | .40257 | .14632 | .44688 | .30707 |
| #1 | 5784.8 | 95980. | 7828.2 | 4936.4 | 6488.9 |
| #2 | 5802.1 | 96546. | 7850.1 | 4932.5 | 6527.9 |
| #3 | 5786.6 | 96724. | 7845.3 | 4972.6 | 6501.1 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: S5 Acquired: 8/6/2025 11:51:47 Type: Cal
Method: 6010-200.7 NEW(v85) 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 | **.46594** | **.37134** | **1.9908** | **.39827** | **.82607** | **1.4764** | **63.986** | **4.0327** |
| Stddev | .00141 | .01119 | .0049 | .00117 | .00237 | .0116 | .835 | .0149 |
| %RSD | .30267 | 3.0133 | .24822 | .29386 | .28685 | .78303 | 1.3048 | .37038 |
| #1 | .46560 | .38425 | 1.9911 | .39847 | .82427 | 1.4631 | 63.024 | 4.0394 |
| #2 | .46473 | .36527 | 1.9857 | .39701 | .82520 | 1.4844 | 64.517 | 4.0431 |
| #3 | .46749 | .36450 | 1.9956 | .39932 | .82876 | 1.4817 | 64.418 | 4.0156 |

| 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 | **14.507** | **3.3618** | **.30681** | **5.0962** | **1.5515** | **.03301** | **2.6401** | **.55487** |
| Stddev | .029 | .0187 | .00129 | .0136 | .0048 | .00030 | .0179 | .00436 |
| %RSD | .19951 | .55566 | .42012 | .26731 | .30769 | .91253 | .67699 | .78607 |
| #1 | 14.508 | 3.3466 | .30665 | 5.0970 | 1.5493 | .03266 | 2.6204 | .55000 |
| #2 | 14.478 | 3.3827 | .30816 | 5.0821 | 1.5483 | .03316 | 2.6554 | .55841 |
| #3 | 14.535 | 3.3562 | .30560 | 5.1093 | 1.5570 | .03321 | 2.6445 | .55619 |

| 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 | **2.9969** | **.46939** | **.48820** | **.49359** | **10.858** | **.23452** | **8.6057** | **5.3677** |
| Stddev | .0061 | .00041 | .00483 | .00449 | .014 | .00201 | .0281 | .0133 |
| %RSD | .20440 | .08815 | .98960 | .90891 | .12759 | .85525 | .32646 | .24858 |
| #1 | 2.9952 | .46964 | .48269 | .48855 | 10.850 | .23223 | 8.6235 | 5.3668 |
| #2 | 2.9918 | .46891 | .49019 | .49715 | 10.849 | .23538 | 8.6202 | 5.3548 |
| #3 | 3.0037 | .46961 | .49171 | .49506 | 10.874 | .23595 | 8.5733 | 5.3814 |

| 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 | **1.4315** | **3.4791** | **.02260** | **.30169** | **.27549** | **5.3135** | **97.890** |
| Stddev | .0032 | .0243 | .00026 | .00206 | .00159 | .0407 | .894 |
| %RSD | .22549 | .69919 | 1.1497 | .68332 | .57822 | .76585 | .91343 |
| #1 | 1.4335 | 3.4545 | .02231 | .30407 | .27664 | 5.2665 | 97.192 |
| #2 | 1.4278 | 3.5032 | .02267 | .30054 | .27367 | 5.3370 | 98.897 |
| #3 | 1.4332 | 3.4797 | .02281 | .30045 | .27616 | 5.3369 | 97.580 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: S5 Acquired: 8/6/2025 11:51:47 Type: Cal
Method: 6010-200.7 NEW(v85) 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 | 5566.7 | 94213. | 7731.3 | 4803.4 | 6053.3 |
| Stddev | 18.7 | 164. | 34.6 | 13.6 | 20.8 |
| %RSD | .33565 | .17402 | .44759 | .28218 | .34318 |
| #1 | 5558.0 | 94246. | 7712.7 | 4799.0 | 6037.3 |
| #2 | 5588.2 | 94035. | 7709.9 | 4818.6 | 6076.8 |
| #3 | 5554.0 | 94357. | 7771.2 | 4792.5 | 6045.8 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: ICV01 Acquired: 8/6/2025 11:55:58 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **3.896889** | **3.972949** | **3.830070** | **3.939694** | **4.071215** | **7.939463** |
| Stddev | .029584 | .062152 | .026952 | .028575 | .031686 | .020677 |
| %RSD | .7591625 | 1.564387 | .7036842 | .7253091 | .7782931 | .2604333 |
| #1 | 3.919663 | 3.954705 | 3.848435 | 3.956459 | 4.091589 | 7.959076 |
| #2 | 3.907552 | 4.042182 | 3.842647 | 3.955924 | 4.087346 | 7.941447 |
| #3 | 3.863452 | 3.921961 | 3.799129 | 3.906700 | 4.034709 | 7.917865 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **7.997037** | **.2055471** | **1.948287** | **19.97206** | **.8044131** | **1.980835** |
| Stddev | .020692 | .0003660 | .012211 | .11466 | .0016992 | .013353 |
| %RSD | .2587449 | .1780815 | .6267638 | .5740785 | .2112361 | .6741163 |
| #1 | 8.004885 | .2053949 | 1.958912 | 20.09897 | .8041159 | 1.992238 |
| #2 | 8.012657 | .2052818 | 1.951001 | 19.94128 | .8062414 | 1.984122 |
| #3 | 7.973569 | .2059647 | 1.934947 | 19.87595 | .8028822 | 1.966146 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.013113** | **4.004670** | **2.008490** | **20.02720** | **1.975759** | **1.015856** |
| Stddev | .006128 | .024808 | .008489 | .06336 | .013264 | .001351 |
| %RSD | .6048647 | .6194794 | .4226470 | .3163621 | .6713472 | .1330189 |
| #1 | 1.018469 | 4.031097 | 2.015299 | 20.09972 | 1.987022 | 1.017231 |
| #2 | 1.014439 | 4.001030 | 2.011191 | 19.98257 | 1.979115 | 1.014530 |
| #3 | 1.006430 | 3.981883 | 1.998979 | 19.99931 | 1.961139 | 1.015809 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **19.40868** | **2.028000** | **1.988186** | **19.58666** | F **.0152808** | F **.0021511** |
| Stddev | .11531 | .003221 | .002531 | .06598 | .0003872 | .0003712 |
| %RSD | .5941063 | .1588454 | .1272776 | .3368742 | 2.533986 | 17.25499 |
| #1 | 19.40402 | 2.031019 | 1.989788 | 19.64884 | .0155526 | .0025797 |
| #2 | 19.52625 | 2.028372 | 1.985269 | 19.59371 | .0154523 | .0019398 |
| #3 | 19.29577 | 2.024608 | 1.989501 | 19.51744 | .0148374 | .0019339 |

Sample Name: ICV01 Acquired: 8/6/2025 11:55:58 Type: Unk
Method: 6010-200.7 NEW(v85) 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 .0008199 | F -.004290 | F -.026971 | F .0061689 | F .0171795 | F .0014324 |
| Stddev | .0006206 | .000481 | .005535 | .0028976 | .0016188 | .0047701 |
| %RSD | 75.68571 | 11.21425 | 20.52118 | 46.97138 | 9.423007 | 333.0204 |
| #1 | .0015348 | -.003780 | -.027813 | .0037371 | .0159698 | .0066094 |
| #2 | .0004204 | -.004735 | -.021064 | .0093750 | .0165503 | -.002785 |
| #3 | .0005045 | -.004356 | -.032037 | .0053946 | .0190185 | .000473 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | F -.003035 |
| Stddev | .000185 |
| %RSD | 6.095169 |
| #1 | -.002842 |
| #2 | -.003051 |
| #3 | -.003211 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5769.351 | 95561.75 | 7853.009 | 4950.396 | 6502.815 |
| Stddev | 33.910 | 401.18 | 17.616 | 9.426 | 42.136 |
| %RSD | .5877553 | .4198093 | .2243209 | .1904056 | .6479656 |
| #1 | 5744.157 | 95231.91 | 7838.083 | 4940.685 | 6467.675 |
| #2 | 5755.990 | 95444.98 | 7848.503 | 4950.994 | 6491.243 |
| #3 | 5807.906 | 96008.35 | 7872.440 | 4959.508 | 6549.528 |

Sample Name: LLICV01 Acquired: 8/6/2025 12:09:08 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **.0202200** | **.0438960** | **.0116563** | **.0178854** | **.0516475** | **.1048612** |
| Stddev | .0012189 | .0015963 | .0016305 | .0037204 | .0010914 | .0071539 |
| %RSD | 6.028065 | 3.636534 | 13.98832 | 20.80134 | 2.113244 | 6.822253 |
| #1 | .0197429 | .0434021 | .0108731 | .0143164 | .0527952 | .1069101 |
| #2 | .0216053 | .0426049 | .0135307 | .0175990 | .0515245 | .1107672 |
| #3 | .0193119 | .0456808 | .0105652 | .0217407 | .0506227 | .0969065 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1037392** | **.0064816** | **.0058221** | **2.100338** | **.0105552** | **.0299430** |
| Stddev | .0004305 | .0000653 | .0000554 | .012246 | .0000409 | .0002591 |
| %RSD | .4149532 | 1.007056 | .9514285 | .5830364 | .3876180 | .8652130 |
| #1 | .1042265 | .0065074 | .0057592 | 2.109085 | .0105993 | .0296506 |
| #2 | .1034107 | .0064074 | .0058430 | 2.105586 | .0105185 | .0300342 |
| #3 | .1035804 | .0065300 | .0058639 | 2.086343 | .0105479 | .0301441 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0213359** | **.1078928** | **.0227420** | **2.229825** | **.0410743** | **.0104542** |
| Stddev | .0002705 | .0048935 | .0007009 | .042401 | .0000598 | .0008395 |
| %RSD | 1.267716 | 4.535493 | 3.082045 | 1.901561 | .1455569 | 8.030232 |
| #1 | .0216412 | .1066097 | .0232828 | 2.232553 | .0410103 | .0108255 |
| #2 | .0211263 | .1037687 | .0219501 | 2.270796 | .0410838 | .0094930 |
| #3 | .0212402 | .1133000 | .0229931 | 2.186125 | .0411287 | .0110440 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.832929** | **.0386945** | **.0414106** | **1.836581** | **.1106650** | **.2064541** |
| Stddev | .013335 | .0013451 | .0001177 | .025314 | .0004638 | .0016333 |
| %RSD | .7275211 | 3.476176 | .2842019 | 1.378312 | .4191403 | .7911353 |
| #1 | 1.833049 | .0376166 | .0412831 | 1.865725 | .1108874 | .2051506 |
| #2 | 1.819535 | .0382650 | .0414337 | 1.820077 | .1101318 | .2059253 |
| #3 | 1.846204 | .0402018 | .0415150 | 1.823940 | .1109757 | .2082863 |

Sample Name: LLICV01 Acquired: 8/6/2025 12:09:08 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **.0388096** | **.0398087** | **.3736837** | **.0196311** | F **.0246205** | F **.0132365** |
| Stddev | .0006207 | .0005527 | .0121335 | .0046916 | .0007395 | .0011110 |
| %RSD | 1.599285 | 1.388529 | 3.246997 | 23.89886 | 3.003814 | 8.393776 |
| #1 | .0388875 | .0400428 | .3604839 | .0177033 | .0238911 | .0121244 |
| #2 | .0381536 | .0391774 | .3762160 | .0162104 | .0246005 | .0143464 |
| #3 | .0393876 | .0402057 | .3843513 | .0249795 | .0253698 | .0132387 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | **.0208708** |
| Stddev | .0001343 |
| %RSD | .6436335 |
| #1 | .0209419 |
| #2 | .0207159 |
| #3 | .0209548 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5949.272** | **98685.99** | **7952.034** | **5068.240** | **7023.261** |
| Stddev | 29.218 | 335.45 | 23.176 | 23.451 | 26.414 |
| %RSD | .4911249 | .3399163 | .2914477 | .4627124 | .3760864 |
| #1 | 5982.660 | 99021.79 | 7939.052 | 5087.185 | 7053.463 |
| #2 | 5936.776 | 98685.29 | 7978.791 | 5075.524 | 7004.479 |
| #3 | 5928.379 | 98350.89 | 7938.258 | 5042.011 | 7011.841 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: ICB01 Acquired: 8/6/2025 12:21:31 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **-.001361** | **-.001074** | **.0008766** | **-.002538** | **.0012903** | **-.004791** | **.0017096** |
| Stddev | .000313 | .001927 | .0000735 | .000765 | .0017161 | .012233 | .0011584 |
| %RSD | 22.96577 | 179.4706 | 8.385253 | 30.15197 | 132.9997 | 255.3287 | 67.75956 |
| #1 | -.001603 | -.001923 | .0009399 | -.003249 | -.000033 | .007279 | .0003807 |
| #2 | -.001472 | .001132 | .0008940 | -.001728 | .003229 | -.017182 | .0022421 |
| #3 | -.001008 | -.002431 | .0007960 | -.002638 | .000675 | -.004471 | .0025062 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000683** | **.0000182** | **-.012107** | **-.000049** | **.0000972** | **.0000061** | **-.009142** |
| Stddev | .0000444 | .0001085 | .003829 | .000097 | .0000941 | .0000995 | .002930 |
| %RSD | 65.09923 | 598.0188 | 31.62775 | 198.1538 | 96.78705 | 1633.168 | 32.04695 |
| #1 | .0000303 | .0000324 | -.011056 | .000063 | .0000178 | .0000010 | -.012228 |
| #2 | .0001172 | -.000097 | -.008913 | -.000108 | .0002011 | .0001080 | -.008799 |
| #3 | .0000573 | .000119 | -.016352 | -.000102 | .0000727 | -.000091 | -.006399 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0006302** | **.0000391** | **-.000008** | **.0000644** | **-.113643** | **-.004350** | **-.000721** |
| Stddev | .0005608 | .0238975 | .000399 | .0004002 | .010808 | .005295 | .000226 |
| %RSD | 88.99359 | 61066.32 | 5257.004 | 621.7612 | 9.510533 | 121.7226 | 31.33684 |
| #1 | .0011734 | -.017714 | .000035 | -.000188 | -.101408 | -.001152 | -.000876 |
| #2 | .0006639 | .027211 | .000369 | -.000145 | -.121892 | -.001436 | -.000824 |
| #3 | .0000533 | -.009380 | -.000427 | .000526 | -.117629 | -.010462 | -.000462 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.102255** | **-.000808** | **-.000454** | **-.000444** | **.0020660** | **-.009570** | **.0047842** |
| Stddev | .035489 | .000742 | .000049 | .000199 | .0004966 | .010206 | .0014206 |
| %RSD | 34.70663 | 91.86832 | 10.84808 | 44.73344 | 24.03378 | 106.6528 | 29.69334 |
| #1 | -.142879 | -.000442 | -.000469 | -.000315 | .0025107 | .002171 | .0035434 |
| #2 | -.077278 | -.000320 | -.000399 | -.000344 | .0021572 | -.016325 | .0044754 |
| #3 | -.086608 | -.001662 | -.000495 | -.000673 | .0015302 | -.014555 | .0063338 |

Sample Name: ICB01 Acquired: 8/6/2025 12:21:31 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | .0021945 | -.008104 | .0001124 |
| Stddev | .0017325 | .000344 | .0001273 |
| %RSD | 78.94669 | 4.240838 | 113.2447 |
| #1 | .0031905 | -.008488 | .0001995 |
| #2 | .0031990 | -.007823 | .0001712 |
| #3 | .0001940 | -.008003 | -.000034 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5919.677 | 99620.09 | 7898.053 | 5074.532 | 7096.637 |
| Stddev | 7.569 | 564.23 | 24.820 | 16.499 | 20.671 |
| %RSD | .1278701 | .5663867 | .3142549 | .3251373 | .2912759 |
| #1 | 5915.314 | 99984.40 | 7878.809 | 5073.894 | 7097.728 |
| #2 | 5915.299 | 98970.15 | 7926.068 | 5058.362 | 7075.443 |
| #3 | 5928.417 | 99905.72 | 7889.282 | 5091.341 | 7116.741 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: CRI01 Acquired: 8/6/2025 12:26:09 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **.0184308** | **.0368037** | **.0111626** | **.0210367** | **.0470252** | **.0968692** |
| Stddev | .0024888 | .0011427 | .0011020 | .0022773 | .0032506 | .0064487 |
| %RSD | 13.50373 | 3.104884 | 9.872039 | 10.82518 | 6.912546 | 6.657103 |
| #1 | .0211333 | .0370051 | .0119392 | .0216824 | .0473134 | .1039085 |
| #2 | .0179261 | .0355737 | .0099013 | .0185064 | .0436401 | .0912466 |
| #3 | .0162329 | .0378323 | .0116471 | .0229215 | .0501221 | .0954526 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0964831** | **.0058797** | **.0054719** | **1.968514** | **.0096544** | **.0281764** |
| Stddev | .0011614 | .0000916 | .0000334 | .029716 | .0004704 | .0003799 |
| %RSD | 1.203705 | 1.557435 | .6095781 | 1.509580 | 4.871927 | 1.348281 |
| #1 | .0952306 | .0057793 | .0054662 | 1.934581 | .0094999 | .0281116 |
| #2 | .0975243 | .0059585 | .0054418 | 1.989890 | .0101826 | .0278331 |
| #3 | .0966944 | .0059014 | .0055078 | 1.981072 | .0092807 | .0285845 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0201149** | **.0978702** | **.0227622** | **2.073633** | **.0380312** | **.0099823** |
| Stddev | .0004743 | .0008683 | .0005296 | .008501 | .0004763 | .0004684 |
| %RSD | 2.357754 | .8871537 | 2.326637 | .4099359 | 1.252361 | 4.692214 |
| #1 | .0204039 | .0985453 | .0232695 | 2.063937 | .0376062 | .0104093 |
| #2 | .0195675 | .0968907 | .0228043 | 2.077161 | .0379415 | .0094813 |
| #3 | .0203732 | .0981745 | .0222128 | 2.079802 | .0385460 | .0100563 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.616428** | **.0357119** | **.0385821** | **1.656623** | **.0909983** | **.1934648** |
| Stddev | .038522 | .0008729 | .0002251 | .037897 | .0015636 | .0025977 |
| %RSD | 2.383186 | 2.444168 | .5835373 | 2.287632 | 1.718268 | 1.342738 |
| #1 | 1.642948 | .0359359 | .0383671 | 1.612900 | .0892555 | .1926671 |
| #2 | 1.634096 | .0347488 | .0385630 | 1.676930 | .0914613 | .1913594 |
| #3 | 1.572241 | .0364509 | .0388162 | 1.680040 | .0922780 | .1963678 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: CRI01 Acquired: 8/6/2025 12:26:09 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | .0354190 | .0378026 | .3361011 | .0198461 | .0242220 | F .0077140 |
| Stddev | .0006666 | .0011665 | .0153935 | .0004345 | .0021166 | .0067529 |
| %RSD | 1.881892 | 3.085624 | 4.580023 | 2.189157 | 8.738460 | 87.54111 |
| #1 | .0348310 | .0373988 | .3389123 | .0198303 | .0227015 | .0136014 |
| #2 | .0352830 | .0391173 | .3498952 | .0194198 | .0233251 | .0003425 |
| #3 | .0361431 | .0368917 | .3194957 | .0202883 | .0266394 | .0091982 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0199448 |
| Stddev | .0000919 |
| %RSD | .4605707 |
| #1 | .0198936 |
| #2 | .0200509 |
| #3 | .0198901 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6242.749 | 104667.2 | 8263.750 | 5356.343 | 7437.948 |
| Stddev | 59.167 | 267.5 | 102.041 | 17.271 | 68.891 |
| %RSD | .9477664 | .2555846 | 1.234805 | .3224311 | .9262132 |
| #1 | 6258.379 | 104465.2 | 8371.748 | 5359.605 | 7452.963 |
| #2 | 6292.532 | 104970.6 | 8250.551 | 5371.750 | 7498.094 |
| #3 | 6177.337 | 104565.8 | 8168.951 | 5337.674 | 7362.788 |

Sample Name: ICSA01 Acquired: 8/6/2025 12:31:05 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **.0075004** | **.0136162** | **-.009523** | **-.001745** | **-.004816** | **252.0311** | **.0062925** |
| Stddev | .0009107 | .0038592 | .001908 | .006346 | .001096 | .1791 | .0011393 |
| %RSD | 12.14201 | 28.34246 | 20.03145 | 363.7368 | 22.76459 | .0710556 | 18.10480 |
| #1 | .0066027 | .0180665 | -.011692 | .005392 | -.004654 | 252.2313 | .0053334 |
| #2 | .0074748 | .0115900 | -.008105 | -.003874 | -.003809 | 251.8861 | .0075518 |
| #3 | .0084236 | .0111922 | -.008773 | -.006752 | -.005984 | 251.9759 | .0059923 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0017662** | **-.000199** | **237.1098** | **.0586978** | **.0017984** | **-.000476** | **101.5245** |
| Stddev | .0000381 | .000056 | .1776 | .0002622 | .0002432 | .000672 | .5475 |
| %RSD | 2.158158 | 28.02856 | .0749191 | .4466178 | 13.52118 | 141.0109 | .5392828 |
| #1 | .0017979 | -.000154 | 237.2581 | .0589747 | .0017171 | -.000662 | 101.8240 |
| #2 | .0017239 | -.000261 | 236.9129 | .0586652 | .0016064 | -.001036 | 101.8569 |
| #3 | .0017768 | -.000180 | 237.1582 | .0584534 | .0020719 | .000269 | 100.8925 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0090333** | **251.8681** | **.0059577** | **.0016313** | **-.027239** | **.0009173** | **.0006274** |
| Stddev | .0002269 | .1276 | .0003854 | .0006027 | .004950 | .0009638 | .0000665 |
| %RSD | 2.511222 | .0506490 | 6.469284 | 36.94910 | 18.17090 | 105.0672 | 10.59540 |
| #1 | .0088734 | 251.7563 | .0055233 | .0017684 | -.024982 | -.000185 | .0005713 |
| #2 | .0092929 | 251.8409 | .0060908 | .0021537 | -.023820 | .001601 | .0006100 |
| #3 | .0089336 | 252.0070 | .0062589 | .0009718 | -.032915 | .001336 | .0007008 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0050896** | **.0372257** | **.0001964** | **-.002713** | **-.004619** | **.0273934** | **.0073211** |
| Stddev | .0249669 | .0028094 | .0003773 | .000168 | .001803 | .0054786 | .0033884 |
| %RSD | 490.5475 | 7.546914 | 192.0833 | 6.198067 | 39.03292 | 19.99959 | 46.28297 |
| #1 | -.000407 | .0399347 | -.000151 | -.002740 | -.006533 | .0210867 | .0067377 |
| #2 | .032347 | .0374168 | .000598 | -.002533 | -.004372 | .0309760 | .0109634 |
| #3 | -.016671 | .0343257 | .000143 | -.002865 | -.002952 | .0301175 | .0042623 |

Sample Name: ICSA01 Acquired: 8/6/2025 12:31:05 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **-.000914** | **.0199609** | **.0014257** |
| Stddev | .004437 | .0010271 | .0004738 |
| %RSD | 485.4264 | 5.145709 | 33.23194 |
| #1 | -.003585 | .0210305 | .0014842 |
| #2 | .004208 | .0198700 | .0009253 |
| #3 | -.003366 | .0189823 | .0018674 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5313.500** | **86759.61** | **7687.392** | **4509.910** | **5750.692** |
| Stddev | 11.728 | 193.60 | 38.679 | 19.224 | 8.729 |
| %RSD | .2207276 | .2231469 | .5031513 | .4262700 | .1517853 |
| #1 | 5319.556 | 86536.41 | 7697.794 | 4526.468 | 5752.223 |
| #2 | 5320.963 | 86860.31 | 7719.806 | 4514.436 | 5758.554 |
| #3 | 5299.982 | 86882.10 | 7644.575 | 4488.827 | 5741.299 |

Sample Name: ICSAB01 Acquired: 8/6/2025 12:35:16 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | .1029924 | .1225276 | .0382926 | .0448228 | .5885495 | 252.3578 |
| Stddev | .0034423 | .0013752 | .0019372 | .0049007 | .0047371 | .5464 |
| %RSD | 3.342310 | 1.122349 | 5.058833 | 10.93345 | .8048713 | .2165093 |
| #1 | .1062842 | .1214095 | .0372598 | .0490898 | .5878374 | 252.9732 |
| #2 | .1032761 | .1240631 | .0370908 | .0459081 | .5936023 | 252.1703 |
| #3 | .0994171 | .1221102 | .0405273 | .0394704 | .5842088 | 251.9299 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4981202 | .4909438 | .9598069 | 237.6144 | .5497369 | .4872453 |
| Stddev | .0005533 | .0011050 | .0034636 | .8728 | .0024177 | .0018858 |
| %RSD | .1110755 | .2250686 | .3608637 | .3673098 | .4397963 | .3870363 |
| #1 | .4987454 | .4916066 | .9624546 | 236.7882 | .5517479 | .4889596 |
| #2 | .4976938 | .4915565 | .9610791 | 237.5278 | .5470544 | .4875508 |
| #3 | .4979214 | .4896682 | .9558872 | 238.5273 | .5504084 | .4852253 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | .4720504 | 101.0445 | .4925325 | 252.7098 | .9642706 | .2132125 |
| Stddev | .0025669 | .2716 | .0019607 | .4273 | .0026158 | .0003385 |
| %RSD | .5437755 | .2687962 | .3980956 | .1690877 | .2712703 | .1587519 |
| #1 | .4734970 | 100.7823 | .4933053 | 253.1602 | .9664779 | .2128303 |
| #2 | .4735674 | 101.0264 | .4939890 | 252.3101 | .9649524 | .2134743 |
| #3 | .4690866 | 101.3247 | .4903031 | 252.6591 | .9613814 | .2133329 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | -.107053 | .4805007 | 1.015832 | -.141978 | F .0354556 | F .0001210 |
| Stddev | .007526 | .0049143 | .002171 | .037183 | .0031453 | .0004581 |
| %RSD | 7.029972 | 1.022735 | .2136852 | 26.18931 | 8.871184 | 378.7138 |
| #1 | -.115674 | .4801600 | 1.016836 | -.173585 | .0333353 | -.000021 |
| #2 | -.101797 | .4855764 | 1.017319 | -.101009 | .0339622 | .000633 |
| #3 | -.103688 | .4757656 | 1.013341 | -.151340 | .0390695 | -.000250 |

Sample Name: ICSAB01 Acquired: 8/6/2025 12:35:16 Type: Unk
Method: 6010-200.7 NEW(v85) 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 -.002572 | F -.006777 | F .0181970 | F .0097381 | F -.002722 | F .0109621 |
| Stddev | .001547 | .001160 | .0181739 | .0053606 | .005533 | .0033970 |
| %RSD | 60.14379 | 17.11915 | 99.87275 | 55.04749 | 203.3114 | 30.98881 |
| #1 | -.001013 | -.005441 | .0310346 | .0159255 | .000732 | .0080480 |
| #2 | -.002596 | -.007525 | .0261550 | .0064920 | -.009104 | .0146931 |
| #3 | -.004106 | -.007365 | -.002598 | .0067970 | .000207 | .0101451 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | F .0019679 |
| Stddev | .0001258 |
| %RSD | 6.390568 |
| #1 | .0019461 |
| #2 | .0018545 |
| #3 | .0021031 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5414.125 | 88207.32 | 7775.224 | 4572.767 | 5865.678 |
| Stddev | 22.482 | 298.73 | 8.249 | 21.634 | 21.531 |
| %RSD | .4152414 | .3386639 | .1060989 | .4731118 | .3670744 |
| #1 | 5401.277 | 88500.43 | 7771.231 | 4596.505 | 5849.084 |
| #2 | 5401.014 | 88218.24 | 7784.710 | 4567.638 | 5857.940 |
| #3 | 5440.084 | 87903.28 | 7769.730 | 4554.158 | 5890.008 |

Sample Name: ICSADLX20 Acquired: 8/6/2025 12:39:21 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **-.000273** | **-.003625** | **-.000390** | **-.000096** | **-.000393** | **11.94705** | **-.000575** |
| Stddev | .000423 | .000836 | .000847 | .003339 | .001801 | .05096 | .000778 |
| %RSD | 155.1235 | 23.06986 | 217.1080 | 3464.545 | 458.5476 | .4265262 | 135.1748 |
| #1 | -.000177 | -.004572 | -.001247 | .003286 | -.002203 | 11.89061 | -.000750 |
| #2 | .000095 | -.002987 | .000446 | -.003390 | -.000373 | 11.96087 | .000275 |
| #3 | -.000735 | -.003317 | -.000370 | -.000185 | .001398 | 11.98968 | -.001251 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0002572** | **.0003982** | **11.86145** | **.0026924** | **.0002384** | **.0005255** | **4.700134** |
| Stddev | .0000748 | .0001621 | .05603 | .0000564 | .0003607 | .0002488 | .024063 |
| %RSD | 29.07138 | 40.69878 | .4723638 | 2.093782 | 151.2860 | 47.34545 | .5119618 |
| #1 | .0003382 | .0002119 | 11.86337 | .0027398 | -.000161 | .0004391 | 4.725520 |
| #2 | .0001907 | .0004758 | 11.91649 | .0026301 | .000336 | .0008061 | 4.677659 |
| #3 | .0002427 | .0005068 | 11.80448 | .0027072 | .000540 | .0003315 | 4.697224 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0013269** | **12.41410** | **.0007991** | **-.000138** | **-.179523** | **-.001839** | **-.000864** |
| Stddev | .0000440 | .04640 | .0002005 | .000224 | .004733 | .001394 | .000091 |
| %RSD | 3.315711 | .3738006 | 25.09543 | 162.9923 | 2.636230 | 75.77196 | 10.54931 |
| #1 | .0013066 | 12.38868 | .0007811 | -.000384 | -.177484 | -.000422 | -.000861 |
| #2 | .0012967 | 12.38596 | .0006081 | -.000085 | -.176153 | -.001889 | -.000956 |
| #3 | .0013774 | 12.46766 | .0010080 | .000055 | -.184934 | -.003208 | -.000774 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.160475** | **-.003856** | **-.000639** | **-.001191** | **.0012273** | **.0092111** | **.0017039** |
| Stddev | .032272 | .000363 | .000301 | .000982 | .0008084 | .0189496 | .0004380 |
| %RSD | 20.11037 | 9.414678 | 47.17096 | 82.41769 | 65.86630 | 205.7249 | 25.70702 |
| #1 | -.172187 | -.004252 | -.000905 | -.002145 | .0002942 | -.000504 | .0020478 |
| #2 | -.185255 | -.003778 | -.000700 | -.001245 | .0016738 | -.002911 | .0012107 |
| #3 | -.123982 | -.003539 | -.000312 | -.000184 | .0017140 | .031048 | .0018530 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: ICSADLX20 Acquired: 8/6/2025 12:39:21 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | .0024459 | -.008718 | .0005291 |
| Stddev | .0020497 | .001462 | .0001230 |
| %RSD | 83.80193 | 16.76681 | 23.25006 |
| #1 | .0045222 | -.007107 | .0004866 |
| #2 | .0023914 | -.009959 | .0006678 |
| #3 | .0004239 | -.009088 | .0004330 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5959.742 | 99528.65 | 8047.602 | 5107.649 | 6931.087 |
| Stddev | 6.988 | 115.11 | 53.956 | 16.920 | 14.772 |
| %RSD | .1172547 | .1156523 | .6704655 | .3312602 | .2131333 |
| #1 | 5965.171 | 99446.84 | 8104.458 | 5124.347 | 6942.341 |
| #2 | 5951.857 | 99660.28 | 7997.110 | 5108.084 | 6914.359 |
| #3 | 5962.197 | 99478.84 | 8041.239 | 5090.516 | 6936.560 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: ICSABDLX20 Acquired: 8/6/2025 12:43:37 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **.0038463** | **.0054754** | **.0015534** | **.0039677** | **.0303110** | **12.48811** | **.0246797** |
| Stddev | .0001533 | .0014692 | .0015095 | .0012265 | .0001175 | .03864 | .0005962 |
| %RSD | 3.986851 | 26.83279 | 97.16873 | 30.91276 | .3876813 | .3094487 | 2.415872 |
| #1 | .0039202 | .0071008 | .0031151 | .0047228 | .0302668 | 12.47386 | .0251364 |
| #2 | .0039487 | .0042419 | .0014430 | .0046278 | .0302220 | 12.53186 | .0240052 |
| #3 | .0036700 | .0050836 | .0001022 | .0025525 | .0304442 | 12.45862 | .0248976 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0253796** | **.0466198** | **12.37335** | **.0278667** | **.0237892** | **.0250694** | **4.965799** |
| Stddev | .0002393 | .0002340 | .06656 | .0003662 | .0001418 | .0003221 | .009212 |
| %RSD | .9430413 | .5019267 | .5379462 | 1.314125 | .5959273 | 1.284694 | .1855040 |
| #1 | .0252219 | .0467884 | 12.30033 | .0276478 | .0238899 | .0247141 | 4.967902 |
| #2 | .0256550 | .0463527 | 12.38908 | .0282894 | .0238506 | .0253423 | 4.955717 |
| #3 | .0252619 | .0467184 | 12.43064 | .0276627 | .0236271 | .0251518 | 4.973777 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0260268** | **13.01138** | **.0478819** | **.0099625** | **-.195011** | **.0246722** | **.0490408** |
| Stddev | .0007033 | .02488 | .0004805 | .0003410 | .011930 | .0024852 | .0003233 |
| %RSD | 2.702062 | .1912280 | 1.003545 | 3.422501 | 6.117627 | 10.07275 | .6593297 |
| #1 | .0252343 | 13.00071 | .0484349 | .0101011 | -.202174 | .0243148 | .0489534 |
| #2 | .0265763 | 13.03982 | .0475656 | .0095741 | -.181239 | .0223850 | .0493989 |
| #3 | .0262698 | 12.99362 | .0476453 | .0102124 | -.201621 | .0273166 | .0487702 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.208908** | **-.003592** | **-.000889** | **-.001563** | **.0007711** | **.0089835** | **.0027515** |
| Stddev | .034569 | .000304 | .000141 | .000781 | .0023894 | .0070312 | .0014908 |
| %RSD | 16.54745 | 8.462820 | 15.87280 | 49.98925 | 309.8854 | 78.26762 | 54.17975 |
| #1 | -.248794 | -.003472 | -.001043 | -.000667 | .0004224 | .0044778 | .0044496 |
| #2 | -.190335 | -.003367 | -.000859 | -.001921 | -.001425 | .0170854 | .0016581 |
| #3 | -.187596 | -.003938 | -.000766 | -.002101 | .003316 | .0053873 | .0021468 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: ICSABDLX20 Acquired: 8/6/2025 12:43:37 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | .0032099 | -.007897 | .0001984 |
| Stddev | .0013759 | .001921 | .0001071 |
| %RSD | 42.86380 | 24.32238 | 53.99327 |
| #1 | .0017130 | -.009243 | .0000753 |
| #2 | .0034973 | -.005698 | .0002498 |
| #3 | .0044194 | -.008751 | .0002701 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5881.580 | 97056.07 | 7935.370 | 4974.091 | 6897.223 |
| Stddev | 14.146 | 234.63 | 41.378 | 21.040 | 20.679 |
| %RSD | .2405142 | .2417497 | .5214395 | .4229904 | .2998184 |
| #1 | 5868.913 | 96808.60 | 7976.150 | 4950.239 | 6882.018 |
| #2 | 5896.845 | 97084.32 | 7893.419 | 4990.015 | 6920.770 |
| #3 | 5878.984 | 97275.31 | 7936.542 | 4982.020 | 6888.881 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: CCV01 Acquired: 8/6/2025 12:47:49 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **4.941512** | **5.217044** | **4.879912** | **4.985585** | **4.945562** | **9.858621** | **9.883724** |
| Stddev | .020674 | .111348 | .005355 | .024324 | .011404 | .036944 | .101869 |
| %RSD | .4183682 | 2.134306 | .1097412 | .4878875 | .2305980 | .3747429 | 1.030671 |
| #1 | 4.954020 | 5.341576 | 4.873968 | 5.008728 | 4.956948 | 9.901265 | 9.983346 |
| #2 | 4.917650 | 5.182476 | 4.881405 | 4.960231 | 4.934139 | 9.838280 | 9.779748 |
| #3 | 4.952868 | 5.127080 | 4.884362 | 4.987795 | 4.945599 | 9.836316 | 9.888078 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2493176** | **2.458000** | **24.78089** | **.9873939** | **2.449818** | **1.238327** | **4.992039** |
| Stddev | .0027426 | .001812 | .08418 | .0012822 | .002313 | .001643 | .023072 |
| %RSD | 1.100037 | .0737235 | .3396984 | .1298539 | .0944248 | .1327145 | .4621700 |
| #1 | .2521066 | 2.455967 | 24.86538 | .9871684 | 2.447960 | 1.238372 | 4.982186 |
| #2 | .2466240 | 2.458589 | 24.69702 | .9862394 | 2.449085 | 1.236661 | 5.018401 |
| #3 | .2492222 | 2.459445 | 24.78028 | .9887738 | 2.452409 | 1.239947 | 4.975530 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.480083** | **24.60897** | **2.453987** | **1.241979** | **24.59614** | **2.475160** | **2.493770** |
| Stddev | .007051 | .02753 | .001811 | .002504 | .19048 | .013508 | .001990 |
| %RSD | .2842933 | .1118851 | .0738107 | .2016253 | .7744210 | .5457237 | .0797898 |
| #1 | 2.488153 | 24.58850 | 2.453232 | 1.243959 | 24.46856 | 2.490718 | 2.495797 |
| #2 | 2.475112 | 24.59814 | 2.452675 | 1.242815 | 24.81509 | 2.466424 | 2.493694 |
| #3 | 2.476985 | 24.64027 | 2.456053 | 1.239164 | 24.50476 | 2.468337 | 2.491820 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **24.56052** | **5.015485** | **4.941707** | **4.906986** | **4.948296** | **4.886813** | **4.977613** |
| Stddev | .21663 | .044888 | .010085 | .003105 | .020224 | .059219 | .020404 |
| %RSD | .8820111 | .8949902 | .2040788 | .0632684 | .4087004 | 1.211808 | .4099082 |
| #1 | 24.41894 | 5.058066 | 4.949043 | 4.906160 | 4.970040 | 4.825396 | 5.000031 |
| #2 | 24.80990 | 4.968600 | 4.930207 | 4.910420 | 4.930049 | 4.943557 | 4.972677 |
| #3 | 24.45272 | 5.019791 | 4.945872 | 4.904378 | 4.944799 | 4.891486 | 4.960130 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: CCV01 Acquired: 8/6/2025 12:47:49 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **4.916924** | **4.817027** | **5.018314** |
| Stddev | .009478 | .019386 | .066059 |
| %RSD | .1927613 | .4024545 | 1.316352 |
| #1 | 4.920869 | 4.838160 | 5.027192 |
| #2 | 4.923792 | 4.812852 | 4.948266 |
| #3 | 4.906110 | 4.800068 | 5.079485 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5741.698** | **95893.32** | **7924.165** | **4961.137** | **6399.570** |
| Stddev | 8.708 | 96.57 | 85.314 | 12.832 | 18.886 |
| %RSD | .1516607 | .1007105 | 1.076630 | .2586421 | .2951177 |
| #1 | 5751.257 | 95812.45 | 7837.822 | 4947.665 | 6418.379 |
| #2 | 5734.216 | 95867.27 | 8008.412 | 4962.531 | 6380.607 |
| #3 | 5739.621 | 96000.25 | 7926.262 | 4973.215 | 6399.724 |

Sample Name: CCB01 Acquired: 8/6/2025 12:52:00 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **.0003949** | **.0015049** | **.0025275** | **.0019073** | **.0014743** | **.0237282** | **.0086143** |
| Stddev | .0018590 | .0008601 | .0019874 | .0021659 | .0015443 | .0137142 | .0002275 |
| %RSD | 470.7683 | 57.15187 | 78.63224 | 113.5620 | 104.7518 | 57.79726 | 2.641044 |
| #1 | -.001584 | .0024392 | .0045560 | .0040079 | -.000232 | .0395595 | .0083747 |
| #2 | .000663 | .0007462 | .0024426 | .0020323 | .001879 | .0161425 | .0088274 |
| #3 | .002105 | .0013293 | .0005839 | -.000318 | .002776 | .0154826 | .0086407 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0001583** | **.0009252** | **.0095475** | **.0003892** | **.0008070** | **.0005673** | **.0005904** |
| Stddev | .0000299 | .0001873 | .0142798 | .0001542 | .0001673 | .0007586 | .0062746 |
| %RSD | 18.88863 | 20.24789 | 149.5657 | 39.61462 | 20.73431 | 133.7341 | 1062.868 |
| #1 | .0001918 | .0011008 | .0214166 | .0002500 | .0009244 | .0002825 | .0058150 |
| #2 | .0001341 | .0009470 | .0135256 | .0005549 | .0008812 | -.000008 | -.006369 |
| #3 | .0001492 | .0007280 | -.006300 | .0003626 | .0006154 | .001427 | .002325 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0019080** | **.0105239** | **.0009890** | **.0003429** | **-.253093** | **-.002865** | **.0009588** |
| Stddev | .0003888 | .0534522 | .0003740 | .0005093 | .002443 | .001611 | .0001100 |
| %RSD | 20.37936 | 507.9147 | 37.81650 | 148.5477 | .9652066 | 56.23693 | 11.46852 |
| #1 | .0018760 | .0533311 | .0006489 | .0008291 | -.254245 | -.002715 | .0010847 |
| #2 | .0023119 | .0276272 | .0013895 | -.000187 | -.250287 | -.001334 | .0009101 |
| #3 | .0015362 | -.049387 | .0009286 | .000386 | -.254746 | -.004546 | .0008816 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.157027** | **.0046067** | **.0023660** | **.0028427** | **.0026261** | **.0091694** | **.0071066** |
| Stddev | .012317 | .0002813 | .0002789 | .0002593 | .0015030 | .0032789 | .0007237 |
| %RSD | 7.844044 | 6.106769 | 11.78708 | 9.120558 | 57.23552 | 35.75903 | 10.18310 |
| #1 | -.157469 | .0048749 | .0026146 | .0030760 | .0035447 | .0072236 | .0070890 |
| #2 | -.144495 | .0043139 | .0024189 | .0028884 | .0034420 | .0129550 | .0063919 |
| #3 | -.169118 | .0046314 | .0020644 | .0025636 | .0008915 | .0073295 | .0078390 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: CCB01 Acquired: 8/6/2025 12:52:00 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | .0078245 | -.009294 | .0031746 |
| Stddev | .0034278 | .004296 | .0005514 |
| %RSD | 43.80859 | 46.22573 | 17.36904 |
| #1 | .0051468 | -.004567 | .0037616 |
| #2 | .0116877 | -.012961 | .0030944 |
| #3 | .0066391 | -.010353 | .0026676 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6060.087 | 102036.4 | 8105.329 | 5170.485 | 7237.618 |
| Stddev | 35.379 | 82.5 | 31.471 | 6.932 | 38.889 |
| %RSD | .5838105 | .0808839 | .3882809 | .1340629 | .5373171 |
| #1 | 6050.374 | 102042.5 | 8076.545 | 5176.231 | 7226.356 |
| #2 | 6030.579 | 102115.7 | 8138.932 | 5172.437 | 7205.602 |
| #3 | 6099.309 | 101951.0 | 8100.509 | 5162.786 | 7280.895 |

Sample Name: PB169098BL Acquired: 8/6/2025 12:57:15 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **-.002148** | **-.001549** | **.0013630** | **.0030796** | **-.000200** | **-.003897** | **.0013159** |
| Stddev | .001712 | .001381 | .0006682 | .0032269 | .003035 | .008880 | .0004532 |
| %RSD | 79.71067 | 89.14635 | 49.02412 | 104.7823 | 1519.674 | 227.8798 | 34.43855 |
| #1 | -.002782 | -.000092 | .0009138 | -.000432 | -.002323 | -.012367 | .0013868 |
| #2 | -.000209 | -.002838 | .0021308 | .005914 | -.001553 | -.004667 | .0017295 |
| #3 | -.003453 | -.001717 | .0010443 | .003758 | .003277 | .005344 | .0008315 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000394** | **.0000068** | **-.006400** | **-.000063** | **-.000184** | **.0000164** | **-.000775** |
| Stddev | .0000067 | .0000287 | .008081 | .000374 | .000326 | .0004986 | .005590 |
| %RSD | 17.04295 | 422.5929 | 126.2771 | 596.8772 | 176.8829 | 3048.936 | 721.0813 |
| #1 | .0000445 | .0000397 | .000040 | -.000422 | .000162 | .0000162 | -.007182 |
| #2 | .0000318 | -.000013 | -.015468 | .000324 | -.000231 | .0005151 | .001754 |
| #3 | .0000418 | -.000006 | -.003771 | -.000090 | -.000484 | -.000482 | .003103 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0005447** | **.0015353** | **.0001607** | **-.000045** | **-.218021** | **-.002331** | **-.000366** |
| Stddev | .0005632 | .0144084 | .0000341 | .000373 | .012244 | .002171 | .000054 |
| %RSD | 103.3857 | 938.4807 | 21.19939 | 834.1610 | 5.616141 | 93.12426 | 14.81989 |
| #1 | .0009189 | .0181196 | .0001998 | -.000400 | -.223115 | -.004455 | -.000399 |
| #2 | -.000103 | -.005607 | .0001373 | .000343 | -.226895 | -.002422 | -.000303 |
| #3 | .000818 | -.007907 | .0001450 | -.000077 | -.204052 | -.000116 | -.000396 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.164101** | **.0003327** | **-.000277** | **-.000005** | **.0012965** | **-.009306** | **.0049206** |
| Stddev | .021265 | .0004895 | .000259 | .000577 | .0004704 | .010124 | .0010595 |
| %RSD | 12.95853 | 147.1528 | 93.36039 | 10934.35 | 36.28321 | 108.7913 | 21.53191 |
| #1 | -.174010 | .0000460 | -.000037 | .000206 | .0018072 | -.014625 | .0048620 |
| #2 | -.139690 | .0008979 | -.000244 | .000436 | .0008808 | .002369 | .0060081 |
| #3 | -.178604 | .0000541 | -.000551 | -.000658 | .0012016 | -.015663 | .0038916 |

Sample Name: PB169098BL Acquired: 8/6/2025 12:57:15 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | .0032163 | -.008056 | .0002073 |
| Stddev | .0004272 | .001917 | .0000775 |
| %RSD | 13.28139 | 23.79350 | 37.36442 |
| #1 | .0027294 | -.008919 | .0001922 |
| #2 | .0033918 | -.005859 | .0002912 |
| #3 | .0035278 | -.009390 | .0001385 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5999.764 | 99925.84 | 7884.386 | 5073.669 | 7271.997 |
| Stddev | 7.359 | 559.90 | 27.368 | 6.514 | 7.309 |
| %RSD | .1226593 | .5603168 | .3471153 | .1283953 | .1005150 |
| #1 | 6004.902 | 99730.30 | 7915.013 | 5069.579 | 7279.554 |
| #2 | 5991.333 | 100557.3 | 7875.814 | 5081.181 | 7264.963 |
| #3 | 6003.056 | 99489.9 | 7862.330 | 5070.247 | 7271.473 |

Sample Name: PB169098BS Acquired: 8/6/2025 13:01:35 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **.7934019** | **2.175173** | **.9796129** | **2.027352** | **.8210579** | **2.088364** |
| Stddev | .0024341 | .016448 | .0031007 | .006354 | .0017759 | .033163 |
| %RSD | .3067878 | .7561703 | .3165272 | .3134290 | .2162993 | 1.588002 |
| #1 | .7938624 | 2.172550 | .9831516 | 2.020106 | .8195659 | 2.113420 |
| #2 | .7955729 | 2.192775 | .9783155 | 2.029975 | .8230223 | 2.050757 |
| #3 | .7907705 | 2.160194 | .9773715 | 2.031974 | .8205853 | 2.100915 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2101933** | **.2153066** | **.1948700** | **1.075029** | **.4121077** | **.2011043** |
| Stddev | .0007212 | .0002132 | .0004803 | .007182 | .0006130 | .0001610 |
| %RSD | .3431077 | .0990210 | .2464715 | .6680431 | .1487507 | .0800728 |
| #1 | .2101145 | .2155284 | .1954176 | 1.066737 | .4120698 | .2012461 |
| #2 | .2109506 | .2151032 | .1946728 | 1.079143 | .4115145 | .2009292 |
| #3 | .2095147 | .2152881 | .1945198 | 1.079209 | .4127388 | .2011374 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3166184** | **3.106766** | **.2140641** | **2.104313** | **.5037922** | **.0776085** |
| Stddev | .0004745 | .002105 | .0008171 | .011412 | .0005169 | .0000982 |
| %RSD | .1498737 | .0677694 | .3817327 | .5423031 | .1025996 | .1265433 |
| #1 | .3166316 | 3.109180 | .2133930 | 2.117295 | .5043883 | .0777199 |
| #2 | .3170861 | 3.105804 | .2149741 | 2.099780 | .5035193 | .0775346 |
| #3 | .3161374 | 3.105313 | .2138252 | 2.095865 | .5034690 | .0775709 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.781347** | **.3105333** | **.2128440** | **9.808191** | **.3171269** | **.4125492** |
| Stddev | .012113 | .0014242 | .0005909 | .092825 | .0013693 | .0007843 |
| %RSD | .4355174 | .4586381 | .2776405 | .9464032 | .4317693 | .1901120 |
| #1 | 2.787035 | .3120147 | .2134419 | 9.744414 | .3156974 | .4134535 |
| #2 | 2.789571 | .3091742 | .2128297 | 9.914684 | .3184266 | .4120541 |
| #3 | 2.767437 | .3104110 | .2122603 | 9.765475 | .3172566 | .4121400 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: PB169098BS Acquired: 8/6/2025 13:01:35 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **.6880070** | **.2051340** | **.8725682** | **5.790149** | F **.0011556** | **.1938542** |
| Stddev | .0018005 | .0017837 | .0067065 | .055229 | .0029024 | .0005558 |
| %RSD | .2616983 | .8695475 | .7685906 | .9538505 | 251.1534 | .2867325 |
| #1 | .6900494 | .2030748 | .8684445 | 5.840490 | .0033098 | .1940540 |
| #2 | .6873217 | .2061992 | .8689536 | 5.798886 | .0023019 | .1942825 |
| #3 | .6866496 | .2061281 | .8803066 | 5.731072 | -.002145 | .1932261 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | **.2059197** |
| Stddev | .0003983 |
| %RSD | .1934170 |
| #1 | .2059687 |
| #2 | .2062912 |
| #3 | .2054992 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5978.275** | **99322.29** | **7935.998** | **5076.149** | **7052.816** |
| Stddev | 18.681 | 111.08 | 21.938 | 18.227 | 23.992 |
| %RSD | .3124794 | .1118365 | .2764416 | .3590675 | .3401827 |
| #1 | 5956.839 | 99346.75 | 7932.692 | 5055.153 | 7025.127 |
| #2 | 5986.913 | 99419.10 | 7959.402 | 5087.906 | 7067.450 |
| #3 | 5991.074 | 99201.01 | 7915.900 | 5085.388 | 7065.871 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: Q2756-01 Acquired: 8/6/2025 13:05:36 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **.0079542** | **.0047260** | **.0429603** | **-.000195** | **.0009693** | **.2312390** | **.1221913** |
| Stddev | .0037108 | .0044507 | .0014424 | .004280 | .0012640 | .0126981 | .0008346 |
| %RSD | 46.65144 | 94.17466 | 3.357596 | 2199.725 | 130.4104 | 5.491331 | .6830033 |
| #1 | .0045034 | .0098499 | .0446257 | .001917 | -.000255 | .2434250 | .1219657 |
| #2 | .0074800 | .0018203 | .0421054 | .002619 | .002270 | .2180843 | .1214926 |
| #3 | .0118793 | .0025079 | .0421498 | -.005120 | .000892 | .2322076 | .1231154 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000150** | **-.000059** | **72.35147** | **.0025072** | **.0073129** | **.0053995** | **11.76346** |
| Stddev | .000056 | .000119 | .35503 | .0002431 | .0001444 | .0006879 | .00902 |
| %RSD | 37.41592 | 203.3745 | .4907056 | 9.693945 | 1.974377 | 12.73939 | .0767068 |
| #1 | -.000089 | -.000157 | 72.41718 | .0022830 | .0071510 | .0049689 | 11.75335 |
| #2 | -.000200 | .000074 | 71.96818 | .0024731 | .0073592 | .0050368 | 11.76634 |
| #3 | -.000160 | -.000093 | 72.66906 | .0027655 | .0074284 | .0061928 | 11.77070 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.460773** | **9.917278** | **.0234869** | **.0001099** | **110.9671** | **-.000006** | **.2492127** |
| Stddev | .012904 | .031688 | .0005015 | .0000269 | .4425 | .002747 | .0007369 |
| %RSD | .3728602 | .3195200 | 2.135053 | 24.47846 | .3988114 | 48310.43 | .2957083 |
| #1 | 3.475029 | 9.881711 | .0231465 | .0001323 | 111.3231 | .000024 | .2491070 |
| #2 | 3.449892 | 9.942502 | .0240628 | .0001173 | 111.1065 | -.002768 | .2499968 |
| #3 | 3.457399 | 9.927620 | .0232515 | .0000801 | 110.4716 | .002727 | .2485343 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **37.29840** | **.1130302** | **.0111347** | **-.001190** | **.0042596** | **9.455992** | **.5917301** |
| Stddev | .05797 | .0006717 | .0002105 | .000484 | .0017525 | .012867 | .0081550 |
| %RSD | .1554329 | .5942970 | 1.890431 | 40.64703 | 41.14312 | .1360683 | 1.378161 |
| #1 | 37.36414 | .1123523 | .0113285 | -.001631 | .0022453 | 9.441205 | .5986010 |
| #2 | 37.25461 | .1130428 | .0111650 | -.000673 | .0050984 | 9.464635 | .5938711 |
| #3 | 37.27644 | .1136956 | .0109107 | -.001266 | .0054351 | 9.462136 | .5827182 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: Q2756-01 Acquired: 8/6/2025 13:05:36 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **3.511590** | **-.001339** | **.7356930** |
| Stddev | .019465 | .000441 | .0028402 |
| %RSD | .5542959 | 32.95202 | .3860647 |
| #1 | 3.522871 | -.001640 | .7384714 |
| #2 | 3.522786 | -.001545 | .7327947 |
| #3 | 3.489115 | -.000833 | .7358130 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5620.824** | **93530.80** | **7778.320** | **4779.139** | **6318.806** |
| Stddev | 38.381 | 302.10 | 12.524 | 29.095 | 49.890 |
| %RSD | .6828439 | .3229918 | .1610103 | .6087927 | .7895536 |
| #1 | 5592.010 | 93879.37 | 7784.576 | 4803.565 | 6289.527 |
| #2 | 5606.070 | 93368.24 | 7786.483 | 4786.903 | 6290.479 |
| #3 | 5664.394 | 93344.79 | 7763.901 | 4746.950 | 6376.412 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: Q2756-01DUP Acquired: 8/6/2025 13:14:14 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **.0054793** | **.0009818** | **.0431997** | **.0018259** | **.0013424** | **.2257871** | **.1222735** |
| Stddev | .0043632 | .0036169 | .0005146 | .0016755 | .0017880 | .0159345 | .0010633 |
| %RSD | 79.62958 | 368.3851 | 1.191329 | 91.76585 | 133.1890 | 7.057306 | .8696443 |
| #1 | .0077364 | -.001678 | .0431215 | .0003572 | .0000516 | .2251170 | .1210852 |
| #2 | .0082516 | .005100 | .0427285 | .0036509 | .0033832 | .2101982 | .1225999 |
| #3 | .0004500 | -.000476 | .0437489 | .0014695 | .0005924 | .2420460 | .1231354 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000036** | **-.000037** | **71.59018** | **.0026917** | **.0072387** | **.0055532** | **11.63908** |
| Stddev | .000062 | .000047 | .47637 | .0004557 | .0003330 | .0002957 | .07072 |
| %RSD | 173.8751 | 127.4282 | .6654178 | 16.92893 | 4.600680 | 5.324874 | .6076124 |
| #1 | .000019 | -.000090 | 71.21285 | .0030886 | .0068787 | .0052620 | 11.55917 |
| #2 | -.000023 | -.000022 | 71.43222 | .0027924 | .0073016 | .0055444 | 11.69361 |
| #3 | -.000104 | .000001 | 72.12547 | .0021941 | .0075358 | .0058532 | 11.66444 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.441628** | **9.929338** | **.0238027** | **.0003400** | **110.4267** | **.0030337** | **.2495901** |
| Stddev | .004546 | .035403 | .0002448 | .0001540 | .3006 | .0021707 | .0009684 |
| %RSD | .1320797 | .3565512 | 1.028238 | 45.31010 | .2722606 | 71.55349 | .3879941 |
| #1 | 3.440327 | 9.943663 | .0236979 | .0003228 | 110.4317 | .0030775 | .2500647 |
| #2 | 3.437875 | 9.955334 | .0236278 | .0005019 | 110.7248 | .0008414 | .2484760 |
| #3 | 3.446682 | 9.889017 | .0240824 | .0001952 | 110.1235 | .0051821 | .2502297 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **37.14216** | **.1111640** | **.0115736** | **-.000740** | **.0042134** | **9.403795** | **.6004659** |
| Stddev | .09133 | .0003923 | .0002671 | .001073 | .0007353 | .019575 | .0061680 |
| %RSD | .2459056 | .3529411 | 2.307860 | 145.0349 | 17.45151 | .2081585 | 1.027196 |
| #1 | 37.03678 | .1107259 | .0117975 | -.000055 | .0050211 | 9.414247 | .6066660 |
| #2 | 37.19126 | .1114829 | .0116455 | -.001977 | .0035829 | 9.415926 | .5943306 |
| #3 | 37.19846 | .1112833 | .0112780 | -.000188 | .0040361 | 9.381213 | .6004010 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: Q2756-01DUP Acquired: 8/6/2025 13:14:14 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | 3.507947 | -.000222 | .7356826 |
| Stddev | .008627 | .002070 | .0015994 |
| %RSD | .2459234 | 934.5233 | .2173997 |
| #1 | 3.508208 | -.001805 | .7346512 |
| #2 | 3.499192 | -.000981 | .7348716 |
| #3 | 3.516440 | .002121 | .7375250 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5677.448 | 94863.25 | 7876.567 | 4831.328 | 6399.478 |
| Stddev | 14.617 | 212.32 | 28.784 | 5.403 | 16.474 |
| %RSD | .2574652 | .2238118 | .3654332 | .1118317 | .2574331 |
| #1 | 5661.083 | 95017.94 | 7867.362 | 4825.625 | 6380.800 |
| #2 | 5689.211 | 94950.62 | 7908.827 | 4836.370 | 6411.941 |
| #3 | 5682.049 | 94621.19 | 7853.512 | 4831.989 | 6405.691 |

Sample Name: Q2756-01LX5 Acquired: 8/6/2025 13:18:25 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **.0012088** | **-.006366** | **.0085652** | **.0008175** | **.0011038** | **.0380832** | **.0219530** |
| Stddev | .0011286 | .002113 | .0016576 | .0018848 | .0011646 | .0115305 | .0003079 |
| %RSD | 93.36786 | 33.19672 | 19.35269 | 230.5635 | 105.5094 | 30.27718 | 1.402414 |
| #1 | .0014230 | -.004192 | .0094857 | .0026560 | .0010791 | .0501540 | .0222808 |
| #2 | .0022149 | -.006492 | .0066516 | -.001110 | -.000048 | .0271822 | .0216700 |
| #3 | -.000012 | -.008413 | .0095583 | .000907 | .002281 | .0369133 | .0219080 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.000042** | **-.000070** | **13.37874** | **.0003345** | **.0013157** | **.0008968** | **2.113585** |
| Stddev | .000035 | .000053 | .05644 | .0002832 | .0001406 | .0000489 | .013565 |
| %RSD | 82.86583 | 75.98439 | .4218791 | 84.66256 | 10.68428 | 5.451988 | .6418121 |
| #1 | -.000003 | -.000130 | 13.42594 | .0004076 | .0013774 | .0009533 | 2.114915 |
| #2 | -.000055 | -.000028 | 13.31622 | .0000219 | .0011549 | .0008679 | 2.126437 |
| #3 | -.000069 | -.000052 | 13.39406 | .0005740 | .0014149 | .0008693 | 2.099404 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.6426822** | **1.808584** | **.0044504** | **-.000243** | **18.92943** | **-.003240** | **.0439532** |
| Stddev | .0009579 | .023794 | .0000651 | .000364 | .13930 | .000861 | .0004075 |
| %RSD | .1490392 | 1.315637 | 1.462858 | 149.7401 | .7358656 | 26.56010 | .9270354 |
| #1 | .6433703 | 1.823601 | .0044341 | -.000633 | 18.95214 | -.002670 | .0442584 |
| #2 | .6430881 | 1.781149 | .0043949 | -.000183 | 19.05597 | -.004230 | .0434905 |
| #3 | .6415883 | 1.821001 | .0045220 | .000087 | 18.78017 | -.002821 | .0441107 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **6.565594** | **.0189165** | **.0011597** | **-.001318** | **.0025738** | **1.674311** | **.1090941** |
| Stddev | .041755 | .0006970 | .0001007 | .000755 | .0006092 | .011463 | .0006601 |
| %RSD | .6359698 | 3.684433 | 8.684623 | 57.24770 | 23.66753 | .6846123 | .6050381 |
| #1 | 6.561127 | .0197202 | .0011038 | -.002106 | .0032762 | 1.676052 | .1083620 |
| #2 | 6.609404 | .0185499 | .0010993 | -.001246 | .0022553 | 1.684803 | .1092765 |
| #3 | 6.526253 | .0184793 | .0012760 | -.000602 | .0021900 | 1.662077 | .1096437 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: Q2756-01LX5 Acquired: 8/6/2025 13:18:25 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | .6422701 | -.003590 | .1356261 |
| Stddev | .0012706 | .003366 | .0001808 |
| %RSD | .1978292 | 93.75300 | .1333346 |
| #1 | .6419598 | -.000319 | .1358333 |
| #2 | .6436670 | -.003409 | .1355001 |
| #3 | .6411833 | -.007043 | .1355448 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5878.376 | 98743.50 | 8041.279 | 5004.121 | 6812.245 |
| Stddev | 5.597 | 160.78 | 58.935 | 12.788 | 10.812 |
| %RSD | .0952165 | .1628227 | .7329020 | .2555468 | .1587110 |
| #1 | 5872.527 | 98566.70 | 8026.389 | 4991.624 | 6799.770 |
| #2 | 5883.681 | 98880.94 | 8106.230 | 5003.558 | 6818.070 |
| #3 | 5878.921 | 98782.86 | 7991.217 | 5017.181 | 6818.896 |

Sample Name: Q2756-01MS Acquired: 8/6/2025 13:22:41 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **.7521456** | **1.932020** | **.9216894** | **1.864413** | **.7557432** | **2.099329** | **.2997741** |
| Stddev | .0016923 | .018943 | .0065033 | .009475 | .0033568 | .026977 | .0009141 |
| %RSD | .2249898 | .9804892 | .7055888 | .5082173 | .4441702 | 1.285029 | .3049455 |
| #1 | .7516168 | 1.938904 | .9262571 | 1.872673 | .7581232 | 2.124442 | .3008259 |
| #2 | .7540391 | 1.946559 | .9245676 | 1.866497 | .7572027 | 2.070811 | .2993259 |
| #3 | .7507809 | 1.910597 | .9142436 | 1.854069 | .7519037 | 2.102734 | .2991706 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1894331** | **.1815500** | **66.50875** | **.3816987** | **.1931534** | **.2853242** | **13.49141** |
| Stddev | .0015316 | .0012049 | .11351 | .0029783 | .0012694 | .0019156 | .12183 |
| %RSD | .8085114 | .6636762 | .1706636 | .7802775 | .6571778 | .6713741 | .9030559 |
| #1 | .1891302 | .1823249 | 66.62669 | .3849829 | .1940414 | .2862887 | 13.55861 |
| #2 | .1880756 | .1821633 | 66.40028 | .3809400 | .1937194 | .2865658 | 13.56484 |
| #3 | .1910935 | .1801619 | 66.49928 | .3791731 | .1916995 | .2831180 | 13.35077 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.331042** | **10.90650** | **.4860673** | **.0483690** | **103.1573** | **.2911350** | **.4243048** |
| Stddev | .005026 | .05443 | .0036603 | .0006513 | 1.1598 | .0041758 | .0009539 |
| %RSD | .1508927 | .4990305 | .7530492 | 1.346593 | 1.124347 | 1.434319 | .2248195 |
| #1 | 3.332975 | 10.94074 | .4881168 | .0490817 | 104.1421 | .2954163 | .4233216 |
| #2 | 3.334814 | 10.84375 | .4882438 | .0478046 | 103.4509 | .2909153 | .4243664 |
| #3 | 3.325336 | 10.93502 | .4818413 | .0482208 | 101.8788 | .2870734 | .4252265 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **43.69105** | **.3608580** | **.4148938** | **.6447059** | **.1901518** | **9.373609** | **6.112959** |
| Stddev | .39895 | .0025952 | .0022449 | .0036364 | .0015702 | .101317 | .078052 |
| %RSD | .9131250 | .7191876 | .5410856 | .5640366 | .8257414 | 1.080879 | 1.276833 |
| #1 | 44.01720 | .3597727 | .4161067 | .6467871 | .1919649 | 9.440559 | 6.177466 |
| #2 | 43.80972 | .3589816 | .4162714 | .6468235 | .1892427 | 9.423221 | 6.135216 |
| #3 | 43.24622 | .3638197 | .4123033 | .6405070 | .1892479 | 9.257047 | 6.026196 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: Q2756-01MS Acquired: 8/6/2025 13:22:41 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | 3.148732 | .1783243 | .8596931 |
| Stddev | .025569 | .0026411 | .0029649 |
| %RSD | .8120280 | 1.481056 | .3448772 |
| #1 | 3.167473 | .1769754 | .8630186 |
| #2 | 3.159117 | .1813674 | .8573260 |
| #3 | 3.119604 | .1766299 | .8587346 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6096.669 | 100365.0 | 8306.299 | 5112.671 | 6866.891 |
| Stddev | 39.824 | 517.4 | 58.203 | 15.914 | 49.068 |
| %RSD | .6532108 | .5154736 | .7007056 | .3112607 | .7145563 |
| #1 | 6067.436 | 99771.9 | 8299.834 | 5115.986 | 6833.924 |
| #2 | 6080.544 | 100600.1 | 8367.464 | 5095.361 | 6843.467 |
| #3 | 6142.027 | 100723.1 | 8251.598 | 5126.666 | 6923.281 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: Q2756-01MSD Acquired: 8/6/2025 13:29:44 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **.8207751** | **2.034967** | **1.003596** | **2.026581** | **.8230765** | **2.091585** | **.2965469** |
| Stddev | .0061505 | .043940 | .005780 | .007305 | .0033014 | .035065 | .0052770 |
| %RSD | .7493568 | 2.159231 | .5759376 | .3604704 | .4011062 | 1.676479 | 1.779483 |
| #1 | .8268032 | 1.994646 | 1.008822 | 2.034985 | .8267226 | 2.113281 | .2992961 |
| #2 | .8210132 | 2.028457 | 1.004577 | 2.023003 | .8222171 | 2.110343 | .2998817 |
| #3 | .8145090 | 2.081799 | .997387 | 2.021755 | .8202898 | 2.051131 | .2904629 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1883708** | **.1978325** | **65.51158** | **.4035959** | **.2105356** | **.3098241** | **14.14548** |
| Stddev | .0024734 | .0009998 | 1.02860 | .0209872 | .0010409 | .0015415 | .55338 |
| %RSD | 1.313065 | .5053718 | 1.570103 | 5.200054 | .4943925 | .4975445 | 3.912091 |
| #1 | .1882041 | .1986742 | 66.41481 | .3793935 | .2115263 | .3114872 | 13.50659 |
| #2 | .1909234 | .1980960 | 65.72791 | .4167678 | .2106296 | .3095419 | 14.47480 |
| #3 | .1859850 | .1967274 | 64.39202 | .4146264 | .2094509 | .3084431 | 14.45505 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.291861** | **10.77651** | **.5290899** | **.0561045** | **108.7929** | **.2854486** | **.4487354** |
| Stddev | .054212 | .18473 | .0021803 | .0068894 | 4.5517 | .0054215 | .0228682 |
| %RSD | 1.646849 | 1.714166 | .4120833 | 12.27962 | 4.183774 | 1.899295 | 5.096143 |
| #1 | 3.330289 | 10.92948 | .5314026 | .0481941 | 103.5885 | .2874254 | .4223523 |
| #2 | 3.315442 | 10.82877 | .5287949 | .0607896 | 112.0298 | .2896044 | .4628789 |
| #3 | 3.229852 | 10.57128 | .5270721 | .0593299 | 110.7605 | .2793161 | .4609749 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **45.77777** | **.3604558** | **.4530263** | **.7064118** | **.1880455** | **9.855163** | **6.761929** |
| Stddev | 1.85249 | .0041867 | .0019944 | .0035891 | .0033111 | .396944 | .076219 |
| %RSD | 4.046709 | 1.161493 | .4402320 | .5080712 | 1.760796 | 4.027781 | 1.127184 |
| #1 | 43.64289 | .3607050 | .4552250 | .7099961 | .1900218 | 9.404205 | 6.836832 |
| #2 | 46.96108 | .3645122 | .4525199 | .7064215 | .1898919 | 10.15165 | 6.764498 |
| #3 | 46.72936 | .3561501 | .4513339 | .7028180 | .1842230 | 10.00963 | 6.684458 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: Q2756-01MSD Acquired: 8/6/2025 13:29:44 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **3.420971** | **.1807868** | **.8470997** |
| Stddev | .015679 | .0079329 | .0166142 |
| %RSD | .4583262 | 4.387990 | 1.961303 |
| #1 | 3.422747 | .1871559 | .8591098 |
| #2 | 3.435686 | .1833038 | .8540503 |
| #3 | 3.404479 | .1719008 | .8281390 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5670.266** | **96208.86** | **8449.699** | **4920.983** | **6372.594** |
| Stddev | 14.627 | 4173.48 | 138.546 | 221.847 | 19.951 |
| %RSD | .2579655 | 4.337935 | 1.639653 | 4.508176 | .3130806 |
| #1 | 5656.248 | 101020.9 | 8370.243 | 5176.650 | 6357.234 |
| #2 | 5669.115 | 93576.7 | 8369.178 | 4779.304 | 6365.405 |
| #3 | 5685.434 | 94029.0 | 8609.677 | 4806.995 | 6395.144 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: Q2756-01A Acquired: 8/6/2025 13:33:41 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **.8361268** | **2.166626** | **1.018975** | **2.075386** | **.8327843** | **2.303994** | **.3234192** |
| Stddev | .0033545 | .150517 | .004389 | .005563 | .0038293 | .006225 | .0008579 |
| %RSD | .4011988 | 6.947051 | .4307357 | .2680669 | .4598231 | .2702035 | .2652518 |
| #1 | .8367279 | 2.220449 | 1.018606 | 2.081046 | .8370872 | 2.300286 | .3233214 |
| #2 | .8391401 | 2.282832 | 1.023537 | 2.075188 | .8297509 | 2.311181 | .3243217 |
| #3 | .8325123 | 1.996597 | 1.014782 | 2.069924 | .8315149 | 2.300514 | .3226144 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2078478** | **.2008870** | **71.09775** | **.4219391** | **.2128568** | **.3146091** | **14.54863** |
| Stddev | .0006136 | .0003267 | .54343 | .0056752 | .0002701 | .0003511 | .23085 |
| %RSD | .2952103 | .1626476 | .7643490 | 1.345017 | .1269117 | .1116077 | 1.586728 |
| #1 | .2083734 | .2011777 | 70.47030 | .4284894 | .2129318 | .3142234 | 14.81279 |
| #2 | .2071735 | .2009500 | 71.40398 | .4188279 | .2130815 | .3146940 | 14.38564 |
| #3 | .2079965 | .2005334 | 71.41897 | .4184998 | .2125571 | .3149101 | 14.44745 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.548405** | **11.75748** | **.5371786** | **.0585455** | **111.6239** | **.3144679** | **.4631261** |
| Stddev | .007974 | .13491 | .0011491 | .0011432 | 2.1300 | .0024858 | .0073904 |
| %RSD | .2247111 | 1.147458 | .2139153 | 1.952702 | 1.908174 | .7904632 | 1.595770 |
| #1 | 3.551443 | 11.89448 | .5385053 | .0590941 | 114.0834 | .3118313 | .4715178 |
| #2 | 3.539359 | 11.62476 | .5364979 | .0593111 | 110.3908 | .3167686 | .4575873 |
| #3 | 3.554412 | 11.75319 | .5365326 | .0572314 | 110.3975 | .3148040 | .4602732 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **46.79405** | **.3943551** | **.4498338** | **.7293528** | **.2072517** | **10.11756** | **6.852238** |
| Stddev | .63361 | .0027060 | .0012984 | .0029515 | .0008757 | .21238 | .078046 |
| %RSD | 1.354033 | .6861894 | .2886417 | .4046764 | .4225466 | 2.099077 | 1.138985 |
| #1 | 47.52476 | .3974255 | .4512934 | .7320684 | .2062463 | 10.36116 | 6.921932 |
| #2 | 46.39693 | .3923176 | .4494006 | .7297785 | .2076599 | 9.97129 | 6.866870 |
| #3 | 46.46046 | .3933223 | .4488074 | .7262116 | .2078487 | 10.02024 | 6.767911 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: Q2756-01A Acquired: 8/6/2025 13:33:41 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **3.485924** | **.1994643** | **.9153856** |
| Stddev | .040746 | .0032722 | .0002851 |
| %RSD | 1.168876 | 1.640515 | .0311416 |
| #1 | 3.505259 | .2027945 | .9153379 |
| #2 | 3.513403 | .1962533 | .9156916 |
| #3 | 3.439110 | .1993452 | .9151274 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5629.663** | **93075.60** | **7740.589** | **4783.821** | **6294.883** |
| Stddev | 12.030 | 1081.21 | 43.283 | 53.821 | 17.849 |
| %RSD | .2136858 | 1.161652 | .5591672 | 1.125058 | .2835426 |
| #1 | 5617.893 | 91878.85 | 7779.717 | 4725.121 | 6278.756 |
| #2 | 5629.160 | 93981.97 | 7747.954 | 4830.846 | 6291.833 |
| #3 | 5641.936 | 93365.99 | 7694.096 | 4795.495 | 6314.060 |

Sample Name: CCV02 Acquired: 8/6/2025 13:37:38 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **4.882201** | **5.036119** | **4.830445** | **4.935945** | **4.895992** | **9.775378** | **9.833287** |
| Stddev | .028102 | .070999 | .022054 | .025707 | .014165 | .016649 | .066821 |
| %RSD | .5756041 | 1.409806 | .4565599 | .5208199 | .2893158 | .1703150 | .6795357 |
| #1 | 4.906278 | 5.115603 | 4.850737 | 4.961686 | 4.908785 | 9.794452 | 9.855290 |
| #2 | 4.889002 | 5.013778 | 4.833625 | 4.935877 | 4.898421 | 9.763762 | 9.886333 |
| #3 | 4.851322 | 4.978978 | 4.806974 | 4.910271 | 4.880769 | 9.767919 | 9.758240 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2470363** | **2.425191** | **24.69469** | **.9693398** | **2.421388** | **1.223074** | **4.939450** |
| Stddev | .0010231 | .011185 | .03285 | .0030499 | .009554 | .004538 | .020902 |
| %RSD | .4141366 | .4611919 | .1330226 | .3146351 | .3945505 | .3710001 | .4231679 |
| #1 | .2470423 | 2.433852 | 24.72340 | .9669376 | 2.428445 | 1.227111 | 4.938206 |
| #2 | .2480564 | 2.429157 | 24.65886 | .9683108 | 2.425204 | 1.223949 | 4.919198 |
| #3 | .2460103 | 2.412564 | 24.70180 | .9727711 | 2.410517 | 1.218163 | 4.960947 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.461310** | **24.45423** | **2.424688** | **1.231116** | **24.07350** | **2.455633** | **2.453356** |
| Stddev | .001379 | .08415 | .010407 | .003451 | .05765 | .005795 | .004874 |
| %RSD | .0560404 | .3441107 | .4292222 | .2802981 | .2394947 | .2359987 | .1986539 |
| #1 | 2.460074 | 24.53951 | 2.433590 | 1.232658 | 24.13277 | 2.456050 | 2.454311 |
| #2 | 2.461057 | 24.37125 | 2.427229 | 1.233527 | 24.01761 | 2.449641 | 2.457682 |
| #3 | 2.462798 | 24.45192 | 2.413246 | 1.227163 | 24.07011 | 2.461209 | 2.448076 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **24.46601** | **4.973880** | **4.881195** | **4.847313** | **4.921373** | **4.842158** | **4.978643** |
| Stddev | .10077 | .013440 | .020278 | .022637 | .012012 | .031718 | .036333 |
| %RSD | .4118708 | .2702078 | .4154220 | .4670035 | .2440819 | .6550312 | .7297752 |
| #1 | 24.40000 | 4.975832 | 4.899061 | 4.865220 | 4.923401 | 4.878213 | 5.011781 |
| #2 | 24.41603 | 4.986237 | 4.885368 | 4.854850 | 4.908476 | 4.818560 | 4.984355 |
| #3 | 24.58200 | 4.959570 | 4.859155 | 4.821869 | 4.932242 | 4.829701 | 4.939792 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: CCV02 Acquired: 8/6/2025 13:37:38 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **4.869844** | **4.779567** | **4.967494** |
| Stddev | .032476 | .012543 | .050442 |
| %RSD | .6668734 | .2624396 | 1.015432 |
| #1 | 4.905207 | 4.791842 | 5.023129 |
| #2 | 4.862968 | 4.780088 | 4.924746 |
| #3 | 4.841356 | 4.766772 | 4.954607 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5782.509** | **96307.53** | **7919.523** | **4918.233** | **6450.170** |
| Stddev | 9.023 | 86.02 | 20.801 | 23.306 | 10.949 |
| %RSD | .1560458 | .0893131 | .2626515 | .4738673 | .1697551 |
| #1 | 5775.168 | 96225.06 | 7905.806 | 4893.192 | 6440.208 |
| #2 | 5779.777 | 96396.70 | 7909.306 | 4922.214 | 6448.408 |
| #3 | 5792.583 | 96300.82 | 7943.456 | 4939.291 | 6461.894 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: CCB02 Acquired: 8/6/2025 13:52:24 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **-.000234** | **.0007126** | **.0011722** | **.0040855** | **.0009842** | **.0036086** | **.0017120** |
| Stddev | .002795 | .0013690 | .0007732 | .0011910 | .0017350 | .0036622 | .0003660 |
| %RSD | 1193.581 | 192.1244 | 65.96122 | 29.15245 | 176.2965 | 101.4838 | 21.37795 |
| #1 | .002198 | -.000857 | .0003826 | .0034558 | .0008123 | .0024147 | .0013147 |
| #2 | -.003288 | .001661 | .0012061 | .0054592 | -.000659 | .0006924 | .0020353 |
| #3 | .000387 | .001334 | .0019278 | .0033416 | .002799 | .0077187 | .0017859 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000927** | **.0005804** | **.0076432** | **.0000697** | **.0002320** | **.0003204** | **-.011459** |
| Stddev | .0000362 | .0002264 | .0084887 | .0001580 | .0003208 | .0003643 | .001990 |
| %RSD | 39.05146 | 39.00380 | 111.0616 | 226.8363 | 138.2760 | 113.6796 | 17.36888 |
| #1 | .0000701 | .0003701 | .0112170 | -.000083 | -.000045 | .0006279 | -.009840 |
| #2 | .0000735 | .0005510 | -.002048 | .000233 | .000158 | -.000082 | -.013681 |
| #3 | .0001344 | .0008199 | .013761 | .000059 | .000583 | .000415 | -.010856 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0005973** | **.0083565** | **.0008457** | **.0002355** | **-.035140** | **-.004880** | **-.000951** |
| Stddev | .0003723 | .0163274 | .0001600 | .0002609 | .004708 | .003682 | .000185 |
| %RSD | 62.33956 | 195.3861 | 18.92185 | 110.7672 | 13.39802 | 75.44581 | 19.48730 |
| #1 | .0009524 | .0270328 | .0006614 | .0005362 | -.040222 | -.008780 | -.000771 |
| #2 | .0006296 | -.003214 | .0009500 | .0001001 | -.034273 | -.001465 | -.000942 |
| #3 | .0002098 | .001251 | .0009255 | .0000702 | -.030926 | -.004394 | -.001141 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0339699** | **-.002031** | **.0009688** | **.0007760** | **-.000278** | **-.002779** | **.0059453** |
| Stddev | .0419039 | .000335 | .0003343 | .0008984 | .001784 | .015595 | .0017207 |
| %RSD | 123.3559 | 16.48249 | 34.50126 | 115.7653 | 641.5130 | 561.1282 | 28.94275 |
| #1 | -.008788 | -.001760 | .0006968 | .0002137 | -.002279 | -.020773 | .0079014 |
| #2 | .074964 | -.002405 | .0008678 | .0003023 | .001147 | .005590 | .0052690 |
| #3 | .035733 | -.001929 | .0013420 | .0018121 | .000297 | .006844 | .0046654 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: CCB02 Acquired: 8/6/2025 13:52:24 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | .0060968 | -.004698 | .0004483 |
| Stddev | .0026910 | .003286 | .0000612 |
| %RSD | 44.13721 | 69.94198 | 13.65786 |
| #1 | .0034826 | -.003923 | .0004910 |
| #2 | .0059495 | -.001869 | .0003782 |
| #3 | .0088584 | -.008302 | .0004758 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6000.496 | 99394.47 | 7859.172 | 5038.850 | 7230.862 |
| Stddev | 9.361 | 1208.83 | 32.856 | 47.407 | 20.587 |
| %RSD | .1560014 | 1.216195 | .4180616 | .9408321 | .2847138 |
| #1 | 5995.059 | 100663.8 | 7862.371 | 5092.292 | 7226.152 |
| #2 | 5995.123 | 98257.0 | 7824.834 | 5001.863 | 7213.037 |
| #3 | 6011.305 | 99262.6 | 7890.312 | 5022.395 | 7253.396 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: PB169124BL Acquired: 8/6/2025 13:58:56 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **.0001101** | **-.000795** | **.0000564** | **-.002593** | **.0013887** | **.0068794** |
| Stddev | .0018962 | .002707 | .0005699 | .003348 | .0005461 | .0016407 |
| %RSD | 1722.267 | 340.5001 | 1010.708 | 129.1108 | 39.32514 | 23.84989 |
| #1 | -.001207 | -.003748 | .0006067 | .000278 | .0008739 | .0075724 |
| #2 | .002283 | -.000207 | -.000531 | -.006271 | .0019615 | .0050059 |
| #3 | -.000746 | .001570 | .000094 | -.001787 | .0013308 | .0080600 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0017702** | **.0000233** | **.0000212** | **.0028351** | **.0000783** | **-.000023** |
| Stddev | .0006268 | .0000131 | .0000726 | .0043868 | .0003409 | .000071 |
| %RSD | 35.40792 | 56.17842 | 342.4922 | 154.7301 | 435.5152 | 306.2253 |
| #1 | .0019806 | .0000325 | .0001016 | -.001871 | .0004685 | .000001 |
| #2 | .0022648 | .0000083 | .0000016 | .006810 | -.000072 | -.000103 |
| #3 | .0010653 | .0000292 | -.000040 | .003566 | -.000162 | .000032 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0000579** | **.0434785** | **.0029314** | **-.029927** | **.0002407** | **.0000744** |
| Stddev | .0003398 | .0012384 | .0002599 | .016177 | .0002765 | .0006845 |
| %RSD | 586.7233 | 2.848225 | 8.866245 | 54.05541 | 114.8830 | 919.8723 |
| #1 | -.000334 | .0435818 | .0030805 | -.014612 | .0000037 | .0008569 |
| #2 | .000237 | .0421918 | .0030824 | -.046847 | .0001739 | -.000413 |
| #3 | .000271 | .0446620 | .0026313 | -.028322 | .0005444 | -.000220 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.102577** | **.0000392** | **-.000989** | **-.050402** | **-.003255** | **-.000435** |
| Stddev | .002803 | .0073270 | .000266 | .033181 | .000712 | .000086 |
| %RSD | 2.732930 | 18669.54 | 26.91697 | 65.83320 | 21.87554 | 19.80379 |
| #1 | -.099534 | -.008412 | -.000858 | -.084286 | -.002599 | -.000519 |
| #2 | -.103143 | .003916 | -.001295 | -.048948 | -.004012 | -.000347 |
| #3 | -.105054 | .004613 | -.000814 | -.017971 | -.003155 | -.000440 |

Sample Name: PB169124BL Acquired: 8/6/2025 13:58:56 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | -.000155 | .0013392 | .0025056 | .0028758 | .0062978 | F -.010557 |
| Stddev | .000977 | .0022414 | .0156292 | .0023659 | .0008990 | .003476 |
| %RSD | 632.0346 | 167.3679 | 623.7806 | 82.27023 | 14.27497 | 32.92745 |
| #1 | -.001053 | .0016563 | -.008976 | .0003421 | .0072423 | -.013600 |
| #2 | .000885 | -.001044 | .020305 | .0050274 | .0054525 | -.011303 |
| #3 | -.000296 | .003405 | -.003812 | .0032580 | .0061986 | -.006769 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0003094 |
| Stddev | .0002995 |
| %RSD | 96.81048 |
| #1 | .0006514 |
| #2 | .0001826 |
| #3 | .0000941 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6067.746 | 100185.6 | 7939.404 | 5118.928 | 7337.194 |
| Stddev | 11.813 | 341.0 | 30.117 | 9.464 | 9.882 |
| %RSD | .1946883 | .3404022 | .3793358 | .1848772 | .1346773 |
| #1 | 6065.876 | 100338.1 | 7966.591 | 5118.098 | 7340.573 |
| #2 | 6080.382 | 100423.8 | 7944.592 | 5109.906 | 7344.943 |
| #3 | 6056.979 | 99794.9 | 7907.030 | 5128.779 | 7326.066 |

Sample Name: PB169124BS Acquired: 8/6/2025 14:03:16 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **.7789911** | **2.154414** | **.9600520** | **1.988532** | **.8031002** | **2.058940** |
| Stddev | .0011148 | .059339 | .0049743 | .001655 | .0006580 | .018998 |
| %RSD | .1431128 | 2.754304 | .5181262 | .0832176 | .0819388 | .9226896 |
| #1 | .7780539 | 2.086132 | .9650558 | 1.986649 | .8038580 | 2.080714 |
| #2 | .7786955 | 2.193482 | .9599925 | 1.989755 | .8027696 | 2.045746 |
| #3 | .7802240 | 2.183627 | .9551077 | 1.989191 | .8026730 | 2.050359 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2079174** | **.2125830** | **.1914737** | **1.072270** | **.4101953** | **.1973916** |
| Stddev | .0007593 | .0014221 | .0008980 | .010398 | .0055232 | .0007505 |
| %RSD | .3651714 | .6689431 | .4690020 | .9697641 | 1.346478 | .3802015 |
| #1 | .2083427 | .2117565 | .1922308 | 1.065440 | .4061037 | .1980544 |
| #2 | .2083687 | .2142250 | .1917087 | 1.084237 | .4164778 | .1975436 |
| #3 | .2070408 | .2117674 | .1904815 | 1.067133 | .4080044 | .1965767 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.3095525** | **3.058244** | **.2125154** | **2.061082** | **.4943465** | **.0773050** |
| Stddev | .0008952 | .017736 | .0014418 | .025704 | .0022206 | .0005891 |
| %RSD | .2891929 | .5799290 | .6784367 | 1.247097 | .4492027 | .7620075 |
| #1 | .3105120 | 3.056149 | .2138653 | 2.090168 | .4964164 | .0769773 |
| #2 | .3094060 | 3.076934 | .2126844 | 2.051657 | .4946223 | .0779851 |
| #3 | .3087397 | 3.041649 | .2109966 | 2.041421 | .4920009 | .0769526 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.837213** | **.3035630** | **.2106720** | **9.771813** | **.3114256** | **.4045972** |
| Stddev | .025322 | .0049525 | .0025032 | .105264 | .0029488 | .0003422 |
| %RSD | .8924844 | 1.631467 | 1.188195 | 1.077224 | .9468635 | .0845882 |
| #1 | 2.841592 | .3091646 | .2088977 | 9.750078 | .3107652 | .4048322 |
| #2 | 2.860059 | .3017590 | .2135352 | 9.886248 | .3146485 | .4047549 |
| #3 | 2.809987 | .2997653 | .2095829 | 9.679112 | .3088630 | .4042046 |

Sample Name: PB169124BS Acquired: 8/6/2025 14:03:16 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | .6761033 | .2024253 | .8640193 | 5.718818 | F .0026225 | .1923763 |
| Stddev | .0026463 | .0008286 | .0133183 | .060029 | .0027563 | .0019410 |
| %RSD | .3913976 | .4093210 | 1.541438 | 1.049671 | 105.1027 | 1.008970 |
| #1 | .6759324 | .2033475 | .8732181 | 5.779868 | -.000511 | .1941412 |
| #2 | .6788308 | .2021849 | .8700930 | 5.716720 | .004672 | .1926903 |
| #3 | .6735466 | .2017436 | .8487469 | 5.659866 | .003706 | .1902974 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .2035710 |
| Stddev | .0013698 |
| %RSD | .6728928 |
| #1 | .2043341 |
| #2 | .2043893 |
| #3 | .2019896 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6096.896 | 99859.68 | 7980.613 | 5110.437 | 7192.508 |
| Stddev | 29.536 | 1153.72 | 50.850 | 50.346 | 39.790 |
| %RSD | .4844437 | 1.155344 | .6371677 | .9851625 | .5532081 |
| #1 | 6063.769 | 100935.7 | 8030.451 | 5161.726 | 7148.645 |
| #2 | 6106.438 | 98641.4 | 7928.808 | 5061.090 | 7202.598 |
| #3 | 6120.482 | 100001.9 | 7982.580 | 5108.496 | 7226.281 |

Sample Name: Q2760-01 Acquired: 8/6/2025 14:07:18 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **.0462051** | **-.018884** | **.1718925** | **.0005058** | **-.009048** | **28.87448** | **.1941043** |
| Stddev | .0021353 | .004505 | .0013949 | .0034750 | .001621 | .37849 | .0036196 |
| %RSD | 4.621247 | 23.85438 | .8114801 | 687.0234 | 17.91068 | 1.310816 | 1.864783 |
| #1 | .0486658 | -.020170 | .1734699 | -.002570 | -.009290 | 28.45678 | .1902164 |
| #2 | .0451084 | -.013876 | .1713860 | -.000188 | -.007320 | 29.19468 | .1973767 |
| #3 | .0448410 | -.022605 | .1708216 | .004275 | -.010533 | 28.97199 | .1947199 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0046919** | **-.000329** | **31.41467** | **.1229627** | **.0294033** | **.1438977** | **150.4303** |
| Stddev | .0001291 | .000130 | .49535 | .0003267 | .0003915 | .0022366 | .1530 |
| %RSD | 2.752323 | 39.46004 | 1.576796 | .2656886 | 1.331579 | 1.554325 | .1017394 |
| #1 | .0045505 | -.000223 | 30.92273 | .1227272 | .0298448 | .1464565 | 150.5721 |
| #2 | .0047216 | -.000291 | 31.91335 | .1233356 | .0290985 | .1429216 | 150.2680 |
| #3 | .0048036 | -.000474 | 31.40792 | .1228251 | .0292664 | .1423151 | 150.4507 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7216145** | **19.41946** | **.0589460** | **.0043803** | **1.420838** | **.2068603** | **.2177548** |
| Stddev | .0109649 | .28131 | .0006403 | .0002580 | .021889 | .0075593 | .0007831 |
| %RSD | 1.519493 | 1.448615 | 1.086301 | 5.890522 | 1.540552 | 3.654320 | .3596041 |
| #1 | .7105654 | 19.11873 | .0596227 | .0043798 | 1.435039 | .2006802 | .2183063 |
| #2 | .7324932 | 19.67617 | .0588655 | .0041226 | 1.395631 | .2152887 | .2168585 |
| #3 | .7217849 | 19.46347 | .0583497 | .0046386 | 1.431845 | .2046120 | .2180996 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **4.557748** | **.3386597** | **.0063740** | **.0228349** | **1.709201** | **2.172195** | **2.226957** |
| Stddev | .023928 | .0007686 | .0001308 | .0007068 | .023426 | .034014 | .031122 |
| %RSD | .5249908 | .2269614 | 2.052751 | 3.095369 | 1.370559 | 1.565872 | 1.397496 |
| #1 | 4.530557 | .3385600 | .0063043 | .0226683 | 1.684701 | 2.164978 | 2.261961 |
| #2 | 4.575589 | .3379457 | .0062929 | .0236101 | 1.731379 | 2.142369 | 2.216499 |
| #3 | 4.567099 | .3394733 | .0065250 | .0222262 | 1.711525 | 2.209239 | 2.202412 |

Sample Name: Q2760-01 Acquired: 8/6/2025 14:07:18 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **9.965502** | **.0351257** | **-.068402** |
| Stddev | .119103 | .0003840 | .001098 |
| %RSD | 1.195154 | 1.093280 | 1.605290 |
| #1 | 10.09353 | .0349841 | -.069615 |
| #2 | 9.85799 | .0355604 | -.067475 |
| #3 | 9.94499 | .0348326 | -.068118 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **6189.104** | **102791.6** | **8566.129** | **5244.732** | **6921.664** |
| Stddev | 38.350 | 179.9 | 120.597 | 34.855 | 41.399 |
| %RSD | .6196345 | .1750596 | 1.407836 | .6645629 | .5981036 |
| #1 | 6145.489 | 102654.6 | 8693.081 | 5217.890 | 6874.483 |
| #2 | 6217.546 | 102995.4 | 8453.094 | 5284.123 | 6951.910 |
| #3 | 6204.276 | 102724.9 | 8552.211 | 5232.183 | 6938.600 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: Q2760-01DUP Acquired: 8/6/2025 14:11:21 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **.0332465** | **-.015792** | **.1766298** | **-.003663** | **-.007453** | **27.88912** | **.2122186** |
| Stddev | .0024555 | .002547 | .0016248 | .002367 | .000771 | .91512 | .0071740 |
| %RSD | 7.385701 | 16.13063 | .9199053 | 64.63746 | 10.34001 | 3.281286 | 3.380483 |
| #1 | .0359364 | -.015107 | .1775679 | -.001441 | -.008236 | 28.46109 | .2159963 |
| #2 | .0311251 | -.018612 | .1775679 | -.006153 | -.006695 | 28.37260 | .2167143 |
| #3 | .0326779 | -.013658 | .1747536 | -.003393 | -.007427 | 26.83366 | .2039451 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0041588** | **.0001486** | **67.80700** | **.1070921** | **.0255435** | **.7979071** | **117.4295** |
| Stddev | .0001822 | .0002475 | 1.86199 | .0017239 | .0001311 | .0043348 | 3.2018 |
| %RSD | 4.382015 | 166.5841 | 2.746014 | 1.609731 | .5132721 | .5432714 | 2.726571 |
| #1 | .0042833 | .0001600 | 69.05541 | .1079206 | .0254441 | .8015868 | 119.1734 |
| #2 | .0042434 | -.000104 | 68.69874 | .1082454 | .0254942 | .7990060 | 119.3808 |
| #3 | .0039496 | .000390 | 65.66684 | .1051104 | .0256921 | .7931287 | 113.7343 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.8050323** | **36.46928** | **.0530955** | **.0037718** | **.8014594** | **.1433734** | **.2351959** |
| Stddev | .0266437 | 1.07962 | .0003165 | .0008605 | .0338872 | .0077804 | .0049815 |
| %RSD | 3.309638 | 2.960361 | .5960415 | 22.81530 | 4.228187 | 5.426652 | 2.118036 |
| #1 | .8244430 | 37.07505 | .0530518 | .0044481 | .8097355 | .1429778 | .2381773 |
| #2 | .8159984 | 37.10998 | .0534315 | .0040641 | .8304420 | .1513440 | .2379654 |
| #3 | .7746557 | 35.22280 | .0528031 | .0028032 | .7642008 | .1357984 | .2294451 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.750882** | **.1581938** | **.0053807** | **.0184066** | **1.438325** | **2.339666** | **1.767717** |
| Stddev | .088192 | .0059225 | .0002292 | .0005749 | .040251 | .068027 | .023910 |
| %RSD | 2.351226 | 3.743797 | 4.260584 | 3.123366 | 2.798477 | 2.907557 | 1.352603 |
| #1 | 3.805905 | .1601222 | .0051531 | .0184204 | 1.464494 | 2.364683 | 1.786254 |
| #2 | 3.797581 | .1629116 | .0056116 | .0178249 | 1.458506 | 2.391642 | 1.776166 |
| #3 | 3.649160 | .1515475 | .0053775 | .0189745 | 1.391976 | 2.262672 | 1.740729 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: Q2760-01DUP Acquired: 8/6/2025 14:11:21 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | 9.396526 | .0321033 | .0073030 |
| Stddev | .116043 | .0049081 | .0010280 |
| %RSD | 1.234959 | 15.28861 | 14.07672 |
| #1 | 9.486736 | .0333816 | .0084443 |
| #2 | 9.437226 | .0362457 | .0070148 |
| #3 | 9.265615 | .0266824 | .0064498 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6166.866 | 100447.6 | 8330.976 | 5089.883 | 6898.421 |
| Stddev | 38.472 | 1741.8 | 170.306 | 95.575 | 43.870 |
| %RSD | .6238567 | 1.733998 | 2.044245 | 1.877735 | .6359430 |
| #1 | 6129.787 | 99450.2 | 8219.933 | 5035.050 | 6860.511 |
| #2 | 6164.216 | 99433.9 | 8245.941 | 5034.357 | 6888.277 |
| #3 | 6206.595 | 102458.8 | 8527.054 | 5200.242 | 6946.474 |

Sample Name: Q2760-01LX5 Acquired: 8/6/2025 14:15:26 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **.0087014** | **-.007532** | **.0324649** | **-.002037** | **-.001240** | **5.851152** | **.0381879** |
| Stddev | .0014287 | .001362 | .0011915 | .001010 | .000984 | .105849 | .0005601 |
| %RSD | 16.41903 | 18.07669 | 3.670073 | 49.56997 | 79.34293 | 1.809034 | 1.466752 |
| #1 | .0101971 | -.008441 | .0319408 | -.000949 | -.001639 | 5.818586 | .0381418 |
| #2 | .0073508 | -.008188 | .0338286 | -.002218 | -.001961 | 5.969457 | .0387696 |
| #3 | .0085562 | -.005967 | .0316254 | -.002945 | -.000119 | 5.765411 | .0376522 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0010208** | **-.000187** | **6.425337** | **.0237479** | **.0053566** | **.0293138** | **29.06583** |
| Stddev | .0000370 | .000068 | .106962 | .0001878 | .0000872 | .0005034 | .33288 |
| %RSD | 3.629751 | 36.45994 | 1.664687 | .7907376 | 1.628444 | 1.717233 | 1.145268 |
| #1 | .0010581 | -.000265 | 6.389941 | .0239506 | .0053377 | .0296960 | 29.36953 |
| #2 | .0010203 | -.000156 | 6.545510 | .0235798 | .0052803 | .0295019 | 29.11804 |
| #3 | .0009840 | -.000140 | 6.340559 | .0237133 | .0054517 | .0287434 | 28.70993 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1464777** | **3.993548** | **.0108402** | **.0004329** | **.1263662** | **.0392580** | **.0412470** |
| Stddev | .0026301 | .058757 | .0001974 | .0006147 | .0146471 | .0016944 | .0005661 |
| %RSD | 1.795533 | 1.471300 | 1.820698 | 142.0031 | 11.59098 | 4.316036 | 1.372465 |
| #1 | .1460616 | 3.968055 | .0107689 | .0000096 | .1346762 | .0385725 | .0418202 |
| #2 | .1492910 | 4.060746 | .0110633 | .0001511 | .1349683 | .0411877 | .0412324 |
| #3 | .1440805 | 3.951843 | .0106883 | .0011379 | .1094541 | .0380138 | .0406883 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7886691** | **.0618173** | **.0003021** | **.0030859** | **.3409470** | **.4117023** | **.4177830** |
| Stddev | .0150667 | .0007321 | .0002069 | .0006769 | .0048471 | .0131371 | .0057741 |
| %RSD | 1.910392 | 1.184355 | 68.46870 | 21.93646 | 1.421665 | 3.190912 | 1.382083 |
| #1 | .7733652 | .0626367 | .0005366 | .0035703 | .3373903 | .4239377 | .4200722 |
| #2 | .8034867 | .0615878 | .0002242 | .0023124 | .3464679 | .4133501 | .4220615 |
| #3 | .7891553 | .0612275 | .0001456 | .0033749 | .3389827 | .3978191 | .4112153 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: Q2760-01LX5 Acquired: 8/6/2025 14:15:26 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | 1.834405 | -.000529 | -.012614 |
| Stddev | .023614 | .002757 | .000409 |
| %RSD | 1.287298 | 521.6450 | 3.240240 |
| #1 | 1.854425 | .002637 | -.013057 |
| #2 | 1.840427 | -.002409 | -.012251 |
| #3 | 1.808363 | -.001814 | -.012535 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6279.871 | 103286.2 | 8153.841 | 5285.171 | 7393.864 |
| Stddev | 55.385 | 836.7 | 104.462 | 34.239 | 60.595 |
| %RSD | .8819415 | .8100566 | 1.281144 | .6478388 | .8195357 |
| #1 | 6255.367 | 102334.9 | 8219.721 | 5246.634 | 7357.355 |
| #2 | 6240.965 | 103616.1 | 8033.396 | 5296.792 | 7360.426 |
| #3 | 6343.281 | 103907.7 | 8208.407 | 5312.088 | 7463.811 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: Q2760-01MS Acquired: 8/6/2025 14:19:38 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **.6666253** | **1.912200** | **1.003313** | **1.571338** | **.4361432** | **37.97898** | **.3708343** |
| Stddev | .0025984 | .040458 | .007251 | .008693 | .0043977 | .42474 | .0058859 |
| %RSD | .3897804 | 2.115764 | .7227514 | .5531948 | 1.008304 | 1.118352 | 1.587214 |
| #1 | .6696048 | 1.879633 | 1.011600 | 1.579525 | .4411953 | 37.98959 | .3705453 |
| #2 | .6648299 | 1.957490 | .998131 | 1.572273 | .4331741 | 37.54903 | .3650981 |
| #3 | .6654412 | 1.899477 | 1.000209 | 1.562216 | .4340602 | 38.39831 | .3768594 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1796562** | **.1704779** | **23.70415** | **.4544705** | **.1976129** | **.3729223** | **109.2453** |
| Stddev | .0017704 | .0013811 | .38939 | .0009245 | .0016565 | .0034869 | .3372 |
| %RSD | .9854199 | .8101283 | 1.642691 | .2034166 | .8382726 | .9350221 | .3086439 |
| #1 | .1788885 | .1720709 | 23.61316 | .4555044 | .1995087 | .3768976 | 109.4354 |
| #2 | .1783992 | .1697453 | 23.36832 | .4537235 | .1968856 | .3714885 | 108.8560 |
| #3 | .1816808 | .1696174 | 24.13098 | .4541835 | .1964444 | .3703809 | 109.4446 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.7942525** | **15.28185** | **.4784610** | **.0695845** | **3.289434** | **.4109105** | **.3749200** |
| Stddev | .0104489 | .18307 | .0034635 | .0004126 | .014477 | .0091951 | .0016759 |
| %RSD | 1.315561 | 1.197930 | .7238868 | .5929520 | .4400920 | 2.237745 | .4469985 |
| #1 | .7912172 | 15.30295 | .4824368 | .0700592 | 3.305713 | .4102574 | .3741302 |
| #2 | .7856573 | 15.08915 | .4768474 | .0693114 | 3.278006 | .4020594 | .3768448 |
| #3 | .8058829 | 15.45345 | .4760986 | .0693831 | 3.284583 | .4204148 | .3737849 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **12.50527** | **.3409200** | **.3500999** | **.6013507** | **1.631892** | **2.210168** | **6.638115** |
| Stddev | .03502 | .0014666 | .0022279 | .0041121 | .024056 | .009759 | .092220 |
| %RSD | .2800512 | .4301912 | .6363697 | .6838052 | 1.474110 | .4415706 | 1.389251 |
| #1 | 12.54557 | .3395343 | .3525246 | .6059341 | 1.624054 | 2.221331 | 6.742797 |
| #2 | 12.48807 | .3407697 | .3496320 | .5979849 | 1.612733 | 2.203251 | 6.602681 |
| #3 | 12.48217 | .3424560 | .3481431 | .6001331 | 1.658889 | 2.205921 | 6.568867 |

Sample Name: Q2760-01MS Acquired: 8/6/2025 14:19:38 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **8.499370** | **.2028717** | **.1403382** |
| Stddev | .080074 | .0016572 | .0026054 |
| %RSD | .9421166 | .8168779 | 1.856489 |
| #1 | 8.584021 | .2047814 | .1394469 |
| #2 | 8.489257 | .2020229 | .1382954 |
| #3 | 8.424833 | .2018108 | .1432722 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **6296.738** | **104823.9** | **8408.775** | **5341.280** | **7086.270** |
| Stddev | 28.876 | 72.2 | 96.053 | 39.262 | 46.760 |
| %RSD | .4585840 | .0688573 | 1.142296 | .7350614 | .6598688 |
| #1 | 6263.766 | 104780.8 | 8452.405 | 5346.297 | 7034.338 |
| #2 | 6317.519 | 104783.7 | 8475.270 | 5299.751 | 7125.035 |
| #3 | 6308.929 | 104907.3 | 8298.651 | 5377.792 | 7099.437 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: Q2760-01MSD Acquired: 8/6/2025 14:23:36 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **.7308187** | **1.946787** | **1.078750** | **1.702865** | **.4888838** | **44.05925** | **.4563454** |
| Stddev | .0035127 | .083297 | .007003 | .012990 | .0024879 | .12355 | .0005410 |
| %RSD | .4806453 | 4.278676 | .6492153 | .7628316 | .5088955 | .2804115 | .1185386 |
| #1 | .7348648 | 2.015535 | 1.085947 | 1.716235 | .4903084 | 44.11345 | .4563115 |
| #2 | .7285495 | 1.970667 | 1.078346 | 1.702066 | .4903319 | 44.14643 | .4569026 |
| #3 | .7290419 | 1.854158 | 1.071957 | 1.690292 | .4860111 | 43.91787 | .4558223 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1915430** | **.1897096** | **51.73212** | **.4858386** | **.2372135** | **1.090196** | **132.8486** |
| Stddev | .0015520 | .0014341 | .13173 | .0014076 | .0013786 | .004535 | 1.3004 |
| %RSD | .8102611 | .7559266 | .2546357 | .2897332 | .5811767 | .4159923 | .9788720 |
| #1 | .1898842 | .1908306 | 51.85127 | .4862525 | .2382743 | 1.093541 | 134.0630 |
| #2 | .1929598 | .1902046 | 51.75442 | .4842704 | .2377110 | 1.092013 | 131.4765 |
| #3 | .1917850 | .1880936 | 51.59066 | .4869929 | .2356551 | 1.085034 | 133.0061 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.146900** | **21.46216** | **.5661102** | **.0743311** | **3.847709** | **.4642467** | **.4019316** |
| Stddev | .003562 | .14116 | .0045632 | .0009053 | .057914 | .0039354 | .0027169 |
| %RSD | .3106112 | .6576941 | .8060532 | 1.217987 | 1.505153 | .8476974 | .6759525 |
| #1 | 1.149734 | 21.41846 | .5699886 | .0747355 | 3.896705 | .4608637 | .4034560 |
| #2 | 1.148065 | 21.61999 | .5672599 | .0732941 | 3.783796 | .4685657 | .3987948 |
| #3 | 1.142901 | 21.34802 | .5610822 | .0749638 | 3.862627 | .4633107 | .4035440 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **17.78710** | **.3776617** | **.3795268** | **.6710674** | **2.545285** | **2.520259** | **9.136598** |
| Stddev | .22624 | .0023595 | .0020399 | .0052487 | .007413 | .009637 | .120859 |
| %RSD | 1.271960 | .6247715 | .5374930 | .7821365 | .2912413 | .3823721 | 1.322797 |
| #1 | 18.01558 | .3792332 | .3816424 | .6746245 | 2.553589 | 2.519526 | 9.239132 |
| #2 | 17.56316 | .3749485 | .3793659 | .6735385 | 2.542930 | 2.511009 | 9.167318 |
| #3 | 17.78256 | .3788034 | .3775721 | .6650393 | 2.539335 | 2.530241 | 9.003344 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: Q2760-01MSD Acquired: 8/6/2025 14:23:36 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | 13.55186 | .2223807 | .1395165 |
| Stddev | .14907 | .0021970 | .0011900 |
| %RSD | 1.100017 | .9879420 | .8529146 |
| #1 | 13.67687 | .2213229 | .1392232 |
| #2 | 13.59182 | .2249065 | .1408258 |
| #3 | 13.38688 | .2209128 | .1385007 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6146.423 | 101380.7 | 8381.668 | 5183.508 | 6630.714 |
| Stddev | 25.483 | 562.4 | 50.878 | 34.614 | 37.998 |
| %RSD | .4145938 | .5547182 | .6070208 | .6677758 | .5730534 |
| #1 | 6125.807 | 100811.0 | 8406.793 | 5147.260 | 6599.949 |
| #2 | 6138.548 | 101935.5 | 8323.114 | 5216.217 | 6619.006 |
| #3 | 6174.913 | 101395.4 | 8415.096 | 5187.047 | 6673.188 |

Sample Name: Q2760-01A Acquired: 8/6/2025 14:27:32 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **.7582327** | **1.959197** | **1.049087** | **1.769999** | **.5237194** | **30.43003** | **.3791698** |
| Stddev | .0035644 | .042599 | .002901 | .009504 | .0020013 | .11814 | .0009258 |
| %RSD | .4700916 | 2.174324 | .2764904 | .5369385 | .3821364 | .3882511 | .2441567 |
| #1 | .7607787 | 1.957520 | 1.052369 | 1.774760 | .5260272 | 30.55110 | .3798275 |
| #2 | .7597603 | 2.002610 | 1.048029 | 1.776181 | .5224622 | 30.42394 | .3795708 |
| #3 | .7541591 | 1.917461 | 1.046865 | 1.759055 | .5226686 | 30.31505 | .3781112 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.1912545** | **.1787733** | **32.16614** | **.4907735** | **.2130949** | **.4137821** | **148.3578** |
| Stddev | .0004431 | .0003759 | .12849 | .0039727 | .0004061 | .0014889 | .8484 |
| %RSD | .2317009 | .2102691 | .3994700 | .8094713 | .1905578 | .3598318 | .5718817 |
| #1 | .1912228 | .1791346 | 32.07120 | .4951605 | .2134909 | .4140888 | 149.2122 |
| #2 | .1908280 | .1788010 | 32.31236 | .4897411 | .2131143 | .4150938 | 148.3457 |
| #3 | .1917126 | .1783843 | 32.11487 | .4874190 | .2126794 | .4121637 | 147.5154 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.9068436** | **21.13305** | **.5181006** | **.0731263** | **4.111973** | **.4926208** | **.4001164** |
| Stddev | .0015364 | .04210 | .0012247 | .0004132 | .044921 | .0042154 | .0029992 |
| %RSD | .1694249 | .1992365 | .2363773 | .5650271 | 1.092455 | .8557105 | .7495809 |
| #1 | .9069152 | 21.18074 | .5194746 | .0733308 | 4.149093 | .4974864 | .4034708 |
| #2 | .9083429 | 21.10103 | .5177033 | .0733972 | 4.124790 | .4903047 | .3976935 |
| #3 | .9052726 | 21.11739 | .5171239 | .0726507 | 4.062036 | .4900712 | .3991848 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **13.60281** | **.5987796** | **.2811348** | **.4874395** | **1.835148** | **2.825334** | **7.455115** |
| Stddev | .07031 | .0024990 | .0013226 | .0005599 | .002199 | .031758 | .071800 |
| %RSD | .5168945 | .4173417 | .4704579 | .1148745 | .1198377 | 1.124041 | .9630943 |
| #1 | 13.66860 | .5999147 | .2820132 | .4871867 | 1.832739 | 2.848904 | 7.517693 |
| #2 | 13.61112 | .6005096 | .2817775 | .4870504 | 1.835655 | 2.837879 | 7.470924 |
| #3 | 13.52872 | .5959146 | .2796136 | .4880812 | 1.837049 | 2.789220 | 7.376728 |

Sample Name: Q2760-01A Acquired: 8/6/2025 14:27:32 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | 9.650011 | .2117335 | .1190265 |
| Stddev | .062267 | .0027043 | .0001265 |
| %RSD | .6452540 | 1.277209 | .1062456 |
| #1 | 9.690237 | .2145109 | .1189964 |
| #2 | 9.681508 | .2115810 | .1191652 |
| #3 | 9.578288 | .2091088 | .1189177 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 6249.926 | 103361.3 | 8370.704 | 5292.821 | 6981.146 |
| Stddev | 21.381 | 569.0 | 7.515 | 28.774 | 21.434 |
| %RSD | .3421003 | .5504805 | .0897812 | .5436338 | .3070235 |
| #1 | 6236.860 | 102734.0 | 8379.363 | 5259.601 | 6964.322 |
| #2 | 6238.317 | 103505.8 | 8366.878 | 5309.936 | 6973.838 |
| #3 | 6274.600 | 103844.1 | 8365.871 | 5308.925 | 7005.278 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: Q2759-01 Acquired: 8/6/2025 14:31:28 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **.0803565** | **-.004026** | **43.16078** | **.0048521** | **.0404578** | **40.92657** |
| Stddev | .0018385 | .001741 | .04586 | .0058787 | .0018529 | .05527 |
| %RSD | 2.287880 | 43.22987 | .1062598 | 121.1562 | 4.579875 | .1350522 |
| #1 | .0784606 | -.002758 | 43.21364 | -.001807 | .0393313 | 40.88878 |
| #2 | .0804775 | -.003310 | 43.13154 | .007040 | .0425964 | 40.90093 |
| #3 | .0821315 | -.006011 | 43.13717 | .009323 | .0394458 | 40.99001 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **14.07863** | **.0071756** | **.0592949** | **323.0208** | **.7150552** | **.1848595** |
| Stddev | .11208 | .0000798 | .0001211 | 1.2692 | .0017915 | .0003421 |
| %RSD | .7961114 | 1.112525 | .2043078 | .3929104 | .2505354 | .1850638 |
| #1 | 13.97698 | .0070938 | .0592907 | 322.3346 | .7137252 | .1851967 |
| #2 | 14.06009 | .0071798 | .0591759 | 324.4854 | .7170923 | .1845127 |
| #3 | 14.19883 | .0072533 | .0594181 | 322.2425 | .7143480 | .1848691 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **1.413077** | **129.0281** | **1.973371** | **71.48620** | **.1091361** | **.0059989** |
| Stddev | .000777 | .2990 | .004740 | .06002 | .0003275 | .0001198 |
| %RSD | .0549749 | .2317027 | .2401761 | .0839560 | .3000437 | 1.996628 |
| #1 | 1.413692 | 129.3728 | 1.968762 | 71.54301 | .1092771 | .0061339 |
| #2 | 1.413335 | 128.8392 | 1.978231 | 71.42342 | .1087618 | .0059573 |
| #3 | 1.412204 | 128.8723 | 1.973119 | 71.49217 | .1093694 | .0059054 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **18.52876** | **.2169482** | F **37.44794** | **13.52459** | **.1585034** | **.0074590** |
| Stddev | .07856 | .0017432 | .45360 | .03380 | .0023591 | .0000636 |
| %RSD | .4240097 | .8035289 | 1.211279 | .2498878 | 1.488327 | .8530758 |
| #1 | 18.60489 | .2162883 | 37.94766 | 13.56177 | .1610912 | .0075299 |
| #2 | 18.44797 | .2156312 | 37.06221 | 13.49573 | .1579460 | .0074403 |
| #3 | 18.53343 | .2189251 | 37.33395 | 13.51626 | .1564729 | .0074068 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: Q2759-01 Acquired: 8/6/2025 14:31:28 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | .0861518 | .7480422 | 1.848902 | F 20.95196 | F 82.87557 | .1194947 |
| Stddev | .0001509 | .0048606 | .007977 | .07290 | .42512 | .0063107 |
| %RSD | .1751074 | .6497746 | .4314504 | .3479357 | .5129598 | 5.281175 |
| #1 | .0862370 | .7465912 | 1.851335 | 21.02897 | 82.39530 | .1175362 |
| #2 | .0862408 | .7534631 | 1.839992 | 20.94289 | 83.20363 | .1143954 |
| #3 | .0859776 | .7440723 | 1.855379 | 20.88402 | 83.02779 | .1265525 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | 1.366169 |
| Stddev | .003276 |
| %RSD | .2398157 |
| #1 | 1.365045 |
| #2 | 1.369860 |
| #3 | 1.363603 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5919.300 | 99687.41 | 8640.213 | 5083.477 | 6060.195 |
| Stddev | 8.717 | 209.01 | 23.311 | 25.218 | 12.069 |
| %RSD | .1472630 | .2096623 | .2697968 | .4960854 | .1991491 |
| #1 | 5909.297 | 99581.61 | 8666.494 | 5063.308 | 6046.520 |
| #2 | 5923.330 | 99928.17 | 8632.109 | 5111.751 | 6064.705 |
| #3 | 5925.273 | 99552.47 | 8622.035 | 5075.370 | 6069.359 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: Q2763-01 Acquired: 8/6/2025 14:35:55 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **.1187316** | **-.014276** | **5.208861** | **-.006206** | **-.000057** | **111.9450** |
| Stddev | .0053336 | .001044 | .154356 | .000808 | .001789 | .2380 |
| %RSD | 4.492135 | 7.311216 | 2.963340 | 13.01956 | 3118.378 | .2126133 |
| #1 | .1139030 | -.015124 | 5.068706 | -.005447 | .000222 | 111.6944 |
| #2 | .1178354 | -.014593 | 5.183581 | -.006117 | .001575 | 111.9725 |
| #3 | .1244566 | -.013111 | 5.374297 | -.007055 | -.001969 | 112.1681 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **3.118359** | **.0157925** | **.0292918** | **156.3118** | **.5991848** | **.2196049** |
| Stddev | .005003 | .0001219 | .0016104 | .4243 | .0071126 | .0068777 |
| %RSD | .1604492 | .7720925 | 5.497640 | .2714495 | 1.187055 | 3.131866 |
| #1 | 3.114216 | .0158229 | .0278868 | 155.8901 | .5959143 | .2137111 |
| #2 | 3.116944 | .0158963 | .0289395 | 156.7387 | .6073445 | .2179419 |
| #3 | 3.123918 | .0156582 | .0310492 | 156.3066 | .5942957 | .2271616 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **9.027987** | **268.8617** | **6.375135** | **99.74457** | **1.400670** | **.0171510** |
| Stddev | .223632 | .8781 | .013101 | .31300 | .042466 | .0005449 |
| %RSD | 2.477095 | .3265826 | .2055041 | .3138062 | 3.031811 | 3.176895 |
| #1 | 8.830181 | 269.1780 | 6.360622 | 99.38326 | 1.362690 | .0175248 |
| #2 | 8.983133 | 269.5378 | 6.378695 | 99.93315 | 1.392802 | .0165258 |
| #3 | 9.270646 | 267.8693 | 6.386088 | 99.91731 | 1.446520 | .0174024 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **25.00328** | **.7613971** | **4.591959** | **9.176481** | **.1379399** | **.0222859** |
| Stddev | .07631 | .0022641 | .038150 | .054786 | .0045691 | .0006563 |
| %RSD | .3052172 | .2973642 | .8308032 | .5970302 | 3.312371 | 2.944831 |
| #1 | 25.06085 | .7615822 | 4.574153 | 9.231755 | .1408583 | .0216318 |
| #2 | 25.03228 | .7590461 | 4.635757 | 9.175491 | .1326743 | .0222814 |
| #3 | 24.91672 | .7635630 | 4.565968 | 9.122195 | .1402870 | .0229444 |

Sample Name: Q2763-01 Acquired: 8/6/2025 14:35:55 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | .3658974 | 3.817469 | 4.137085 | 10.12130 | F 23.30740 | .1739455 |
| Stddev | .0115170 | .005233 | .023876 | .23539 | .66408 | .0013415 |
| %RSD | 3.147593 | .1370694 | .5771186 | 2.325642 | 2.849231 | .7712143 |
| #1 | .3550495 | 3.817668 | 4.130893 | 9.91410 | 22.70460 | .1750580 |
| #2 | .3646593 | 3.822598 | 4.163447 | 10.07255 | 23.19835 | .1724557 |
| #3 | .3779834 | 3.812139 | 4.116916 | 10.37724 | 24.01927 | .1743227 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .3835608 |
| Stddev | .0014575 |
| %RSD | .3799912 |
| #1 | .3822530 |
| #2 | .3832973 |
| #3 | .3851320 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 7083.892 | 120043.1 | 10308.10 | 6158.563 | 6219.834 |
| Stddev | 142.798 | 723.4 | 58.79 | 12.814 | 159.418 |
| %RSD | 2.015815 | .6025779 | .5702948 | .2080687 | 2.563054 |
| #1 | 7215.579 | 120160.9 | 10367.35 | 6162.962 | 6366.177 |
| #2 | 7103.987 | 119268.2 | 10249.79 | 6144.128 | 6243.365 |
| #3 | 6932.111 | 120700.4 | 10307.18 | 6168.598 | 6049.958 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: CCV03 Acquired: 8/6/2025 14:49:32 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **4.939227** | **5.309498** | **4.877919** | **5.017628** | **4.998035** | **10.02020** | **10.14437** |
| Stddev | .008584 | .167011 | .012047 | .018180 | .011407 | .06598 | .05225 |
| %RSD | .1737951 | 3.145508 | .2469788 | .3623203 | .2282384 | .6584868 | .5150782 |
| #1 | 4.947902 | 5.498613 | 4.888185 | 5.038067 | 5.009169 | 10.08498 | 10.19800 |
| #2 | 4.939042 | 5.182242 | 4.864656 | 5.003262 | 4.998563 | 10.02254 | 10.09362 |
| #3 | 4.930737 | 5.247639 | 4.880916 | 5.011555 | 4.986372 | 9.95308 | 10.14150 |

| Elem | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 | Cu2247 | Fe2404 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.2519590** | **2.440516** | **25.56379** | **.9888853** | **2.453152** | **1.242178** | **5.272807** |
| Stddev | .0006787 | .005081 | .07847 | .0004580 | .004172 | .001024 | .014087 |
| %RSD | .2693902 | .2082108 | .3069491 | .0463131 | .1700564 | .0824635 | .2671542 |
| #1 | .2525066 | 2.445800 | 25.64039 | .9888973 | 2.457004 | 1.242823 | 5.287325 |
| #2 | .2521707 | 2.435665 | 25.48358 | .9893371 | 2.448721 | 1.240997 | 5.271900 |
| #3 | .2511996 | 2.440083 | 25.56739 | .9884214 | 2.453730 | 1.242713 | 5.259195 |

| Elem | Mn2576 | Mg2790 | Ni2316 | Ag3280 | Na5895 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **2.533289** | **24.91052** | **2.448800** | **1.263742** | **24.77848** | **2.507685** | **2.529231** |
| Stddev | .006235 | .01635 | .004122 | .001768 | .01530 | .013384 | .003472 |
| %RSD | .2461339 | .0656289 | .1683439 | .1399160 | .0617465 | .5337209 | .1372687 |
| #1 | 2.540367 | 24.92039 | 2.453055 | 1.265740 | 24.79360 | 2.521908 | 2.531731 |
| #2 | 2.528608 | 24.91953 | 2.444825 | 1.262377 | 24.77885 | 2.505807 | 2.530695 |
| #3 | 2.530892 | 24.89165 | 2.448520 | 1.263110 | 24.76300 | 2.495338 | 2.525267 |

| Elem | K_7664 | B_2496 | Mo2020 | Sn1899 | Ti3361 | Si2881 | P_1774 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **25.21649** | **5.100212** | **5.014207** | **4.891010** | **5.079782** | **5.032830** | **5.040789** |
| Stddev | .07199 | .010400 | .007895 | .014236 | .005108 | .014456 | .039760 |
| %RSD | .2854721 | .2039067 | .1574591 | .2910557 | .1005622 | .2872397 | .7887620 |
| #1 | 25.18345 | 5.111612 | 5.022901 | 4.905718 | 5.085211 | 5.017383 | 5.084317 |
| #2 | 25.16695 | 5.097779 | 5.007483 | 4.877299 | 5.075070 | 5.046033 | 5.031666 |
| #3 | 25.29906 | 5.091244 | 5.012238 | 4.890012 | 5.079063 | 5.035075 | 5.006384 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: CCV03 Acquired: 8/6/2025 14:49:32 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **4.893857** | **4.820351** | **5.050505** |
| Stddev | .036840 | .016368 | .016890 |
| %RSD | .7527832 | .3395703 | .3344298 |
| #1 | 4.936286 | 4.832537 | 5.066205 |
| #2 | 4.869988 | 4.826770 | 5.052676 |
| #3 | 4.875298 | 4.801746 | 5.032634 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | **5807.273** | **95468.02** | **7912.338** | **4838.212** | **6541.384** |
| Stddev | 2.538 | 390.14 | 35.830 | 23.660 | 6.504 |
| %RSD | .0437106 | .4086601 | .4528400 | .4890220 | .0994270 |
| #1 | 5808.571 | 95028.07 | 7871.522 | 4810.908 | 6535.062 |
| #2 | 5808.900 | 95771.90 | 7926.883 | 4851.065 | 6548.056 |
| #3 | 5804.348 | 95604.10 | 7938.608 | 4852.664 | 6541.033 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: CCB03 Acquired: 8/6/2025 14:53:50 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | **-.000932** | **.0009220** | **-.000520** | **-.001105** | **.0010009** | **.0111677** |
| Stddev | .002043 | .0028785 | .000547 | .002562 | .0020836 | .0041644 |
| %RSD | 219.2892 | 312.1900 | 105.1890 | 231.7676 | 208.1706 | 37.28986 |
| #1 | .001348 | .0027938 | .000046 | -.000570 | .0008977 | .0127328 |
| #2 | -.001547 | .0023648 | -.000561 | .001147 | -.001029 | .0143228 |
| #3 | -.002597 | -.002393 | -.001046 | -.003893 | .003134 | .0064475 |

| Elem | Ba4934 | Be2348 | Cd2265 | Ca3736 | Cr2677 | Co2286 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0043440** | **.0000692** | **.0002619** | **.0110818** | **-.000025** | **-.000040** |
| Stddev | .0006859 | .0000455 | .0000563 | .0096059 | .000362 | .000090 |
| %RSD | 15.79036 | 65.66865 | 21.48520 | 86.68168 | 1436.499 | 225.2743 |
| #1 | .0051252 | .0001171 | .0003259 | .0150287 | .000392 | -.000048 |
| #2 | .0038401 | .0000641 | .0002203 | .0180856 | -.000219 | .000054 |
| #3 | .0040668 | .0000266 | .0002395 | .0001312 | -.000249 | -.000126 |

| Elem | Cu2247 | Fe2404 | Mn2576 | Mg2790 | Ni2316 | Ag3280 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **.0001072** | **.0100552** | **.0011175** | **-.008331** | **.0001307** | **.0000739** |
| Stddev | .0001855 | .0043055 | .0003366 | .015196 | .0002385 | .0003524 |
| %RSD | 172.9961 | 42.81865 | 30.12116 | 182.4081 | 182.5015 | 476.9102 |
| #1 | .0000554 | .0063343 | .0007288 | -.023773 | .0000923 | .0004786 |
| #2 | .0003132 | .0090602 | .0013148 | .006606 | -.000086 | -.000165 |
| #3 | -.000047 | .0147711 | .0013089 | -.007825 | .000386 | -.000092 |

| Elem | Na5895 | V_2924 | Zn2138 | K_7664 | B_2496 | Mo2020 |
|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm |
| Avg | **-.132852** | **-.001715** | **.0013539** | **.0135265** | **.0054210** | **.0010415** |
| Stddev | .009856 | .002867 | .0001176 | .0290345 | .0003715 | .0002789 |
| %RSD | 7.418624 | 167.1710 | 8.684779 | 214.6499 | 6.852324 | 26.77536 |
| #1 | -.136156 | -.004576 | .0014482 | .0435516 | .0053734 | .0013630 |
| #2 | -.140631 | .001157 | .0013913 | .0114318 | .0050756 | .0008972 |
| #3 | -.121769 | -.001726 | .0012221 | -.014404 | .0058140 | .0008644 |

Reviewed By:jaswal
On:8/8/2025 3:03:18 AM
Inst Id :P4
LB :LB136729

Sample Name: CCB03 Acquired: 8/6/2025 14:53:50 Type: Unk
Method: 6010-200.7 NEW(v85) 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 | .0016229 | .0010845 | .0087040 | .0034504 | F .0101708 | F -.010192 |
| Stddev | .0005412 | .0011088 | .0077368 | .0009893 | .0013365 | .003365 |
| %RSD | 33.35083 | 102.2470 | 88.88778 | 28.67272 | 13.14060 | 33.01948 |
| #1 | .0019788 | .0010758 | .0000942 | .0029453 | .0105383 | -.010239 |
| #2 | .0018899 | .0021975 | .0150732 | .0045903 | .0112851 | -.006803 |
| #3 | .0010000 | -.000020 | .0109447 | .0028155 | .0086890 | -.013534 |

| Elem | Sr4077 |
|---|---|
| Units | ppm |
| Avg | .0007366 |
| Stddev | .0000992 |
| %RSD | 13.46114 |
| #1 | .0007828 |
| #2 | .0008042 |
| #3 | .0006228 |

| Int. Std. | Y_2243 | Y_3600 | Y_3710 | Y_2243 | In2306 |
|---|---|---|---|---|---|
| Units | Cts/S | Cts/S | Cts/S | Cts/S | Cts/S |
| Avg | 5916.668 | 99086.09 | 7820.278 | 5037.080 | 7021.495 |
| Stddev | 51.068 | 283.58 | 23.848 | 11.040 | 48.868 |
| %RSD | .8631239 | .2861928 | .3049513 | .2191803 | .6959778 |
| #1 | 5909.988 | 99332.90 | 7843.327 | 5049.761 | 7016.637 |
| #2 | 5869.268 | 98776.32 | 7821.803 | 5031.869 | 6975.238 |
| #3 | 5970.747 | 99149.03 | 7795.704 | 5029.609 | 7072.611 |

Alliance TECHNICAL GROUP

**Water Metals Preparation Sheet**

PB169098

**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:** 08/04/2025 **Time :** 10:10 **Temp :** 96 °C

**End Digest Date:** 08/04/2025 **Time :** 13:12 **Temp :** 96 °C

**Digestion tube ID:** M5595

**Block thermometer ID:** MET-DIG. #1

**Dig Technician Signature:** SJ

**Supervisor Signature:**

**Temp :** 1. 96°C 2. N/A

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| LFS-1 | 0.25 | M6007 |
| LFS-2 | 0.25 | M6015 |
| 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# CELL#50 96C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 08/04/25 13:12 | SJ Metals | Metals Lab |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

**Water Metals Preparation Sheet**

**PB169098**

| Lab Sample ID | Client Sample ID | pH | Initial Vol (ml) | Final Vol (ml) | Color Before | Color After | Clarity Before | Clarity After | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| PB169098BL | PBS098 | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | N/A | 1 |
| PB169098BS | LCS098 | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | MP6007,MP6015 | 2 |
| Q2745-01 | RW8-SP100-20250731 | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | N/A | 6 |
| Q2745-02 | RW8-SP303-20250731 | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | N/A | 7 |
| Q2756-01 | 71725 | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | N/A | 8 |
| Q2756-01MS | 71725MS | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | MP6007,MP6015 | 10 |
| Q2756-01MSD | 71725MSD | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | MP6007,MP6015 | 11 |
| Q2756-01DUP | 71725DUP | <2 | 50 | 25 | Colorless | Colorless | Clear | Clear | N/A | 9 |

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** PB169098 **WorkList ID :** 191087 **Department :** Digestion **Date :** 08-04-2025 09:33:49



| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q2745-01 | RW8-SP100-20250731 | Water | Metals Group4 | 1:1 HNO3 to pH < 2 | TETR06 | O41 | 07/31/2025 | 6010D |
| Q2745-02 | RW8-SP303-20250731 | Water | Metals Group4 | 1:1 HNO3 to pH < 2 | TETR06 | O41 | 07/31/2025 | 6010D |
| Q2756-01 | 71725 | Water | Metals ICP-TAL | 1:1 HNO3 to pH < 2 | PSEG03 | D41 | 08/01/2025 | 6010D |

**Date/Time** 08/04/25 09:40
**Raw Sample Received by:** SKS mcfdlg
**Raw Sample Relinquished by:** CP Cm



**Date/Time** 08/04/25 10:40
**Raw Sample Received by:** CP Cm
**Raw Sample Relinquished by:** SKS mcfdlg

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 # LB136697

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 8/5/2025 10:04:40 AM |
| Supervise By | jaswal | Supervise On | 8/6/2025 7:45:51 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP86452,MP86453,MP86454,MP86455,MP86456,MP86458 |
| ICV Standard | MP86459 |
| CCV Standard | MP86462 |
| ICSA Standard | MP86460,MP86461 |
| CRI Standard | MP86458 |
| LCS Standard | |
| Chk Standard | MP86463,MP86464 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 08/04/25 11:15 | | Jaswal | OK |
| 2 | S1 | S1 | CAL2 | 08/04/25 11:20 | | Jaswal | OK |
| 3 | S2 | S2 | CAL3 | 08/04/25 11:24 | | Jaswal | OK |
| 4 | S3 | S3 | CAL4 | 08/04/25 11:28 | | Jaswal | OK |
| 5 | S4 | S4 | CAL5 | 08/04/25 11:32 | | Jaswal | OK |
| 6 | S5 | S5 | CAL6 | 08/04/25 11:36 | | Jaswal | OK |
| 7 | ICV01 | ICV01 | ICV | 08/04/25 11:41 | | Jaswal | OK |
| 8 | LLICV01 | LLICV01 | LLICV | 08/04/25 11:45 | | Jaswal | OK |
| 9 | ICB01 | ICB01 | ICB | 08/04/25 11:52 | | Jaswal | OK |
| 10 | CRI01 | CRI01 | CRDL | 08/04/25 11:57 | | Jaswal | OK |
| 11 | ICSA01 | ICSA01 | ICSA | 08/04/25 12:01 | | Jaswal | OK |
| 12 | ICSAB01 | ICSAB01 | ICSAB | 08/04/25 12:05 | | Jaswal | OK |
| 13 | ICSADL | ICSADL | ICSA | 08/04/25 12:09 | | Jaswal | OK |
| 14 | ICSABDL | ICSABDL | ICSAB | 08/04/25 12:14 | | Jaswal | OK |
| 15 | CCV01 | CCV01 | CCV | 08/04/25 12:25 | | Jaswal | OK |
| 16 | CCB01 | CCB01 | CCB | 08/04/25 12:29 | | Jaswal | OK |
| 17 | PB169076BL | PB169076BL | MB | 08/04/25 12:55 | | Jaswal | OK |
| 18 | PB169076BS | PB169076BS | LCS | 08/04/25 13:00 | | 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 # LB136697

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 8/5/2025 10:04:40 AM |
| Supervise By | jaswal | Supervise On | 8/6/2025 7:45:51 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP86452,MP86453,MP86454,MP86455,MP86456,MP86458 |
| ICV Standard | MP86459 |
| CCV Standard | MP86462 |
| ICSA Standard | MP86460,MP86461 |
| CRI Standard | MP86458 |
| LCS Standard | |
| Chk Standard | MP86463,MP86464 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q2725-02DL | CompDL | SAM | 08/04/25 13:04 | Straight 5x dilution for all elements | Jaswal | OK |
| 20 | Q2725-02DUPDL | CompDUPDL | DUP | 08/04/25 13:08 | Straight 5x dilution for all elements | Jaswal | OK |
| 21 | Q2725-02LDL | CompLDL | SD | 08/04/25 13:12 | Straight 25x dilution for all elements | Jaswal | OK |
| 22 | Q2725-02MSDL | CompMSDL | MS | 08/04/25 13:16 | Straight 5x dilution for all elements | Jaswal | OK |
| 23 | Q2725-02MSDDL | CompMSDDL | MSD | 08/04/25 13:20 | Straight 5x dilution for all elements | Jaswal | OK |
| 24 | Q2725-02ADL | CompADL | PS | 08/04/25 13:24 | Straight 5x dilution for all elements (0.1ml m6004,m6013-10ml sample before dilution) | Jaswal | OK |
| 25 | PB169078BL | PB169078BL | MB | 08/04/25 13:29 | | Jaswal | OK |
| 26 | PB169078BS | PB169078BS | LCS | 08/04/25 13:33 | | Jaswal | OK |
| 27 | CCV02 | CCV02 | CCV | 08/04/25 13:37 | | Jaswal | OK |
| 28 | CCB02 | CCB02 | CCB | 08/04/25 13:41 | | Jaswal | OK |
| 29 | Q2733-01 | TW-WTS-12 | SAM | 08/04/25 13:45 | | Jaswal | OK |
| 30 | Q2733-01DUP | TW-WTS-12DUP | DUP | 08/04/25 13:50 | | Jaswal | OK |
| 31 | Q2733-01L | TW-WTS-12L | SD | 08/04/25 13:54 | | Jaswal | OK |
| 32 | Q2733-01MS | TW-WTS-12MS | MS | 08/04/25 13:59 | | Jaswal | OK |
| 33 | Q2733-01MSD | TW-WTS-12MSD | MSD | 08/04/25 14:03 | | Jaswal | OK |
| 34 | Q2733-01A | TW-WTS-12A | PS | 08/04/25 14:07 | 0.1ml m6004,m6013-10ml sample | Jaswal | OK |
| 35 | Q2742-01 | 9 Banker | SAM | 08/04/25 14:12 | | Jaswal | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136697

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 8/5/2025 10:04:40 AM |
| Supervise By | jaswal | Supervise On | 8/6/2025 7:45:51 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP86452,MP86453,MP86454,MP86455,MP86456,MP86458 |
| ICV Standard | MP86459 |
| CCV Standard | MP86462 |
| ICSA Standard | MP86460,MP86461 |
| CRI Standard | MP86458 |
| LCS Standard | |
| Chk Standard | MP86463,MP86464 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 36 | Q2734-01 | VNJ-253 | SAM | 08/04/25 14:17 | | Jaswal | OK |
| 37 | Q2741-01 | TR-05-07312025 | SAM | 08/04/25 14:21 | | Jaswal | OK |
| 38 | Q2743-01 | WC1 | SAM | 08/04/25 14:25 | | Jaswal | OK |
| 39 | CCV03 | CCV03 | CCV | 08/04/25 14:43 | | Jaswal | OK |
| 40 | CCB03 | CCB03 | CCB | 08/04/25 14:54 | | Jaswal | OK |
| 41 | Q2753-01 | 289 | SAM | 08/04/25 14:58 | | Jaswal | OK |
| 42 | Q2758-01 | WASTE | SAM | 08/04/25 15:03 | %soil missing | Jaswal | OK |
| 43 | PB169096BL | PB169096BL | MB | 08/04/25 15:07 | | Jaswal | OK |
| 44 | Q2740-01 | OR-02-07312025 | SAM | 08/04/25 15:15 | | Jaswal | OK |
| 45 | Q2740-01DUP | OR-02-07312025DUP | DUP | 08/04/25 15:19 | | Jaswal | OK |
| 46 | Q2740-01L | OR-02-07312025L | SD | 08/04/25 15:23 | | Jaswal | OK |
| 47 | Q2740-01MS | OR-02-07312025MS | MS | 08/04/25 15:27 | | Jaswal | OK |
| 48 | Q2740-01MSD | OR-02-07312025MSD | MSD | 08/04/25 15:31 | | Jaswal | OK |
| 49 | Q2740-01A | OR-02-07312025A | PS | 08/04/25 15:35 | 0.1ml m6004,m6013-10ml sample | Jaswal | OK |
| 50 | PB169096BS | PB169096BS | LCS | 08/04/25 15:39 | | Jaswal | OK |
| 51 | CCV04 | CCV04 | CCV | 08/04/25 15:48 | | Jaswal | OK |
| 52 | CCB04 | CCB04 | CCB | 08/04/25 15:53 | | Jaswal | OK |
| 53 | Q2734-02 | VNJ-253 | SAM | 08/04/25 16:08 | | Jaswal | OK |
| 54 | Q2703-05 | TP-4 | SAM | 08/04/25 16:12 | | Jaswal | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136697

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 8/5/2025 10:04:40 AM |
| Supervise By | jaswal | Supervise On | 8/6/2025 7:45:51 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP86452,MP86453,MP86454,MP86455,MP86456,MP86458 |
| ICV Standard | MP86459 |
| CCV Standard | MP86462 |
| ICSA Standard | MP86460,MP86461 |
| CRI Standard | MP86458 |
| LCS Standard | |
| Chk Standard | MP86463,MP86464 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 55 | Q2743-02 | WC1 | SAM | 08/04/25 16:16 | | Jaswal | OK |
| 56 | Q2753-02 | 289 | SAM | 08/04/25 16:21 | | Jaswal | OK |
| 57 | Q2753-02DUP | 289DUP | DUP | 08/04/25 16:25 | | Jaswal | OK |
| 58 | Q2753-02L | 289L | SD | 08/04/25 16:30 | | Jaswal | OK |
| 59 | Q2753-02MS | 289MS | MS | 08/04/25 16:34 | | Jaswal | OK |
| 60 | Q2753-02MSD | 289MSD | MSD | 08/04/25 16:38 | | Jaswal | OK |
| 61 | Q2753-02A | 289A | PS | 08/04/25 16:42 | 0.1ml m6004,m6013-10ml sample | Jaswal | OK |
| 62 | PB169079TB | PB169079TB | MB | 08/04/25 16:46 | | Jaswal | OK |
| 63 | CCV05 | CCV05 | CCV | 08/04/25 16:51 | | Jaswal | OK |
| 64 | CCB05 | CCB05 | CCB | 08/04/25 16:55 | | Jaswal | OK |
| 65 | PB169101BL | PB169101BL | MB | 08/04/25 16:59 | | Jaswal | OK |
| 66 | PB169101BS | PB169101BS | LCS | 08/04/25 17:04 | | Jaswal | OK |
| 67 | Q2745-01 | RW8-SP100-2025073 | SAM | 08/04/25 17:08 | | Jaswal | OK |
| 68 | Q2745-02 | RW8-SP303-2025073 | SAM | 08/04/25 17:12 | | Jaswal | OK |
| 69 | Q2756-01 | 71725 | SAM | 08/04/25 17:16 | CCV fail for Tl | Jaswal | Not Ok |
| 70 | Q2756-01DUP | 71725DUP | DUP | 08/04/25 17:20 | CCV fail for Tl | Jaswal | Not Ok |
| 71 | Q2756-01L | 71725L | SD | 08/04/25 17:25 | CCV fail for Tl | Jaswal | Not Ok |
| 72 | Q2756-01MS | 71725MS | MS | 08/04/25 17:29 | CCV fail for Tl | Jaswal | Not Ok |
| 73 | Q2756-01MSD | 71725MSD | MSD | 08/04/25 17:33 | CCV fail for Tl | Jaswal | Not Ok |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136697

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 8/5/2025 10:04:40 AM |
| Supervise By | jaswal | Supervise On | 8/6/2025 7:45:51 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP86452,MP86453,MP86454,MP86455,MP86456,MP86458 |
| ICV Standard | MP86459 |
| CCV Standard | MP86462 |
| ICSA Standard | MP86460,MP86461 |
| CRI Standard | MP86458 |
| LCS Standard | |
| Chk Standard | MP86463,MP86464 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 74 | Q2756-01A | 71725A | PS | 08/04/25 17:37 | CCV fail for Tl | Jaswal | Not Ok |
| 75 | CCV06 | CCV06 | CCV | 08/04/25 17:41 | CCV fail for Tl | Jaswal | OK |
| 76 | CCB06 | CCB06 | CCB | 08/04/25 17:45 | | Jaswal | OK |
| 77 | PB169098BL | PB169098BL | MB | 08/04/25 17:49 | CCV fail for Tl | Jaswal | Not Ok |
| 78 | PB169098BS | PB169098BS | LCS | 08/04/25 17:54 | CCV fail for Tl | Jaswal | Not Ok |
| 79 | CCV07 | CCV07 | CCV | 08/04/25 17:58 | | Jaswal | OK |
| 80 | CCB07 | CCB07 | CCB | 08/04/25 18:02 | | Jaswal | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136729

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 8/7/2025 1:17:59 PM |
| Supervise By | jaswal | Supervise On | 8/8/2025 3:03:18 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP86452,MP86453,MP86454,MP86455,MP86456,MP86458 |
| ICV Standard | MP86459 |
| CCV Standard | MP86462 |
| ICSA Standard | MP86460,MP86461 |
| CRI Standard | MP86457 |
| LCS Standard | |
| Chk Standard | MP86463,MP86464 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 08/06/25 11:30 | | Jaswal | OK |
| 2 | S1 | S1 | CAL2 | 08/06/25 11:35 | | Jaswal | OK |
| 3 | S2 | S2 | CAL3 | 08/06/25 11:39 | | Jaswal | OK |
| 4 | S3 | S3 | CAL4 | 08/06/25 11:43 | | Jaswal | OK |
| 5 | S4 | S4 | CAL5 | 08/06/25 11:47 | | Jaswal | OK |
| 6 | S5 | S5 | CAL6 | 08/06/25 11:51 | | Jaswal | OK |
| 7 | ICV01 | ICV01 | ICV | 08/06/25 11:55 | | Jaswal | OK |
| 8 | LLICV01 | LLICV01 | LLICV | 08/06/25 12:09 | | Jaswal | OK |
| 9 | ICB01 | ICB01 | ICB | 08/06/25 12:21 | | Jaswal | OK |
| 10 | CRI01 | CRI01 | CRDL | 08/06/25 12:26 | | Jaswal | OK |
| 11 | ICSA01 | ICSA01 | ICSA | 08/06/25 12:31 | | Jaswal | OK |
| 12 | ICSAB01 | ICSAB01 | ICSAB | 08/06/25 12:35 | | Jaswal | OK |
| 13 | ICSADL | ICSADL | ICSA | 08/06/25 12:39 | | Jaswal | OK |
| 14 | ICSABDL | ICSABDL | ICSAB | 08/06/25 12:43 | | Jaswal | OK |
| 15 | CCV01 | CCV01 | CCV | 08/06/25 12:47 | | Jaswal | OK |
| 16 | CCB01 | CCB01 | CCB | 08/06/25 12:52 | | Jaswal | OK |
| 17 | PB169098BL | PB169098BL | MB | 08/06/25 12:57 | | Jaswal | OK |
| 18 | PB169098BS | PB169098BS | LCS | 08/06/25 13:01 | | Jaswal | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136729

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 8/7/2025 1:17:59 PM |
| Supervise By | jaswal | Supervise On | 8/8/2025 3:03:18 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP86452,MP86453,MP86454,MP86455,MP86456,MP86458 |
| ICV Standard | MP86459 |
| CCV Standard | MP86462 |
| ICSA Standard | MP86460,MP86461 |
| CRI Standard | MP86457 |
| LCS Standard | |
| Chk Standard | MP86463,MP86464 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q2756-01 | 71725 | SAM | 08/06/25 13:05 | | Jaswal | OK |
| 20 | Q2756-01DUP | 71725DUP | DUP | 08/06/25 13:14 | | Jaswal | OK |
| 21 | Q2756-01L | 71725L | SD | 08/06/25 13:18 | | Jaswal | OK |
| 22 | Q2756-01MS | 71725MS | MS | 08/06/25 13:22 | | Jaswal | OK |
| 23 | Q2756-01MSD | 71725MSD | MSD | 08/06/25 13:29 | | Jaswal | OK |
| 24 | Q2756-01A | 71725A | PS | 08/06/25 13:33 | 0.1ml m6004,m6017-10ml sample | Jaswal | OK |
| 25 | CCV02 | CCV02 | CCV | 08/06/25 13:37 | | Jaswal | OK |
| 26 | CCB02 | CCB02 | CCB | 08/06/25 13:52 | | Jaswal | OK |
| 27 | PB169124BL | PB169124BL | MB | 08/06/25 13:58 | | Jaswal | OK |
| 28 | PB169124BS | PB169124BS | LCS | 08/06/25 14:03 | | Jaswal | OK |
| 29 | Q2760-01 | NB-07-08042025 | SAM | 08/06/25 14:07 | | Jaswal | OK |
| 30 | Q2760-01DUP | NB-07-08042025DUP | DUP | 08/06/25 14:11 | | Jaswal | OK |
| 31 | Q2760-01L | NB-07-08042025L | SD | 08/06/25 14:15 | | Jaswal | OK |
| 32 | Q2760-01MS | NB-07-08042025MS | MS | 08/06/25 14:19 | | Jaswal | OK |
| 33 | Q2760-01MSD | NB-07-08042025MSD | MSD | 08/06/25 14:23 | | Jaswal | OK |
| 34 | Q2760-01A | NB-07-08042025A | PS | 08/06/25 14:27 | 0.1ml m6004,m6017-10ml sample | Jaswal | OK |
| 35 | Q2759-01 | SOLID-DRUMS | SAM | 08/06/25 14:31 | Zn high | Jaswal | Dilution |
| 36 | Q2763-01 | TP-2 | SAM | 08/06/25 14:35 | | Jaswal | OK |
| 37 | CCV03 | CCV03 | CCV | 08/06/25 14:49 | | Jaswal | OK |

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**Instrument ID:** P4

## Daily Analysis Runlog For Sequence/QCBatch ID # LB136729

| | | | |
|---|---|---|---|
| Review By | Janvi | Review On | 8/7/2025 1:17:59 PM |
| Supervise By | jaswal | Supervise On | 8/8/2025 3:03:18 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP86452,MP86453,MP86454,MP86455,MP86456,MP86458 |
| ICV Standard | MP86459 |
| CCV Standard | MP86462 |
| ICSA Standard | MP86460,MP86461 |
| CRI Standard | MP86457 |
| LCS Standard | |
| Chk Standard | MP86463,MP86464 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 38 | CCB03 | CCB03 | CCB | 08/06/25 14:53 | | Jaswal | OK |

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# Prep Standard - Chemical Standard Summary

**Order ID :** Q2745

**Test :** Metals Group4

**Prepbatch ID :** PB169098,

**Sequence ID/Qc Batch ID:** LB136697,LB136697,LB136729,LB136729,

**Standard ID :**
MP85156,MP86452,MP86453,MP86454,MP86455,MP86456,MP86457,MP86458,MP86459,MP86460,MP86461,MP86462,MP86463,MP86464,

**Chemical ID :**
M5467,M5470,M5499,M5658,M5747,M5748,M5751,M5798,M5799,M5800,M5801,M5811,M5814,M5816,M5820,M5942,M5962,M5970,M5984,M5985,M5996,M5997,M6007,M6015,M6021,M6023,M6028,M6030,M6032,M6077,M6127,M6128,M6137,M6142,M6144,M6145,M6146,M6151,M6152,M6155,M6158,M6159,M6162,M6163,M6164,M6165,W3112,

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# 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 |
|---|---|---|---|---|---|---|---|---|
| 902 | ICP AES CAL BLK ( SO/ICB/CCB) | MP86452 | 07/18/2025 | 08/08/2025 | Janvi Patel | None | METALS_PIPETTE_1 (ICP A) | Sarabjit Jaswal 07/23/2025 |

**FROM** 125.00000ml of M6151 + 2350.00000ml of W3112 + 25.00000ml of M6162 = Final Quantity: 2500.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 907 | ICP AES STD S ( S5 ) | MP86453 | 07/18/2025 | 08/08/2025 | Janvi Patel | None | METALS_PIPETTE_1 (ICP A) | Sarabjit Jaswal 07/23/2025 |

**FROM** 5.00000ml of M5467 + 5.00000ml of M5470 + 5.00000ml of M5816 + 5.00000ml of M5820 + 5.00000ml of M5970 + 5.00000ml of M5996 + 5.00000ml of M5997 + 5.00000ml of M6077 + 5.00000ml of M6146 + 455.00000ml of MP86452 = Final Quantity: 500.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 910 | ICP AES STD S4 | MP86454 | 07/18/2025 | 08/08/2025 | Janvi Patel | None | METALS_PIPETTE_1 (ICP A) | Sarabjit Jaswal 07/23/2025 |

**FROM** 50.00000ml of MP86452 + 50.00000ml of MP86453 = Final Quantity: 100.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 909 | ICP AES STD S3 | MP86455 | 07/18/2025 | 08/08/2025 | Janvi Patel | None | METALS_PIPETTE_1 (ICP A) | Sarabjit Jaswal 07/23/2025 |

**FROM** 25.00000ml of MP86453 + 75.00000ml of MP86452 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3913 | ICP AES STD S2 | MP86456 | 07/18/2025 | 08/08/2025 | Janvi Patel | None | METALS_PIPETTE_1 (ICP A) | Sarabjit Jaswal 07/23/2025 |

**FROM** 16.00000ml of MP86453 + 184.00000ml of MP86452 = Final Quantity: 200.000 ml

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# 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 | MP86457 | 07/18/2025 | 08/08/2025 | Janvi Patel | None | METALS_PIPETTE_1 (ICP A) | Sarabjit Jaswal 07/23/2025 |

**FROM** 0.03000ml of M5798 + 0.03000ml of M6028 + 0.04000ml of M6137 + 0.05000ml of M5658 + 0.05000ml of M5811 + 0.05000ml of M6030 + 0.05000ml of M6159 + 0.06000ml of M5747 + 0.10000ml of M5470 + 0.10000ml of M5751 + 0.10000ml of M5801 + 0.10000ml of M5820 + 0.10000ml of M5962 + 0.10000ml of M5970 + 0.10000ml of M6128 + 0.15000ml of M5800 + 0.20000ml of M5748 + 0.20000ml of M5799 + 0.20000ml of M6021 + 0.20000ml of M6023 + 0.20000ml of M6145 + 0.25000ml of M5467 + 0.25000ml of M6146 + 0.50000ml of M5814 + 0.50000ml of M6032 + 1.00000ml of M5499 + 1.00000ml of M5942 + 1.00000ml of M6127 + 1.00000ml of M6142 + 1.00000ml of M6144 + 2.00000ml of M5816 + 89.29000ml of MP86452 = 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 | MP86458 | 07/18/2025 | 08/08/2025 | Janvi Patel | None | METALS_PIPETTE_1 (ICP A) | Sarabjit Jaswal 07/23/2025 |

**FROM** 2.00000ml of MP86457 + 98.00000ml of MP86452 = Final Quantity: 100.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 4163 | NEW ICV-060925 | MP86459 | 07/18/2025 | 08/08/2025 | Janvi Patel | None | METALS_PIPETTE_1 (ICP A) | Sarabjit Jaswal 07/23/2025 |

**FROM** 0.40000ml of M6163 + 0.40000ml of M6164 + 0.40000ml of M6165 + 48.80000ml of MP86452 = Final Quantity: 50.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 904 | ICP AES ICSA SOLN | MP86460 | 07/18/2025 | 08/08/2025 | Janvi Patel | None | METALS_PIPETTE_1 (ICP A) | Sarabjit Jaswal 07/23/2025 |

**FROM** 25.00000ml of M6152 + 225.00000ml of MP86452 = Final Quantity: 250.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3494 | ICP AES ICSAB SOLN-1 | MP86461 | 07/18/2025 | 08/08/2025 | Janvi Patel | None | METALS_PIPETTE_1 (ICP A) | Sarabjit Jaswal 07/23/2025 |

**FROM** 10.00000ml of M6152 + 10.00000ml of M6155 + 80.00000ml of MP86452 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 911 | ICP AES CCV SOLN | MP86462 | 07/18/2025 | 08/08/2025 | Janvi Patel | None | METALS_PIPETTE_1 (ICP A) | Sarabjit Jaswal 07/23/2025 |

**FROM** 50.00000ml of MP86452 + 50.00000ml of MP86453 = Final Quantity: 100.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 919 | ICP AES INTERNAL STD | MP86463 | 07/18/2025 | 08/08/2025 | Janvi Patel | None | METALS_PIPETTE_1 (ICP A) | Sarabjit Jaswal 07/23/2025 |

**FROM** 1.00000ml of M5984 + 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 | MP86464 | 07/18/2025 | 08/08/2025 | Janvi Patel | None | METALS_PIPETTE_1 (ICP A) | Sarabjit Jaswal 07/23/2025 |

**FROM** 200.00000ml of M6162 + 9800.00000ml of W3112 = Final Quantity: 10000.000 ml

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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. | 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. | 57038 / Sr, 1000 PPM, 125 ml | 082922 | 08/29/2025 | 04/14/2025 / jaswal | 03/16/2023 / jaswal | M5470 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58120 / Ca, 10000 PPM, 500 ml | 031523 | 03/15/2026 | 04/17/2025 / Janvi | 03/17/2023 / bin | M5499 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58024 / Chromium, Cr, 500 ml, 1000 PPM | 060523 | 06/05/2026 | 08/28/2023 / jaswal | 08/25/2023 / jaswal | M5658 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | / Lead (Pb) 1000PPM | 100923 | 10/09/2026 | 05/20/2024 / Jaswal | 12/20/2023 / jaswal | M5747 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | / Nickel (Ni) 1000PPM | 091223 | 09/12/2026 | 01/02/2024 / bin | 12/20/2023 / jaswal | M5748 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58029 / Cu, 1000 PPM, 500 ml | 071723 | 07/17/2026 | 10/01/2024 / Jaswal | 08/25/2023 / jaswal | M5751 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 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 |

| 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 | 051523 | 05/15/2026 | 02/06/2025 / kareem | 01/03/2024 / jaswal | M5811 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 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 # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | CGTI1-1 / TITANIUM 125mL 1000ug/mL | T2-TI719972 | 06/17/2027 | 06/18/2024 / Jaswal | 02/22/2024 / Jaswal | M5942 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57034 / Se, 1000 PPM, 125 ml | 060624 | 06/06/2027 | 07/02/2024 / Jaswal | 06/14/2024 / Jaswal | M5962 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57003 / Li, 1000 PPM, 125 ml | 061224 | 06/21/2027 | 07/01/2024 / Jaswal | 07/01/2024 / Jaswal | M5970 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | CGY10-1 / YTTRIUM 125mL 10,000ug/mL | V2-Y740548 | 02/20/2029 | 08/05/2024 / kareem | 06/14/2024 / Jaswal | M5984 |

| 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-1 / CLP CAL SOLUTION #1, 125mL | T2-MEB714417 | 01/27/2027 | 05/07/2024 / JANVI | 02/22/2024 / kareem | M5996 |

| 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 | 12/21/2027 | 02/03/2025 / JANVI | 02/22/2024 / kareem | M5997 |

| 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 | T2-MEB723367 | 05/27/2026 | 05/27/2025 / Janvi | 05/14/2024 / Jaswal | M6007 |

| 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 | U2-MEB731108 | 03/17/2028 | 06/19/2025 / MOHAN | 05/14/2024 / Jaswal | M6015 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57023 / V, 1000 PPM, 125 ml | 062424 | 06/24/2027 | 09/28/2024 / jaswal | 08/05/2024 / Jaswal | M6021 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57081 / Tl, 1000 PPM, 125 ml | 0624724 | 06/27/2027 | 08/05/2024 / kareem | 08/05/2024 / Jaswal | M6023 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 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 # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | Z9651Q / CHEM-CLP-4/.25L | V2-MEB746762 | 09/06/2029 | 01/23/2025 / kareem | 09/19/2024 / kareem | M6077 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58112 / Mg, 10000 PPM, 500 ml | 112124 | 11/21/2027 | 01/13/2025 / kareem | 01/13/2025 / kareem | M6127 |

| 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 |

| 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 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 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 | 08/17/2025 | 02/18/2025 / Sagar | 01/15/2025 / Sagar | M6151 |

| 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 | 08/24/2025 | 02/24/2025 / kareem | 04/20/2021 / kareem | M6152 |

| 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 | 08/24/2025 | 02/10/2025 / kareem | 02/09/2024 / kareem | M6155 |

| 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 |

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# 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) | 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 |

| 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 | | |

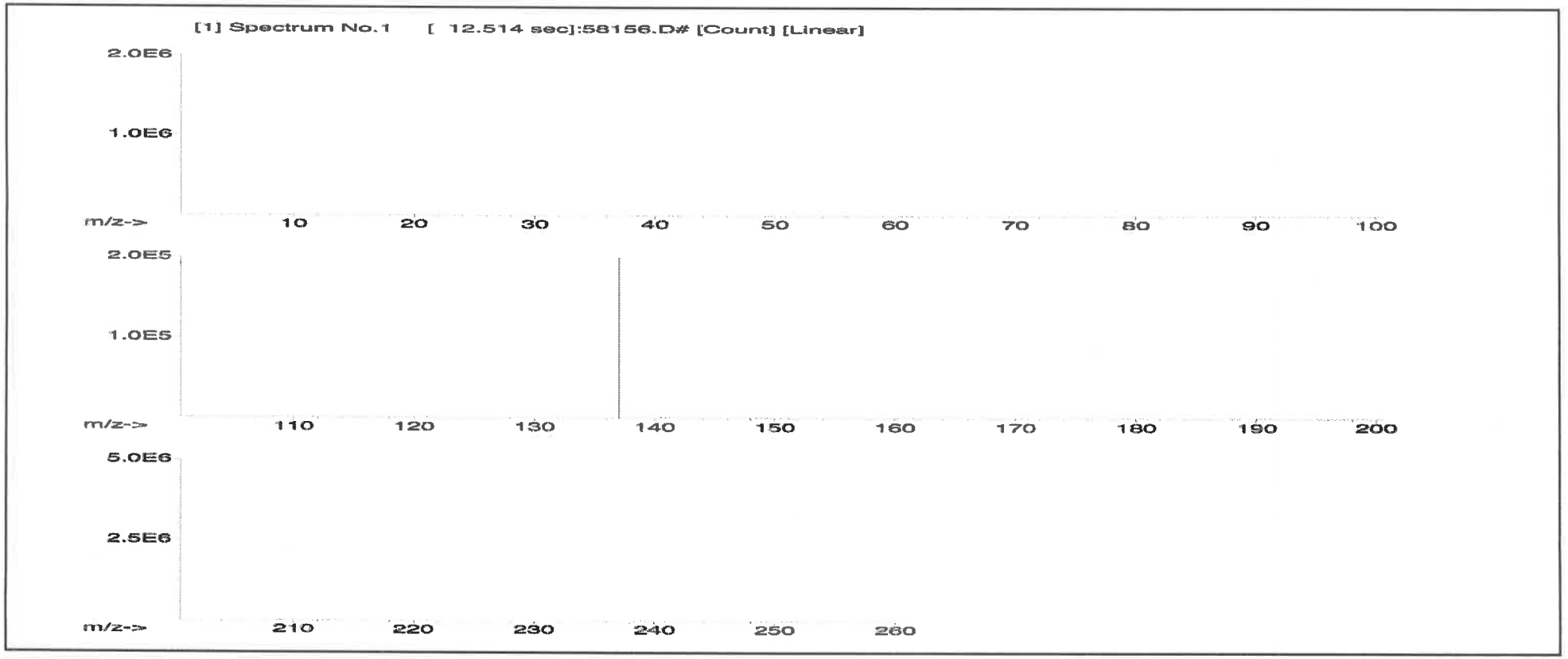
Giovanni Esposito

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



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**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | 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:**

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
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***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 Number:** 070124
**Description:** Cadmium (Cd)

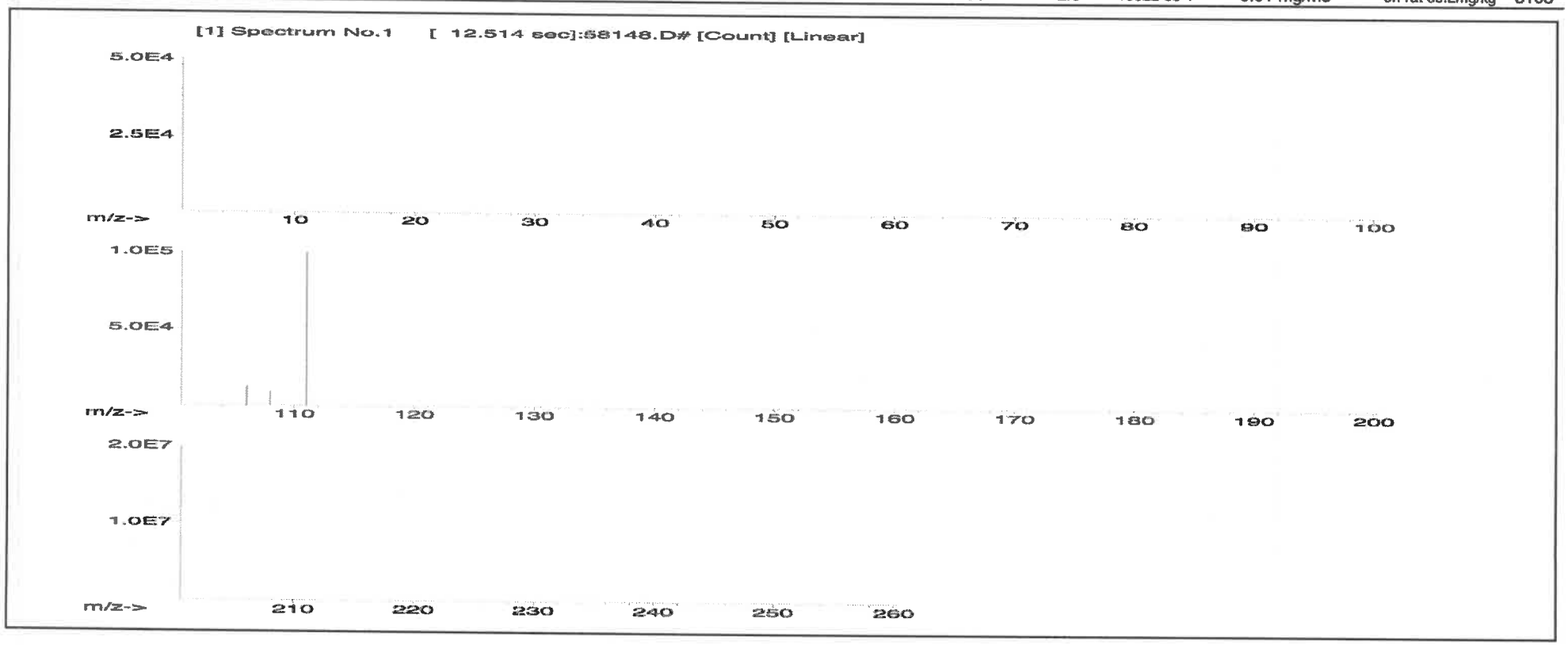
**Expiration Date:** 070127
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB

| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 24002546 | Nitric Acid | |
| 2% | 40.0 (mL) | Nitric Acid | |
| | 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).

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*Certified Reference Material CRM*

R : 01/03/24. M5810, M5811

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https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

**Part Number:** 58126
**Lot Number:** 051523
**Description:** Iron (Fe)

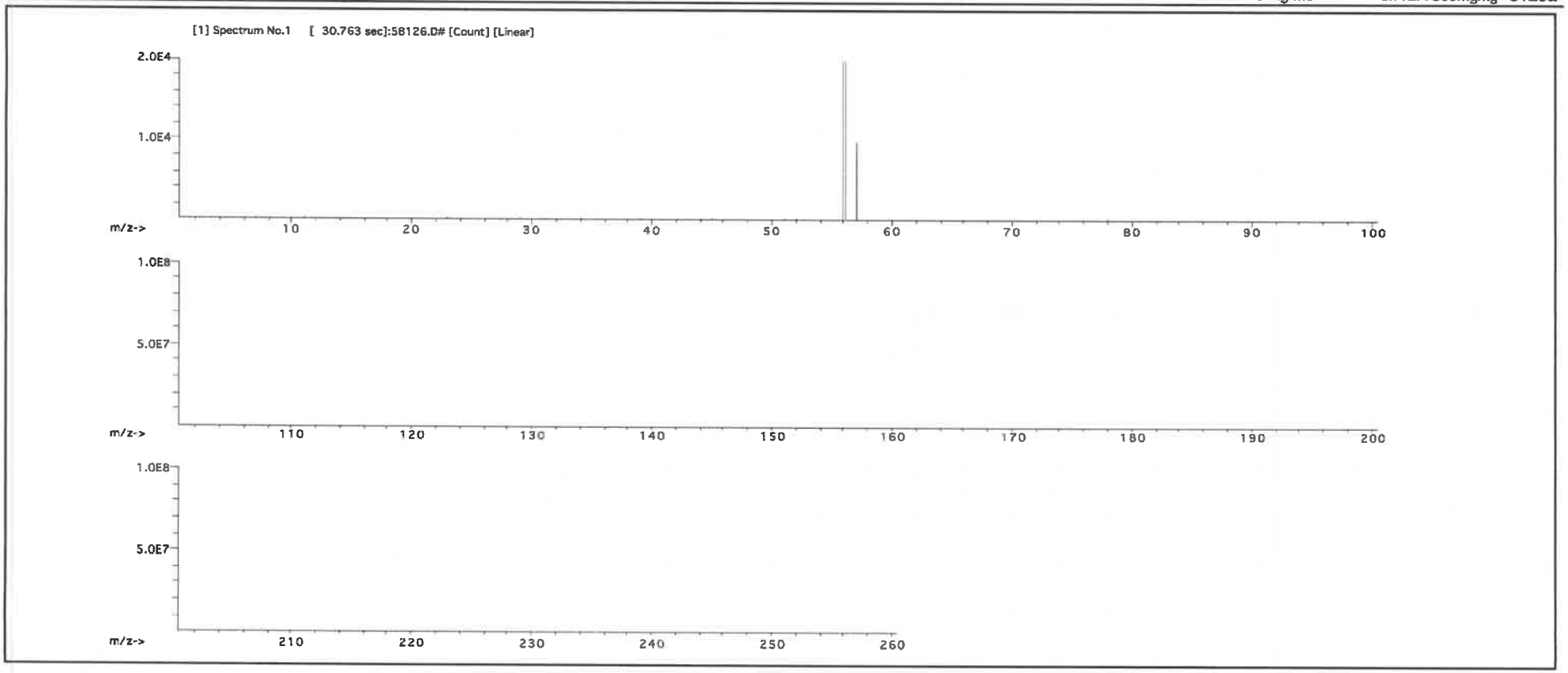
**Expiration Date:** 051526
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 5000.1 ± 0.12 Flask Uncertainty

| | | Lot # | |
|---|---|---|---|
| **Solvent:** | 21110221 | Nitric Acid | |
| | 5.0% | 250.0 (mL) | Nitric Acid |
| | 5E-05 | Balance Uncertainty | |

Giovanni Esposito
Formulated By: Giovanni Esposito 051523

Pedro Rentas
Reviewed By: Pedro L. Rentas 051523

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Iron (Fe) | IN346 | 2302010-500 | 10000 | 99.995 | 0.10 | 100.0 | 50.0034 | 50.0111 | **10001.5** | **20.0** | 7439-89-6 | 5 mg/m3 | orl-rat 7500mg/kg | 3126a |



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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 | <0.10 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.10 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.05 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.10 | Ge | <0.10 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.10 |
| B | <0.02 | Cu | <0.10 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES

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# Certificate of Analysis

RD:05/14/2024

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F: 540-585-3012
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01

ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Multi Analyte Custom Grade Solution |
| Catalog Number: | WW-LFS-1 |
| Lot Number: | T2-MEB723367 |
| Matrix: | 5% (v/v) HNO3 |

| | | |
|---|---|---|
| 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 | 200.0 ± 0.7 µg/mL | Arsenic, As | 80.0 ± 0.7 µg/mL |
| Barium, Ba | 20.00 ± 0.09 µg/mL | Beryllium, Be | 20.00 ± 0.13 µg/mL |
| Boron, B | 30.00 ± 0.18 µg/mL | Cadmium, Cd | 20.00 ± 0.09 µg/mL |
| Calcium, Ca | 100.0 ± 0.4 µg/mL | Cerium, Ce | 200.0 ± 0.8 µg/mL |
| Chromium, Cr | 40.00 ± 0.30 µg/mL | Cobalt, Co | 20.00 ± 0.10 µg/mL |
| Copper, Cu | 30.00 ± 0.13 µg/mL | Iron, Fe | 300.0 ± 1.3 µg/mL |
| Lead, Pb | 100.0 ± 0.4 µg/mL | Lithium, Li | 20.00 ± 0.08 µg/mL |
| Magnesium, Mg | 200.0 ± 0.8 µg/mL | Manganese, Mn | 20.00 ± 0.08 µg/mL |
| Mercury, Hg | 70.0 ± 0.3 µg/mL | Nickel, Ni | 50.00 ± 0.22 µg/mL |
| Phosphorus, P | 600.0 ± 2.7 µg/mL | Potassium, K | 1 000 ± 4 µg/mL |
| Selenium, Se | 200.0 ± 1.3 µg/mL | Silver, Ag | 7.50 ± 0.03 µg/mL |
| Sodium, Na | 300.0 ± 1.4 µg/mL | Strontium, Sr | 20.01 ± 0.08 µg/mL |
| Thallium, Tl | 200.0 ± 1.4 µg/mL | Vanadium, V | 30.00 ± 0.13 µg/mL |
| Zinc, Zn | 20.00 ± 0.09 µg/mL | | |

**Density:** 1.034 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---|---|---|---|
| Ag | ICP Assay | 3151 | 160729 |
| Ag | Volhard | 999c | 999c |
| Ag | Calculated | | See Sec. 4.2 |
| Al | ICP Assay | 3101a | 140903 |
| Al | EDTA | 928 | 928 |
| As | ICP Assay | 3103a | 100818 |
| B | ICP Assay | 3107 | 190605 |
| 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 | 090504 |
| Ce | EDTA | 928 | 928 |
| Co | ICP Assay | 3113 | 190630 |
| Co | EDTA | 928 | 928 |
| Cr | ICP Assay | 3112a | 170630 |
| Cu | ICP Assay | 3114 | 121207 |
| Cu | EDTA | 928 | 928 |
| Fe | ICP Assay | 3126a | 140812 |
| Fe | EDTA | 928 | 928 |
| 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 | Traceable to 3152A | S2-NA700842 |
| 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 | IC Assay | 3165 | 160906 |
| V | EDTA | 928 | 928 |
| Zn | ICP Assay | 3168a | 120629 |
| Zn | EDTA | 928 | 928 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

**Characterization of CRM/RM by Two or More Methods**

**Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:**

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

$X_i$ = mean of Assay Method i with standard uncertainty $u_{char\ i}$

$w_i$ = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$**

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

**Characterization of CRM/RM by One Method**

**Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:**

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

$X_a$ = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$**

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

**Low Silver Note:** This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

## 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 30, 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

- **August 30, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

### 11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Thomas Kozikowski
Manager, Quality Control



**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director



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# Certificate of Analysis

RD:05/14/2024

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
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## 1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 863.01 ACCREDITED Reference Material Producer Certificate 863.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Multi Analyte Custom Grade Solution |
| Catalog Number: | WW-LFS-2 |
| Lot Number: | U2-MEB731108 |
| 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 ± 0.6 µg/mL | Molybdenum, Mo | 40.03 ± 0.18 µg/mL |
| Silica, SiO2 | 200.2 ± 1.3 µg/mL | Tin, Sn | 70.0 ± 0.4 µg/mL |
| Titanium, Ti | 20.01 ± 0.13 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 |
| Mo | Calculated | | See Sec. 4.2 |
| Sb | ICP Assay | 3102a | 140911 |
| SiO2 | ICP Assay | 3150 | 130912 |
| Sn | ICP Assay | 3161a | 140917 |
| Ti | ICP Assay | 3162a | 130925 |
| Ti | 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 (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$**

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

March 17, 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

**- March 17, 2028**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Thomas Kozikowski
Manager, Quality Control



**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director



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M5467 R: 03/01/23 (LA)

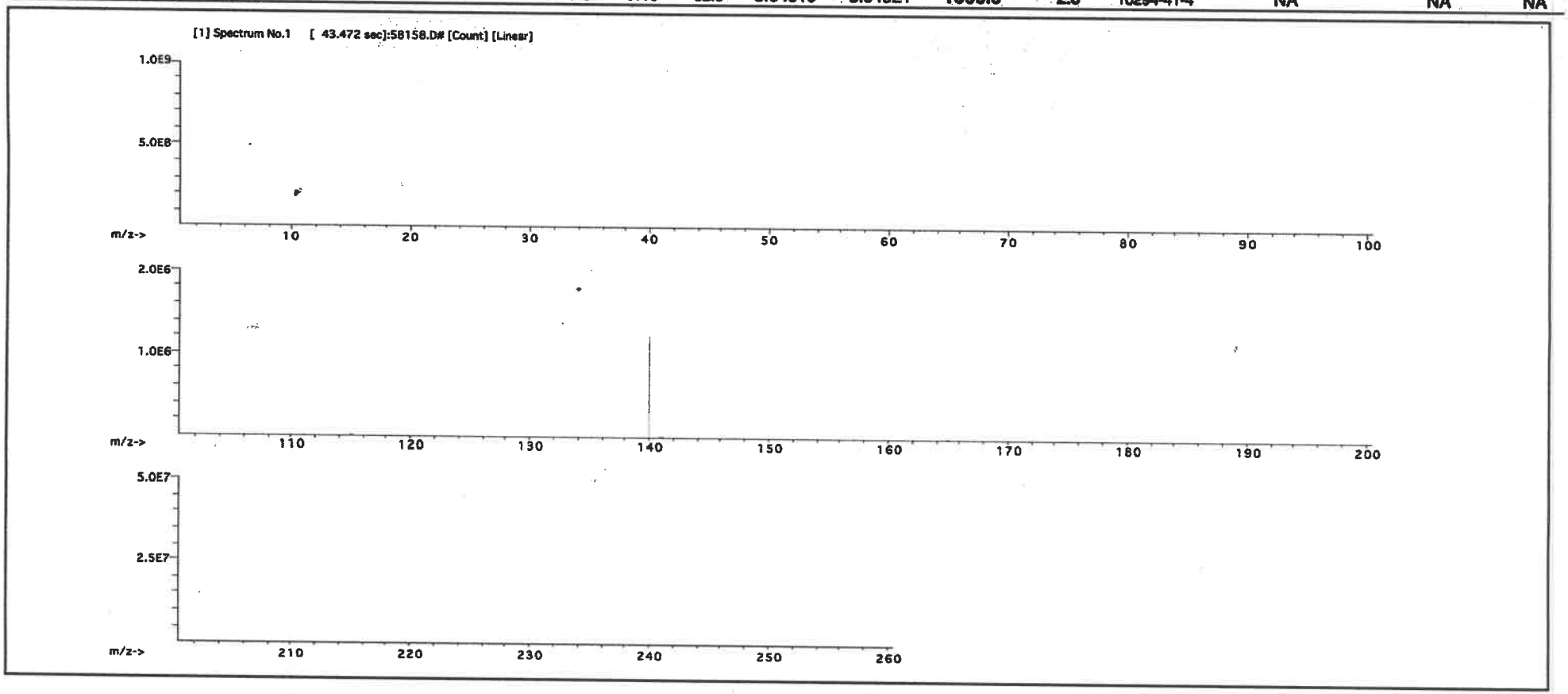
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**CERTIFIED WEIGHT REPORT:**

| | | | | |
|---|---|---|---|---|
| **Part Number:** | 57058 | | **Lot #** | |
| **Lot Number:** | 020623 | **Solvent:** | 21110221 | Nitric Acid |
| **Description:** | Cerium (Ce) | | | |
| | | 2% | 20.0 (mL) | Nitric Acid |
| **Expiration Date:** | 020626 | | | |
| **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):** | 1000.12 | 0.058 | Flask 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 |



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**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).

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

M5493 - M5308
Rad on 4/14/23
JMG

avantor™ | J.T.Baker®

Material No.: 3624-01
Batch No.: 0000281938
Manufactured Date: 2021-06-07
Retest Date: 2026-06-07
Revision No.: 2

# 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 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

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M5658 R ! 8/25/23

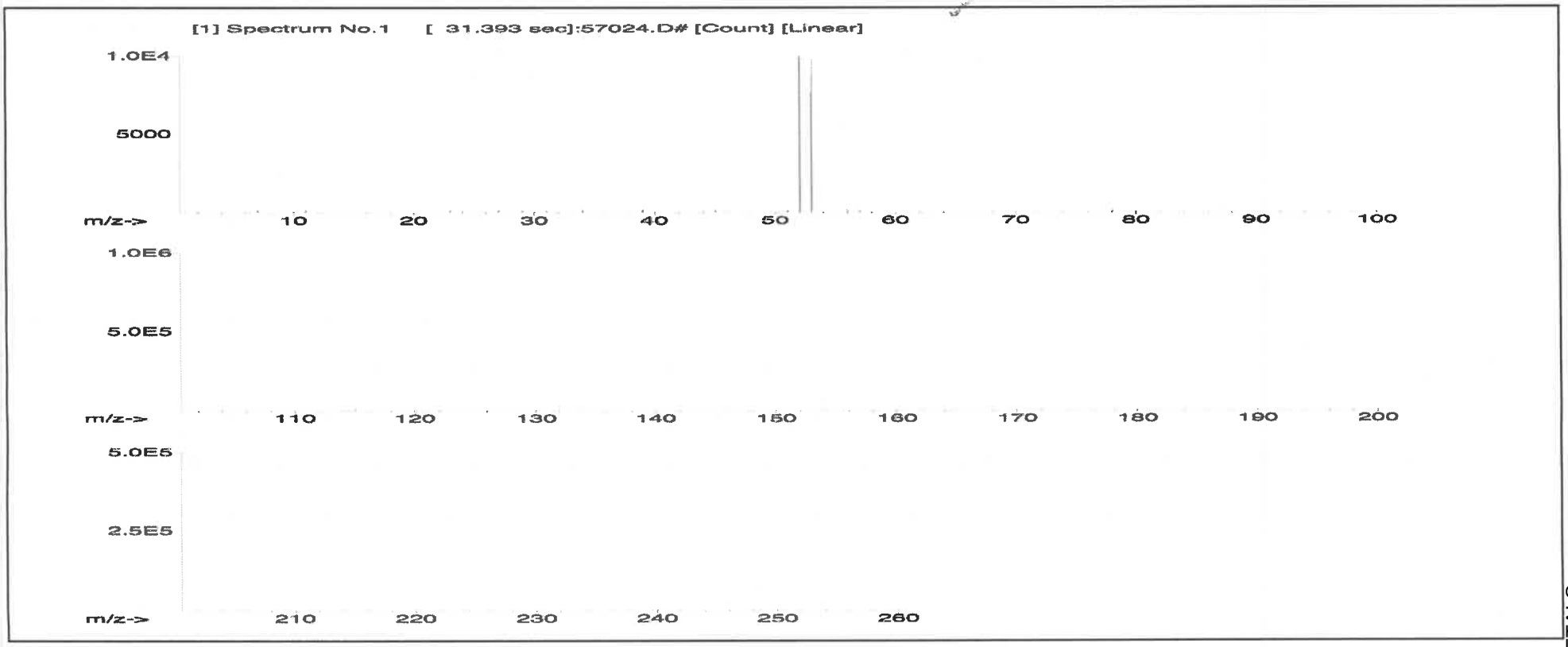
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CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | |
|---|---|---|---|---|
| **Part Number:** | **58024** | 21110221 | Nitric Acid | |
| **Lot Number:** | **060523** | | | |
| **Description:** | **Chromium (Cr)** | | | |
| | | 2.0% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 060526 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Volume shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | |

| | | |
|---|---|---|
| Formulated By: | Lawrence Barry | 060523 |
| Reviewed By: | Pedro L. Rentas | 060523 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Chromium(III) nitrate nonahydrate (Cr) | 58124 | 071122 | 0.1000 | 200.0 | 0.084 | 1000 | 10000.1 | **1000.0** | **2.2** | 7789-02-8 | 0.5 mg(Cr)/m3 | orl-rat 3250 mg/kg | 3112a |



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**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | T | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

**Part Number:** 57082
**Lot Number:** 100923
**Description:** Lead (Pb)

**Expiration Date:** 100926
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB

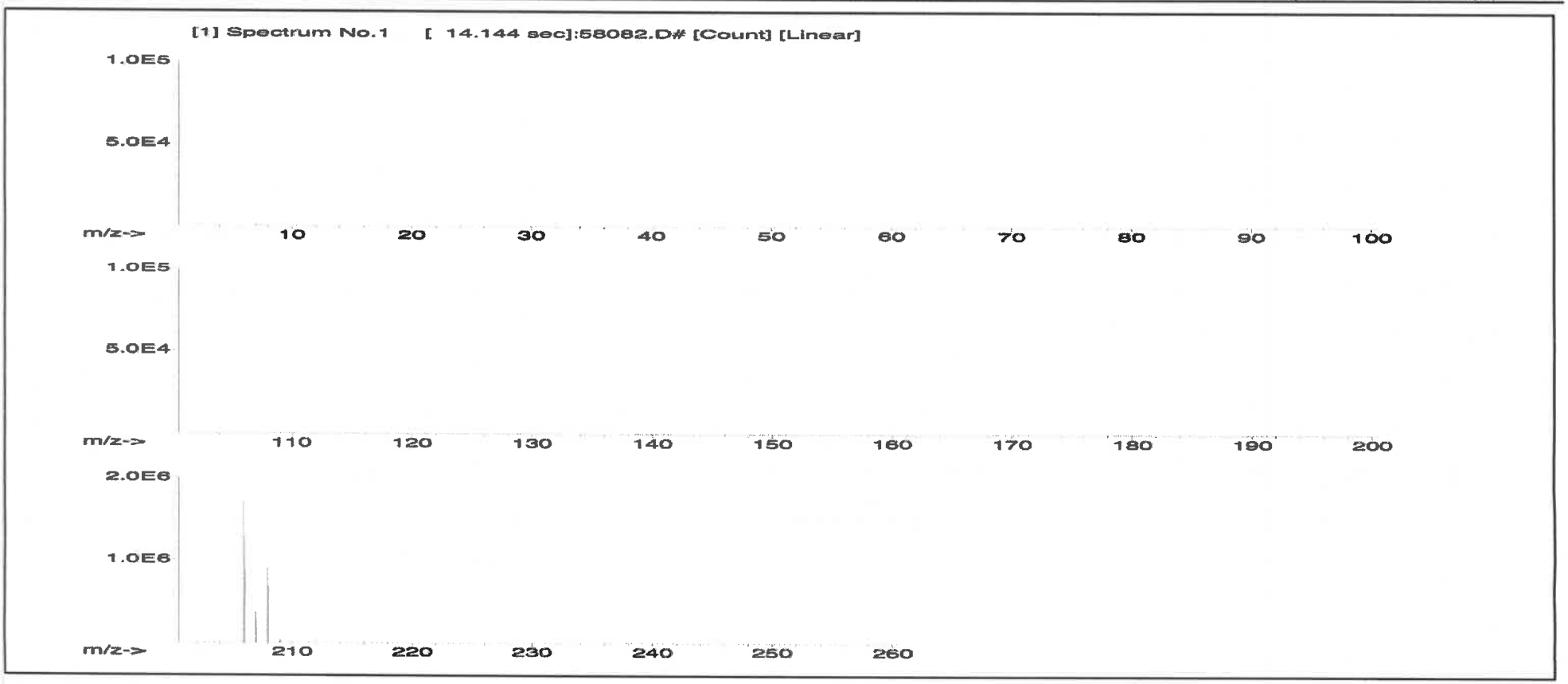
**Weight shown below was diluted to (mL):** 3000.41 0.06 Flask Uncertainty

| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 24002546 | Nitric Acid | |
| 2% | 60.0 (mL) | Nitric Acid | |

5E-05 Balance Uncertainty

| | | |
|---|---|---|
| Formulated By: | Lawrence Barry | 100923 |
| Reviewed By: | Pedro L. Rentas | 100923 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Lead(II) nitrate (Pb) | IN029 | PBD122016A1 | 1000 | 99.999 | 0.10 | 62.5 | 4.80071 | 4.80077 | **1000.0** | **2.0** | 10099-74-8 | 0.05 mg/m3 | intrvns-rat 93 mg/kg | 3128 |



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**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | T | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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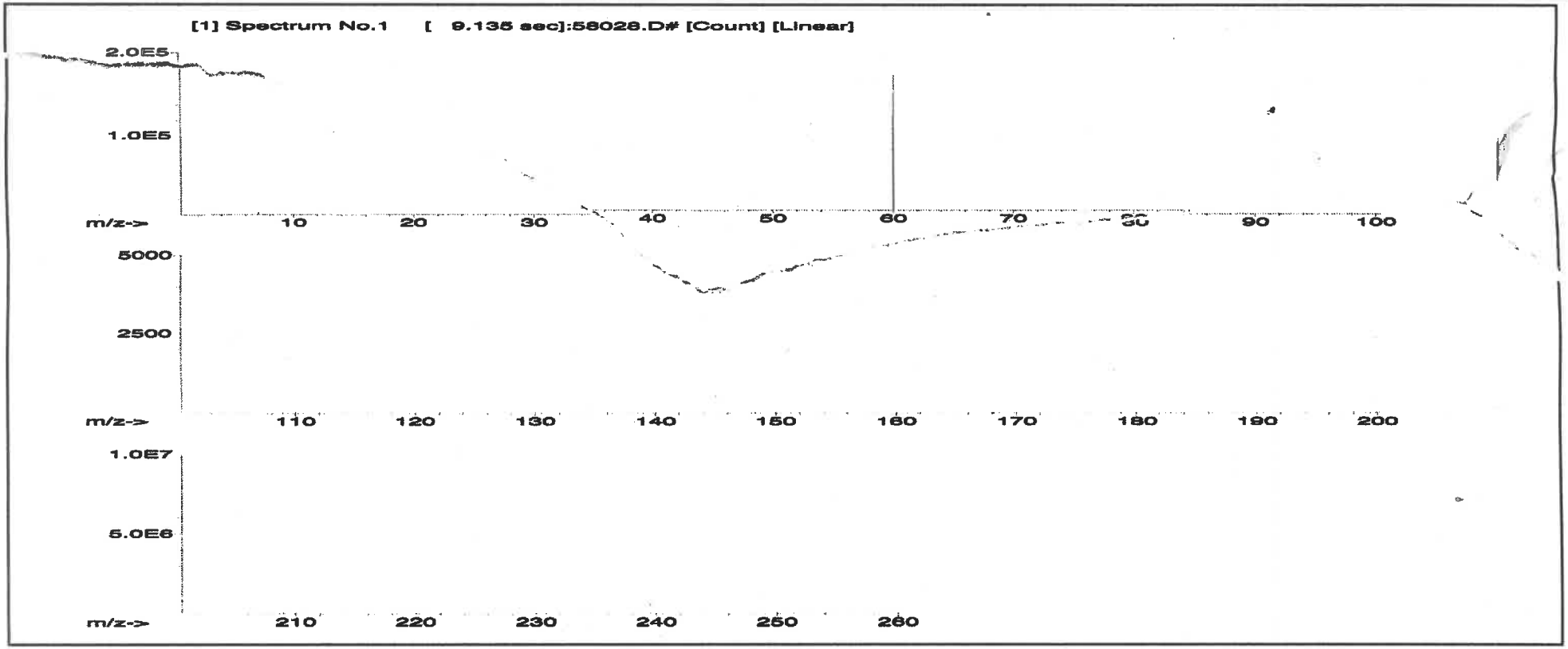
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**CERTIFIED WEIGHT REPORT:**

| | | 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 |



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**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.

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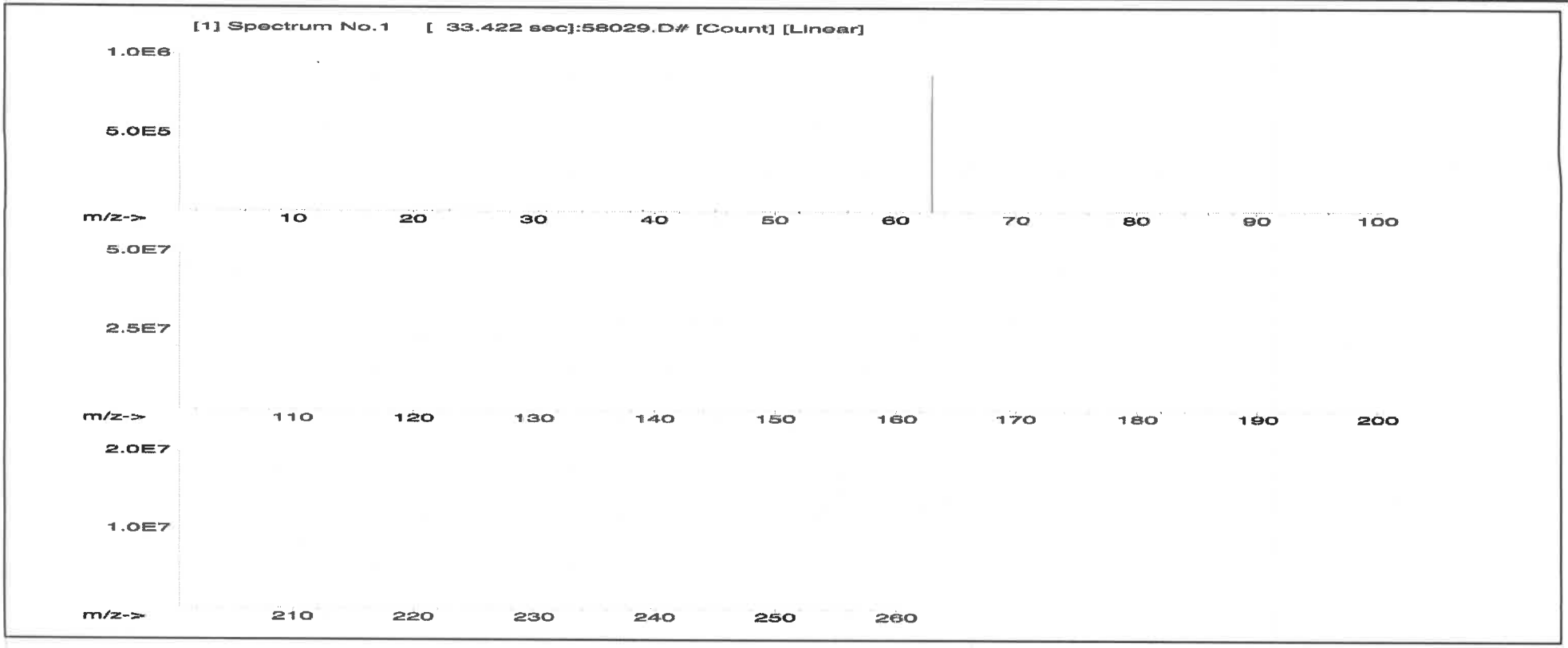


CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **58029** | | **Lot #** | **Solvent:** | |
| **Lot Number:** | **071723** | | 21110221 | Nitric Acid | |
| **Description:** | **Copper (Cu)** | | | | |
| | | | 2.0% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 071726 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Volume shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | | |

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 071723 |
| Reviewed By: | Pedro L. Rentas | 071723 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Copper(II) nitrate trihydrate (Cu) | 58129 | 022723 | 0.1000 | 200.0 | 0.084 | 1000 | 10000.5 | **1000.0** | **2.2** | 10031-43-3 | 1 mg/m3 | orl-rat 794 mg/kg | 3114 |



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**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | T | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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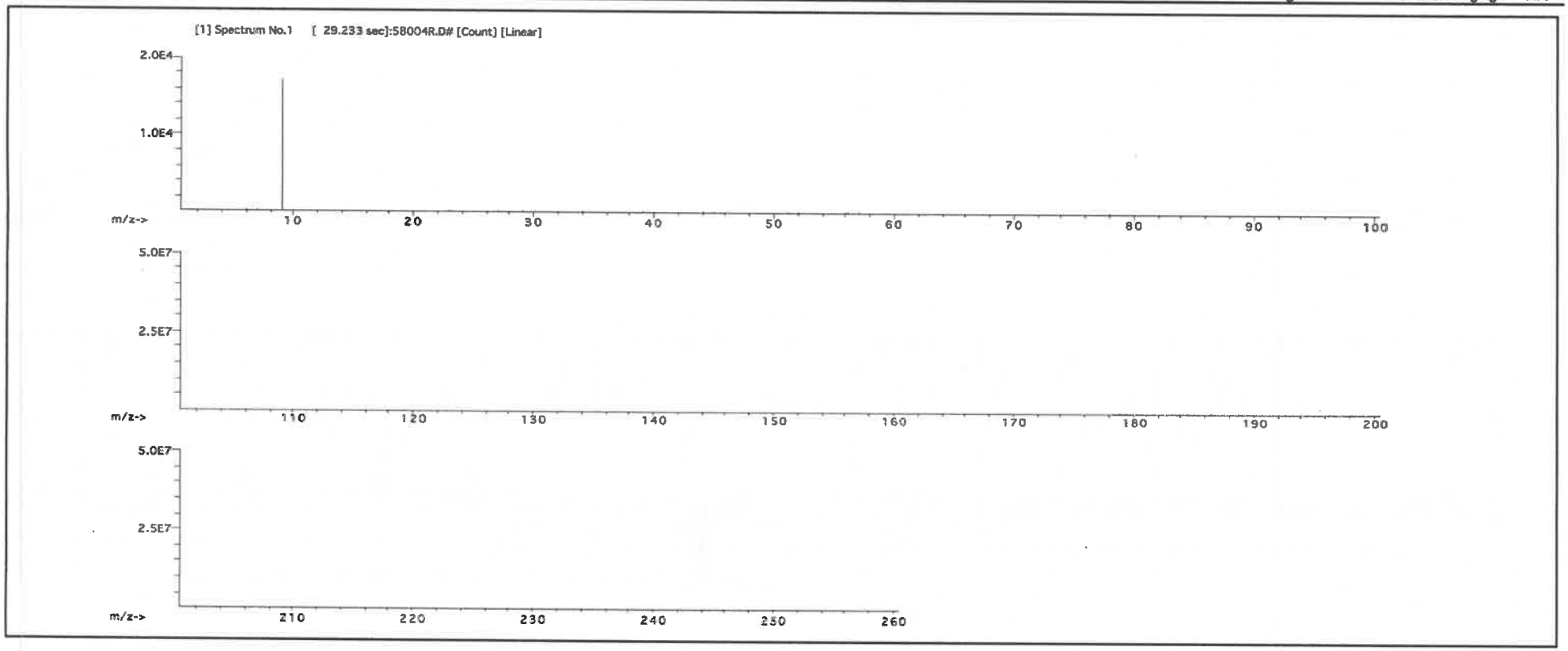
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## CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | | |
|---|---|---|---|---|---|
| **Part Number:** | **57004** | 24002546 | Nitric Acid | | |
| **Lot Number:** | **102523** | | | | |
| **Description:** | **Beryllium (Be)** | 2.0% | 40.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 102526 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Volume shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | | |

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 102523 |
| Reviewed By: | Pedro L. Rentas | 102523 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Beryllium nitrate (Be) | 58104 | 091423 | 0.1000 | 200.0 | 0.084 | 1000 | 10001.5 | **1000.0** | **2.2** | 13597-99-4 | 0.2ug/m3 | intrvns-rat 3.16mg/kg | NA |



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**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | 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.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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## CERTIFIED WEIGHT REPORT:

**Part Number:** 57050
**Lot Number:** 071123
**Description:** Tin (Sn)

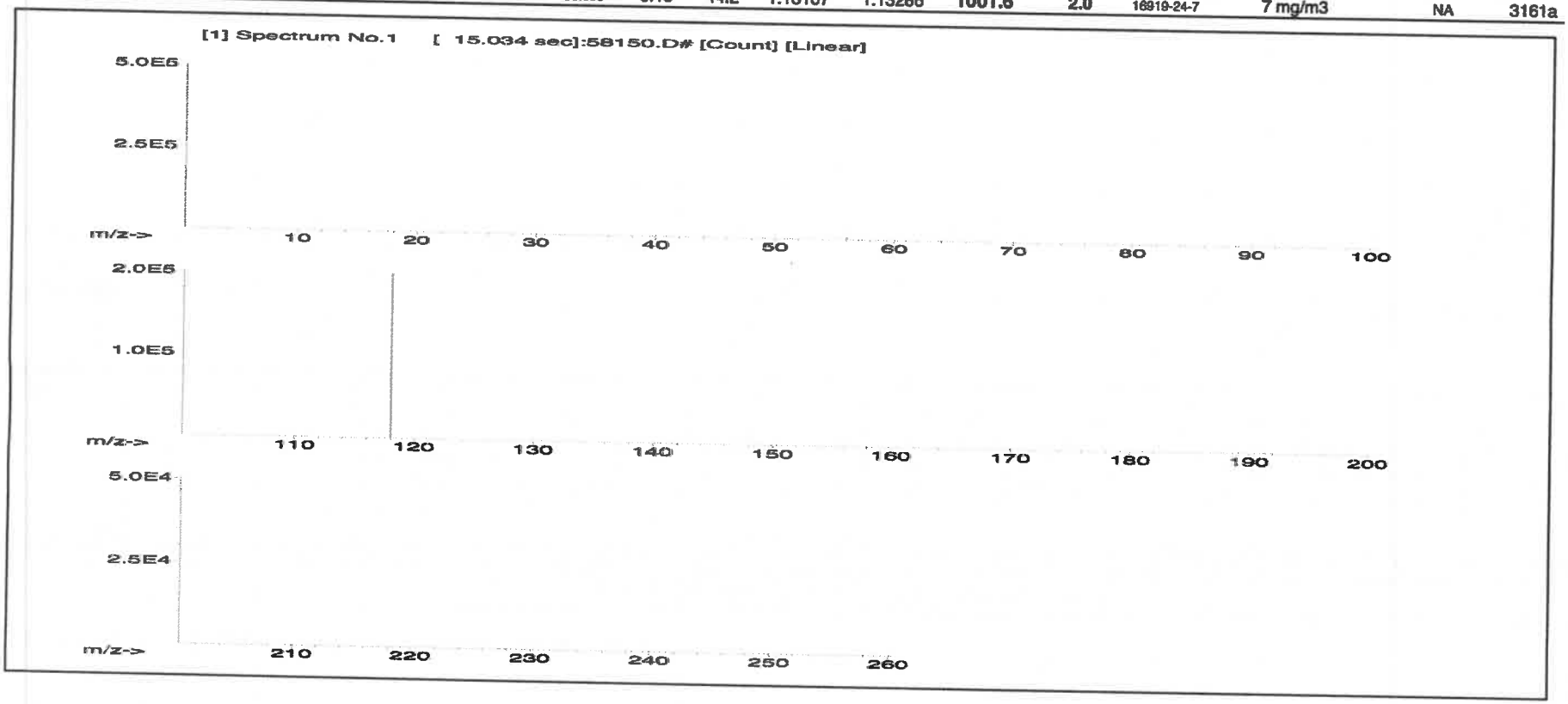
**Expiration Date:** 071126
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 499.93

| | | 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 |



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**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <500 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | T | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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* All standards should be stored with caps tight and under appropriate laboratory conditions.
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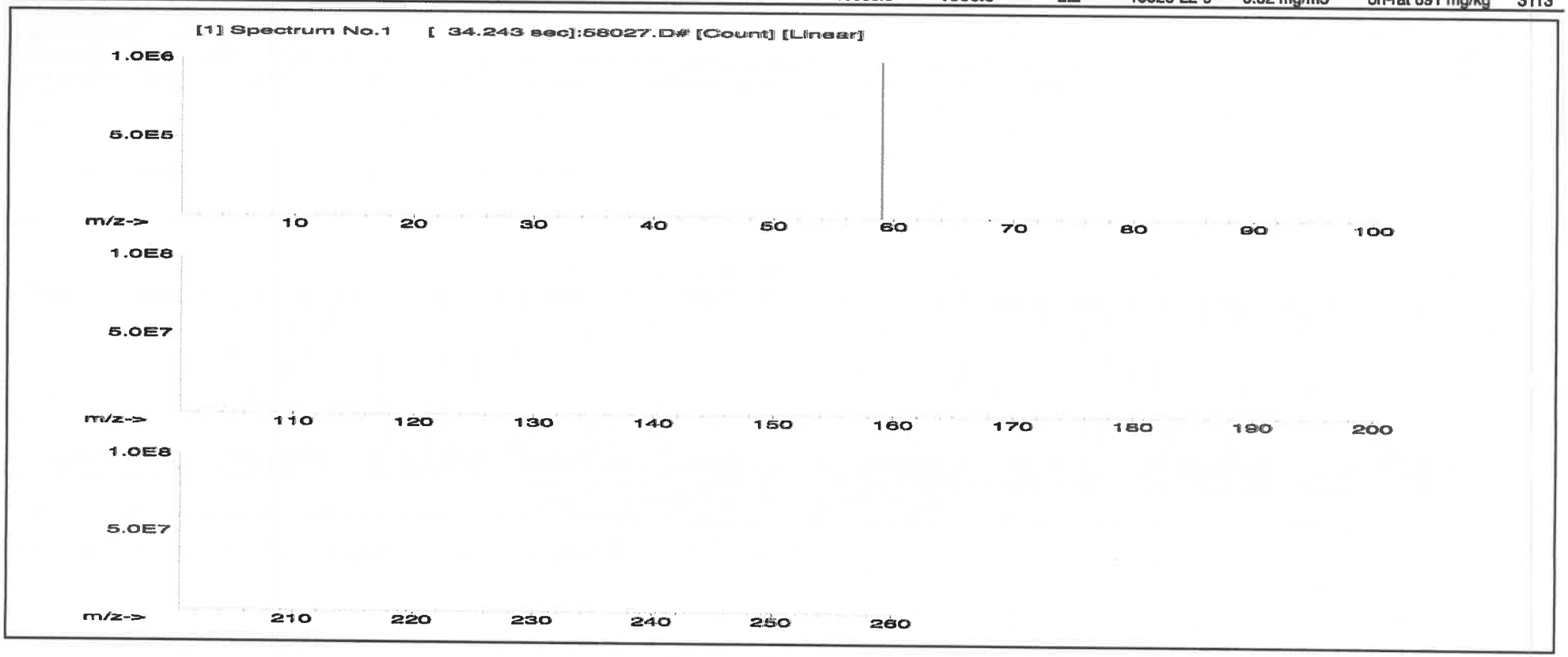
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CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: |
|---|---|---|---|
| **Part Number:** | **57027** | 24002546 | Nitric Acid |
| **Lot Number:** | **091923** | | |
| **Description:** | **Cobalt (Co)** | | |
| | | 2.0% | 40.0 (mL) Nitric Acid |
| **Expiration Date:** | 091926 | | |
| **Recommended Storage:** | Ambient (20 °C) | | |
| **Nominal Concentration (µg/mL):** | **1000** | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty |
| **Volume shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty |

| | |
|---|---|
| Formulated By: | Lawrence Barry 091923 |
| Reviewed By: | Pedro L. Rentas 091923 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Cobalt(II) nitrate hexahydrate (Co) | 58127 | 050923 | 0.1000 | 200.0 | 0.084 | 1000 | 10000.0 | **1000.0** | **2.2** | 10026-22-9 | 0.02 mg/m3 | orl-rat 691 mg/kg | 3113 |



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**Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | T | Gé | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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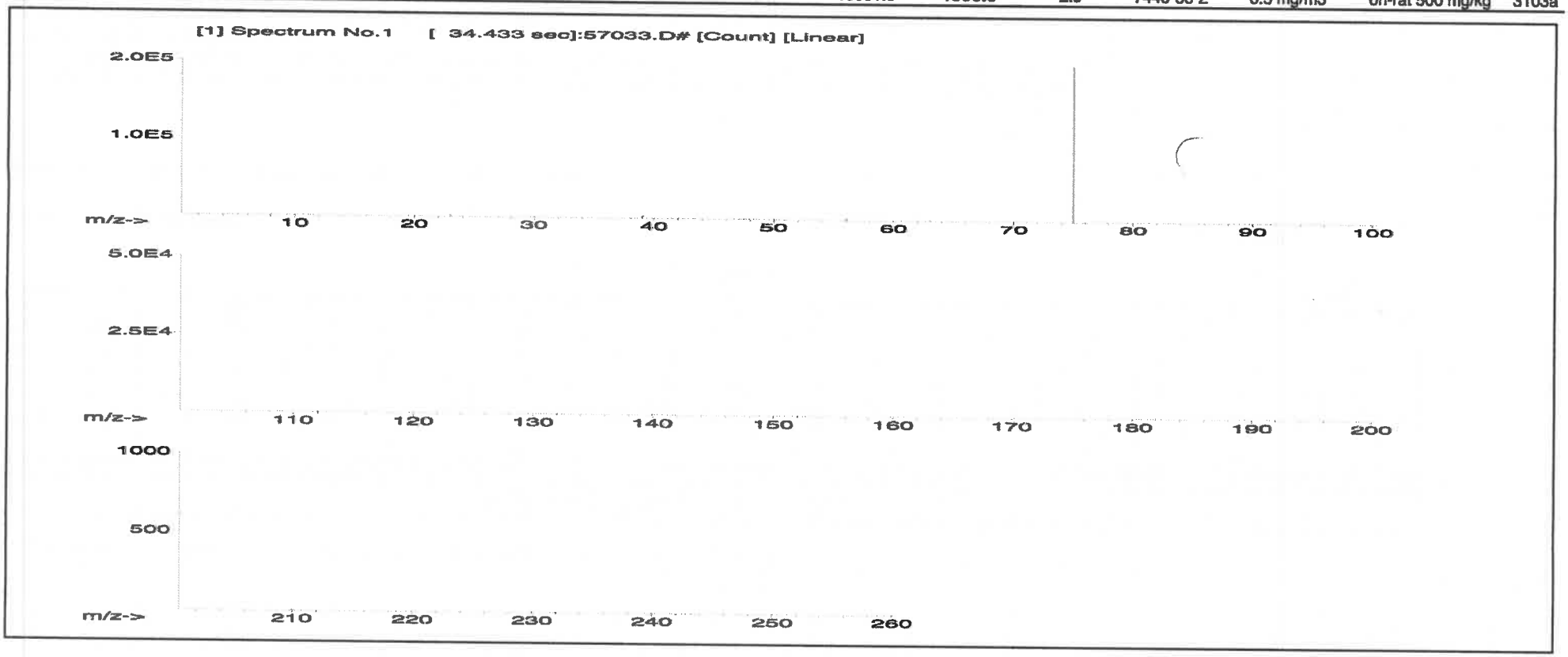


CERTIFIED **WEIGHT** REPORT:

| | | Lot # | Solvent: | | |
|---|---|---|---|---|---|
| **Part Number:** | **57033** | | | | |
| **Lot Number:** | **111323** | 24002546 | Nitric Acid | | |
| **Description:** | **Arsenic (As)** | | | | |
| | | 2.0% | 80.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 111326 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Volume shown below was diluted to (mL):** | 4000.0 | 0.06 | Flask Uncertainty | | |

| | | |
|---|---|---|
| Formulated By: | Lawrence Barry | 111323 |
| Reviewed By: | Pedro L. Rentas | 111323 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Arsenic (As) | 58133 | 020522 | 0.1000 | 400.0 | 0.084 | 1000 | 10001.0 | **1000.0** | 2.0 | 7440-38-2 | 0.5 mg/m3 | orl-rat 500 mg/kg | 3103a |



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**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | 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.

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A: 02/09/24 M.5814

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## CERTIFIED WEIGHT REPORT:

**Part Number:** 57005
**Lot Number:** 071123
**Description:** Boron (B)

**Expiration Date:** 071126
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB

**Weight shown below was diluted to (mL):** 1999.48 0.058 Flask Uncertainty

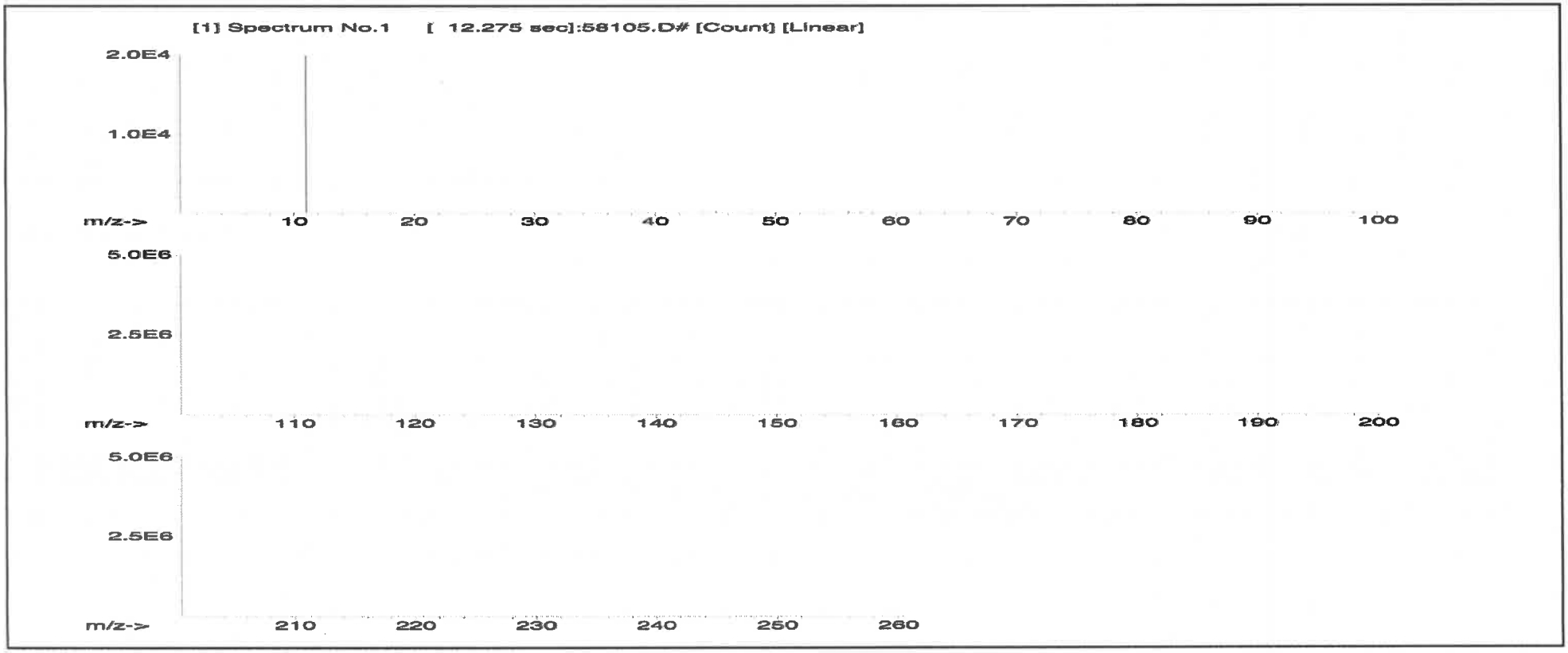
| | Lot # | | | |
|---|---|---|---|---|
| **Solvent:** | MKBQ8597V | Ammonium hydroxide | | |
| | | 2.0% | 40.0 (mL) | Ammonium hydroxide |

5E-05 Balance 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 |



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*Certified Reference Material CRM*

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**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).

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R: 02/09/24 M5816

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CERTIFIED WEIGHT REPORT:

**Part Number:** 57016
**Lot Number:** 122923
**Description:** Sulfur (S)

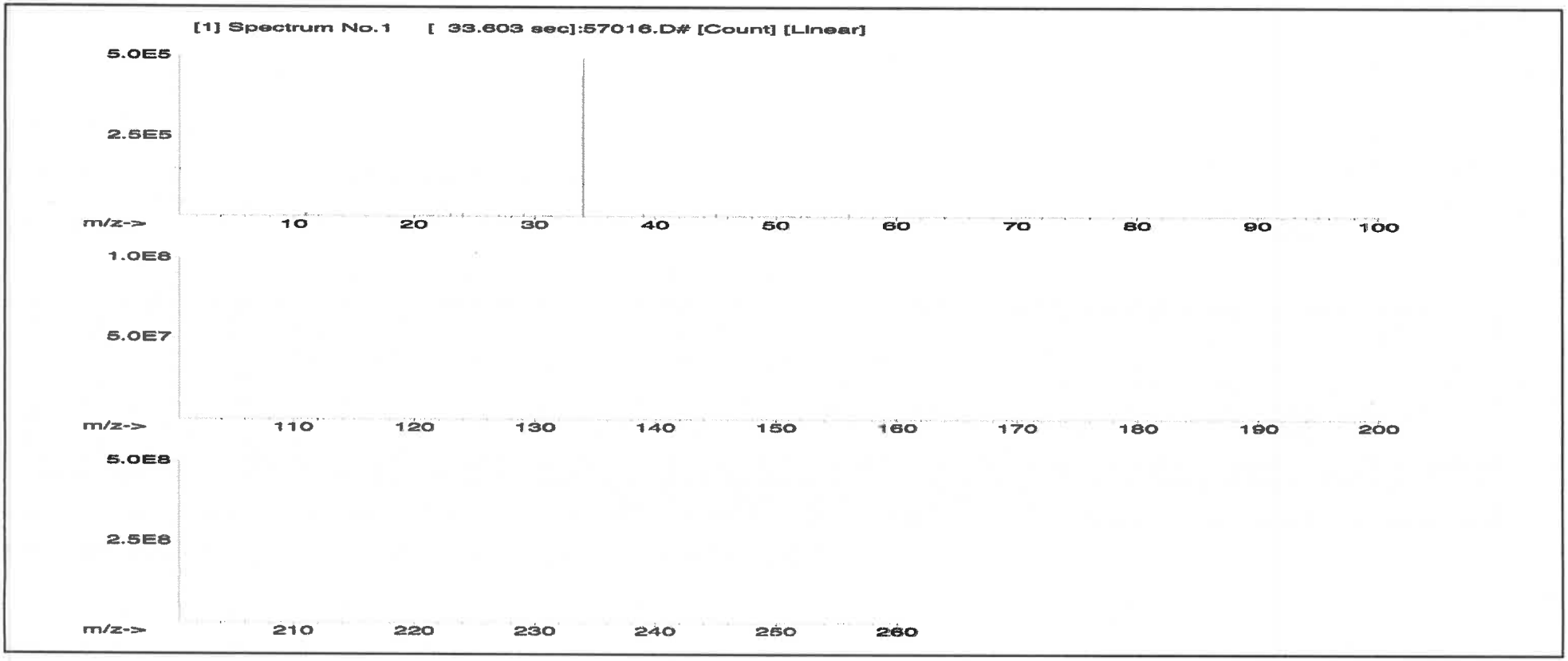
**Expiration Date:** 122926
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB

**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 |



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**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | T | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 02/09/24 M5820

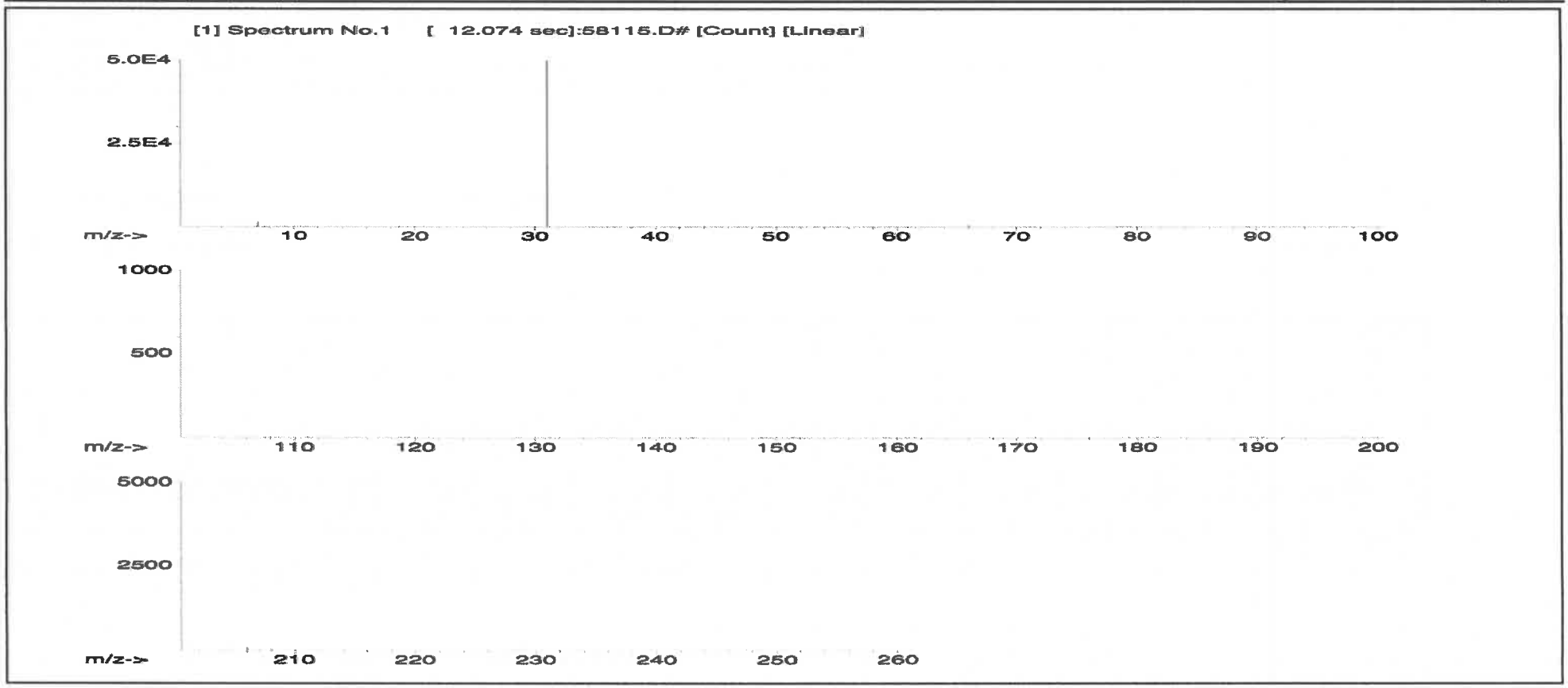
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **57015** | | **Solvent:** | **Lot #** 24002546 | Nitric Acid |
| **Lot Number:** | **091123** | | | | |
| **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 |



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**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | T | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
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# Certificate of Analysis

R: 02/22/24 M5942

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Single Analyte Custom Grade Solution |
| Catalog Number: | 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 (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

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 | < | 0.000536 | M | Eu | < | 0.000268 | O | Na | < | 0.032670 | M | Se | | 0.001204 | O | Zn | < | 0.003267 |
| O | Al | | 0.000872 | O | Fe | | 0.003225 | O | Nb | < | 0.043560 | O | Si | | 0.004735 | O | Zr | < | 0.043560 |
| M | As | < | 0.008586 | M | Ga | < | 0.000268 | M | Nd | < | 0.000268 | M | Sm | < | 0.000268 | | | | |
| M | Au | < | 0.004577 | M | Gd | < | 0.000268 | O | Ni | < | 0.010890 | M | Sn | | 0.000096 | | | | |
| O | B | < | 0.008929 | M | Ge | < | 0.002146 | M | Os | < | 0.000269 | O | Sr | | 0.000096 | | | | |
| M | Ba | < | 0.002683 | M | Hf | | 0.002161 | O | P | < | 0.054450 | M | Ta | | 0.010560 | | | | |
| M | Be | < | 0.005366 | M | Hg | < | 0.003231 | M | Pb | < | 0.001073 | M | Tb | < | 0.000268 | | | | |
| M | Bi | < | 0.001609 | M | Ho | < | 0.000268 | M | Pd | < | 0.000268 | M | Te | < | 0.001341 | | | | |
| O | Ca | | 0.000676 | M | In | < | 0.002683 | M | Pr | < | 0.000268 | M | Th | < | 0.053663 | | | | |
| M | Cd | < | 0.000268 | M | Ir | < | 0.000269 | M | Pt | < | 0.000536 | s | Ti | < | | | | | |
| M | Ce | < | 0.000268 | M | K | | 0.001172 | M | Rb | < | 0.000268 | M | Tl | < | 0.000268 | | | | |
| M | Co | < | 0.004293 | M | La | < | 0.000268 | M | Re | < | 0.000268 | M | Tm | < | 0.000268 | | | | |
| M | Cr | | 0.000752 | O | Li | < | 0.027225 | M | Rh | < | 0.000268 | M | U | < | 0.000268 | | | | |
| M | Cs | < | 0.000268 | M | Lu | < | 0.000268 | M | Ru | < | 0.000269 | M | V | < | 0.019855 | | | | |
| O | Cu | < | 0.010890 | O | Mg | < | 0.005445 | i | S | < | | M | W | | 0.000473 | | | | |
| M | Dy | < | 0.000268 | O | Mn | < | 0.003267 | M | Sb | < | 0.006976 | M | Y | < | 0.002146 | | | | |
| M | Er | < | 0.000268 | M | Mo | | 0.000774 | O | Sc | < | 0.004900 | M | Yb | < | 0.000536 | | | | |

M - Checked by ICP-MS  O - Checked by ICP-OES  i - Spectral Interference
n - Not Checked For  s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution -** 47.87 +4 6 Ti(F)6-2

**Chemical Compatibility -** Soluble in concentrated HCl, HF, H3PO4 H2SO4 and HNO3. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

**Stability -** 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)6-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 chemically stable for years in 2-5% HNO3 / trace HF in an LDPE container.

**Ti Containing Samples (Preparation and Solution) -** Metal (Soluble in H2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H2O / HF / H2SO4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores ( fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H2O / HF / H2SO4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|---|---|---|---|
| ICP-MS 48 amu | 14 ppt | N/A | 32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)] |
| ICP-OES 323.452 nm | 0.0054 / 0.00092 µg/mL | 1 | Ce, Ar, Ni |
| ICP-OES 334.941 nm | 0.0038 / 0.000028 µg/mL | 1 | Nb, Ta, Cr, U |
| ICP-OES 336.121 nm | 0.0053 / 0.000034 µg/mL | 1 | W, Mo, Co |

**HF Note:** This standard should not be prepared or stored in glass.

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

**10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"**

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

June 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

### 11.2 Lot Expiration Date

- **June 17, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

### 11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Thomas Kozikowski
Manager, Quality Control



**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

M5962 R! 06/14/24.

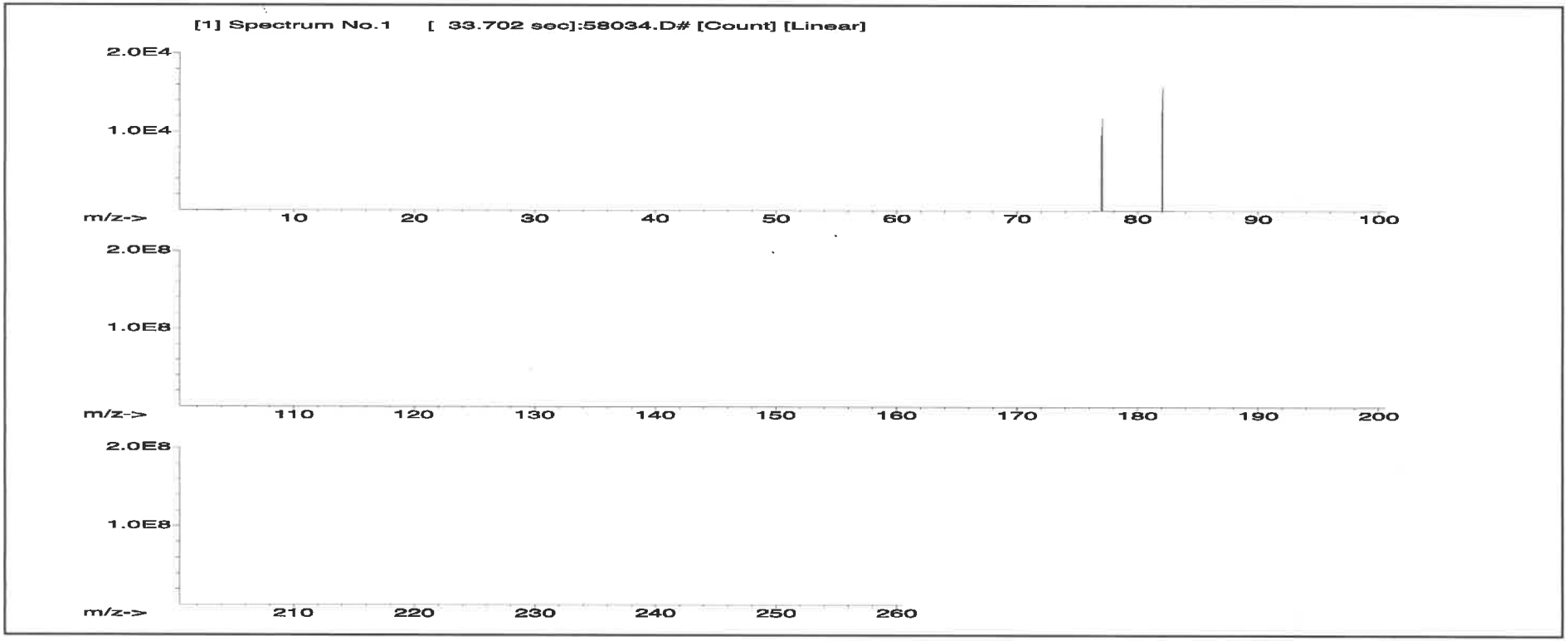
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

| | | 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 |



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**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | T | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

**Certified by:**

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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***Certified Reference Material CRM***

M5970, M5971 R: 7/01/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

**Part Number:** 57003
**Lot Number:** 062124
**Description:** Lithium (Li)
**Expiration Date:** 062127
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB
**Volume shown below was diluted to (mL):** 250.11

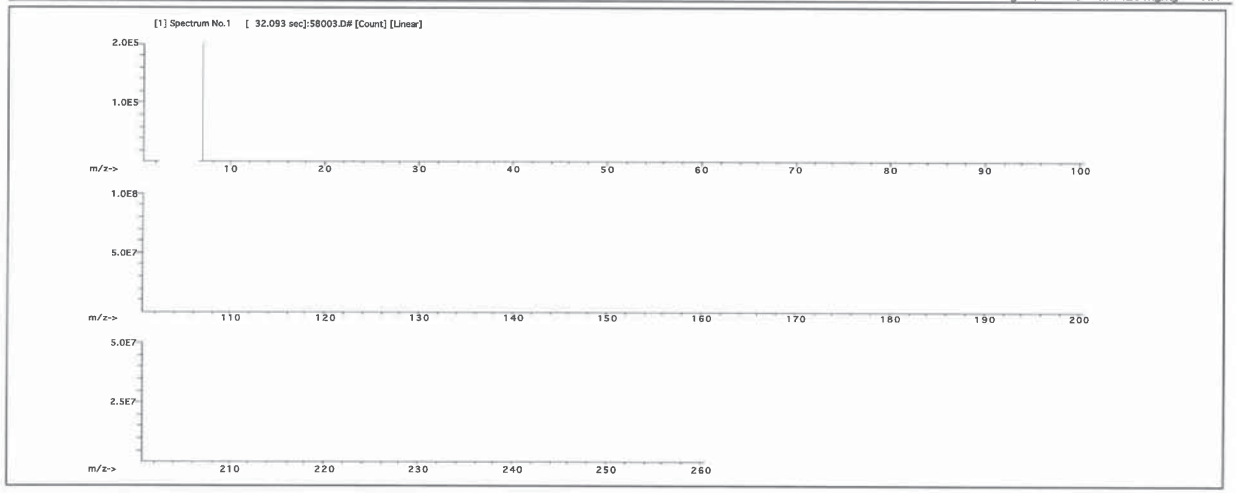
| Lot # | Solvent: | | |
|---|---|---|---|
| 24002546 | Nitric Acid | | |
| 2.0% | 5.0 (mL) | Nitric Acid | |

5E-05 Balance Uncertainty
0.016 Flask Uncertainty

Giovanni Esposito
Formulated By: Giovanni Esposito 062124

Pedro Rentas
Reviewed By: Pedro L. Rentas 062124

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Lithium nitrate (Li) | 58103 | 070622 | 0.1000 | 25.0 | 0.004 | 1000 | 10000.4 | **1000.0** | **2.0** | 7790-69-4 | 5 mg/m3 | orl-rat 1426 mg/kg | NA |



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*Certified Reference Material CRM*

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https://Absolutestandards.com

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

Trace Metals Verification by ICP-MS (µg/mL)

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | T | Ni | <0.02 | Pr | <0.02 | Sc | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

**Certified by:**



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES™
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# Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
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MS984
R:6/14/24

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F: 540-585-3012
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | 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**<br>EDTA NIST SRM 928 Lot Number: 928 |
| **Assay Method #2** | **9997 ± 50 µg/mL**<br>ICP Assay NIST SRM 3167a Lot Number: 190730 |
| **Assay Method #3** | **9984 ± 31 µg/mL**<br>Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### Characterization of CRM/RM by Two or More Methods

**Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:**

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

$X_i$ = mean of Assay Method i with standard uncertainty $u_{char\ i}$

$w_i$ = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$**

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



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# Certificate of Analysis

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MS985
R: 6/14/24

## 1.0 ACCREDITATION / REGISTRATION

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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

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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Multi Analyte Custom Grade Solution |
| Catalog Number: | CLPP-CAL-1 |
| Lot Number: | T2-MEB714417 |
| Matrix: | 5% (v/v) HNO3 |
| Value / Analyte(s): | 5 000 µg/mL ea:<br>Calcium, Potassium,<br>Magnesium, Sodium,<br>2 000 µg/mL ea:<br>Aluminum, Barium,<br>1 000 µg/mL ea:<br>Iron,<br>500 µg/mL ea:<br>Nickel, Vanadium,<br>Zinc, Cobalt,<br>Manganese,<br>250 µg/mL ea:<br>Silver, Copper,<br>200 µg/mL ea:<br>Chromium,<br>50 µg/mL ea:<br>Beryllium |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|---|---|---|---|
| Aluminum, Al | 2 000 ± 7 µg/mL | Barium, Ba | 2 000 ± 9 µg/mL |
| Beryllium, Be | 50.00 ± 0.26 µg/mL | Calcium, Ca | 5 000 ± 22 µg/mL |
| Chromium, Cr | 200.0 ± 1.0 µg/mL | Cobalt, Co | 500.0 ± 2.4 µg/mL |
| Copper, Cu | 250.0 ± 1.0 µg/mL | Iron, Fe | 1 000 ± 4 µg/mL |
| Magnesium, Mg | 5 000 ± 20 µg/mL | Manganese, Mn | 500.0 ± 2.0 µg/mL |
| Nickel, Ni | 500.0 ± 2.2 µg/mL | Potassium, K | 5 000 ± 19 µg/mL |
| Silver, Ag | 250.0 ± 1.1 µg/mL | Sodium, Na | 5 000 ± 18 µg/mL |
| Vanadium, V | 499.7 ± 2.2 µg/mL | Zinc, Zn | 500.0 ± 2.2 µg/mL |

**Density:** 1.118 g/mL (measured at 20 ± 4 °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 |
| Be | Calculated | | See Sec. 4.2 |
| Ca | ICP Assay | 3109a | 130213 |
| Ca | EDTA | 928 | 928 |
| Co | ICP Assay | 3113 | 190630 |
| Co | EDTA | 928 | 928 |
| Cr | ICP Assay | 3112a | 170630 |
| Cr | Calculated | | See Sec. 4.2 |
| Cu | ICP Assay | 3114 | 121207 |
| Cu | EDTA | 928 | 928 |
| Fe | ICP Assay | 3126a | 140812 |
| Fe | EDTA | 928 | 928 |
| K | ICP Assay | 3141a | 140813 |
| K | Gravimetric | | See Sec. 4.2 |
| Mg | ICP Assay | 3131a | 140110 |
| Mg | EDTA | 928 | 928 |
| Mn | ICP Assay | 3132 | 050429 |
| Mn | EDTA | 928 | 928 |
| Na | ICP Assay | 3152a | 120715 |
| Na | Gravimetric | | See Sec. 4.2 |
| Ni | ICP Assay | 3136 | 120619 |
| Ni | EDTA | 928 | 928 |
| V | IC Assay | 3165 | 160906 |
| V | EDTA | 928 | 928 |
| Zn | ICP Assay | 3168a | 120629 |
| Zn | EDTA | 928 | 928 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

**Characterization of CRM/RM by Two or More Methods**

**Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:**

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

$X_i$ = mean of Assay Method i with standard uncertainty $u_{char\ i}$

$w_i$ = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$**

k = coverage factor = 2

$u_{char} = (\Sigma((w_i)^2\,(u_{char\ i})^2))^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

**Characterization of CRM/RM by One Method**

**Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:**

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

$X_a$ = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$**

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

**Note**: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

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## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

January 27, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

### 11.2 Lot Expiration Date

**- January 27, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

### 11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Thomas Kozikowski
Manager, Quality Control



**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director



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# Certificate of Analysis

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MS-997

## 1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Multi Analyte Custom Grade Solution |
| Catalog Number: | CLPP-CAL-3 |
| Lot Number: | T2-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:**

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$w_i$ = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i}^2) / (\Sigma(1/(u_{char\ i}^2))$

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### 4.3 Glassware Calibration

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## 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.

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- 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

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## 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



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:

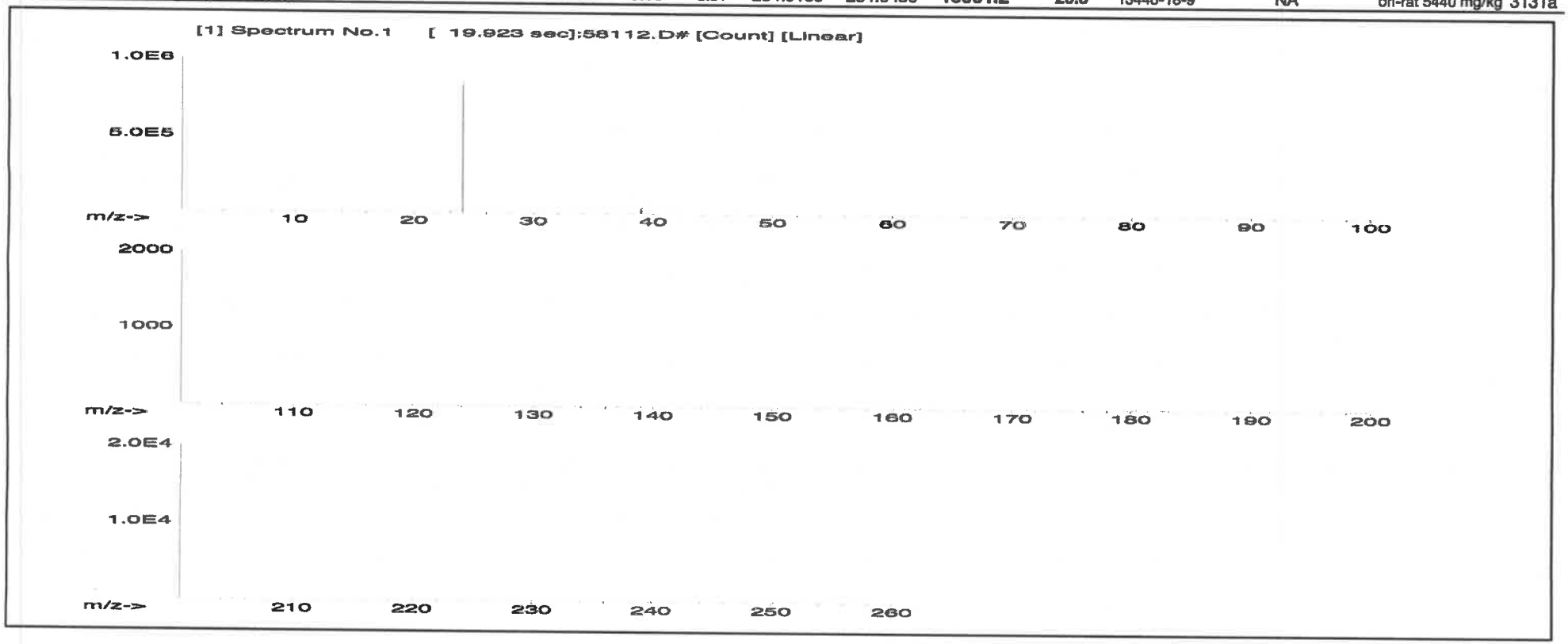
R -> 1/13/25
M 6127

| | | | Lot # | |
|---|---|---|---|---|
| **Part Number:** | **58112** | **Solvent:** | 24012496 | Nitric Acid |
| **Lot Number:** | **112124** | | | |
| **Description:** | **Magnesium (Mg)** | 2% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 112127 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **10000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Weight shown below was diluted to (mL):** | 2000.07 | 0.100 | Flask Uncertainty | |

Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 112124 |
| Reviewed By: | Pedro L. Rentas | 112124 |

| 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 | 234.9459 | **10001.2** | **20.0** | 13446-18-9 | NA | orl-rat 5440 mg/kg | 3131a |



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## Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | T | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

## Physical Characterization:

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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www.absolutestandards.com

***Certified Reference Material CRM***

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AR-1539 Certificate Number
https://Absolutestandards.com

## CERTIFIED WEIGHT REPORT:

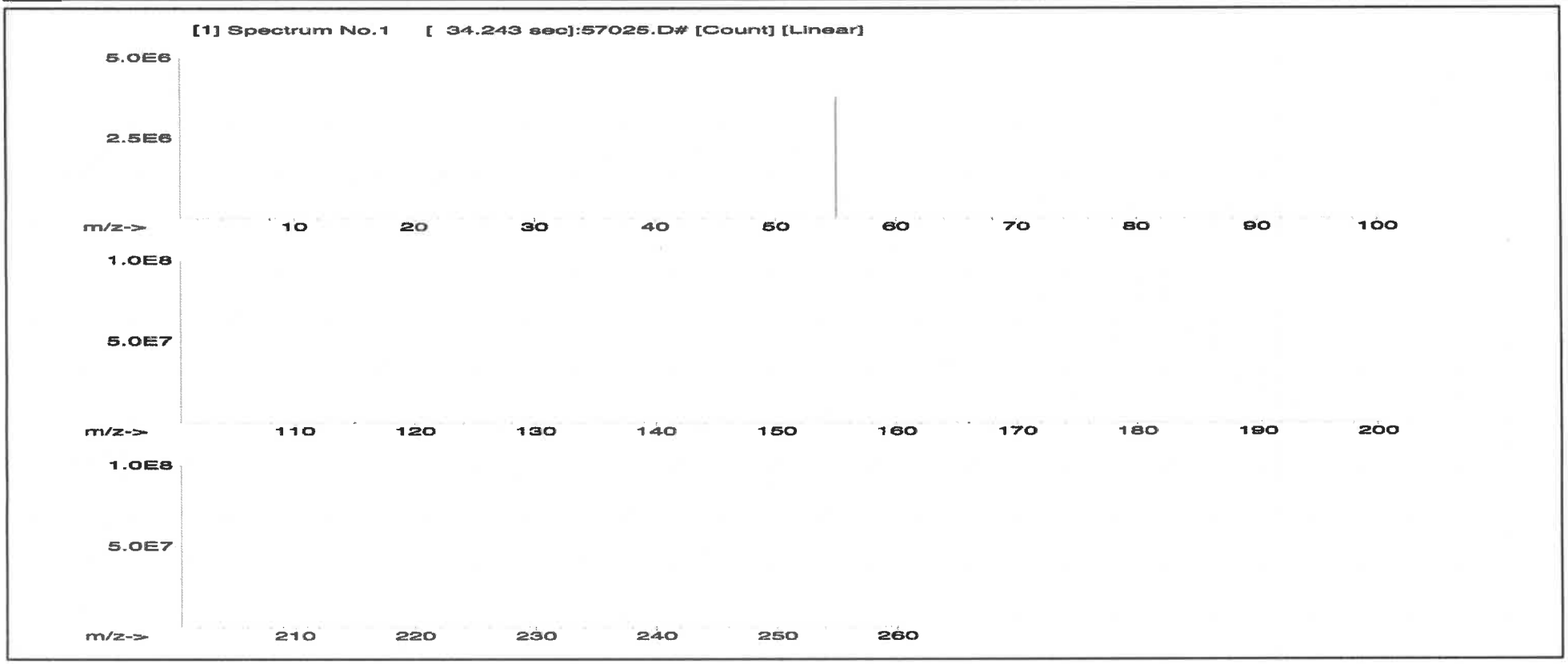
R->1/13/25
M6128

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **58025** | | **Solvent:** | **Lot #** 24002546 | Nitric Acid |
| **Lot Number:** | **101124** | | | | |
| **Description:** | **Manganese (Mn)** | | 2% | 80.0 (mL) | Nitric Acid |
| **Expiration Date:** | 101127 | | | | |
| **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):** | 4000.2 | 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 |



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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:**

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

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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**
ICP Assay NIST SRM Traceable to 3150 Lot Number: S2-SI702546

**Assay Method #2** **1000 ± 7 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 (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$**

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

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CERTIFIED WEIGHT REPORT:

R-> 1/13/25

**Part Number:** 57119
**Lot Number:** 103024
**Description:** Potassium (K)

M6141
M6142
M6143

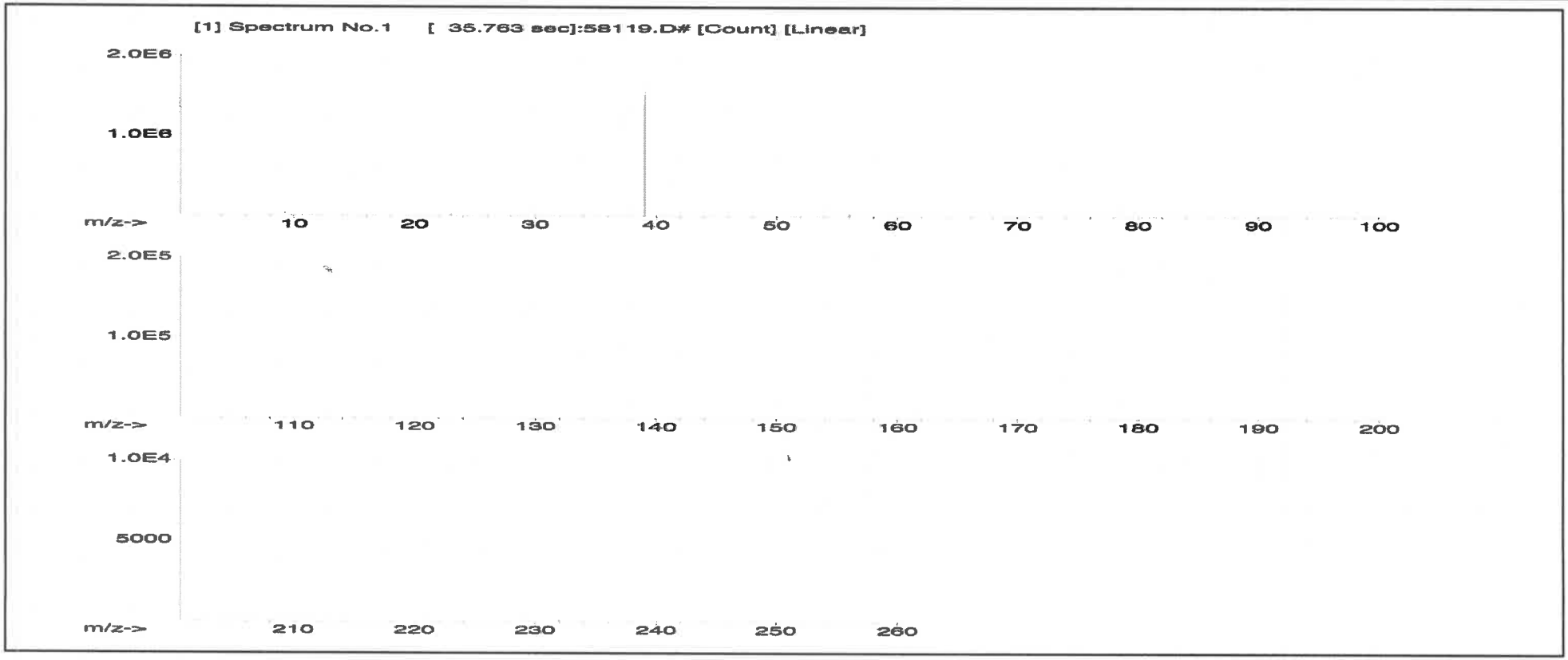
**Expiration Date:** 103027
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB

| | | | | Lot # | |
|---|---|---|---|---|---|
| **Solvent:** | | | 24002546 | Nitric Acid |
| | 2% | | 80.0 (mL) | Nitric Acid |
| | | 5E-05 | Balance Uncertainty | |
| **Weight shown below was diluted to (mL):** | 4000.1 | 0.15 | Flask Uncertainty | |

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 |



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## Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | T | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

## Physical Characterization:

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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## CERTIFIED WEIGHT REPORT:

R->1/13/25

**Part Number:** 58111
**Lot Number:** 072424
**Description:** Sodium (Na)

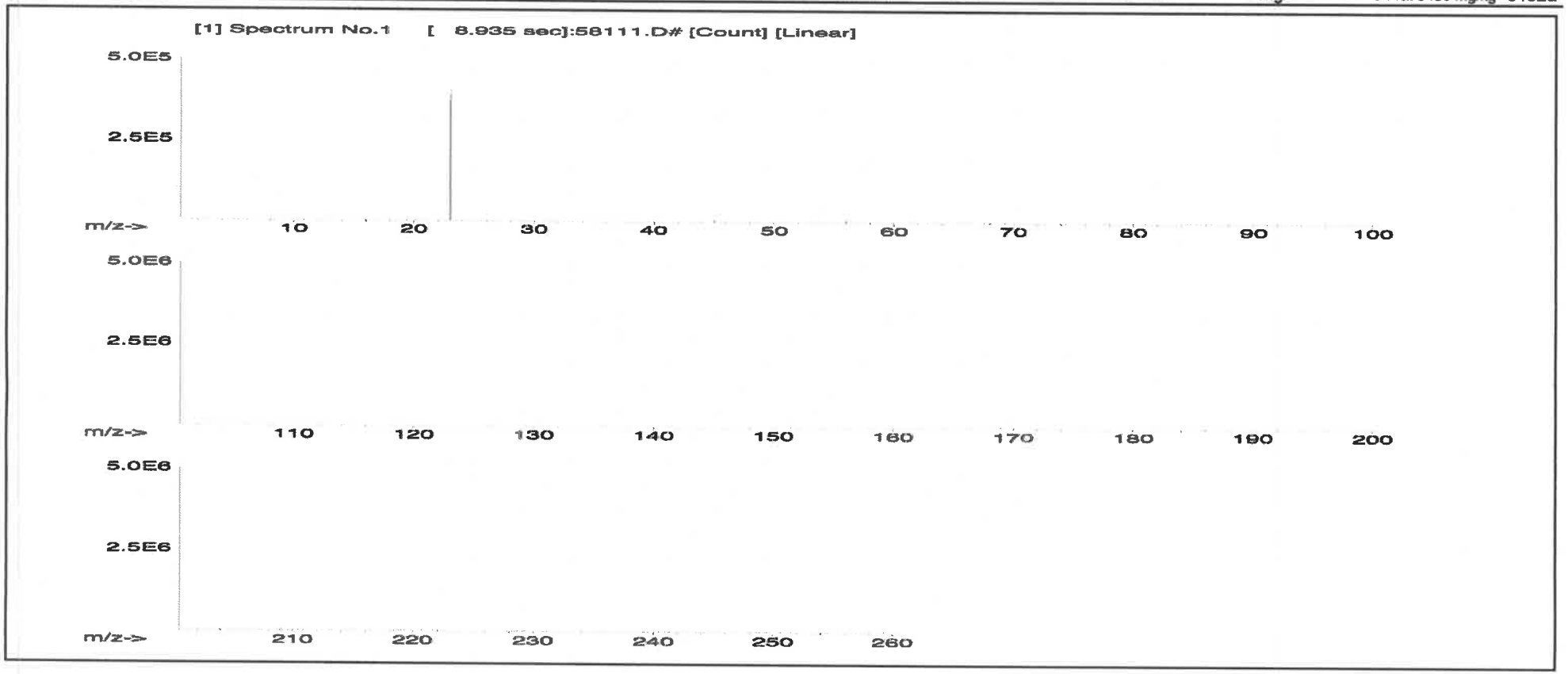
M6144

**Expiration Date:** 072427
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 4000.2

| | Lot # | | |
|---|---|---|---|
| Solvent: | 24002546 | Nitric Acid | |
| | 2% | 80.0 (mL) | Nitric Acid |
| 5E-05 | Balance Uncertainty | | |
| 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 |



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**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | 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).

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## CERTIFIED WEIGHT REPORT:

**Part Number:** 58030
**Lot Number:** 121724
**Description:** Zinc (Zn)

R → 1/13/25

M6145

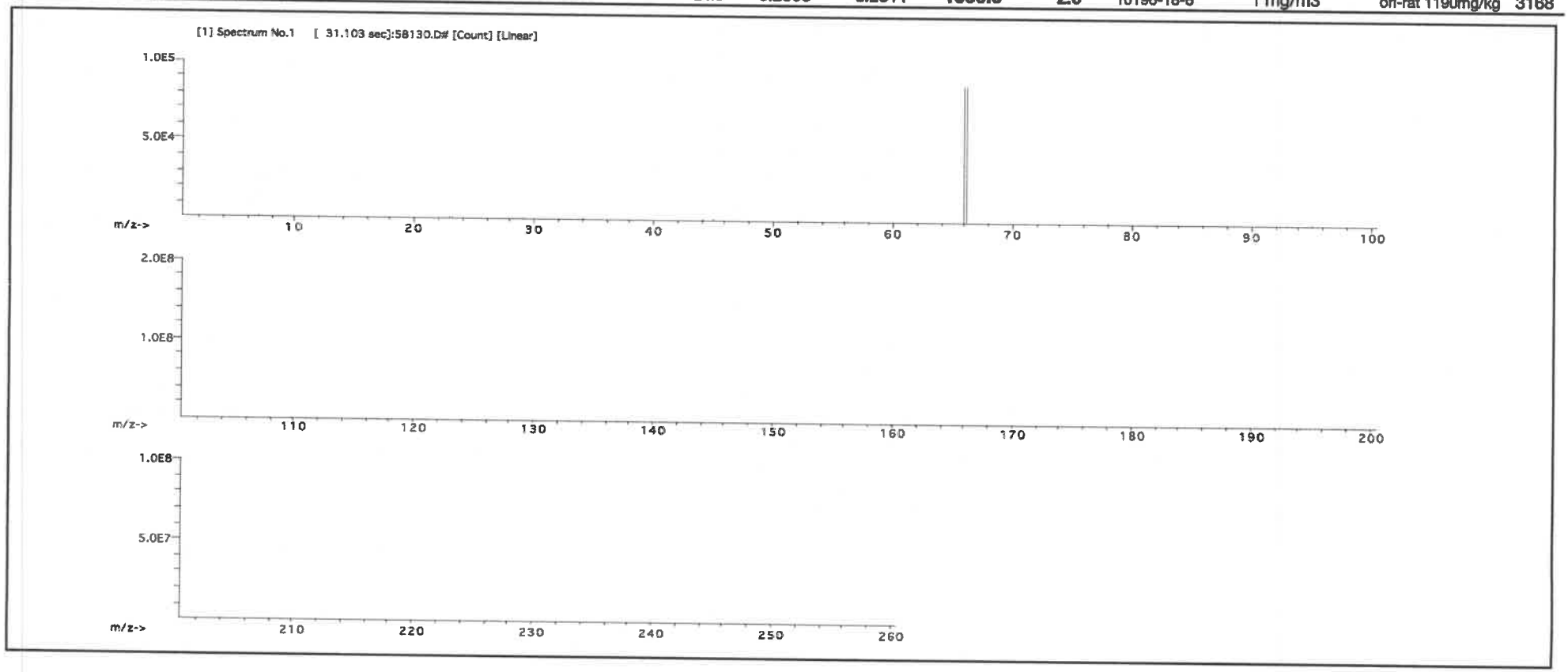
**Expiration Date:** 121727
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB

| | | | | 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 |



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**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | 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 >>>

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

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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Multi Analyte Custom Grade Solution |
| Catalog Number: | 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

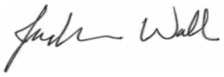
**Certificate Prepared By:**

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

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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Multi Analyte Custom Grade Solution |
| Catalog Number: | 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

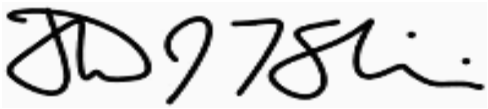
- Sealed TCT Bag Open Date: _____

- 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

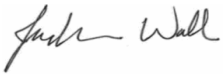
**Certificate Prepared By:**

Justin Dirico
Stock Processing Supervisor



**Certificate Approved By:**

Jodie Wall
Stock VSM Coordinator



**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director



**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:

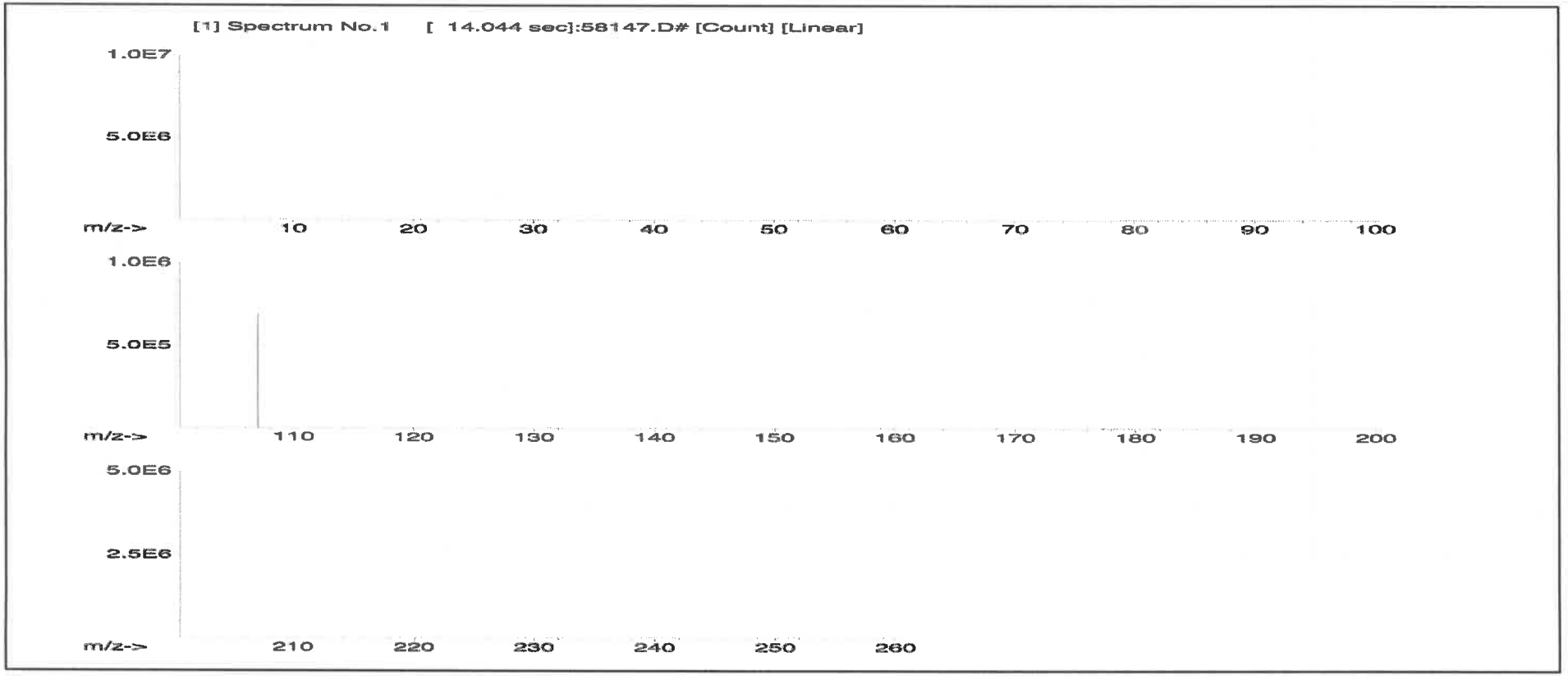
**Part Number:** 57047
**Lot Number:** 122823
**Description:** Silver (Ag)

**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

| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 24002546 | Nitric Acid | |
| 2% | 80.0 (mL) | Nitric Acid | |
| | 5E-05 | Balance Uncertainty | |
| | 0.058 | Flask Uncertainty | |

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 122823 |
| Reviewed By: | Pedro L. Rentas | 122823 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Silver nitrate (Ag) | IN035 | J0612AGA1 | 1000.0 | 99.9999 | 0.10 | 63.7 | 6.27992 | 6.27998 | **1000.0** | **2.0** | 7761-88-8 | 10 ug/m3 | NA | 3151 |



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**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | 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).

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www.absolutestandards.com

***Certified Reference Material CRM***

R: 10/18/24

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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

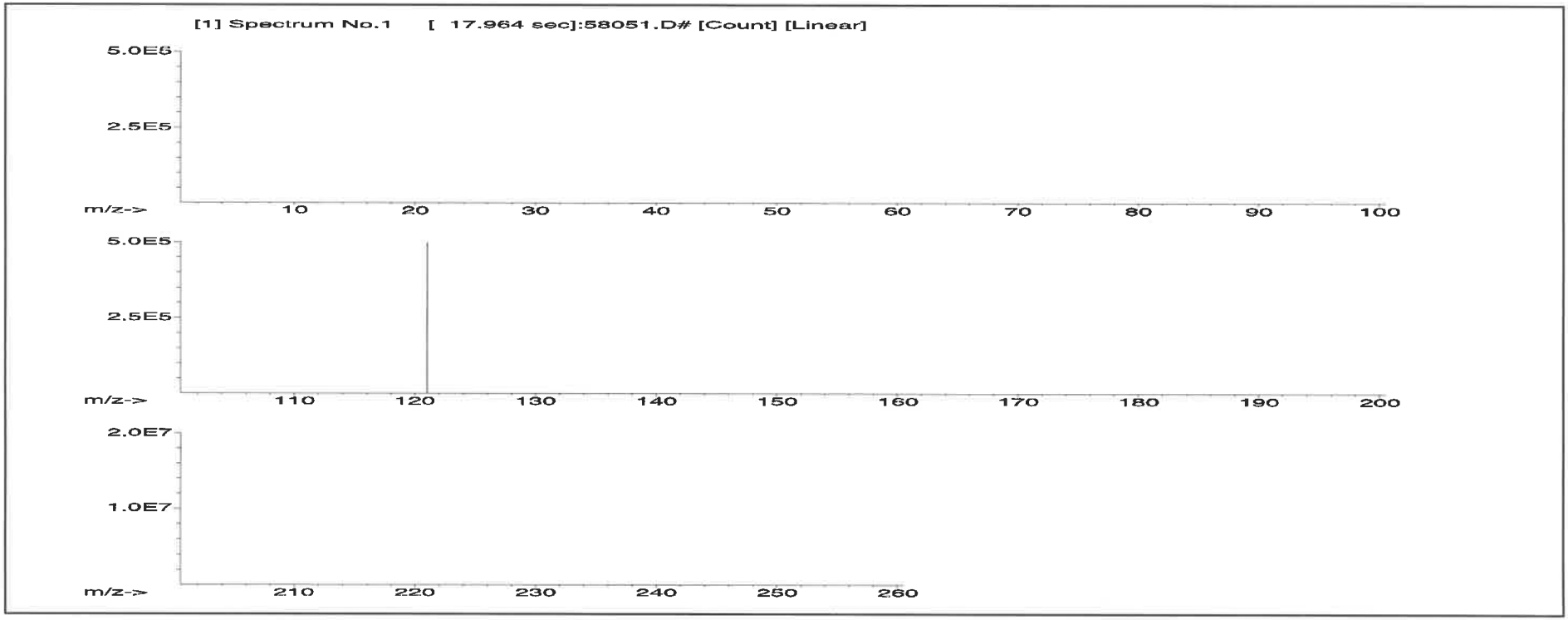
| Lot # | Solvent: | | |
|---|---|---|---|
| 24002546 | Nitric Acid | | |
| 2.0% | 40.0 (mL) | Nitric Acid | |

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 071724 |
| 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 |



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**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | 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).

APTIM

**QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY**
***"An ISO 9001:2015 Certified Program"***

**Instructions for QATS Reference Material: *ICP-AES ICS***

## QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

**NOTE:** These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

***APPLICATION:*** For use with the CLP SFAM01.0 SOW and revisions.

***CAUTION:*** Read instructions carefully before opening bottle(s) and proceeding with the analyses.

M6152

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,



*The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.*

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.

APTIM

**QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY**
***"An ISO 9001:2015 Certified Program"***

**Instructions for QATS Reference Material: *ICP-AES ICS***

## QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-AES (ICSA WITH ICSB)

**NOTE:** These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

***APPLICATION:*** For use with the CLP SFAM01.0 SOW and revisions.

***CAUTION:*** Read instructions carefully before opening bottle(s) and proceeding with the analyses.

M6155

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,



*The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.*

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.

INORGANIC VENTURES™
Refine your results. Redefine your industry.

# Certificate of Analysis

R: 8/5/24 M6019

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: | Single Analyte Custom Grade Solution |
| Catalog Number: | CGSR1 |
| Lot Number: | U2-SR730227 |
| Matrix: | 0.1% (v/v) HNO3 |
| Value / Analyte(s): | 1 000 µg/mL ea: Strontium |
| Starting Material: | SrCO3 |
| Starting Material Lot#: | M2-2192 |
| Starting Material Purity: | 99.9993% |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 1001 ± 3 µg/mL

**Density:** 1.000 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

**Assay Method #1** **998 ± 4 µg/mL**
ICP Assay NIST SRM Traceable to 3153a Lot Number: K2-SR650985

**Assay Method #2** **1001 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

**Assay Method #3** **1001 ± 2 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 | < | 0.001980 | M | Eu | < | 0.000495 | O | Na | | 0.000200 | M | Se | < | 0.013862 | O | Zn | | 0.000143 |
| O | Al | | 0.000370 | O | Fe | | 0.000410 | M | Nb | < | 0.000495 | i | Si | < | | M | Zr | < | 0.000495 |
| M | As | < | 0.000495 | M | Ga | < | 0.000495 | M | Nd | < | 0.000495 | M | Sm | < | 0.000495 | | | | |
| M | Au | < | 0.000989 | M | Gd | < | 0.000495 | O | Ni | < | 0.007631 | M | Sn | < | 0.000990 | | | | |
| M | B | < | 0.039606 | M | Ge | < | 0.000495 | M | Os | < | 0.000494 | s | Sr | < | | | | | |
| M | Ba | | 0.006486 | M | Hf | < | 0.000495 | i | P | < | | M | Ta | < | 0.000495 | | | | |
| M | Be | < | 0.000990 | M | Hg | < | 0.000989 | M | Pb | < | 0.002970 | M | Tb | < | 0.000495 | | | | |
| M | Bi | < | 0.000495 | M | Ho | < | 0.000495 | M | Pd | < | 0.003957 | M | Te | < | 0.027724 | | | | |
| O | Ca | | 0.004255 | M | In | < | 0.000495 | M | Pr | < | 0.000495 | M | Th | < | 0.000990 | | | | |
| M | Cd | | 0.001339 | M | Ir | < | 0.000494 | M | Pt | < | 0.002970 | M | Ti | < | 0.005940 | | | | |
| M | Ce | < | 0.004950 | O | K | < | 0.008184 | M | Rb | < | 0.002970 | M | Tl | < | 0.000495 | | | | |
| M | Co | < | 0.000495 | M | La | < | 0.000495 | M | Re | < | 0.000495 | M | Tm | < | 0.000495 | | | | |
| O | Cr | < | 0.003207 | O | Li | < | 0.000884 | O | Rh | < | 0.012829 | M | U | < | 0.001485 | | | | |
| M | Cs | < | 0.000990 | M | Lu | < | 0.002970 | M | Ru | < | 0.000989 | M | V | < | 0.001980 | | | | |
| M | Cu | | 0.000099 | O | Mg | | 0.000064 | i | S | < | | M | W | < | 0.003960 | | | | |
| M | Dy | < | 0.000495 | O | Mn | | 0.000066 | M | Sb | < | 0.014852 | O | Y | < | 0.000995 | | | | |
| M | Er | < | 0.000495 | M | Mo | < | 0.001980 | M | Sc | < | 0.001980 | M | Yb | < | 0.000495 | | | | |

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 -** 87.62 +2 6 $Sr(H_2O)_{6}^{+2}$

**Chemical Compatibility -** Soluble in HCl, and $HNO_3$. Avoid $H_2SO_4$, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate and tungstate in neutral aqueous media.

**Stability -** 2-100 ppb levels stable for months in 1% $HNO_3$ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1 - 3.5% $HNO_3$ / LDPE container.

**Sr Containing Samples (Preparation and Solution) -**Metal (Best dissolved in diluted $HNO_3$ ); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (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 88 amu | 1200 ppt | N/A | 72Ge16O, 176Yb+2, 176Lu+2 , 176Hf+2 |
| ICP-OES 407.771 nm | 0.0004 / 0.00006 µg/mL | 1 | U, Ce |
| ICP-OES 421.552 nm | 0.0008 / 0.00004 µg/mL | 1 | Rb |
| ICP-OES 460.733 nm | 0.07 / 0.003 µg/mL | 1 | Ce |

## 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 03, 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**

- **March 03, 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



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

M6023

R ! 8/5/24

ANAB ISO 17034 Accredited
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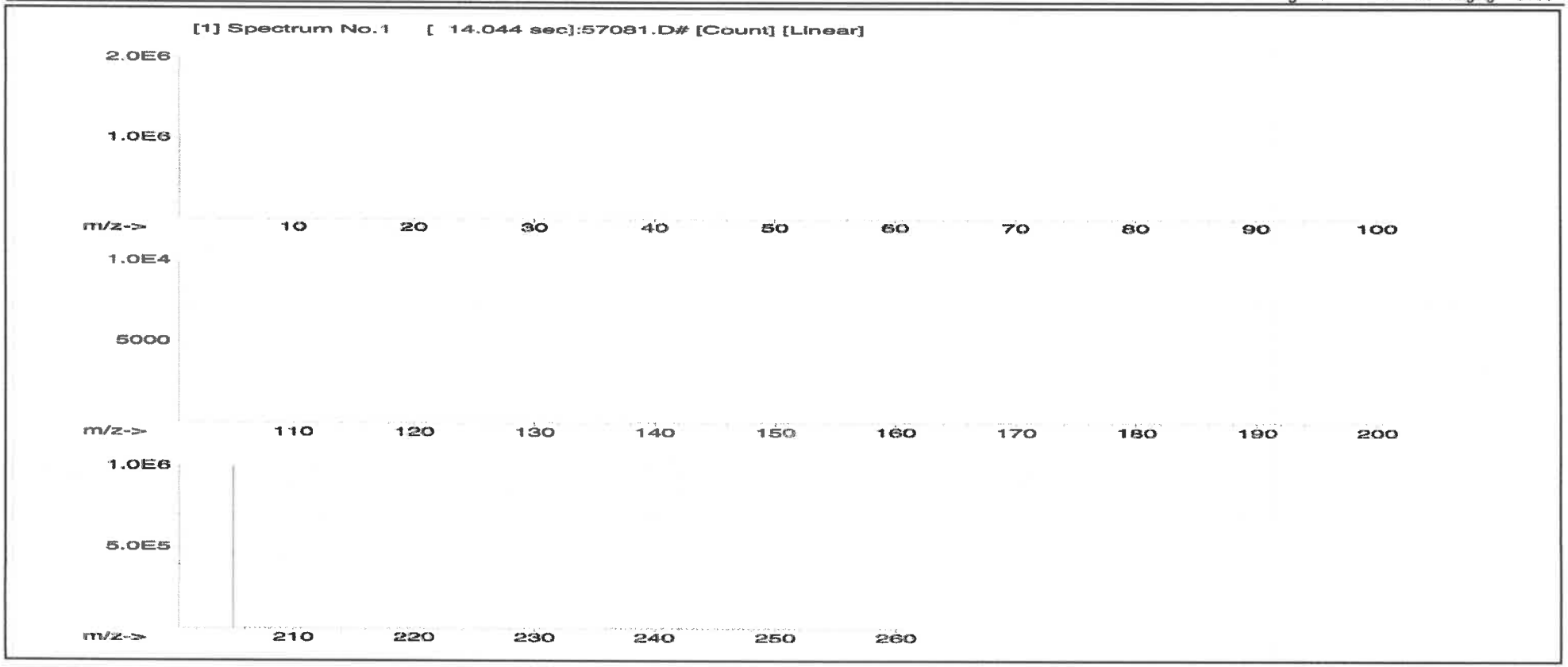
CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **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*

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**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | 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

Bc. 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 | |

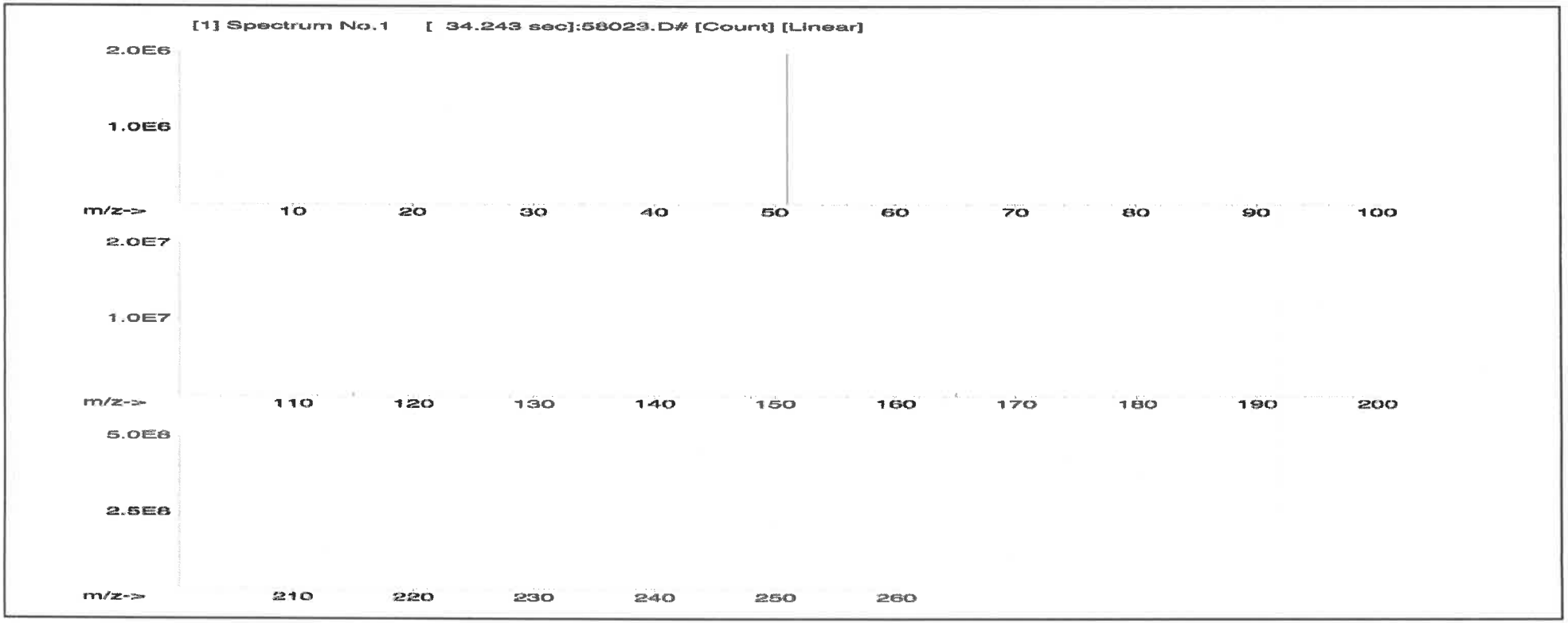
Aleah O'Brady

| 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 |



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*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

**CHEMTECH**
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 78-8922
www.chemtech.net

Chemtech Project Number: Q 2745
COC Number:

| CLIENT INFORMATION | PROJECT INFORMATION | BILLING INFORMATION |
|---|---|---|
| COMPANY: Tetra Tech | PROJECT NAME: NWIRP Bethpage | BILL TO: PO# |
| ADDRESS: 4433 Corporation Ln, Suite 300 | PROJECT #: 112G08005-WE13 LOCATION: RW8 | ADDRESS: |
| CITY: Virginia Beach STATE: VA ZIP: 23462 | PROJECT MANAGER: Ernie Wu | CITY: STATE: ZIP: |
| ATTENTION: Ernie Wu | E-MAIL: ernie,wu@tetratech.com | ATTENTION: PHONE: |
| PHONE: 757-466-4901 FAX: 757-461-4148 | PHONE: 757-466-4901 FAX: 757-461-4148 | |

**DATA TURNAROUND INFORMATION**

FAX: 10 DAYS*
HARD COPY: 10 DAYS*
EDD 10 DAYS*
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

**DATA DELIVERABLE INFORMATION**

- ☐ RESULTS ONLY
- ☐ RESULTS + QC
- ☐ New Jersey REDUCED
- ☐ New Jersey CLP
- ☐ USEPA CLP
- ☐ New York State ASP "B"
- ☐ New York State ASP "A"
- ☐ Other
- ☐ EDD Format

**ANALYSIS**

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane SW846 8270 SIM | Iron, Total | TSS | TDS | | | | | |

| CHEMTECH 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | B | | | | | | | | <-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other |
| 1. | RW8-SP100-20250731 | GW | | x | 7/31/25 | 13:05 | 2 | x | x | | | | | | | | |
| 2. | RW8-SP303-20250731 | GW | | x | 7/31/25 | 13:13 | 4 | x | x | x | x | | | | | | |
| 3. | | | | | | | | | | | | | | | | | |
| 4. | | | | | | | | | | | | | | | | | |
| 5. | | | | | | | | | | | | | | | | | |
| 6. | | | | | | | | | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | |

**SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY**

| | DATE/TIME | | |
|---|---|---|---|
| RELINQUISHED BY SAMPLER 1. | 7/31 1416 | RECEIVED BY 1. | Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 1.9°C |
| RELINQUISHED BY 2. FedEx | 8-1-25 1005 | RECEIVED BY 2. | MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?: Y |
| RELINQUISHED BY 3. | DATE/TIME | RECEIVED FOR LAB BY 3. | Comments: |

Page ____ of ____

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
CHEMTECH: ☐ Picked Up ☐ Overnight

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPYFOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

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 |