284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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# DATA PACKAGE

## METALS

**PROJECT NAME : NJ WASTE WATER PT**

**CHEMTECH CONSULTING GROUP**

**284 Sheffield St,**

**Mountainside, NJ - 07092**

**Phone No: 908-789-8900**

**ORDER ID : P3846**

**ATTENTION : QA Officer**

**Laboratory Certification ID # 20012**

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# Cover Page

**Order ID :** P3846

**Project ID :** NJ Waste Water PT

**Client :** Chemtech Consulting Group

| Lab Sample Number | Client Sample Number |
|---|---|
| P3846-01 | PT-TM1-WP |
| P3846-02 | PT-TM1-WP |
| P3846-03 | PT-SNTI-WP |
| P3846-04 | PT-SNTI-WP |
| P3846-05 | PT-MIN2-WP |
| P3846-06 | PT-MIN2-WP |
| P3846-07 | PT-SIO2-WP |
| P3846-08 | PT-HG-WP |

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 : N. N. Pandya

**APPROVED**

*By Nimisha Pandya, QA/QC Supervisor at 9:31 am, Dec 05, 2024*

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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# CASE NARRATIVE

**Chemtech Consulting Group**
**Project Name: NJ Waste Water PT**
**Project # N/A**
**Chemtech Project # P3846**
**Test Name: Metals Group3,Metals Group4,Metals Group5**

**A. Number of Samples and Date of Receipt:**
8 Water samples were received on 09/05/2024.

**B. Parameters:**
According to the Chain of Custody document, the following analyses were requested: Hardness, Calcium, Hardness, Total, Mercury, Metals Group3, Metals Group4, Metals Group5 and Silica. This data package contains results for Metals Group3,Metals Group4,Metals Group5.

**C. Analytical Techniques:**
The analysis and digestion of Metals Group3,Metals Group4,Metals Group5 was based on 200.8.

**D. QA/ QC Samples:**
The Holding Times were met for all analysis.
Sample PT-TM1-WP was diluted due to high concentrations for Nickel, Vanadium &
Sample PT-SNTI-WP was diluted due to high concentrations for Tin.
The Blank Spike met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

**E. Additional Comments:**
Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.
Internal standard 45Sc(1) and (2) was out Side qc limit for samples P3846-06 in Original so for this sample affected parameters are reported from 2X Dilution.

---

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 N. N. Pandya

**APPROVED**
*By Nimisha Pandya, QA/QC Supervisor at 9:31 am, Dec 05, 2024*

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

CHEMTECH PROJECT NUMBER: P3846 MATRIX: Water

METHOD: 200.7,200.8

| | | NA | NO | YES |
|---|---|---|---|---|
| 1. | Calibration Summary met criteria. | | | ✓ |
| 2. | ICP Interference Check Sample Results Summary Submitted. | | | ✓ |
| 3. | Laboratory Control Sample Summary (if applicable) Submitted. | | | ✓ |
| 4. | Blank Contamination - If yes, list compounds and concentrations in each blank: | | ✓ | |
| 5. | Digestion Holding Time Met<br>If not met, list number of days exceeded for each sample: | | | ✓ |
| 6. | Analysis Holding Time Met<br>If not met, list those compounds and their recoveries which fall outside the acceptable range. | | | ✓ |

ADDITIONAL COMMENTS:

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.

Internal standard 45Sc(1) and (2) was out Side qc limit for samples P3846-06 in Original so for this sample affected parameters are reported from 2X Dilution.

S. M. Jodhani
QA REVIEW

**REVIEWED**
Date
*By Sohil Jodhani, QA/QC Director at 9:09 am, Dec 05, 2024*

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## APPENDIX A

## QA REVIEW GENERAL DOCUMENTATION

**Project #:** P3846

| | 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:** 11/29/2024

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P3846 | **OrderDate:** | 9/5/2024 2:21:00 PM |
| **Client:** | Chemtech Consulting Group | **Project:** | NJ Waste Water PT |
| **Contact:** | QA Officer | **Location:** | QA Office |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P3846-01** | **PT-TM1-WP** | **Water** | | | **09/03/24** | | | **09/05/24** |
| | | | Metals Group3 | 200.7 | | 10/17/24 | 10/17/24 | |
| **P3846-02** | **PT-TM1-WP** | **Water** | | | **09/03/24** | | | **09/05/24** |
| | | | Metals Group3 | 200.8 | | 10/17/24 | 10/17/24 | |
| **P3846-03** | **PT-SNTI-WP** | **Water** | | | **09/03/24** | | | **09/05/24** |
| | | | Metals Group4 | 200.7 | | 10/17/24 | 10/17/24 | |
| **P3846-04** | **PT-SNTI-WP** | **Water** | | | **09/03/24** | | | **09/05/24** |
| | | | Metals Group4 | 200.8 | | 10/17/24 | 10/17/24 | |
| **P3846-05** | **PT-MIN2-WP** | **Water** | | | **09/03/24** | | | **09/05/24** |
| | | | Hardness, Calcium | SM2340B | | 10/17/24 | 10/17/24 | |
| | | | Hardness, Calcium | SM2340B | | 10/17/24 | 10/18/24 | |
| | | | Metals Group5 | 200.7 | | 10/17/24 | 10/17/24 | |
| | | | Metals Group5 | 200.7 | | 10/17/24 | 10/18/24 | |
| **P3846-06** | **PT-MIN2-WP** | **Water** | | | **09/03/24** | | | **09/05/24** |
| | | | Metals Group5 | 200.8 | | 10/17/24 | 10/17/24 | |
| **P3846-07** | **PT-SIO2-WP** | **Water** | | | **09/03/24** | | | **09/05/24** |
| | | | Silica | 200.7 | | 10/17/24 | 10/17/24 | |
| **P3846-08** | **PT-HG-WP** | **Water** | | | **09/03/24** | | | **09/05/24** |
| | | | Mercury | 245.1 | | 10/08/24 | 10/08/24 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P3846 **Order ID:** P3846

**Client:** Chemtech Consulting Group **Project ID:** NJ Waste Water PT

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID : PT-TM1-WP** | | | | | | | | |
| P3846-02 | PT-TM1-WP | Water | Aluminum | 2610 | | 3.80 | 20.0 | ug/L |
| P3846-02 | PT-TM1-WP | Water | Antimony | 806 | | 0.15 | 2.00 | ug/L |
| P3846-02 | PT-TM1-WP | Water | Arsenic | 550 | | 0.16 | 1.00 | ug/L |
| P3846-02 | PT-TM1-WP | Water | Barium | 608 | | 0.35 | 10.0 | ug/L |
| P3846-02 | PT-TM1-WP | Water | Beryllium | 303 | | 0.21 | 1.00 | ug/L |
| P3846-02 | PT-TM1-WP | Water | Cadmium | 409 | | 0.21 | 1.00 | ug/L |
| P3846-02 | PT-TM1-WP | Water | Calcium | 88.1 | J | 60.1 | 500 | ug/L |
| P3846-02 | PT-TM1-WP | Water | Chromium | 574 | | 0.24 | 2.00 | ug/L |
| P3846-02 | PT-TM1-WP | Water | Cobalt | 185 | | 0.060 | 1.00 | ug/L |
| P3846-02 | PT-TM1-WP | Water | Copper | 672 | | 0.79 | 2.00 | ug/L |
| P3846-02 | PT-TM1-WP | Water | Iron | 1400 | | 24.8 | 50.0 | ug/L |
| P3846-02 | PT-TM1-WP | Water | Lead | 946 | | 0.27 | 1.00 | ug/L |
| P3846-02 | PT-TM1-WP | Water | Manganese | 642 | | 0.29 | 1.00 | ug/L |
| P3846-02 | PT-TM1-WP | Water | Nickel | 1630 | D | 0.32 | 2.00 | ug/L |
| P3846-02 | PT-TM1-WP | Water | Molybdenum | 537 | | 0.93 | 5.00 | ug/L |
| P3846-02 | PT-TM1-WP | Water | Selenium | 497 | | 1.95 | 5.00 | ug/L |
| P3846-02 | PT-TM1-WP | Water | Silver | 603 | | 0.42 | 1.00 | ug/L |
| P3846-02 | PT-TM1-WP | Water | Sodium | 101 | J | 71.7 | 500 | ug/L |
| P3846-02 | PT-TM1-WP | Water | Thallium | 418 | | 0.11 | 1.00 | ug/L |
| P3846-02 | PT-TM1-WP | Water | Vanadium | 1050 | D | 0.22 | 10.0 | ug/L |
| P3846-02 | PT-TM1-WP | Water | Zinc | 624 | | 0.58 | 5.00 | ug/L |
| **Client ID : PT-SNTI-WP** | | | | | | | | |
| P3846-04 | PT-SNTI-WP | Water | Tin | 1310 | D | 0.70 | 10.0 | ug/L |
| P3846-04 | PT-SNTI-WP | Water | Titanium | 97.9 | | 0.19 | 5.00 | ug/L |
| **Client ID : PT-MIN2-WP** | | | | | | | | |
| P3846-06 | PT-MIN2-WP | Water | Calcium | 66400 | D | 120 | 1000 | ug/L |
| P3846-06 | PT-MIN2-WP | Water | Magnesium | 26900 | D | 55.0 | 1000 | ug/L |
| P3846-06 | PT-MIN2-WP | Water | Potassium | 21200 | D | 80.6 | 1000 | ug/L |
| P3846-06 | PT-MIN2-WP | Water | Sodium | 82800 | D | 143 | 1000 | ug/L |

# SAMPLE DATA

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Chemtech Consulting Group | Date Collected: | 09/03/24 |
| Project: | NJ Waste Water PT | Date Received: | 09/05/24 |
| Client Sample ID: | PT-TM1-WP | SDG No.: | P3846 |
| Lab Sample ID: | P3846-02 | Matrix: | Water |
| Level (low/med): | low | % Solid: | 0 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 2610 | | 1 | 3.80 | 20.0 | ug/L | 10/17/24 11:00 | 10/17/24 18:35 | 200.8 | |
| 7440-36-0 | Antimony | 806 | | 1 | 0.15 | 2.00 | ug/L | 10/17/24 11:00 | 10/17/24 18:35 | 200.8 | |
| 7440-38-2 | Arsenic | 550 | | 1 | 0.16 | 1.00 | ug/L | 10/17/24 11:00 | 10/17/24 18:35 | 200.8 | |
| 7440-39-3 | Barium | 608 | | 1 | 0.35 | 10.0 | ug/L | 10/17/24 11:00 | 10/17/24 18:35 | 200.8 | |
| 7440-41-7 | Beryllium | 303 | | 1 | 0.21 | 1.00 | ug/L | 10/17/24 11:00 | 10/17/24 18:35 | 200.8 | |
| 7440-43-9 | Cadmium | 409 | | 1 | 0.21 | 1.00 | ug/L | 10/17/24 11:00 | 10/17/24 18:35 | 200.8 | |
| 7440-70-2 | Calcium | 88.1 | J | 1 | 60.1 | 500 | ug/L | 10/17/24 11:00 | 10/17/24 18:35 | 200.8 | |
| 7440-47-3 | Chromium | 574 | | 1 | 0.24 | 2.00 | ug/L | 10/17/24 11:00 | 10/17/24 18:35 | 200.8 | |
| 7440-48-4 | Cobalt | 185 | | 1 | 0.060 | 1.00 | ug/L | 10/17/24 11:00 | 10/17/24 18:35 | 200.8 | |
| 7440-50-8 | Copper | 672 | | 1 | 0.79 | 2.00 | ug/L | 10/17/24 11:00 | 10/17/24 18:35 | 200.8 | |
| 7439-89-6 | Iron | 1400 | | 1 | 24.8 | 50.0 | ug/L | 10/17/24 11:00 | 10/17/24 18:35 | 200.8 | |
| 7439-92-1 | Lead | 946 | | 1 | 0.27 | 1.00 | ug/L | 10/17/24 11:00 | 10/17/24 18:35 | 200.8 | |
| 7439-95-4 | Magnesium | 27.5 | U | 1 | 27.5 | 500 | ug/L | 10/17/24 11:00 | 10/17/24 18:35 | 200.8 | |
| 7439-96-5 | Manganese | 642 | | 1 | 0.29 | 1.00 | ug/L | 10/17/24 11:00 | 10/17/24 18:35 | 200.8 | |
| 7439-98-7 | Molybdenum | 537 | | 1 | 0.93 | 5.00 | ug/L | 10/17/24 11:00 | 10/17/24 18:35 | 200.8 | |
| 7440-02-0 | Nickel | 1630 | D | 2 | 0.32 | 2.00 | ug/L | 10/17/24 11:00 | 10/17/24 19:01 | 200.8 | |
| 7440-09-7 | Potassium | 40.3 | U | 1 | 40.3 | 500 | ug/L | 10/17/24 11:00 | 10/17/24 18:35 | 200.8 | |
| 7782-49-2 | Selenium | 497 | | 1 | 1.95 | 5.00 | ug/L | 10/17/24 11:00 | 10/17/24 18:35 | 200.8 | |
| 7440-22-4 | Silver | 603 | | 1 | 0.42 | 1.00 | ug/L | 10/17/24 11:00 | 10/17/24 18:35 | 200.8 | |
| 7440-23-5 | Sodium | 101 | J | 1 | 71.7 | 500 | ug/L | 10/17/24 11:00 | 10/17/24 18:35 | 200.8 | |
| 7440-28-0 | Thallium | 418 | | 1 | 0.11 | 1.00 | ug/L | 10/17/24 11:00 | 10/17/24 18:35 | 200.8 | |
| 7440-62-2 | Vanadium | 1050 | D | 2 | 0.22 | 10.0 | ug/L | 10/17/24 11:00 | 10/17/24 19:01 | 200.8 | |
| 7440-66-6 | Zinc | 624 | | 1 | 0.58 | 5.00 | ug/L | 10/17/24 11:00 | 10/17/24 18:35 | 200.8 | |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Colorless | Clarity Before: | Clear | Texture: | |
| Color After: | Colorless | Clarity After: | Clear | Artifacts: | |
| Comments: | Metals Group3 | | | | |

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: | Chemtech Consulting Group | Date Collected: | 09/03/24 |
| Project: | NJ Waste Water PT | Date Received: | 09/05/24 |
| Client Sample ID: | PT-SNTI-WP | SDG No.: | P3846 |
| Lab Sample ID: | P3846-04 | Matrix: | Water |
| Level (low/med): | low | % Solid: | 0 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-31-5 | Tin | 1310 | D | 2 | 0.70 | 10.0 | ug/L | 10/17/24 11:00 | 10/17/24 19:04 | 200.8 | |
| 7440-32-6 | Titanium | 97.9 | | 1 | 0.19 | 5.00 | ug/L | 10/17/24 11:00 | 10/17/24 18:38 | 200.8 | |

| | | | | | |
|---|---|---|---|---|---|
| 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: | Chemtech Consulting Group | Date Collected: | 09/03/24 |
| Project: | NJ Waste Water PT | Date Received: | 09/05/24 |
| Client Sample ID: | PT-MIN2-WP | SDG No.: | P3846 |
| Lab Sample ID: | P3846-06 | Matrix: | Water |
| Level (low/med): | low | % Solid: | 0 |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. | Prep Met. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7440-70-2 | Calcium | 66400 | D | 2 | 120 | 1000 | ug/L | 10/17/24 11:00 | 10/17/24 19:08 | 200.8 | |
| 7439-95-4 | Magnesium | 26900 | D | 2 | 55.0 | 1000 | ug/L | 10/17/24 11:00 | 10/17/24 19:08 | 200.8 | |
| 7440-09-7 | Potassium | 21200 | D | 2 | 80.6 | 1000 | ug/L | 10/17/24 11:00 | 10/17/24 19:08 | 200.8 | |
| 7440-23-5 | Sodium | 82800 | D | 2 | 143 | 1000 | ug/L | 10/17/24 11:00 | 10/17/24 19:08 | 200.8 | |

| | | | | | |
|---|---|---|---|---|---|
| Color Before: | Colorless | Clarity Before: | Clear | Texture: | |
| Color After: | Colorless | Clarity After: | Clear | Artifacts: | |
| Comments: | Metals Group5 | | | | |

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:** Chemtech Consulting Group **SDG No.:** P3846

**Contract:** CHEM02 **Lab Code:** CHEM **Case No.:** P3846 **SAS No.:** P3846

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** PLASMA-PURE

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICV01 | Aluminum | 512 | 500 | 102 | 90 - 110 | P | 10/17/2024 | 17:03 | LB132993 |
| | Antimony | 198 | 200 | 99 | 90 - 110 | P | 10/17/2024 | 17:03 | LB132993 |
| | Arsenic | 199 | 200 | 99 | 90 - 110 | P | 10/17/2024 | 17:03 | LB132993 |
| | Barium | 95.9 | 100 | 96 | 90 - 110 | P | 10/17/2024 | 17:03 | LB132993 |
| | Beryllium | 101 | 100 | 101 | 90 - 110 | P | 10/17/2024 | 17:03 | LB132993 |
| | Cadmium | 110 | 100 | 110 | 90 - 110 | P | 10/17/2024 | 17:03 | LB132993 |
| | Calcium | 2160 | 2000 | 108 | 90 - 110 | P | 10/17/2024 | 17:03 | LB132993 |
| | Chromium | 103 | 100 | 103 | 90 - 110 | P | 10/17/2024 | 17:03 | LB132993 |
| | Cobalt | 102 | 100 | 102 | 90 - 110 | P | 10/17/2024 | 17:03 | LB132993 |
| | Copper | 96.9 | 100 | 97 | 90 - 110 | P | 10/17/2024 | 17:03 | LB132993 |
| | Iron | 2170 | 2000 | 108 | 90 - 110 | P | 10/17/2024 | 17:03 | LB132993 |
| | Lead | 188 | 200 | 94 | 90 - 110 | P | 10/17/2024 | 17:03 | LB132993 |
| | Magnesium | 1220 | 1200 | 102 | 90 - 110 | P | 10/17/2024 | 17:03 | LB132993 |
| | Manganese | 101 | 100 | 101 | 90 - 110 | P | 10/17/2024 | 17:03 | LB132993 |
| | Molybdenum | 4950 | 5000 | 99 | 90 - 110 | P | 10/17/2024 | 17:03 | LB132993 |
| | Nickel | 104 | 110 | 95 | 90 - 110 | P | 10/17/2024 | 17:03 | LB132993 |
| | Potassium | 2130 | 2000 | 106 | 90 - 110 | P | 10/17/2024 | 17:03 | LB132993 |
| | Selenium | 206 | 200 | 103 | 90 - 110 | P | 10/17/2024 | 17:03 | LB132993 |
| | Silver | 51.2 | 50.0 | 102 | 90 - 110 | P | 10/17/2024 | 17:03 | LB132993 |
| | Sodium | 2140 | 2000 | 107 | 90 - 110 | P | 10/17/2024 | 17:03 | LB132993 |
| | Strontium | 508 | 500 | 102 | 90 - 110 | P | 10/17/2024 | 17:03 | LB132993 |
| | Thallium | 212 | 210 | 101 | 90 - 110 | P | 10/17/2024 | 17:03 | LB132993 |
| | Tin | 550 | 500 | 110 | 90 - 110 | P | 10/17/2024 | 17:03 | LB132993 |
| | Titanium | 4950 | 5000 | 99 | 90 - 110 | P | 10/17/2024 | 17:03 | LB132993 |
| | Vanadium | 95.9 | 100 | 96 | 90 - 110 | P | 10/17/2024 | 17:03 | LB132993 |
| | Zinc | 198 | 200 | 99 | 90 - 110 | P | 10/17/2024 | 17:03 | LB132993 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Chemtech Consulting Group **SDG No.:** P3846

**Contract:** CHEM02 **Lab Code:** CHEM **Case No.:** P3846 **SAS No.:** P3846

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** PLASMA-PURE

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| LLICV | Aluminum | 19.6 | 20.0 | 98 | 70 - 130 | P | 10/17/2024 | 17:09 | LB132993 |
| | Antimony | 2.11 | 2.0 | 106 | 70 - 130 | P | 10/17/2024 | 17:09 | LB132993 |
| | Arsenic | 1.03 | 1.0 | 103 | 70 - 130 | P | 10/17/2024 | 17:09 | LB132993 |
| | Barium | 9.51 | 10.0 | 95 | 70 - 130 | P | 10/17/2024 | 17:09 | LB132993 |
| | Beryllium | 1.10 | 1.0 | 110 | 70 - 130 | P | 10/17/2024 | 17:09 | LB132993 |
| | Cadmium | 1.03 | 1.0 | 103 | 70 - 130 | P | 10/17/2024 | 17:09 | LB132993 |
| | Calcium | 541 | 500 | 108 | 70 - 130 | P | 10/17/2024 | 17:09 | LB132993 |
| | Chromium | 2.01 | 2.0 | 100 | 70 - 130 | P | 10/17/2024 | 17:09 | LB132993 |
| | Cobalt | 1.06 | 1.0 | 106 | 70 - 130 | P | 10/17/2024 | 17:09 | LB132993 |
| | Copper | 1.93 | 2.0 | 96 | 70 - 130 | P | 10/17/2024 | 17:09 | LB132993 |
| | Iron | 54.5 | 50.0 | 109 | 70 - 130 | P | 10/17/2024 | 17:09 | LB132993 |
| | Lead | 0.94 | 1.0 | 94 | 70 - 130 | P | 10/17/2024 | 17:09 | LB132993 |
| | Magnesium | 535 | 500 | 107 | 70 - 130 | P | 10/17/2024 | 17:09 | LB132993 |
| | Manganese | 1.06 | 1.0 | 106 | 70 - 130 | P | 10/17/2024 | 17:09 | LB132993 |
| | Molybdenum | 5.10 | 5.0 | 102 | 70 - 130 | P | 10/17/2024 | 17:09 | LB132993 |
| | Nickel | 1.00 | 1.0 | 100 | 70 - 130 | P | 10/17/2024 | 17:09 | LB132993 |
| | Potassium | 514 | 500 | 103 | 70 - 130 | P | 10/17/2024 | 17:09 | LB132993 |
| | Selenium | 5.59 | 5.0 | 112 | 70 - 130 | P | 10/17/2024 | 17:09 | LB132993 |
| | Silver | 1.01 | 1.0 | 101 | 70 - 130 | P | 10/17/2024 | 17:09 | LB132993 |
| | Sodium | 551 | 500 | 110 | 70 - 130 | P | 10/17/2024 | 17:09 | LB132993 |
| | Strontium | 1.05 | 1.0 | 105 | 70 - 130 | P | 10/17/2024 | 17:09 | LB132993 |
| | Thallium | 0.89 | 1.0 | 89 | 70 - 130 | P | 10/17/2024 | 17:09 | LB132993 |
| | Tin | 4.90 | 5.0 | 98 | 70 - 130 | P | 10/17/2024 | 17:09 | LB132993 |
| | Titanium | 5.54 | 5.0 | 111 | 70 - 130 | P | 10/17/2024 | 17:09 | LB132993 |
| | Vanadium | 4.82 | 5.0 | 96 | 70 - 130 | P | 10/17/2024 | 17:09 | LB132993 |
| | Zinc | 5.27 | 5.0 | 105 | 70 - 130 | P | 10/17/2024 | 17:09 | LB132993 |

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# Metals

## - 2a -
## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Chemtech Consulting Group **SDG No.:** P3846

**Contract:** CHEM02 **Lab Code:** CHEM **Case No.:** P3846 **SAS No.:** P3846

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** PLASMA-PURE

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV01 | Aluminum | 49400 | 50000 | 99 | 90 - 110 | P | 10/17/2024 | 18:04 | LB132993 |
| | Antimony | 490 | 500 | 98 | 90 - 110 | P | 10/17/2024 | 18:04 | LB132993 |
| | Arsenic | 456 | 500 | 91 | 90 - 110 | P | 10/17/2024 | 18:04 | LB132993 |
| | Barium | 2430 | 2500 | 97 | 90 - 110 | P | 10/17/2024 | 18:04 | LB132993 |
| | Beryllium | 485 | 500 | 97 | 90 - 110 | P | 10/17/2024 | 18:04 | LB132993 |
| | Cadmium | 474 | 500 | 95 | 90 - 110 | P | 10/17/2024 | 18:04 | LB132993 |
| | Calcium | 243000 | 250000 | 97 | 90 - 110 | P | 10/17/2024 | 18:04 | LB132993 |
| | Chromium | 472 | 500 | 94 | 90 - 110 | P | 10/17/2024 | 18:04 | LB132993 |
| | Cobalt | 501 | 500 | 100 | 90 - 110 | P | 10/17/2024 | 18:04 | LB132993 |
| | Copper | 4900 | 5000 | 98 | 90 - 110 | P | 10/17/2024 | 18:04 | LB132993 |
| | Iron | 127000 | 125000 | 101 | 90 - 110 | P | 10/17/2024 | 18:04 | LB132993 |
| | Lead | 2470 | 2500 | 99 | 90 - 110 | P | 10/17/2024 | 18:04 | LB132993 |
| | Magnesium | 243000 | 250000 | 97 | 90 - 110 | P | 10/17/2024 | 18:04 | LB132993 |
| | Manganese | 4590 | 5000 | 92 | 90 - 110 | P | 10/17/2024 | 18:04 | LB132993 |
| | Molybdenum | 5280 | 5500 | 96 | 90 - 110 | P | 10/17/2024 | 18:04 | LB132993 |
| | Nickel | 493 | 500 | 99 | 90 - 110 | P | 10/17/2024 | 18:04 | LB132993 |
| | Potassium | 123000 | 125000 | 98 | 90 - 110 | P | 10/17/2024 | 18:04 | LB132993 |
| | Selenium | 472 | 500 | 94 | 90 - 110 | P | 10/17/2024 | 18:04 | LB132993 |
| | Silver | 475 | 500 | 95 | 90 - 110 | P | 10/17/2024 | 18:04 | LB132993 |
| | Sodium | 250000 | 250000 | 100 | 90 - 110 | P | 10/17/2024 | 18:04 | LB132993 |
| | Strontium | 12100 | 12500 | 97 | 90 - 110 | P | 10/17/2024 | 18:04 | LB132993 |
| | Thallium | 495 | 500 | 99 | 90 - 110 | P | 10/17/2024 | 18:04 | LB132993 |
| | Tin | 502 | 500 | 100 | 90 - 110 | P | 10/17/2024 | 18:04 | LB132993 |
| | Titanium | 5290 | 5500 | 96 | 90 - 110 | P | 10/17/2024 | 18:04 | LB132993 |
| | Vanadium | 466 | 500 | 93 | 90 - 110 | P | 10/17/2024 | 18:04 | LB132993 |
| | Zinc | 4840 | 5000 | 97 | 90 - 110 | P | 10/17/2024 | 18:04 | LB132993 |
| CCV02 | Aluminum | 48200 | 50000 | 96 | 90 - 110 | P | 10/17/2024 | 18:55 | LB132993 |
| | Antimony | 480 | 500 | 96 | 90 - 110 | P | 10/17/2024 | 18:55 | LB132993 |
| | Arsenic | 453 | 500 | 91 | 90 - 110 | P | 10/17/2024 | 18:55 | LB132993 |
| | Barium | 2400 | 2500 | 96 | 90 - 110 | P | 10/17/2024 | 18:55 | LB132993 |
| | Beryllium | 483 | 500 | 97 | 90 - 110 | P | 10/17/2024 | 18:55 | LB132993 |
| | Cadmium | 464 | 500 | 93 | 90 - 110 | P | 10/17/2024 | 18:55 | LB132993 |
| | Calcium | 242000 | 250000 | 97 | 90 - 110 | P | 10/17/2024 | 18:55 | LB132993 |
| | Chromium | 464 | 500 | 93 | 90 - 110 | P | 10/17/2024 | 18:55 | LB132993 |

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# Metals

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## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Chemtech Consulting Group **SDG No.:** P3846

**Contract:** CHEM02 **Lab Code:** CHEM **Case No.:** P3846 **SAS No.:** P3846

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** PLASMA-PURE

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV02 | Cobalt | 493 | 500 | 99 | 90 - 110 | P | 10/17/2024 | 18:55 | LB132993 |
| | Copper | 4840 | 5000 | 97 | 90 - 110 | P | 10/17/2024 | 18:55 | LB132993 |
| | Iron | 126000 | 125000 | 100 | 90 - 110 | P | 10/17/2024 | 18:55 | LB132993 |
| | Lead | 2440 | 2500 | 98 | 90 - 110 | P | 10/17/2024 | 18:55 | LB132993 |
| | Magnesium | 239000 | 250000 | 96 | 90 - 110 | P | 10/17/2024 | 18:55 | LB132993 |
| | Manganese | 4550 | 5000 | 91 | 90 - 110 | P | 10/17/2024 | 18:55 | LB132993 |
| | Molybdenum | 5250 | 5500 | 95 | 90 - 110 | P | 10/17/2024 | 18:55 | LB132993 |
| | Nickel | 486 | 500 | 97 | 90 - 110 | P | 10/17/2024 | 18:55 | LB132993 |
| | Potassium | 121000 | 125000 | 97 | 90 - 110 | P | 10/17/2024 | 18:55 | LB132993 |
| | Selenium | 460 | 500 | 92 | 90 - 110 | P | 10/17/2024 | 18:55 | LB132993 |
| | Silver | 464 | 500 | 93 | 90 - 110 | P | 10/17/2024 | 18:55 | LB132993 |
| | Sodium | 243000 | 250000 | 97 | 90 - 110 | P | 10/17/2024 | 18:55 | LB132993 |
| | Strontium | 11900 | 12500 | 96 | 90 - 110 | P | 10/17/2024 | 18:55 | LB132993 |
| | Thallium | 492 | 500 | 98 | 90 - 110 | P | 10/17/2024 | 18:55 | LB132993 |
| | Tin | 495 | 500 | 99 | 90 - 110 | P | 10/17/2024 | 18:55 | LB132993 |
| | Titanium | 5320 | 5500 | 97 | 90 - 110 | P | 10/17/2024 | 18:55 | LB132993 |
| | Vanadium | 456 | 500 | 91 | 90 - 110 | P | 10/17/2024 | 18:55 | LB132993 |
| | Zinc | 4770 | 5000 | 95 | 90 - 110 | P | 10/17/2024 | 18:55 | LB132993 |
| CCV03 | Aluminum | 49300 | 50000 | 99 | 90 - 110 | P | 10/17/2024 | 19:29 | LB132993 |
| | Antimony | 494 | 500 | 99 | 90 - 110 | P | 10/17/2024 | 19:29 | LB132993 |
| | Arsenic | 460 | 500 | 92 | 90 - 110 | P | 10/17/2024 | 19:29 | LB132993 |
| | Barium | 2480 | 2500 | 99 | 90 - 110 | P | 10/17/2024 | 19:29 | LB132993 |
| | Beryllium | 493 | 500 | 99 | 90 - 110 | P | 10/17/2024 | 19:29 | LB132993 |
| | Cadmium | 475 | 500 | 95 | 90 - 110 | P | 10/17/2024 | 19:29 | LB132993 |
| | Calcium | 251000 | 250000 | 100 | 90 - 110 | P | 10/17/2024 | 19:29 | LB132993 |
| | Chromium | 475 | 500 | 95 | 90 - 110 | P | 10/17/2024 | 19:29 | LB132993 |
| | Cobalt | 499 | 500 | 100 | 90 - 110 | P | 10/17/2024 | 19:29 | LB132993 |
| | Copper | 4900 | 5000 | 98 | 90 - 110 | P | 10/17/2024 | 19:29 | LB132993 |
| | Iron | 128000 | 125000 | 102 | 90 - 110 | P | 10/17/2024 | 19:29 | LB132993 |
| | Lead | 2520 | 2500 | 101 | 90 - 110 | P | 10/17/2024 | 19:29 | LB132993 |
| | Magnesium | 243000 | 250000 | 97 | 90 - 110 | P | 10/17/2024 | 19:29 | LB132993 |
| | Manganese | 4650 | 5000 | 93 | 90 - 110 | P | 10/17/2024 | 19:29 | LB132993 |
| | Molybdenum | 5460 | 5500 | 99 | 90 - 110 | P | 10/17/2024 | 19:29 | LB132993 |
| | Nickel | 490 | 500 | 98 | 90 - 110 | P | 10/17/2024 | 19:29 | LB132993 |

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# Metals

## - 2a -

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

**Client:** Chemtech Consulting Group **SDG No.:** P3846

**Contract:** CHEM02 **Lab Code:** CHEM **Case No.:** P3846 **SAS No.:** P3846

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** PLASMA-PURE

| Sample ID | Analyte | Result ug/L | True Value | % Recovery | Acceptance Window (%R) | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| CCV03 | Potassium | 125000 | 125000 | 100 | 90 - 110 | P | 10/17/2024 | 19:29 | LB132993 |
| | Selenium | 473 | 500 | 95 | 90 - 110 | P | 10/17/2024 | 19:29 | LB132993 |
| | Silver | 479 | 500 | 96 | 90 - 110 | P | 10/17/2024 | 19:29 | LB132993 |
| | Sodium | 249000 | 250000 | 100 | 90 - 110 | P | 10/17/2024 | 19:29 | LB132993 |
| | Strontium | 12400 | 12500 | 99 | 90 - 110 | P | 10/17/2024 | 19:29 | LB132993 |
| | Thallium | 505 | 500 | 101 | 90 - 110 | P | 10/17/2024 | 19:29 | LB132993 |
| | Tin | 495 | 500 | 99 | 90 - 110 | P | 10/17/2024 | 19:29 | LB132993 |
| | Titanium | 5410 | 5500 | 98 | 90 - 110 | P | 10/17/2024 | 19:29 | LB132993 |
| | Vanadium | 469 | 500 | 94 | 90 - 110 | P | 10/17/2024 | 19:29 | LB132993 |
| | Zinc | 4800 | 5000 | 96 | 90 - 110 | P | 10/17/2024 | 19:29 | LB132993 |

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# Metals

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

**Client:** Chemtech Consulting Group **SDG No.:** P3846

**Contract:** CHEM02 **Lab Code:** CHEM **Case No.:** P3846 **SAS No.:** P3846

**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 |
|---|---|---|---|---|---|---|---|---|---|
| CRI | Aluminum | 19.1 | 20.0 | 96 | 50 - 150 | P | 10/17/2024 | 18:11 | LB132993 |
| | Antimony | 2.14 | 2.0 | 107 | 70 - 130 | P | 10/17/2024 | 18:11 | LB132993 |
| | Arsenic | 1.09 | 1.0 | 109 | 70 - 130 | P | 10/17/2024 | 18:11 | LB132993 |
| | Barium | 9.42 | 10.0 | 94 | 70 - 130 | P | 10/17/2024 | 18:11 | LB132993 |
| | Beryllium | 1.29 | 1.0 | 129 | 70 - 130 | P | 10/17/2024 | 18:11 | LB132993 |
| | Cadmium | 1.07 | 1.0 | 107 | 70 - 130 | P | 10/17/2024 | 18:11 | LB132993 |
| | Calcium | 548 | 500 | 110 | 50 - 150 | P | 10/17/2024 | 18:11 | LB132993 |
| | Chromium | 2.02 | 2.0 | 101 | 70 - 130 | P | 10/17/2024 | 18:11 | LB132993 |
| | Cobalt | 1.06 | 1.0 | 106 | 50 - 150 | P | 10/17/2024 | 18:11 | LB132993 |
| | Copper | 2.01 | 2.0 | 100 | 70 - 130 | P | 10/17/2024 | 18:11 | LB132993 |
| | Iron | 59.3 | 50.0 | 118 | 50 - 150 | P | 10/17/2024 | 18:11 | LB132993 |
| | Lead | 1.00 | 1.0 | 100 | 70 - 130 | P | 10/17/2024 | 18:11 | LB132993 |
| | Magnesium | 530 | 500 | 106 | 50 - 150 | P | 10/17/2024 | 18:11 | LB132993 |
| | Manganese | 1.10 | 1.0 | 110 | 50 - 150 | P | 10/17/2024 | 18:11 | LB132993 |
| | Molybdenum | 5.07 | 5.0 | 101 | 70 - 130 | P | 10/17/2024 | 18:11 | LB132993 |
| | Nickel | 1.02 | 1.0 | 102 | 70 - 130 | P | 10/17/2024 | 18:11 | LB132993 |
| | Potassium | 523 | 500 | 104 | 50 - 150 | P | 10/17/2024 | 18:11 | LB132993 |
| | Selenium | 5.82 | 5.0 | 116 | 70 - 130 | P | 10/17/2024 | 18:11 | LB132993 |
| | Silver | 1.02 | 1.0 | 102 | 70 - 130 | P | 10/17/2024 | 18:11 | LB132993 |
| | Sodium | 584 | 500 | 117 | 50 - 150 | P | 10/17/2024 | 18:11 | LB132993 |
| | Strontium | 1.08 | 1.0 | 108 | 70 - 130 | P | 10/17/2024 | 18:11 | LB132993 |
| | Thallium | 0.91 | 1.0 | 91 | 70 - 130 | P | 10/17/2024 | 18:11 | LB132993 |
| | Tin | 4.92 | 5.0 | 98 | 70 - 130 | P | 10/17/2024 | 18:11 | LB132993 |
| | Titanium | 5.31 | 5.0 | 106 | 70 - 130 | P | 10/17/2024 | 18:11 | LB132993 |
| | Vanadium | 4.73 | 5.0 | 95 | 70 - 130 | P | 10/17/2024 | 18:11 | LB132993 |
| | Zinc | 5.19 | 5.0 | 104 | 50 - 150 | P | 10/17/2024 | 18:11 | LB132993 |

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# Metals

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## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Chemtech Consulting Group **SDG No.:** P3846

**Contract:** CHEM02 **Lab Code:** CHEM **Case No.:** P3846 **SAS No.:** P3846

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICB01 | Aluminum | 20.0 | +/-20.0 | U | 20.0 | P | 10/17/2024 | 17:17 | LB132993 |
| | Antimony | 2.00 | +/-2.00 | U | 2.00 | P | 10/17/2024 | 17:17 | LB132993 |
| | Arsenic | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 17:17 | LB132993 |
| | Barium | 10.0 | +/-10.0 | U | 10.0 | P | 10/17/2024 | 17:17 | LB132993 |
| | Beryllium | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 17:17 | LB132993 |
| | Cadmium | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 17:17 | LB132993 |
| | Calcium | 500 | +/-500 | U | 500 | P | 10/17/2024 | 17:17 | LB132993 |
| | Chromium | 2.00 | +/-2.00 | U | 2.00 | P | 10/17/2024 | 17:17 | LB132993 |
| | Cobalt | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 17:17 | LB132993 |
| | Copper | 2.00 | +/-2.00 | U | 2.00 | P | 10/17/2024 | 17:17 | LB132993 |
| | Iron | 50.0 | +/-50.0 | U | 50.0 | P | 10/17/2024 | 17:17 | LB132993 |
| | Lead | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 17:17 | LB132993 |
| | Magnesium | 500 | +/-500 | U | 500 | P | 10/17/2024 | 17:17 | LB132993 |
| | Manganese | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 17:17 | LB132993 |
| | Nickel | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 17:17 | LB132993 |
| | Potassium | 500 | +/-500 | U | 500 | P | 10/17/2024 | 17:17 | LB132993 |
| | Tin | 5.00 | +/-5.00 | U | 5.00 | P | 10/17/2024 | 17:17 | LB132993 |
| | Selenium | 5.00 | +/-5.00 | U | 5.00 | P | 10/17/2024 | 17:17 | LB132993 |
| | Molybdenum | 5.00 | +/-5.00 | U | 5.00 | P | 10/17/2024 | 17:17 | LB132993 |
| | Silver | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 17:17 | LB132993 |
| | Sodium | 500 | +/-500 | U | 500 | P | 10/17/2024 | 17:17 | LB132993 |
| | Thallium | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 17:17 | LB132993 |
| | Vanadium | 5.00 | +/-5.00 | U | 5.00 | P | 10/17/2024 | 17:17 | LB132993 |
| | Zinc | 5.00 | +/-5.00 | U | 5.00 | P | 10/17/2024 | 17:17 | LB132993 |
| | Strontium | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 17:17 | LB132993 |
| | Titanium | 5.00 | +/-5.00 | U | 5.00 | P | 10/17/2024 | 17:17 | LB132993 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Chemtech Consulting Group **SDG No.:** P3846

**Contract:** CHEM02 **Lab Code:** CHEM **Case No.:** P3846 **SAS No.:** P3846

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB01** | Aluminum | 20.0 | +/-20.0 | U | 20.0 | P | 10/17/2024 | 18:07 | LB132993 |
| | Antimony | 0.42 | +/-2.00 | J | 2.00 | P | 10/17/2024 | 18:07 | LB132993 |
| | Arsenic | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 18:07 | LB132993 |
| | Barium | 10.0 | +/-10.0 | U | 10.0 | P | 10/17/2024 | 18:07 | LB132993 |
| | Beryllium | 0.47 | +/-1.00 | J | 1.00 | P | 10/17/2024 | 18:07 | LB132993 |
| | Cadmium | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 18:07 | LB132993 |
| | Calcium | 500 | +/-500 | U | 500 | P | 10/17/2024 | 18:07 | LB132993 |
| | Chromium | 2.00 | +/-2.00 | U | 2.00 | P | 10/17/2024 | 18:07 | LB132993 |
| | Cobalt | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 18:07 | LB132993 |
| | Copper | 2.00 | +/-2.00 | U | 2.00 | P | 10/17/2024 | 18:07 | LB132993 |
| | Iron | 50.0 | +/-50.0 | U | 50.0 | P | 10/17/2024 | 18:07 | LB132993 |
| | Lead | 0.42 | +/-1.00 | J | 1.00 | P | 10/17/2024 | 18:07 | LB132993 |
| | Magnesium | 500 | +/-500 | U | 500 | P | 10/17/2024 | 18:07 | LB132993 |
| | Manganese | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 18:07 | LB132993 |
| | Nickel | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 18:07 | LB132993 |
| | Potassium | 500 | +/-500 | U | 500 | P | 10/17/2024 | 18:07 | LB132993 |
| | Tin | 5.00 | +/-5.00 | U | 5.00 | P | 10/17/2024 | 18:07 | LB132993 |
| | Selenium | 5.00 | +/-5.00 | U | 5.00 | P | 10/17/2024 | 18:07 | LB132993 |
| | Molybdenum | 5.00 | +/-5.00 | U | 5.00 | P | 10/17/2024 | 18:07 | LB132993 |
| | Silver | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 18:07 | LB132993 |
| | Sodium | 97.7 | +/-500 | J | 500 | P | 10/17/2024 | 18:07 | LB132993 |
| | Thallium | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 18:07 | LB132993 |
| | Vanadium | 5.00 | +/-5.00 | U | 5.00 | P | 10/17/2024 | 18:07 | LB132993 |
| | Zinc | 5.00 | +/-5.00 | U | 5.00 | P | 10/17/2024 | 18:07 | LB132993 |
| | Strontium | 0.50 | +/-1.00 | J | 1.00 | P | 10/17/2024 | 18:07 | LB132993 |
| | Titanium | 0.40 | +/-5.00 | J | 5.00 | P | 10/17/2024 | 18:07 | LB132993 |
| **CCB02** | Aluminum | 20.0 | +/-20.0 | U | 20.0 | P | 10/17/2024 | 18:58 | LB132993 |
| | Antimony | 0.38 | +/-2.00 | J | 2.00 | P | 10/17/2024 | 18:58 | LB132993 |
| | Arsenic | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 18:58 | LB132993 |
| | Barium | 10.0 | +/-10.0 | U | 10.0 | P | 10/17/2024 | 18:58 | LB132993 |
| | Beryllium | 0.32 | +/-1.00 | J | 1.00 | P | 10/17/2024 | 18:58 | LB132993 |
| | Cadmium | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 18:58 | LB132993 |
| | Calcium | 500 | +/-500 | U | 500 | P | 10/17/2024 | 18:58 | LB132993 |
| | Chromium | 2.00 | +/-2.00 | U | 2.00 | P | 10/17/2024 | 18:58 | LB132993 |
| | Cobalt | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 18:58 | LB132993 |
| | Copper | 2.00 | +/-2.00 | U | 2.00 | P | 10/17/2024 | 18:58 | LB132993 |
| | Iron | 50.0 | +/-50.0 | U | 50.0 | P | 10/17/2024 | 18:58 | LB132993 |
| | Lead | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 18:58 | LB132993 |
| | Magnesium | 500 | +/-500 | U | 500 | P | 10/17/2024 | 18:58 | LB132993 |

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# Metals

## - 3a -

## INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** Chemtech Consulting Group **SDG No.:** P3846

**Contract:** CHEM02 **Lab Code:** CHEM **Case No.:** P3846 **SAS No.:** P3846

| Sample ID | Analyte | Result ug/L | Acceptance Limit | Conc Qual | CRQL | M | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| **CCB02** | Manganese | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 18:58 | LB132993 |
| | Nickel | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 18:58 | LB132993 |
| | Potassium | 500 | +/-500 | U | 500 | P | 10/17/2024 | 18:58 | LB132993 |
| | Tin | 5.00 | +/-5.00 | U | 5.00 | P | 10/17/2024 | 18:58 | LB132993 |
| | Molybdenum | 5.00 | +/-5.00 | U | 5.00 | P | 10/17/2024 | 18:58 | LB132993 |
| | Selenium | 5.00 | +/-5.00 | U | 5.00 | P | 10/17/2024 | 18:58 | LB132993 |
| | Silver | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 18:58 | LB132993 |
| | Sodium | 72.4 | +/-500 | J | 500 | P | 10/17/2024 | 18:58 | LB132993 |
| | Thallium | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 18:58 | LB132993 |
| | Vanadium | 5.00 | +/-5.00 | U | 5.00 | P | 10/17/2024 | 18:58 | LB132993 |
| | Zinc | 5.00 | +/-5.00 | U | 5.00 | P | 10/17/2024 | 18:58 | LB132993 |
| | Strontium | 0.46 | +/-1.00 | J | 1.00 | P | 10/17/2024 | 18:58 | LB132993 |
| | Titanium | 0.31 | +/-5.00 | J | 5.00 | P | 10/17/2024 | 18:58 | LB132993 |
| **CCB03** | Aluminum | 20.0 | +/-20.0 | U | 20.0 | P | 10/17/2024 | 19:35 | LB132993 |
| | Antimony | 0.17 | +/-2.00 | J | 2.00 | P | 10/17/2024 | 19:35 | LB132993 |
| | Arsenic | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 19:35 | LB132993 |
| | Barium | 10.0 | +/-10.0 | U | 10.0 | P | 10/17/2024 | 19:35 | LB132993 |
| | Beryllium | 0.25 | +/-1.00 | J | 1.00 | P | 10/17/2024 | 19:35 | LB132993 |
| | Cadmium | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 19:35 | LB132993 |
| | Calcium | 500 | +/-500 | U | 500 | P | 10/17/2024 | 19:35 | LB132993 |
| | Chromium | 2.00 | +/-2.00 | U | 2.00 | P | 10/17/2024 | 19:35 | LB132993 |
| | Cobalt | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 19:35 | LB132993 |
| | Copper | 2.00 | +/-2.00 | U | 2.00 | P | 10/17/2024 | 19:35 | LB132993 |
| | Iron | 50.0 | +/-50.0 | U | 50.0 | P | 10/17/2024 | 19:35 | LB132993 |
| | Lead | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 19:35 | LB132993 |
| | Magnesium | 500 | +/-500 | U | 500 | P | 10/17/2024 | 19:35 | LB132993 |
| | Manganese | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 19:35 | LB132993 |
| | Nickel | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 19:35 | LB132993 |
| | Potassium | 500 | +/-500 | U | 500 | P | 10/17/2024 | 19:35 | LB132993 |
| | Molybdenum | 5.00 | +/-5.00 | U | 5.00 | P | 10/17/2024 | 19:35 | LB132993 |
| | Tin | 5.00 | +/-5.00 | U | 5.00 | P | 10/17/2024 | 19:35 | LB132993 |
| | Selenium | 5.00 | +/-5.00 | U | 5.00 | P | 10/17/2024 | 19:35 | LB132993 |
| | Silver | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 19:35 | LB132993 |
| | Sodium | 500 | +/-500 | U | 500 | P | 10/17/2024 | 19:35 | LB132993 |
| | Thallium | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 19:35 | LB132993 |
| | Vanadium | 5.00 | +/-5.00 | U | 5.00 | P | 10/17/2024 | 19:35 | LB132993 |
| | Zinc | 5.00 | +/-5.00 | U | 5.00 | P | 10/17/2024 | 19:35 | LB132993 |
| | Strontium | 1.00 | +/-1.00 | U | 1.00 | P | 10/17/2024 | 19:35 | LB132993 |
| | Titanium | 5.00 | +/-5.00 | U | 5.00 | P | 10/17/2024 | 19:35 | LB132993 |

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

**Client:** Chemtech Consulting Group **SDG No.:** P3846

**Instrument:** P7

| Sample ID | Analyte | Result (ug/L) | Acceptance Limit | Conc Qual | CRQL ug/L | M | Analysis Date | Analysis Time | Run |
|---|---|---|---|---|---|---|---|---|---|
| **PB164204BL** | | **WATER** | | **Batch Number:** | **PB164204** | | **Prep Date:** | **10/17/2024** | |
| | Aluminum | 20.0 | <20.0 | U | 20.0 | P | 10/17/2024 | 19:22 | LB132993 |
| | Antimony | 0.32 | <2.00 | J | 2.00 | P | 10/17/2024 | 19:22 | LB132993 |
| | Arsenic | 1.00 | <1.00 | U | 1.00 | P | 10/17/2024 | 19:22 | LB132993 |
| | Barium | 10.0 | <10.0 | U | 10.0 | P | 10/17/2024 | 19:22 | LB132993 |
| | Beryllium | 0.26 | <1.00 | J | 1.00 | P | 10/17/2024 | 19:22 | LB132993 |
| | Cadmium | 1.00 | <1.00 | U | 1.00 | P | 10/17/2024 | 19:22 | LB132993 |
| | Calcium | 500 | <500 | U | 500 | P | 10/17/2024 | 19:22 | LB132993 |
| | Chromium | 2.00 | <2.00 | U | 2.00 | P | 10/17/2024 | 19:22 | LB132993 |
| | Cobalt | 1.00 | <1.00 | U | 1.00 | P | 10/17/2024 | 19:22 | LB132993 |
| | Copper | 2.00 | <2.00 | U | 2.00 | P | 10/17/2024 | 19:22 | LB132993 |
| | Iron | 50.0 | <50.0 | U | 50.0 | P | 10/17/2024 | 19:22 | LB132993 |
| | Lead | 1.00 | <1.00 | U | 1.00 | P | 10/17/2024 | 19:22 | LB132993 |
| | Magnesium | 500 | <500 | U | 500 | P | 10/17/2024 | 19:22 | LB132993 |
| | Manganese | 1.00 | <1.00 | U | 1.00 | P | 10/17/2024 | 19:22 | LB132993 |
| | Nickel | 1.00 | <1.00 | U | 1.00 | P | 10/17/2024 | 19:22 | LB132993 |
| | Potassium | 500 | <500 | U | 500 | P | 10/17/2024 | 19:22 | LB132993 |
| | Tin | 5.00 | <5.00 | U | 5.00 | P | 10/17/2024 | 19:22 | LB132993 |
| | Molybdenum | 5.00 | <5.00 | U | 5.00 | P | 10/17/2024 | 19:22 | LB132993 |
| | Selenium | 5.00 | <5.00 | U | 5.00 | P | 10/17/2024 | 19:22 | LB132993 |
| | Silver | 1.00 | <1.00 | U | 1.00 | P | 10/17/2024 | 19:22 | LB132993 |
| | Sodium | 500 | <500 | U | 500 | P | 10/17/2024 | 19:22 | LB132993 |
| | Thallium | 1.00 | <1.00 | U | 1.00 | P | 10/17/2024 | 19:22 | LB132993 |
| | Vanadium | 5.00 | <5.00 | U | 5.00 | P | 10/17/2024 | 19:22 | LB132993 |
| | Zinc | 5.00 | <5.00 | U | 5.00 | P | 10/17/2024 | 19:22 | LB132993 |
| | Titanium | 0.29 | <5.00 | J | 5.00 | P | 10/17/2024 | 19:22 | LB132993 |

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

**Client:** Chemtech Consulting Group **SDG No.:** P3846

**Contract:** CHEM02 **Lab Code:** CHEM **Case No.:** P3846 **SAS No.:** P3846

**ICS Source:** EPA **Instrument ID:** P7

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Low Limit (ug/L) | High Limit (ug/L) | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICSA01 | Aluminum | 90400 | 100000 | 90 | 0 | 0 | 10/17/2024 | 17:20 | LB132993 |
| | Antimony | 1.12 | 1.5 | 75 | -2.5 | 5.5 | 10/17/2024 | 17:20 | LB132993 |
| | Arsenic | 0.42 | 0.1 | 420 | -1.9 | 2.1 | 10/17/2024 | 17:20 | LB132993 |
| | Barium | 1.34 | 1.2 | 112 | -18.8 | 21.2 | 10/17/2024 | 17:20 | LB132993 |
| | Beryllium | 0.34 | | | -2 | 2 | 10/17/2024 | 17:20 | LB132993 |
| | Cadmium | 0.20 | 0.7 | 29 | -1.3 | 2.7 | 10/17/2024 | 17:20 | LB132993 |
| | Calcium | 98300 | 100000 | 98 | 0 | 0 | 10/17/2024 | 17:20 | LB132993 |
| | Chromium | 19.2 | 21.0 | 91 | 17 | 25 | 10/17/2024 | 17:20 | LB132993 |
| | Cobalt | 1.18 | 1.0 | 118 | -1 | 3 | 10/17/2024 | 17:20 | LB132993 |
| | Copper | 7.26 | 8.0 | 91 | 4 | 12 | 10/17/2024 | 17:20 | LB132993 |
| | Iron | 103000 | 100000 | 103 | 0 | 0 | 10/17/2024 | 17:20 | LB132993 |
| | Lead | 4.04 | 4.0 | 101 | 2 | 6 | 10/17/2024 | 17:20 | LB132993 |
| | Magnesium | 92800 | 100000 | 93 | 0 | 0 | 10/17/2024 | 17:20 | LB132993 |
| | Manganese | 7.73 | 7.0 | 110 | 5 | 9 | 10/17/2024 | 17:20 | LB132993 |
| | Nickel | 5.29 | 6.0 | 88 | 4 | 8 | 10/17/2024 | 17:20 | LB132993 |
| | Potassium | 96900 | 100000 | 97 | 0 | 0 | 10/17/2024 | 17:20 | LB132993 |
| | Selenium | 0.70 | 0.3 | 233 | -9.7 | 10 | 10/17/2024 | 17:20 | LB132993 |
| | Tin | 0.16 | | | 20 | 0 | 10/17/2024 | 17:20 | LB132993 |
| | Molybdenum | 1920 | 2000 | 96 | -20 | 20 | 10/17/2024 | 17:20 | LB132993 |
| | Silver | 0.080 | | | -2 | 2 | 10/17/2024 | 17:20 | LB132993 |
| | Sodium | 97800 | 100000 | 98 | 0 | 0 | 10/17/2024 | 17:20 | LB132993 |
| | Thallium | 0.17 | | | -2 | 2 | 10/17/2024 | 17:20 | LB132993 |
| | Vanadium | 0.18 | 0.5 | 36 | -9.5 | 10.5 | 10/17/2024 | 17:20 | LB132993 |
| | Zinc | 11.0 | 11.0 | 100 | 7 | 15 | 10/17/2024 | 17:20 | LB132993 |
| | Strontium | 34.1 | | | 0 | 0 | 10/17/2024 | 17:20 | LB132993 |
| | Titanium | 2070 | | | 0 | 0 | 10/17/2024 | 17:20 | LB132993 |
| ICSAB01 | Aluminum | 89100 | 100000 | 89 | 0 | 0 | 10/17/2024 | 17:23 | LB132993 |
| | Antimony | 20.3 | 22.0 | 92 | 18 | 26 | 10/17/2024 | 17:23 | LB132993 |
| | Arsenic | 18.6 | 19.0 | 98 | 16.2 | 21.9 | 10/17/2024 | 17:23 | LB132993 |
| | Barium | 19.8 | 22.0 | 90 | 2 | 42 | 10/17/2024 | 17:23 | LB132993 |
| | Beryllium | 19.9 | 19.0 | 105 | 16.2 | 21.9 | 10/17/2024 | 17:23 | LB132993 |
| | Cadmium | 20.2 | 20.0 | 101 | 17 | 23 | 10/17/2024 | 17:23 | LB132993 |
| | Calcium | 97700 | 100000 | 98 | 0 | 0 | 10/17/2024 | 17:23 | LB132993 |
| | Chromium | 38.2 | 40.0 | 96 | 34 | 46 | 10/17/2024 | 17:23 | LB132993 |
| | Cobalt | 19.8 | 20.0 | 99 | 17 | 23 | 10/17/2024 | 17:23 | LB132993 |
| | Copper | 24.7 | 25.0 | 99 | 21 | 29 | 10/17/2024 | 17:23 | LB132993 |
| | Iron | 102000 | 100000 | 102 | 0 | 0 | 10/17/2024 | 17:23 | LB132993 |
| | Lead | 23.4 | 25.0 | 94 | 21.3 | 28.8 | 10/17/2024 | 17:23 | LB132993 |
| | Magnesium | 90800 | 100000 | 91 | 0 | 0 | 10/17/2024 | 17:23 | LB132993 |
| | Manganese | 26.4 | 27.0 | 98 | 23 | 31.1 | 10/17/2024 | 17:23 | LB132993 |
| | Nickel | 23.9 | 24.0 | 100 | 20.4 | 27.6 | 10/17/2024 | 17:23 | LB132993 |
| | Potassium | 95800 | 100000 | 96 | 0 | 0 | 10/17/2024 | 17:23 | LB132993 |

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

**Client:** Chemtech Consulting Group **SDG No.:** P3846

**Contract:** CHEM02 **Lab Code:** CHEM **Case No.:** P3846 **SAS No.:** P3846

**ICS Source:** EPA **Instrument ID:** P7

| Sample ID | Analyte | Result ug/L | True Value ug/L | % Recovery | Low Limit (ug/L) | High Limit (ug/L) | Analysis Date | Analysis Time | Run Number |
|---|---|---|---|---|---|---|---|---|---|
| ICSAB01 | Tin | 49.4 | | | 20 | 0 | 10/17/2024 | 17:23 | LB132993 |
| | Molybdenum | 1960 | 2000 | 98 | 1600 | 2400 | 10/17/2024 | 17:23 | LB132993 |
| | Selenium | 20.7 | 19.0 | 109 | 9 | 29 | 10/17/2024 | 17:23 | LB132993 |
| | Silver | 18.3 | 18.0 | 102 | 15.3 | 20.7 | 10/17/2024 | 17:23 | LB132993 |
| | Sodium | 97400 | 100000 | 97 | 0 | 0 | 10/17/2024 | 17:23 | LB132993 |
| | Thallium | 22.2 | 21.0 | 106 | 17.9 | 24.2 | 10/17/2024 | 17:23 | LB132993 |
| | Vanadium | 18.3 | 19.0 | 96 | 9 | 29 | 10/17/2024 | 17:23 | LB132993 |
| | Zinc | 29.0 | 29.0 | 100 | 25 | 33 | 10/17/2024 | 17:23 | LB132993 |
| | Strontium | 82.9 | | | 0 | 0 | 10/17/2024 | 17:23 | LB132993 |
| | Titanium | 2120 | 2000 | 106 | 0 | 0 | 10/17/2024 | 17:23 | LB132993 |

# METAL QC DATA

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## LABORATORY CONTROL SAMPLE SUMMARY

**Client:** Chemtech Consulting Group **SDG No.:** P3846

**Contract:** CHEM02 **Lab Code:** CHEM **Case No.:** P3846 **SAS No.:** P3846

| Analyte | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|---|---|---|---|---|---|---|---|
| PB164204BS | | | | | | | |
| Aluminum | ug/L | 10000 | 10200 | | 102 | 85 - 115 | P |
| Antimony | ug/L | 500 | 517 | | 103 | 85 - 115 | P |
| Arsenic | ug/L | 500 | 483 | | 97 | 85 - 115 | P |
| Barium | ug/L | 2500 | 2540 | | 102 | 85 - 115 | P |
| Beryllium | ug/L | 500 | 496 | | 99 | 85 - 115 | P |
| Cadmium | ug/L | 500 | 511 | | 102 | 85 - 115 | P |
| Calcium | ug/L | 50000 | 53700 | | 107 | 85 - 115 | P |
| Chromium | ug/L | 500 | 500 | | 100 | 85 - 115 | P |
| Cobalt | ug/L | 500 | 492 | | 98 | 85 - 115 | P |
| Copper | ug/L | 5000 | 4970 | | 99 | 85 - 115 | P |
| Iron | ug/L | 25000 | 28200 | | 113 | 85 - 115 | P |
| Lead | ug/L | 2500 | 2520 | | 101 | 85 - 115 | P |
| Magnesium | ug/L | 50000 | 48100 | | 96 | 85 - 115 | P |
| Manganese | ug/L | 5000 | 4890 | | 98 | 85 - 115 | P |
| Molybdenum | ug/L | 5000 | 5550 | | 111 | 85 - 115 | P |
| Nickel | ug/L | 500 | 494 | | 99 | 85 - 115 | P |
| Potassium | ug/L | 25000 | 25500 | | 102 | 85 - 115 | P |
| Selenium | ug/L | 500 | 504 | | 101 | 85 - 115 | P |
| Silver | ug/L | 500 | 516 | | 103 | 85 - 115 | P |
| Sodium | ug/L | 50000 | 51300 | | 103 | 85 - 115 | P |
| | ug/L | | | | | | |
| Thallium | ug/L | 500 | 508 | | 102 | 85 - 115 | P |
| Tin | ug/L | 500 | 515 | | 103 | 85 - 115 | P |
| Titanium | ug/L | 5000 | 5610 | | 112 | 85 - 115 | P |
| Vanadium | ug/L | 500 | 486 | | 97 | 85 - 115 | P |
| Zinc | ug/L | 5000 | 4910 | | 98 | 85 - 115 | P |

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FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: Chemtech Consulting Group | Contract: CHEM02

Lab Code: CHEM | Case no.: P3846 | Sas No.: P3846 | SDG No.: P3846

Instrument ID: P7 | Start Date : 10/17/2024

Run Number: LB132993 | End Date : 10/17/2024

| Lab SampleID | Client SampleID | Time | Internal Standard %RI For: Non-Collision Cell | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Element 6Li | Q | Element 45Sc | Q | Element 89Y | Q | Element 103Rh | Q | Element 159Tb | Q |
| S0 | S0 | 1619 | 100 | | 100 | | 100 | | 100 | | 100 | |
| S2 | S2 | 1623 | 101 | | 102 | | 101 | | 101 | | 101 | |
| S3 | S3 | 1626 | 101 | | 102 | | 100 | | 100 | | 102 | |
| S4 | S4 | 1629 | 100 | | 100 | | 100 | | 98 | | 102 | |
| S5 | S5 | 1633 | 98 | | 98 | | 98 | | 96 | | 102 | |
| S6 | S6 | 1636 | 96 | | 96 | | 97 | | 93 | | 103 | |
| S7 | S7 | 1641 | 99 | | 98 | | 101 | | 94 | | 107 | |
| S8 | S8 | 1644 | 97 | | 97 | | 96 | | 86 | | 101 | |
| ICV01 | ICV01 | 1703 | 105 | | 105 | | 105 | | 103 | | 107 | |
| LLICV | LLICV | 1709 | 106 | | 106 | | 105 | | 104 | | 108 | |
| ICB01 | ICB01 | 1717 | 104 | | 103 | | 102 | | 103 | | 104 | |
| ICSA01 | ICSA01 | 1720 | 99 | | 98 | | 100 | | 93 | | 106 | |
| ICSAB01 | ICSAB01 | 1723 | 103 | | 100 | | 102 | | 97 | | 109 | |
| CCV01 | CCV01 | 1804 | 104 | | 102 | | 101 | | 92 | | 103 | |
| CCB01 | CCB01 | 1807 | 110 | | 106 | | 105 | | 104 | | 109 | |
| CRI | CRI | 1811 | 108 | | 106 | | 105 | | 104 | | 107 | |
| ZZZZZZ | ZZZZZZ | 1825 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1828 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1832 | | | | | | | | | | |
| P3846-02 | PT-TM1-WP | 1835 | 105 | | 103 | | 103 | | 101 | | 105 | |
| P3846-04 | PT-SNTI-WP | 1838 | 105 | | 104 | | 104 | | 103 | | 105 | |
| P3846-06 | PT-MIN2-WP | 1841 | 144 | * | 153 | * | 151 | * | 144 | * | 151 | * |
| ZZZZZZ | ZZZZZZ | 1845 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1848 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1851 | | | | | | | | | | |
| CCV02 | CCV02 | 1855 | 99 | | 99 | | 100 | | 91 | | 103 | |
| CCB02 | CCB02 | 1858 | 105 | | 104 | | 103 | | 101 | | 105 | |
| P3846-02 | PT-TM1-WP | 1901 | 108 | | 105 | | 105 | | 104 | | 107 | |
| P3846-04 | PT-SNTI-WP | 1904 | 108 | | 106 | | 106 | | 104 | | 108 | |
| P3846-06 | PT-MIN2-WP | 1908 | 121 | | 119 | | 118 | | 114 | | 120 | |
| ZZZZZZ | ZZZZZZ | 1916 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1920 | | | | | | | | | | |
| PB164204BL | PB164204BL | 1922 | 103 | | 102 | | 103 | | 102 | | 106 | |
| PB164204BS | PB164204BS | 1926 | 103 | | 102 | | 104 | | 99 | | 107 | |
| CCV03 | CCV03 | 1929 | 99 | | 99 | | 100 | | 92 | | 104 | |
| CCB03 | CCB03 | 1935 | 103 | | 103 | | 103 | | 104 | | 106 | |

Internal Standard %RI Limit: 70 - 130

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

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: Chemtech Consulting Group
Contract: CHEM02
Lab Code: CHEM Case no.: P3846
Sas No.: P3846 SDG No.: P3846
Instrument ID: P7
Start Date : 10/17/2024
Run Number: LB132993
End Date : 10/17/2024

| Lab SampleID | Client SampleID | Time | Internal Standard %RI For: Collision Cell | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Element 45Sc | Q | Element 89Y | Q | Element 103Rh | Q | Element 159Tb | Q | Element 165Ho | Q |
| S0 | S0 | 1619 | 100 | | 100 | | 100 | | 100 | | 100 | |
| S2 | S2 | 1623 | 104 | | 104 | | 104 | | 105 | | 104 | |
| S3 | S3 | 1626 | 104 | | 105 | | 104 | | 106 | | 106 | |
| S4 | S4 | 1629 | 103 | | 103 | | 103 | | 106 | | 105 | |
| S5 | S5 | 1633 | 101 | | 102 | | 100 | | 107 | | 105 | |
| S6 | S6 | 1636 | 100 | | 102 | | 99 | | 107 | | 108 | |
| S7 | S7 | 1641 | 97 | | 98 | | 94 | | 103 | | 102 | |
| S8 | S8 | 1644 | 101 | | 100 | | 89 | | 104 | | 103 | |
| ICV01 | ICV01 | 1703 | 105 | | 105 | | 104 | | 108 | | 106 | |
| LLICV | LLICV | 1709 | 109 | | 108 | | 109 | | 109 | | 110 | |
| ICB01 | ICB01 | 1717 | 106 | | 106 | | 107 | | 107 | | 108 | |
| ICSA01 | ICSA01 | 1720 | 103 | | 105 | | 99 | | 109 | | 110 | |
| ICSAB01 | ICSAB01 | 1723 | 105 | | 107 | | 101 | | 111 | | 111 | |
| CCV01 | CCV01 | 1804 | 103 | | 102 | | 94 | | 105 | | 106 | |
| CCB01 | CCB01 | 1807 | 111 | | 111 | | 110 | | 112 | | 111 | |
| CRI | CRI | 1811 | 111 | | 111 | | 111 | | 113 | | 112 | |
| ZZZZZZ | ZZZZZZ | 1825 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1828 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1832 | | | | | | | | | | |
| P3846-02 | PT-TM1-WP | 1835 | 106 | | 107 | | 107 | | 111 | | 108 | |
| P3846-04 | PT-SNTI-WP | 1838 | 107 | | 108 | | 108 | | 110 | | 109 | |
| P3846-06 | PT-MIN2-WP | 1841 | 146 | * | 142 | * | 141 | * | 147 | * | 146 | * |
| ZZZZZZ | ZZZZZZ | 1845 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1848 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1851 | | | | | | | | | | |
| CCV02 | CCV02 | 1855 | 102 | | 102 | | 94 | | 107 | | 105 | |
| CCB02 | CCB02 | 1858 | 102 | | 101 | | 101 | | 104 | | 104 | |
| P3846-02 | PT-TM1-WP | 1901 | 109 | | 110 | | 110 | | 111 | | 111 | |
| P3846-04 | PT-SNTI-WP | 1904 | 109 | | 110 | | 109 | | 112 | | 109 | |
| P3846-06 | PT-MIN2-WP | 1908 | 119 | | 118 | | 117 | | 121 | | 121 | |
| ZZZZZZ | ZZZZZZ | 1916 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1920 | | | | | | | | | | |
| PB164204BL | PB164204BL | 1922 | 107 | | 107 | | 107 | | 110 | | 109 | |
| PB164204BS | PB164204BS | 1926 | 105 | | 106 | | 103 | | 110 | | 109 | |
| CCV03 | CCV03 | 1929 | 103 | | 103 | | 95 | | 107 | | 106 | |
| CCB03 | CCB03 | 1935 | 106 | | 106 | | 107 | | 110 | | 109 | |

Internal Standard %RI Limit: 70 - 130

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: Chemtech Consulting Group  Contract: CHEM02

Lab Code: CHEM  Case no.: P3846  Sas No.: P3846  SDG No.: P3846

Instrument ID: P7  Start Date : 10/17/2024

Run Number: LB132993  End Date : 10/17/2024

| Lab SampleID | Client SampleID | Time | Internal Standard %RI For: Non-Collision Cell | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Element 165Ho | Q | Element 209Bi | Q | Element | Q | Element | Q | Element | Q |
| S0 | S0 | 1619 | 100 | | 100 | | | | | | | |
| S2 | S2 | 1623 | 101 | | 100 | | | | | | | |
| S3 | S3 | 1626 | 102 | | 101 | | | | | | | |
| S4 | S4 | 1629 | 102 | | 101 | | | | | | | |
| S5 | S5 | 1633 | 102 | | 101 | | | | | | | |
| S6 | S6 | 1636 | 103 | | 100 | | | | | | | |
| S7 | S7 | 1641 | 108 | | 104 | | | | | | | |
| S8 | S8 | 1644 | 100 | | 90 | | | | | | | |
| ICV01 | ICV01 | 1703 | 107 | | 107 | | | | | | | |
| LLICV | LLICV | 1709 | 107 | | 108 | | | | | | | |
| ICB01 | ICB01 | 1717 | 104 | | 104 | | | | | | | |
| ICSA01 | ICSA01 | 1720 | 106 | | 100 | | | | | | | |
| ICSAB01 | ICSAB01 | 1723 | 109 | | 103 | | | | | | | |
| CCV01 | CCV01 | 1804 | 105 | | 96 | | | | | | | |
| CCB01 | CCB01 | 1807 | 108 | | 109 | | | | | | | |
| CRI | CRI | 1811 | 107 | | 107 | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1825 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1828 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1832 | | | | | | | | | | |
| P3846-02 | PT-TM1-WP | 1835 | 105 | | 106 | | | | | | | |
| P3846-04 | PT-SNTI-WP | 1838 | 106 | | 104 | | | | | | | |
| P3846-06 | PT-MIN2-WP | 1841 | 153 | * | 145 | * | | | | | | |
| ZZZZZZ | ZZZZZZ | 1845 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1848 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1851 | | | | | | | | | | |
| CCV02 | CCV02 | 1855 | 103 | | 94 | | | | | | | |
| CCB02 | CCB02 | 1858 | 106 | | 105 | | | | | | | |
| P3846-02 | PT-TM1-WP | 1901 | 107 | | 108 | | | | | | | |
| P3846-04 | PT-SNTI-WP | 1904 | 106 | | 106 | | | | | | | |
| P3846-06 | PT-MIN2-WP | 1908 | 120 | | 116 | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1916 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1920 | | | | | | | | | | |
| PB164204BL | PB164204BL | 1922 | 107 | | 106 | | | | | | | |
| PB164204BS | PB164204BS | 1926 | 107 | | 103 | | | | | | | |

Internal Standard %RI Limit: 70 -130

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FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: Chemtech Consulting Group  Contract: CHEM02

Lab Code: CHEM  Case no.: P3846  Sas No.: P3846  SDG No.: P3846

Instrument ID: P7  Start Date : 10/17/2024

Run Number: LB132993  End Date : 10/17/2024

| Lab SampleID | Client SampleID | Time | Internal Standard %RI For: Non-Collision Cell | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Element 165Ho | Q | Element 209Bi | Q | Element | Q | Element | Q | Element | Q |
| CCV03 | CCV03 | 1929 | 105 | | 96 | | | | | | | |
| CCB03 | CCB03 | 1935 | 106 | | 106 | | | | | | | |

Internal Standard %RI Limit: 70 -130

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FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: Chemtech Consulting Group  Contract: CHEM02

Lab Code: CHEM  Case no.: P3846  Sas No.: P3846  SDG No.: P3846

Instrument ID: P7  Start Date : 10/17/2024

Run Number: LB132993  End Date : 10/17/2024

| Lab SampleID | Client SampleID | Time | Internal Standard %RI For: Collision Cell | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Element 209Bi | Q | Element | Q | Element | Q | Element | Q | Element | Q |
| S0 | S0 | 1619 | 100 | | | | | | | | | |
| S2 | S2 | 1623 | 104 | | | | | | | | | |
| S3 | S3 | 1626 | 105 | | | | | | | | | |
| S4 | S4 | 1629 | 105 | | | | | | | | | |
| S5 | S5 | 1633 | 104 | | | | | | | | | |
| S6 | S6 | 1636 | 106 | | | | | | | | | |
| S7 | S7 | 1641 | 99 | | | | | | | | | |
| S8 | S8 | 1644 | 84 | | | | | | | | | |
| ICV01 | ICV01 | 1703 | 106 | | | | | | | | | |
| LLICV | LLICV | 1709 | 110 | | | | | | | | | |
| ICB01 | ICB01 | 1717 | 110 | | | | | | | | | |
| ICSA01 | ICSA01 | 1720 | 105 | | | | | | | | | |
| ICSAB01 | ICSAB01 | 1723 | 106 | | | | | | | | | |
| CCV01 | CCV01 | 1804 | 88 | | | | | | | | | |
| CCB01 | CCB01 | 1807 | 113 | | | | | | | | | |
| CRI | CRI | 1811 | 113 | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1825 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1828 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1832 | | | | | | | | | | |
| P3846-02 | PT-TM1-WP | 1835 | 110 | | | | | | | | | |
| P3846-04 | PT-SNTI-WP | 1838 | 111 | | | | | | | | | |
| P3846-06 | PT-MIN2-WP | 1841 | 141 | * | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1845 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1848 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1851 | | | | | | | | | | |
| CCV02 | CCV02 | 1855 | 88 | | | | | | | | | |
| CCB02 | CCB02 | 1858 | 105 | | | | | | | | | |
| P3846-02 | PT-TM1-WP | 1901 | 113 | | | | | | | | | |
| P3846-04 | PT-SNTI-WP | 1904 | 111 | | | | | | | | | |
| P3846-06 | PT-MIN2-WP | 1908 | 119 | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1916 | | | | | | | | | | |
| ZZZZZZ | ZZZZZZ | 1920 | | | | | | | | | | |
| PB164204BL | PB164204BL | 1922 | 110 | | | | | | | | | |
| PB164204BS | PB164204BS | 1926 | 107 | | | | | | | | | |

Internal Standard %RI Limit: 70 -130

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FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: Chemtech Consulting Group  Contract: CHEM02

Lab Code: CHEM  Case no.: P3846  Sas No.: P3846  SDG No.: P3846

Instrument ID: P7  Start Date : 10/17/2024

Run Number: LB132993  End Date : 10/17/2024

| Lab SampleID | Client SampleID | Time | Internal Standard %RI For: Collision Cell | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Element 209Bi | Q | Element | Q | Element | Q | Element | Q | Element | Q |
| CCV03 | CCV03 | 1929 | 89 | | | | | | | | | |
| CCB03 | CCB03 | 1935 | 111 | | | | | | | | | |

Internal Standard %RI Limit: 70 -130

# METAL PREPARATION & INSTRUMENT DATA

# METAL PREPARATION & ANALYICAL SUMMARY

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

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

**Client:** Chemtech Consulting Group **SDG No.:** P3846

**Contract:** CHEM02 **Lab Code:** CHEM **Method:**

**Case No.:** P3846 **SAS No.:** P3846

| Sample ID | Client ID | Sample Type | Matrix | Prep Date | Initial Sample Size(mL) | Final Sample Volume (mL) | Percent Solids |
|---|---|---|---|---|---|---|---|
| **Batch Number:** | **PB164204** | | | | | | |
| P3846-02 | PT-TM1-WP | SAM | WATER | 10/17/2024 | 50.0 | 50.0 | |
| P3846-04 | PT-SNTI-WP | SAM | WATER | 10/17/2024 | 50.0 | 50.0 | |
| P3846-06 | PT-MIN2-WP | SAM | WATER | 10/17/2024 | 50.0 | 50.0 | |
| PB164204BL | PB164204BL | MB | WATER | 10/17/2024 | 50.0 | 50.0 | |
| PB164204BS | PB164204BS | LCS | WATER | 10/17/2024 | 50.0 | 50.0 | |

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

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

**Client:** Chemtech Consulting Group **Contract:** CHEM02

**Lab code:** CHEM **Case no.:** P3846 **Sas no.:** P3846 **Sdg no.:** P3846

**Instrument id number:** **Method:** **Run number:** LB132993

**Start date:** 10/17/2024 **End date:** 10/17/2024

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list |
|---|---|---|---|---|
| S0 | S0 | 1 | 1619 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl,V,Zn |
| S2 | S2 | 1 | 1623 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl,V,Zn |
| S3 | S3 | 1 | 1626 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl,V,Zn |
| S4 | S4 | 1 | 1629 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl,V,Zn |
| S5 | S5 | 1 | 1633 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl,V,Zn |
| S6 | S6 | 1 | 1636 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl,V,Zn |
| S7 | S7 | 1 | 1641 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl,V,Zn |
| S8 | S8 | 1 | 1644 | Al,Ca,Fe,K,Mg,Na |
| ICV01 | ICV01 | 1 | 1703 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl,V,Zn |
| LLICV | LLICV | 1 | 1709 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl,V,Zn |
| ICB01 | ICB01 | 1 | 1717 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl,V,Zn |
| ICSA01 | ICSA01 | 1 | 1720 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl,V,Zn |
| ICSAB01 | ICSAB01 | 1 | 1723 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl,V,Zn |
| CCV01 | CCV01 | 1 | 1804 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl,V,Zn |
| CCB01 | CCB01 | 1 | 1807 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl,V,Zn |
| CRI | CRI | 1 | 1811 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl,V,Zn |
| P3846-02 | PT-TM1-WP | 1 | 1835 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Pb,Sb,Se,Tl,Zn |
| P3846-04 | PT-SNTI-WP | 1 | 1838 | Ti |
| CCV02 | CCV02 | 1 | 1855 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl,V,Zn |
| CCB02 | CCB02 | 1 | 1858 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl,V,Zn |
| P3846-02 | PT-TM1-WP | 2 | 1901 | Ni,V |
| P3846-04 | PT-SNTI-WP | 2 | 1904 | Sn |
| P3846-06 | PT-MIN2-WP | 2 | 1908 | Ca,K,Mg,Na |
| PB164204BL | PB164204BL | 1 | 1922 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Ti,Tl,V,Zn |
| PB164204BS | PB164204BS | 1 | 1926 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Ti,Tl,V,Zn |
| CCV03 | CCV03 | 1 | 1929 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl,V,Zn |
| CCB03 | CCB03 | 1 | 1935 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Mo,Na,Ni,Pb,Sb,Se,Sn,Sr,Ti,Tl,V,Zn |

# METAL
# RAW DATA

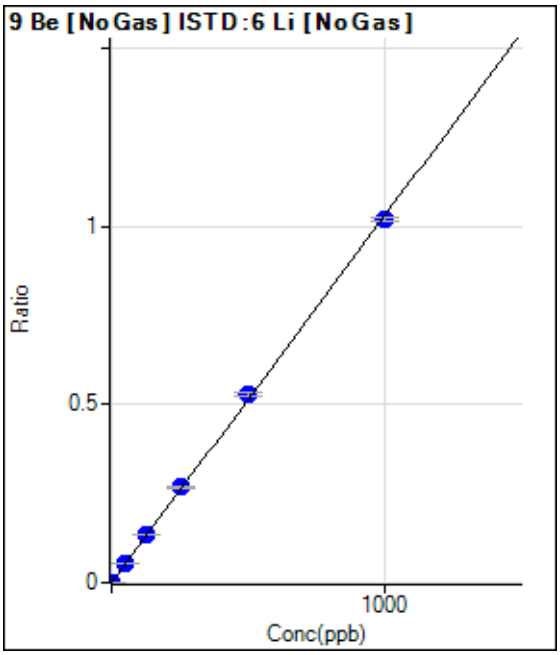
Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

# Calibration for 008CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7101724-MS1.b\
Analysis File: P7101724-MS1.batch.bin
DA Date-Time: 2024-10-18 00:46:20
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time |
|---|---|---|---|
| 1 | 004CALB.d | S00 | 2024-10-17 16:19:52 |
| 2 | 005CALS.d | S02 | 2024-10-17 16:23:14 |
| 3 | 006CALS.d | S03 | 2024-10-17 16:26:38 |
| 4 | 007CALS.d | S04 | 2024-10-17 16:29:55 |
| 5 | 008CALS.d | S05 | 2024-10-17 16:33:04 |
| 6 | 009CALS.d | S06 | 2024-10-17 16:36:06 |
| 7 | 011CALS.d | S07 | 2024-10-17 16:41:54 |
| 8 | 012CALS.d | S08 | 2024-10-17 16:44:46 |

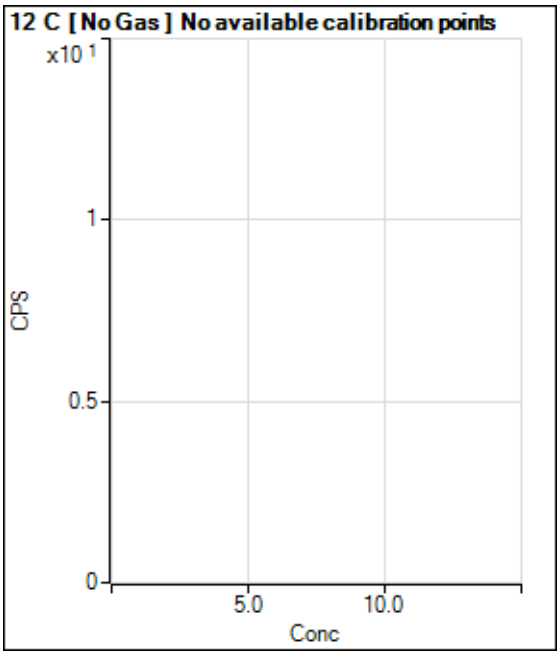
Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 21.11 | 0.0000 | P | 8.8 |
| 2 | ☐ | 1.000 | 1.114 | 891.14 | 0.0012 | P | 5.1 |
| 3 | ☐ | 50.000 | 52.748 | 41139.82 | 0.0543 | P | 1.9 |
| 4 | ☐ | 125.000 | 131.059 | 100883.06 | 0.1348 | P | 0.8 |
| 5 | ☐ | 250.000 | 260.800 | 196602.20 | 0.2682 | P | 1.1 |
| 6 | ☐ | 500.000 | 513.679 | 380720.33 | 0.5282 | P | 1.5 |
| 7 | ☐ | 1000.000 | 989.565 | 753418.05 | 1.0175 | P | 1.0 |
| 8 | ☐ | | | 465.57 | 0.0006 | P | 9.1 |

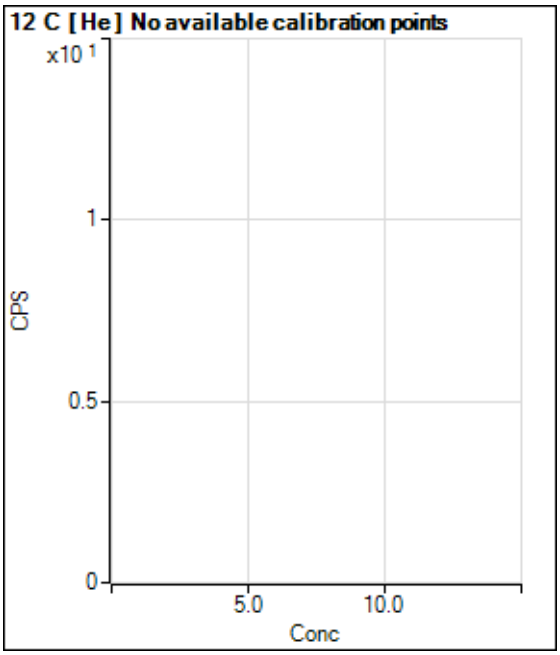
y = 0.0010 * x + 2.8125E-005
R = 0.9998
DL = 0.007191
BEC = 0.02735

Weight: <None>
Min Conc: 0

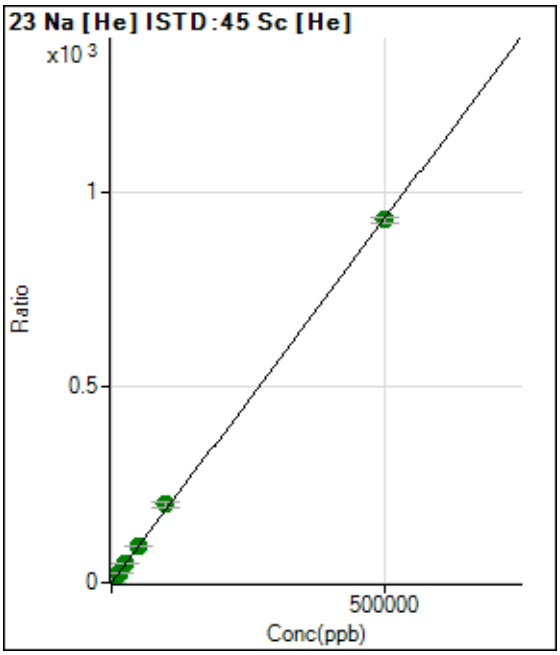



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | | | | |
| 2 | ☐ | | | | | | |
| 3 | ☐ | | | | | | |
| 4 | ☐ | | | | | | |
| 5 | ☐ | | | | | | |
| 6 | ☐ | | | | | | |
| 7 | ☐ | | | | | | |
| 8 | ☐ | | | | | | |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | | | | |
| 2 | ☐ | | | | | | |
| 3 | ☐ | | | | | | |
| 4 | ☐ | | | | | | |
| 5 | ☐ | | | | | | |
| 6 | ☐ | | | | | | |
| 7 | ☐ | | | | | | |
| 8 | ☐ | | | | | | |

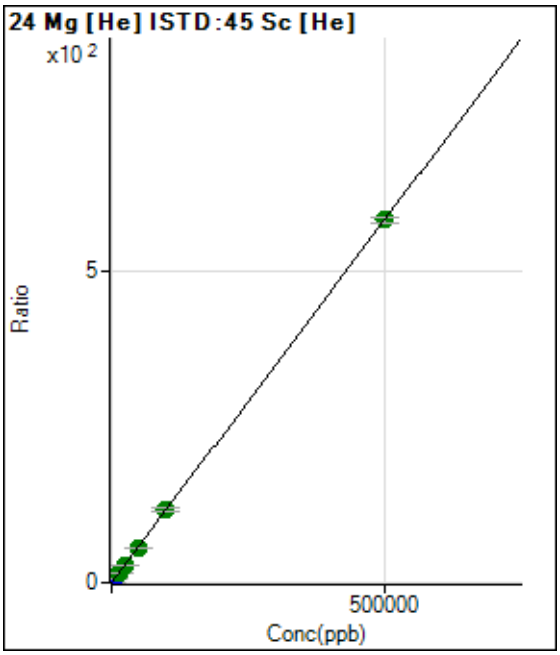



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 5076.44 | 0.0404 | P | 6.0 |
| 2 | ☐ | 500.000 | 530.939 | 135147.88 | 1.0282 | P | 1.1 |
| 3 | ☐ | 5000.000 | 5151.925 | 1261178.90 | 9.6253 | A | 0.9 |
| 4 | ☐ | 12500.000 | 12777.523 | 3086671.65 | 23.8123 | A | 1.9 |
| 5 | ☐ | 25000.000 | 25842.839 | 6095280.81 | 48.1196 | A | 0.5 |
| 6 | ☐ | 50000.000 | 50708.272 | 11927114.41 | 94.3803 | A | 1.4 |
| 7 | ☐ | 100000.00 | 107128.85 | 24318460.75 | 199.3475 | A | 6.7 |
| 8 | ☐ | 500000.00 | 498452.77 | 118366018.2 | 927.3832 | A | 1.7 |

y = 0.0019 * x + 0.0404
R = 0.9999
DL = 3.895
BEC = 21.74

Weight: <None>
Min Conc: 0

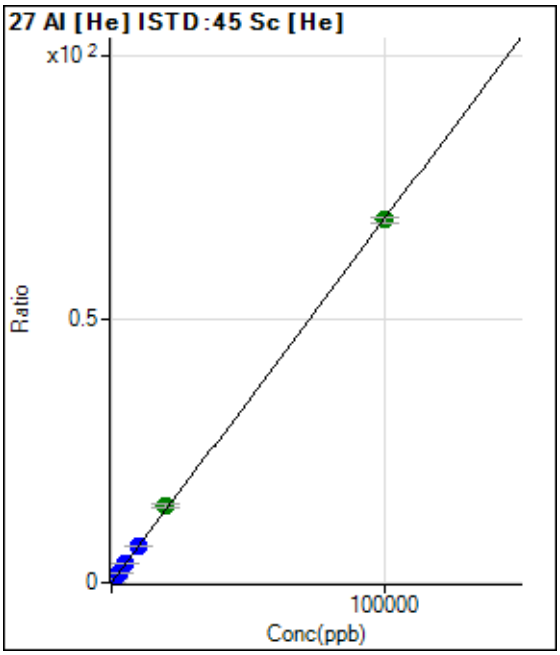
Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1098.94 | 0.0087 | P | 6.1 |
| 2 | ☐ | 500.000 | 536.032 | 83410.01 | 0.6346 | P | 1.5 |
| 3 | ☐ | 5000.000 | 5086.349 | 779273.47 | 5.9475 | P | 1.2 |
| 4 | ☐ | 12500.000 | 12079.299 | 1829367.51 | 14.1124 | A | 1.0 |
| 5 | ☐ | 25000.000 | 24101.638 | 3565687.69 | 28.1495 | A | 0.5 |
| 6 | ☐ | 50000.000 | 47269.371 | 6975791.98 | 55.1999 | A | 1.4 |
| 7 | ☐ | 100000.00 | 100605.83 | 14327039.65 | 117.4749 | A | 7.3 |
| 8 | ☐ | 500000.00 | 500206.43 | 74545447.78 | 584.0439 | A | 1.5 |

y = 0.0012 * x + 0.0087
R = 1.0000
DL = 1.366
BEC = 7.492

Weight: <None>
Min Conc: 0

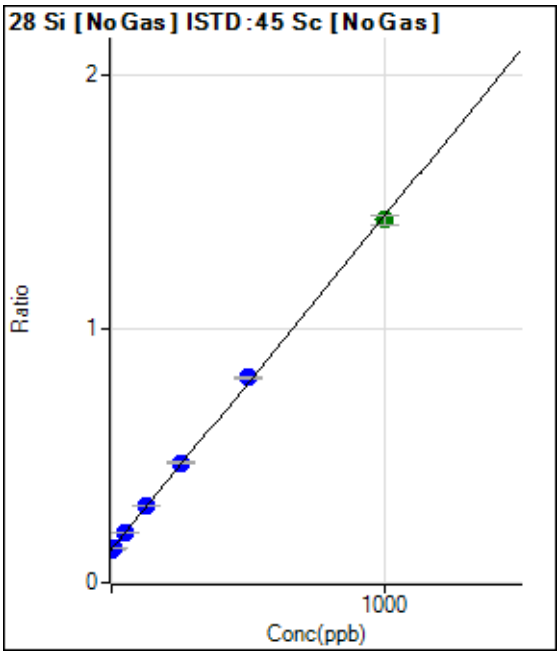



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 71.11 | 0.0006 | P | 13.1 |
| 2 | ☐ | 20.000 | 20.604 | 1942.36 | 0.0148 | P | 3.5 |
| 3 | ☐ | 1000.000 | 1064.438 | 96309.61 | 0.7350 | P | 0.9 |
| 4 | ☐ | 2500.000 | 2595.394 | 232220.44 | 1.7914 | P | 0.6 |
| 5 | ☐ | 5000.000 | 5212.310 | 455641.28 | 3.5971 | P | 0.5 |
| 6 | ☐ | 10000.000 | 10204.111 | 889855.88 | 7.0415 | P | 1.1 |
| 7 | ☐ | 20000.000 | 21083.444 | 1774761.87 | 14.5483 | A | 6.8 |
| 8 | ☐ | 100000.00 | 99749.255 | 8785157.86 | 68.8283 | A | 1.4 |

y = 6.9001E-004 * x + 5.6281E-004
R = 0.9999
DL = 0.3208
BEC = 0.8157

Weight: <None>
Min Conc: 0

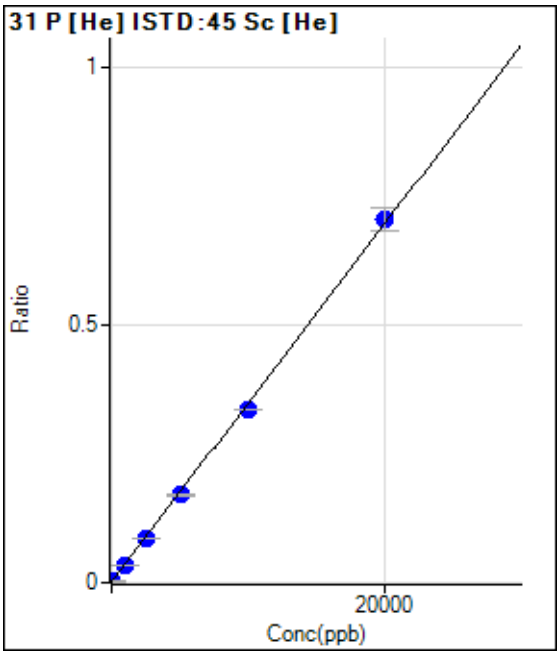
Reviewed By:Mohan
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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 192476.41 | 0.1309 | P | 0.4 |
| 2 | ☐ | 10.000 | 3.457 | 202346.14 | 0.1354 | P | 0.7 |
| 3 | ☐ | 50.000 | 51.414 | 296594.45 | 0.1985 | P | 2.0 |
| 4 | ☐ | 125.000 | 130.768 | 445535.95 | 0.3028 | P | 1.1 |
| 5 | ☐ | 250.000 | 259.889 | 682508.53 | 0.4725 | P | 1.6 |
| 6 | ☐ | 500.000 | 516.770 | 1143821.13 | 0.8101 | P | 0.8 |
| 7 | ☐ | 1000.000 | 988.416 | 2062109.29 | 1.4300 | A | 2.3 |
| 8 | ☐ | | | 198074.08 | 0.1393 | P | 1.9 |

y = 0.0013 * x + 0.1309
R = 0.9997
DL = 1.274
BEC = 99.6

Weight: <None>
Min Conc: 0

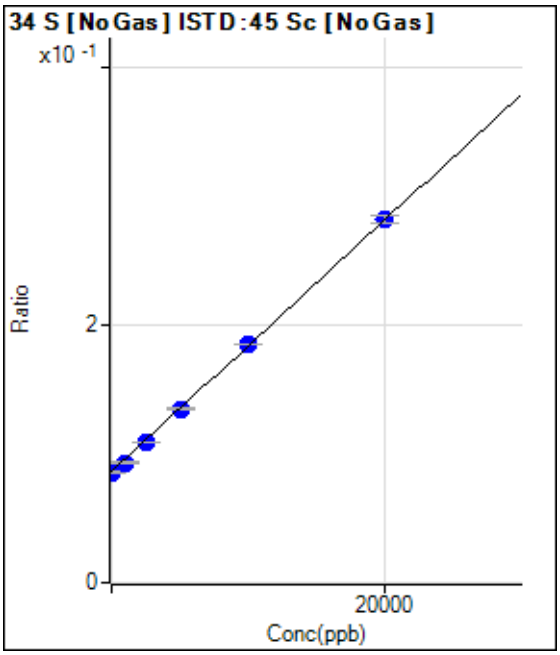



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | -14.560 | 111.11 | 0.0009 | P | 0.6 |
| 2 | ☐ | 0.000 | 14.560 | 248.89 | 0.0019 | P | 3.6 |
| 3 | ☐ | 1000.000 | 965.535 | 4574.07 | 0.0349 | P | 0.9 |
| 4 | ☐ | 2500.000 | 2442.512 | 11171.95 | 0.0862 | P | 0.6 |
| 5 | ☐ | 5000.000 | 4880.833 | 21642.03 | 0.1708 | P | 1.8 |
| 6 | ☐ | 10000.000 | 9606.586 | 42322.73 | 0.3349 | P | 0.5 |
| 7 | ☐ | 20000.000 | 20235.408 | 85875.69 | 0.7039 | P | 6.5 |
| 8 | ☐ | | | 142.23 | 0.0011 | P | 14.1 |

y = 3.4716E-005 * x + 0.0014
R = 0.9997
DL = 3.213
BEC = 39.99

Weight: <None>
Min Conc: 0

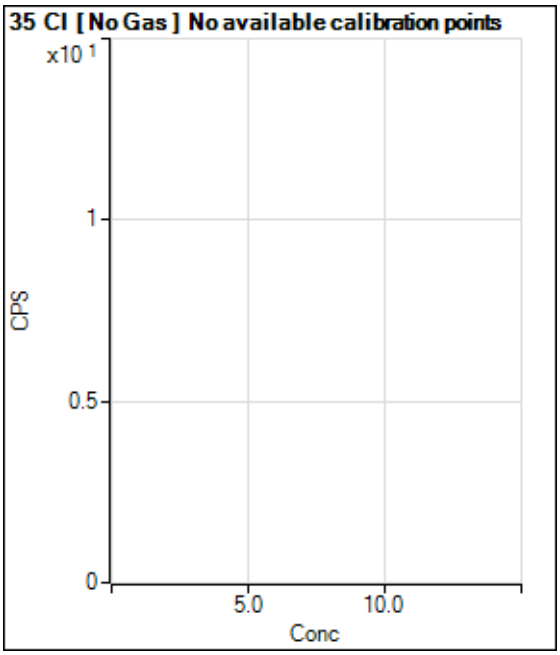
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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 89.429 | 128443.01 | 0.0874 | P | 0.6 |
| 2 | ☐ | 0.000 | -89.429 | 127891.90 | 0.0856 | P | 1.3 |
| 3 | ☐ | 1000.000 | 649.710 | 138710.46 | 0.0928 | P | 1.4 |
| 4 | ☐ | 2500.000 | 2311.743 | 160432.05 | 0.1090 | P | 0.2 |
| 5 | ☐ | 5000.000 | 4975.900 | 195023.13 | 0.1350 | P | 1.1 |
| 6 | ☐ | 10000.000 | 10094.949 | 261105.47 | 0.1849 | P | 0.2 |
| 7 | ☐ | 20000.000 | 19999.597 | 405959.33 | 0.2815 | P | 2.2 |
| 8 | ☐ | | | 109779.56 | 0.0772 | P | 2.5 |

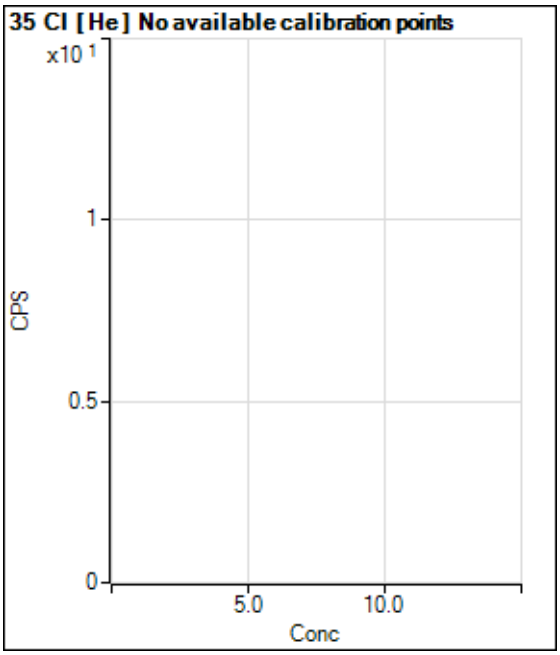
y = 9.7518E-006 * x + 0.0865
R = 0.9998
DL = 251.1
BEC = 8868

Weight: <None>
Min Conc: 0

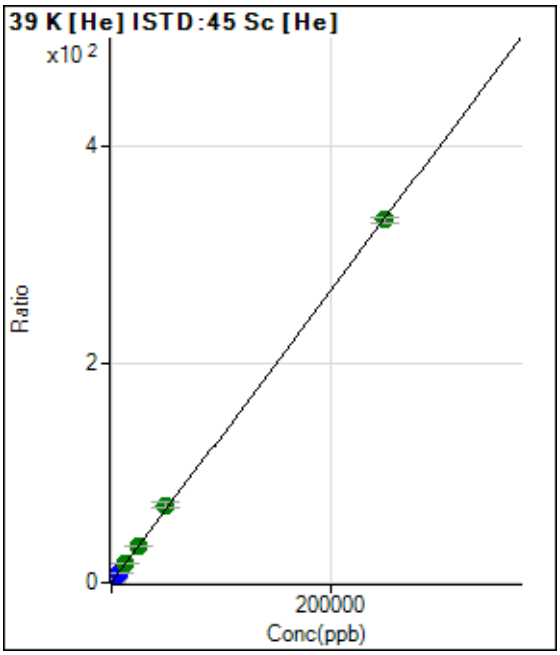



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | | | | |
| 2 | ☐ | | | | | | |
| 3 | ☐ | | | | | | |
| 4 | ☐ | | | | | | |
| 5 | ☐ | | | | | | |
| 6 | ☐ | | | | | | |
| 7 | ☐ | | | | | | |
| 8 | ☐ | | | | | | |

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LB :LB132993




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | | | | |
| 2 | ☐ | | | | | | |
| 3 | ☐ | | | | | | |
| 4 | ☐ | | | | | | |
| 5 | ☐ | | | | | | |
| 6 | ☐ | | | | | | |
| 7 | ☐ | | | | | | |
| 8 | ☐ | | | | | | |

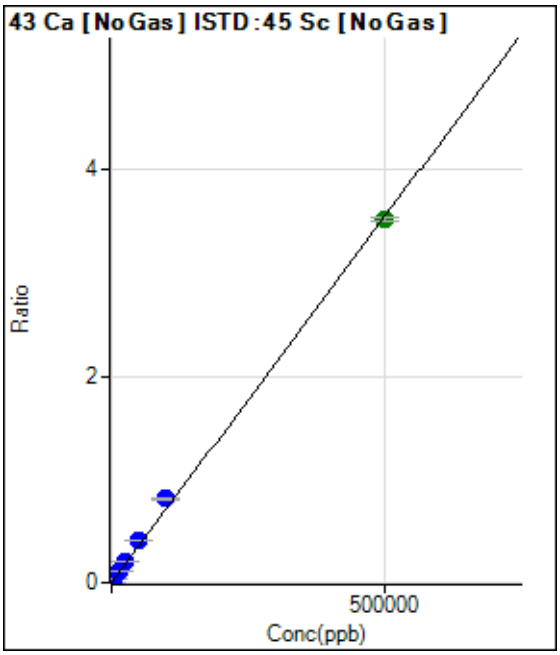



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 33717.31 | 0.2686 | P | 6.4 |
| 2 | ☐ | 500.000 | 539.015 | 129556.37 | 0.9857 | P | 1.6 |
| 3 | ☐ | 2500.000 | 2781.056 | 519970.39 | 3.9684 | P | 1.0 |
| 4 | ☐ | 6250.000 | 6930.036 | 1229948.23 | 9.4881 | P | 0.5 |
| 5 | ☐ | 12500.000 | 12766.131 | 2185173.28 | 17.2522 | A | 1.8 |
| 6 | ☐ | 25000.000 | 25253.958 | 4279750.14 | 33.8655 | A | 0.6 |
| 7 | ☐ | 50000.000 | 53251.484 | 8673419.52 | 71.1124 | A | 7.2 |
| 8 | ☐ | 250000.00 | 249291.11 | 42364444.37 | 331.9160 | A | 1.9 |

y = 0.0013 * x + 0.2686
R = 0.9999
DL = 38.47
BEC = 201.9

Weight: <None>
Min Conc: 0

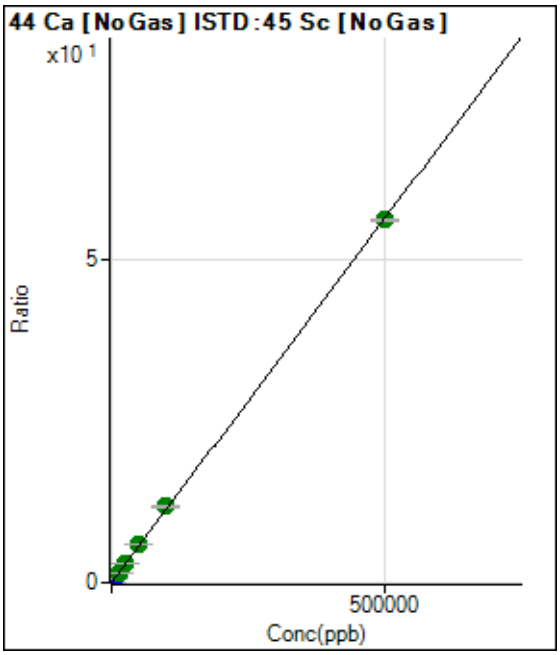
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LB :LB132993




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 151.12 | 0.0001 | P | 24.6 |
| 2 | ☐ | 500.000 | 542.330 | 5895.64 | 0.0039 | P | 0.9 |
| 3 | ☐ | 5000.000 | 5894.725 | 62586.15 | 0.0419 | P | 1.3 |
| 4 | ☐ | 12500.000 | 14584.819 | 152252.38 | 0.1035 | P | 0.4 |
| 5 | ☐ | 25000.000 | 28932.739 | 296354.20 | 0.2052 | P | 1.0 |
| 6 | ☐ | 50000.000 | 57734.091 | 577862.14 | 0.4093 | P | 0.6 |
| 7 | ☐ | 100000.00 | 114883.79 | 1174239.29 | 0.8143 | P | 2.3 |
| 8 | ☐ | 500000.00 | 495992.08 | 4998045.48 | 3.5152 | A | 0.9 |

y = 7.0870E-006 * x + 1.0277E-004
R = 0.9995
DL = 10.7
BEC = 14.5

Weight: <None>
Min Conc: 0

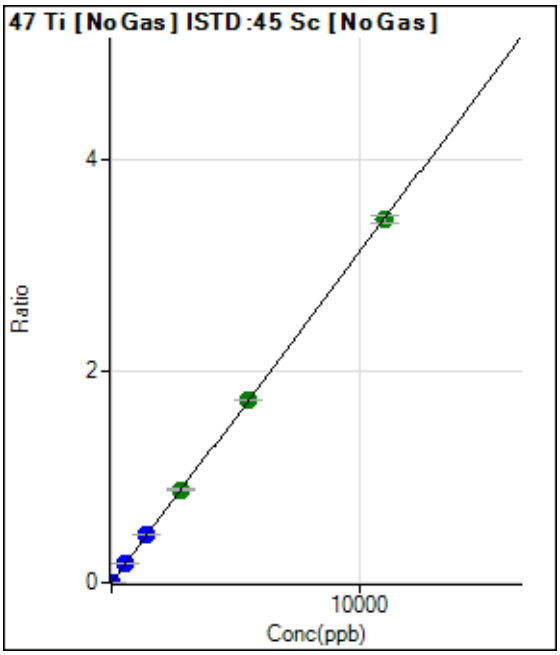



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2566.93 | 0.0017 | P | 5.6 |
| 2 | ☐ | 500.000 | 546.809 | 94335.34 | 0.0631 | P | 1.8 |
| 3 | ☐ | 5000.000 | 5738.427 | 965596.37 | 0.6461 | P | 1.4 |
| 4 | ☐ | 12500.000 | 13215.432 | 2186287.80 | 1.4857 | A | 1.1 |
| 5 | ☐ | 25000.000 | 26415.034 | 4287412.16 | 2.9680 | A | 1.0 |
| 6 | ☐ | 50000.000 | 52852.161 | 8382245.08 | 5.9367 | A | 0.8 |
| 7 | ☐ | 100000.00 | 104443.30 | 16914370.72 | 11.7300 | A | 2.6 |
| 8 | ☐ | 500000.00 | 498730.05 | 79630077.14 | 56.0055 | A | 0.5 |

y = 1.1229E-004 * x + 0.0017
R = 1.0000
DL = 2.612
BEC = 15.55

Weight: <None>
Min Conc: 0

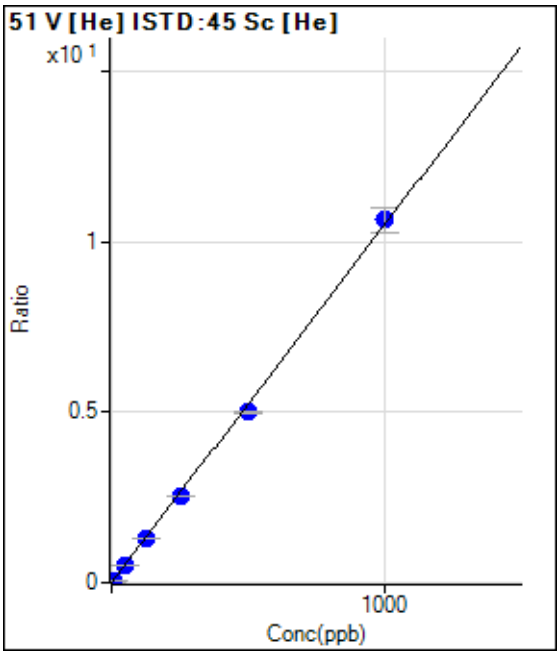
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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 33.33 | 0.0000 | P | 26.5 |
| 2 | ☐ | 5.000 | 5.264 | 2495.79 | 0.0017 | P | 7.0 |
| 3 | ☐ | 550.000 | 581.643 | 272045.16 | 0.1820 | P | 1.9 |
| 4 | ☐ | 1375.000 | 1444.149 | 665080.79 | 0.4520 | P | 0.8 |
| 5 | ☐ | 2750.000 | 2802.231 | 1266800.65 | 0.8770 | A | 1.9 |
| 6 | ☐ | 5500.000 | 5519.775 | 2439073.12 | 1.7274 | A | 0.6 |
| 7 | ☐ | 11000.000 | 10966.829 | 4949411.25 | 3.4321 | A | 2.0 |
| 8 | ☐ | | | 642.24 | 0.0005 | P | 1.8 |

y = 3.1295E-004 * x + 2.2671E-005
R = 1.0000
DL = 0.05759
BEC = 0.07244

Weight: <None>
Min Conc: 0

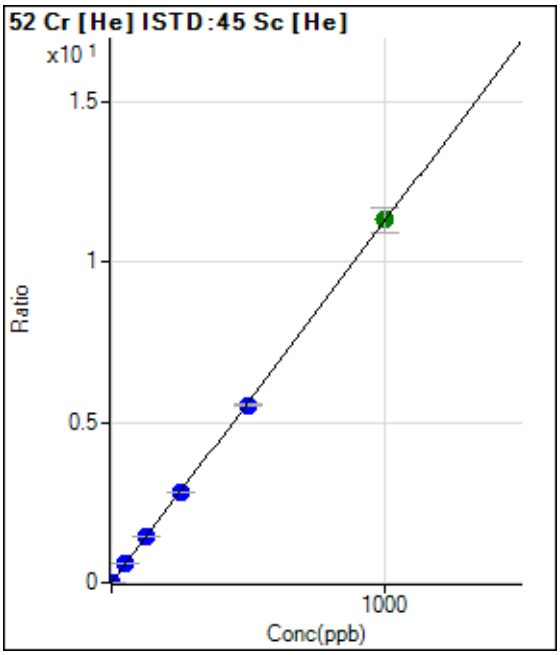



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 3.33 | 0.0000 | P | 5.8 |
| 2 | ☐ | 5.000 | 4.938 | 6819.39 | 0.0519 | P | 0.8 |
| 3 | ☐ | 50.000 | 48.768 | 67091.54 | 0.5121 | P | 2.3 |
| 4 | ☐ | 125.000 | 121.970 | 166019.79 | 1.2807 | P | 0.4 |
| 5 | ☐ | 250.000 | 241.380 | 321041.57 | 2.5345 | P | 0.7 |
| 6 | ☐ | 500.000 | 477.033 | 632991.79 | 5.0089 | P | 1.1 |
| 7 | ☐ | 1000.000 | 1014.079 | 1298801.72 | 10.6479 | P | 7.0 |
| 8 | ☐ | | | 375.56 | 0.0029 | P | 9.6 |

y = 0.0105 * x + 2.6525E-005
R = 0.9996
DL = 0.0004384
BEC = 0.002526

Weight: <None>
Min Conc: 0

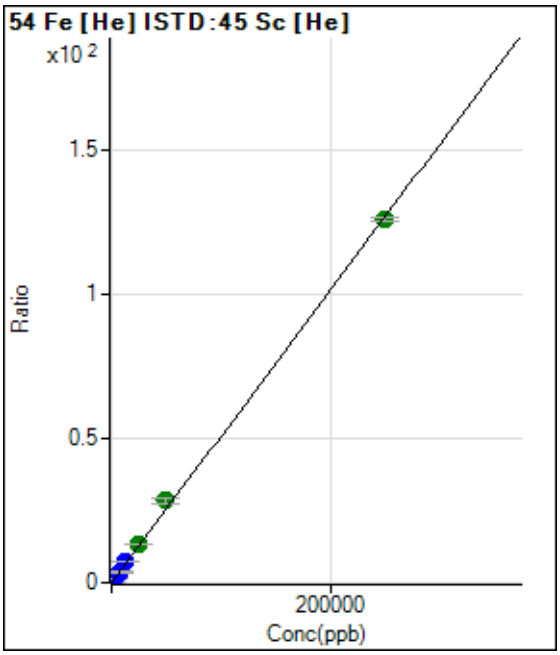
Reviewed By:Mohan
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LB :LB132993




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 184.45 | 0.0015 | P | 14.2 |
| 2 | ☐ | 2.000 | 2.030 | 3193.70 | 0.0243 | P | 2.5 |
| 3 | ☐ | 50.000 | 51.083 | 75494.38 | 0.5762 | P | 0.7 |
| 4 | ☐ | 125.000 | 126.066 | 184045.63 | 1.4197 | P | 0.3 |
| 5 | ☐ | 250.000 | 250.606 | 357302.53 | 2.8208 | P | 1.0 |
| 6 | ☐ | 500.000 | 490.882 | 698096.23 | 5.5240 | P | 0.6 |
| 7 | ☐ | 1000.000 | 1004.220 | 1378501.56 | 11.2991 | A | 6.6 |
| 8 | ☐ | | | 4520.86 | 0.0354 | P | 2.7 |

y = 0.0113 * x + 0.0015
R = 0.9999
DL = 0.05521
BEC = 0.1299

Weight: <None>
Min Conc: 0

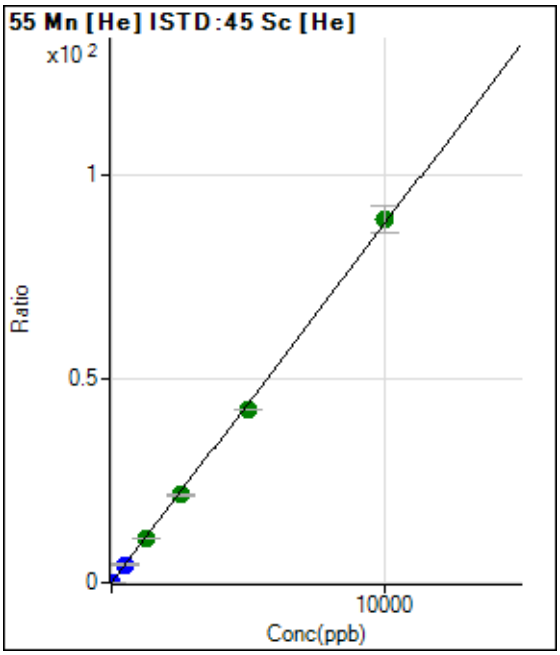



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 808.92 | 0.0064 | P | 10.7 |
| 2 | ☐ | 50.000 | 59.174 | 4778.58 | 0.0364 | P | 1.6 |
| 3 | ☐ | 2500.000 | 2928.896 | 194826.43 | 1.4870 | P | 1.6 |
| 4 | ☐ | 6250.000 | 7221.329 | 474036.81 | 3.6568 | P | 0.3 |
| 5 | ☐ | 12500.000 | 14402.328 | 922984.36 | 7.2867 | P | 1.0 |
| 6 | ☐ | 25000.000 | 26809.580 | 1713464.47 | 13.5585 | A | 1.1 |
| 7 | ☐ | 50000.000 | 56380.991 | 3477118.77 | 28.5066 | A | 7.0 |
| 8 | ☐ | 250000.00 | 248419.15 | 16029364.62 | 125.5806 | A | 1.0 |

y = 5.0549E-004 * x + 0.0064
R = 0.9996
DL = 4.077
BEC = 12.75

Weight: <None>
Min Conc: 0

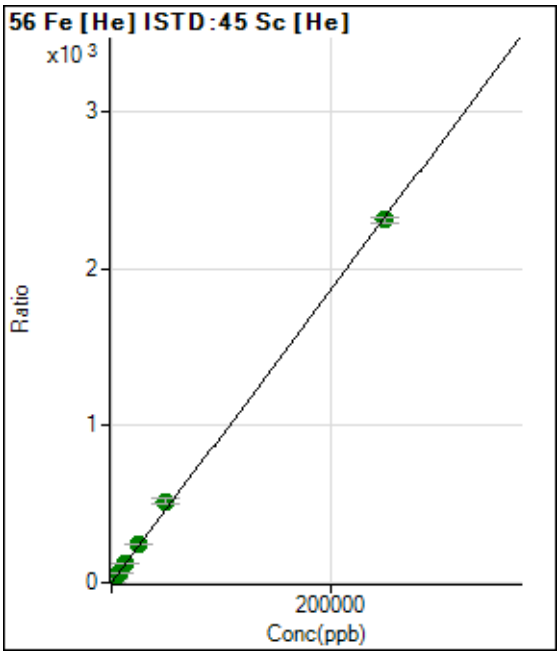
Reviewed By:Mohan
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LB :LB132993




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 82.22 | 0.0007 | P | 4.7 |
| 2 | ☐ | 1.000 | 0.978 | 1218.95 | 0.0093 | P | 4.4 |
| 3 | ☐ | 500.000 | 507.417 | 585919.55 | 4.4719 | P | 1.4 |
| 4 | ☐ | 1250.000 | 1214.558 | 1387424.25 | 10.7030 | A | 0.8 |
| 5 | ☐ | 2500.000 | 2441.806 | 2725602.84 | 21.5171 | A | 1.0 |
| 6 | ☐ | 5000.000 | 4813.642 | 5360525.96 | 42.4171 | A | 0.5 |
| 7 | ☐ | 10000.000 | 10111.787 | 10866742.06 | 89.1028 | A | 7.4 |
| 8 | ☐ | | | 5801.17 | 0.0454 | P | 1.3 |

y = 0.0088 * x + 6.5319E-004
R = 0.9997
DL = 0.01038
BEC = 0.07413

Weight: <None>
Min Conc: 0

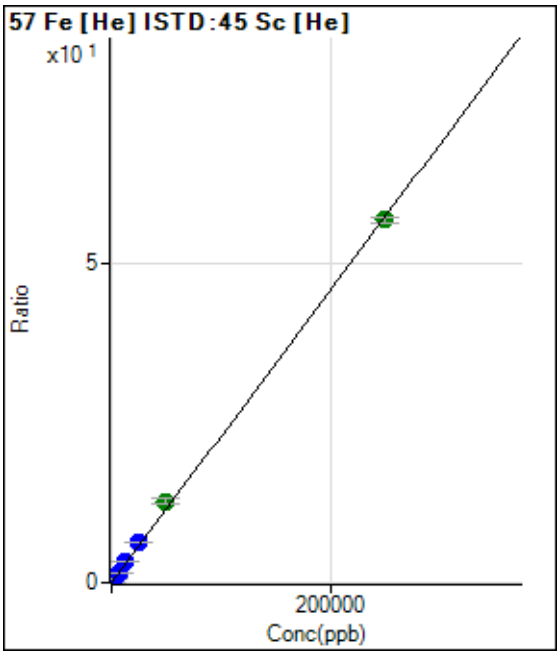



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 4445.14 | 0.0353 | P | 1.0 |
| 2 | ☐ | 50.000 | 56.872 | 74064.38 | 0.5635 | P | 1.0 |
| 3 | ☐ | 2500.000 | 2694.175 | 3282784.43 | 25.0547 | A | 1.3 |
| 4 | ☐ | 6250.000 | 6729.578 | 8105899.81 | 62.5292 | A | 0.8 |
| 5 | ☐ | 12500.000 | 13335.615 | 15690970.05 | 123.8758 | A | 0.9 |
| 6 | ☐ | 25000.000 | 26378.100 | 30961456.20 | 244.9941 | A | 0.3 |
| 7 | ☐ | 50000.000 | 55608.997 | 62995862.95 | 516.4453 | A | 7.0 |
| 8 | ☐ | 250000.00 | 248684.67 | 294770055.6 | 2,309.432 | A | 1.7 |

y = 0.0093 * x + 0.0353
R = 0.9997
DL = 0.1089
BEC = 3.806

Weight: <None>
Min Conc: 0

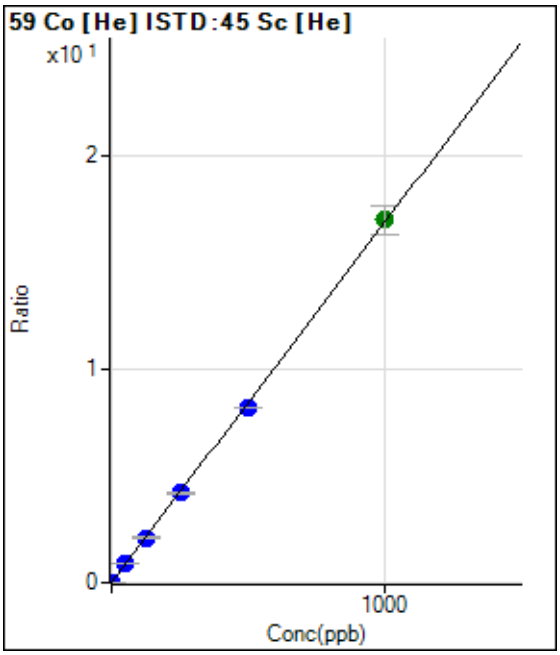
Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 570.93 | 0.0045 | P | 2.2 |
| 2 | ☐ | 50.000 | 56.652 | 2298.67 | 0.0175 | P | 0.8 |
| 3 | ☐ | 2500.000 | 2863.185 | 86324.41 | 0.6588 | P | 0.7 |
| 4 | ☐ | 6250.000 | 7111.524 | 211241.44 | 1.6296 | P | 0.5 |
| 5 | ☐ | 12500.000 | 14174.358 | 410824.30 | 3.2435 | P | 1.3 |
| 6 | ☐ | 25000.000 | 27854.965 | 804946.05 | 6.3695 | P | 0.9 |
| 7 | ☐ | 50000.000 | 55599.370 | 1550466.80 | 12.7093 | A | 6.7 |
| 8 | ☐ | 250000.00 | 248485.74 | 7247805.38 | 56.7847 | A | 1.5 |

y = 2.2850E-004 * x + 0.0045
R = 0.9997
DL = 1.32
BEC = 19.87

Weight: <None>
Min Conc: 0

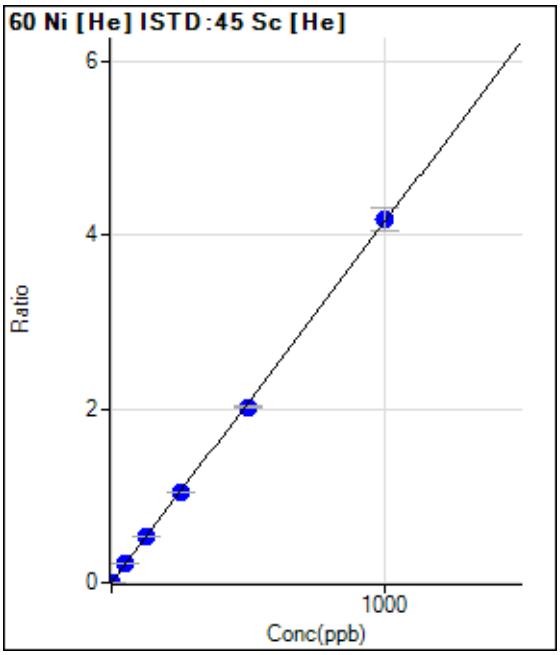



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 13.33 | 0.0001 | P | 47.6 |
| 2 | ☐ | 1.000 | 1.043 | 2324.64 | 0.0177 | P | 3.6 |
| 3 | ☐ | 50.000 | 51.013 | 112743.61 | 0.8605 | P | 1.0 |
| 4 | ☐ | 125.000 | 125.278 | 273906.26 | 2.1130 | P | 0.7 |
| 5 | ☐ | 250.000 | 248.864 | 531650.91 | 4.1973 | P | 1.2 |
| 6 | ☐ | 500.000 | 485.548 | 1034906.57 | 8.1891 | P | 0.2 |
| 7 | ☐ | 1000.000 | 1007.425 | 2071870.04 | 16.9908 | A | 7.7 |
| 8 | ☐ | | | 5369.89 | 0.0421 | P | 1.9 |

y = 0.0169 * x + 1.0469E-004
R = 0.9998
DL = 0.008856
BEC = 0.006207

Weight: <None>
Min Conc: 0

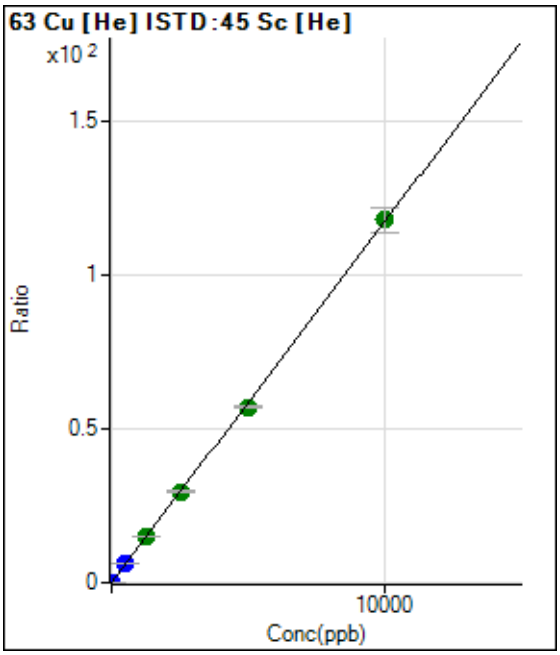
Reviewed By:Mohan
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Inst Id :P7
LB :LB132993




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 56.67 | 0.0004 | P | 12.5 |
| 2 | ☐ | 1.000 | 1.017 | 613.35 | 0.0047 | P | 3.8 |
| 3 | ☐ | 50.000 | 52.529 | 28603.97 | 0.2183 | P | 2.8 |
| 4 | ☐ | 125.000 | 126.195 | 67913.89 | 0.5239 | P | 1.1 |
| 5 | ☐ | 250.000 | 251.718 | 132312.77 | 1.0445 | P | 0.5 |
| 6 | ☐ | 500.000 | 487.434 | 255566.83 | 2.0223 | P | 0.4 |
| 7 | ☐ | 1000.000 | 1005.578 | 508936.76 | 4.1715 | P | 6.5 |
| 8 | ☐ | | | 1922.37 | 0.0151 | P | 5.4 |

y = 0.0041 * x + 4.4849E-004
R = 0.9999
DL = 0.04045
BEC = 0.1081

Weight: <None>
Min Conc: 0

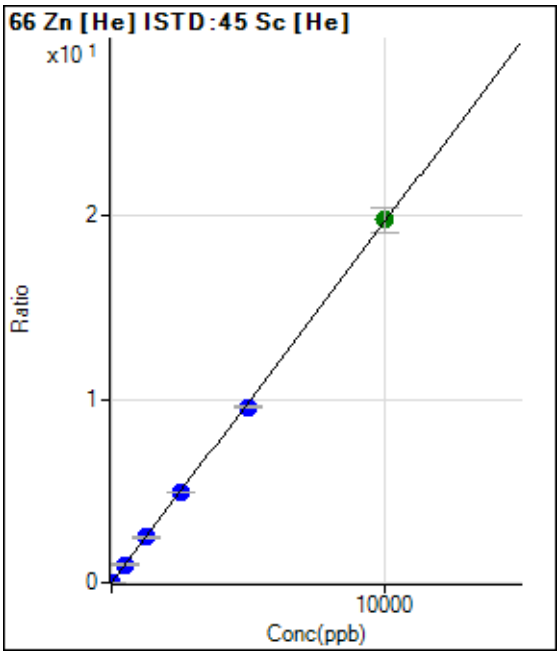



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 544.46 | 0.0043 | P | 1.4 |
| 2 | ☐ | 2.000 | 1.945 | 3563.80 | 0.0271 | P | 1.9 |
| 3 | ☐ | 500.000 | 516.283 | 793019.97 | 6.0525 | P | 1.4 |
| 4 | ☐ | 1250.000 | 1274.155 | 1935512.80 | 14.9308 | A | 0.5 |
| 5 | ☐ | 2500.000 | 2514.849 | 3732116.20 | 29.4654 | A | 1.5 |
| 6 | ☐ | 5000.000 | 4859.559 | 7194828.37 | 56.9333 | A | 1.3 |
| 7 | ☐ | 10000.000 | 10062.675 | 14381484.79 | 117.8869 | A | 6.7 |
| 8 | ☐ | | | 3308.17 | 0.0259 | P | 3.5 |

y = 0.0117 * x + 0.0043
R = 0.9998
DL = 0.01586
BEC = 0.3694

Weight: <None>
Min Conc: 0

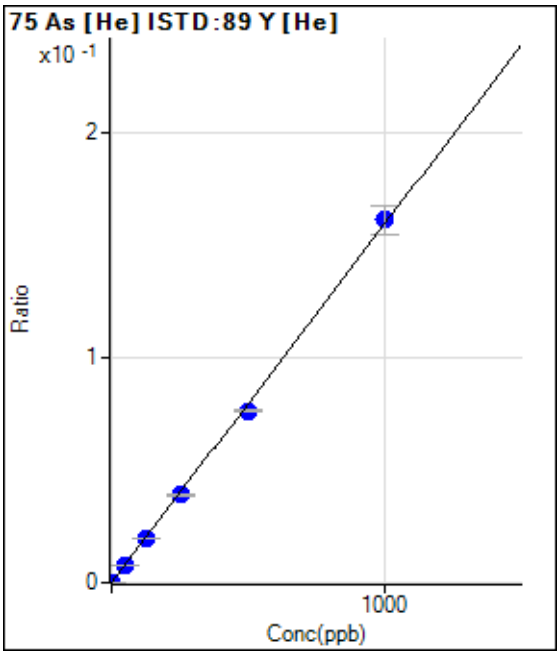
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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 73.34 | 0.0006 | P | 34.3 |
| 2 | ☐ | 2.000 | 5.186 | 1418.97 | 0.0108 | P | 5.4 |
| 3 | ☐ | 500.000 | 504.749 | 130212.59 | 0.9939 | P | 2.2 |
| 4 | ☐ | 1250.000 | 1254.211 | 320026.83 | 2.4687 | P | 0.3 |
| 5 | ☐ | 2500.000 | 2505.769 | 624678.88 | 4.9316 | P | 0.7 |
| 6 | ☐ | 5000.000 | 4875.497 | 1212570.67 | 9.5949 | P | 0.3 |
| 7 | ☐ | 10000.000 | 10060.045 | 2415177.79 | 19.7975 | A | 6.7 |
| 8 | ☐ | | | 904.48 | 0.0071 | P | 3.7 |

y = 0.0020 * x + 5.8993E-004
R = 0.9999
DL = 0.3083
BEC = 0.2998

Weight: <None>
Min Conc: 0

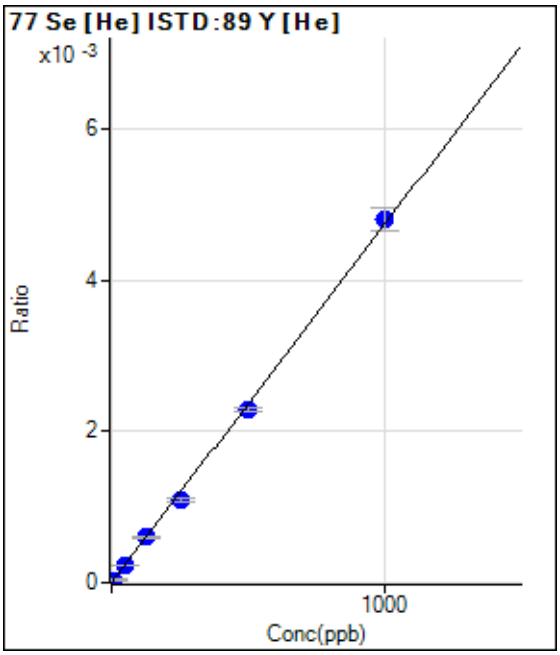



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2.22 | 0.0000 | P | 86.9 |
| 2 | ☐ | 1.000 | 1.083 | 203.33 | 0.0002 | P | 20.7 |
| 3 | ☐ | 50.000 | 48.610 | 9079.51 | 0.0078 | P | 0.2 |
| 4 | ☐ | 125.000 | 122.340 | 22582.83 | 0.0195 | P | 0.1 |
| 5 | ☐ | 250.000 | 244.153 | 44251.30 | 0.0389 | P | 1.4 |
| 6 | ☐ | 500.000 | 479.554 | 87362.64 | 0.0765 | P | 1.2 |
| 7 | ☐ | 1000.000 | 1012.086 | 176299.67 | 0.1614 | P | 7.6 |
| 8 | ☐ | | | 101.11 | 0.0001 | P | 25.1 |

y = 1.5949E-004 * x + 2.0302E-006
R = 0.9997
DL = 0.03319
BEC = 0.01273

Weight: <None>
Min Conc: 0

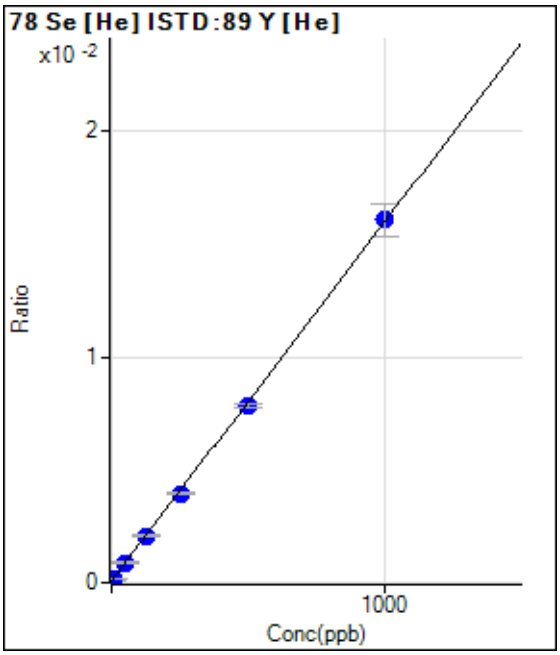
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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 0.00 | 0.0000 | P | |
| 2 | ☐ | 5.000 | 7.447 | 41.11 | 0.0000 | P | 25.8 |
| 3 | ☐ | 50.000 | 49.446 | 274.45 | 0.0002 | P | 6.2 |
| 4 | ☐ | 125.000 | 126.367 | 693.36 | 0.0006 | P | 1.6 |
| 5 | ☐ | 250.000 | 233.243 | 1256.73 | 0.0011 | P | 4.5 |
| 6 | ☐ | 500.000 | 482.021 | 2610.25 | 0.0023 | P | 1.8 |
| 7 | ☐ | 1000.000 | 1013.023 | 5253.20 | 0.0048 | P | 6.5 |
| 8 | ☐ | | | 0.00 | 0.0000 | P | |

y = 4.7409E-006 * x + 0.0000E+000
R = 0.9996
DL = 0
BEC = 0

Weight: <None>
Min Conc: 0

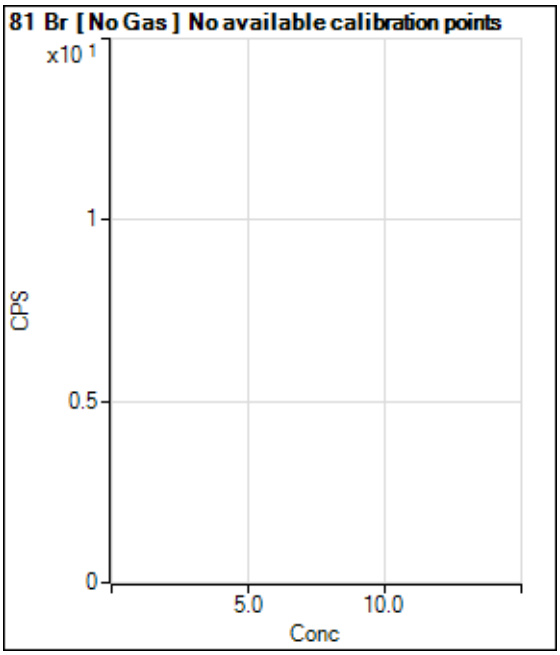



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 90.00 | 0.0001 | P | 26.2 |
| 2 | ☐ | 5.000 | 5.936 | 204.45 | 0.0002 | P | 18.8 |
| 3 | ☐ | 50.000 | 50.812 | 1041.16 | 0.0009 | P | 3.8 |
| 4 | ☐ | 125.000 | 125.711 | 2406.89 | 0.0021 | P | 3.9 |
| 5 | ☐ | 250.000 | 243.968 | 4500.73 | 0.0040 | P | 1.7 |
| 6 | ☐ | 500.000 | 489.765 | 8989.47 | 0.0079 | P | 2.6 |
| 7 | ☐ | 1000.000 | 1006.491 | 17554.91 | 0.0161 | P | 9.2 |
| 8 | ☐ | | | 90.00 | 0.0001 | P | 20.7 |

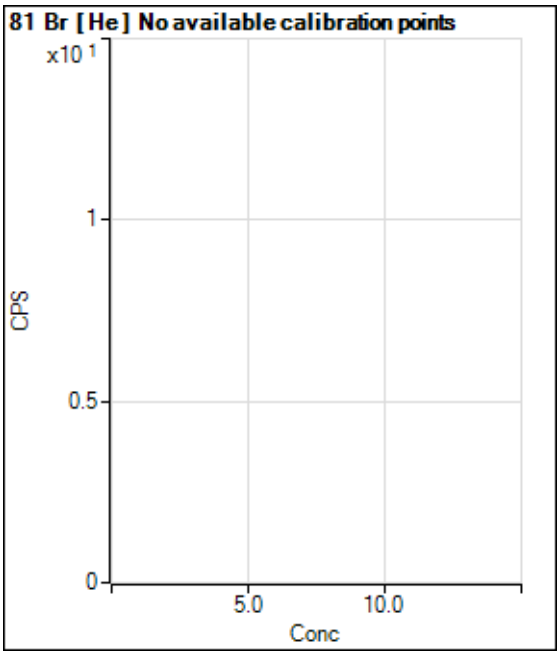
y = 1.5902E-005 * x + 8.1237E-005
R = 0.9999
DL = 4.01
BEC = 5.109

Weight: <None>
Min Conc: 0

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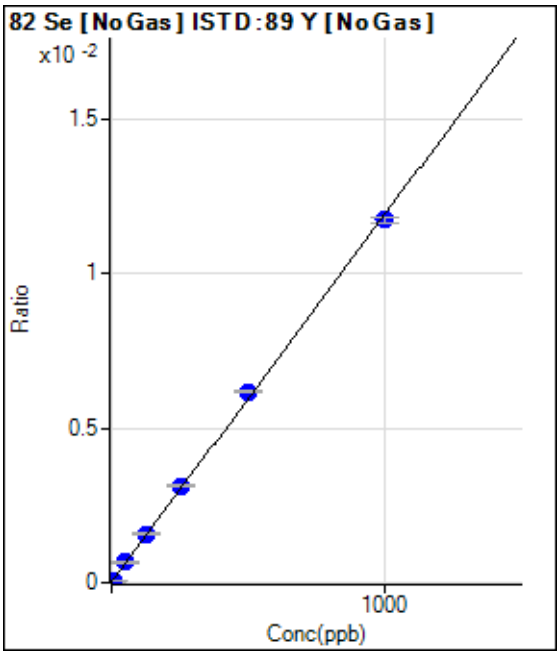



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 6632.67 | | P | 1.3 |
| 2 | ☐ | | | 6385.89 | | P | 2.1 |
| 3 | ☐ | | | 6500.37 | | P | 1.2 |
| 4 | ☐ | | | 6301.41 | | P | 0.8 |
| 5 | ☐ | | | 6361.43 | | P | 1.4 |
| 6 | ☐ | | | 6198.02 | | P | 2.4 |
| 7 | ☐ | | | 6010.17 | | P | 0.3 |
| 8 | ☐ | | | 6356.98 | | P | 1.5 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 37.78 | | P | 48.6 |
| 2 | ☐ | | | 36.67 | | P | 32.8 |
| 3 | ☐ | | | 36.67 | | P | 18.2 |
| 4 | ☐ | | | 28.89 | | P | 29.0 |
| 5 | ☐ | | | 34.44 | | P | 43.6 |
| 6 | ☐ | | | 26.67 | | P | 66.2 |
| 7 | ☐ | | | 43.34 | | P | 48.0 |
| 8 | ☐ | | | 34.44 | | P | 24.3 |

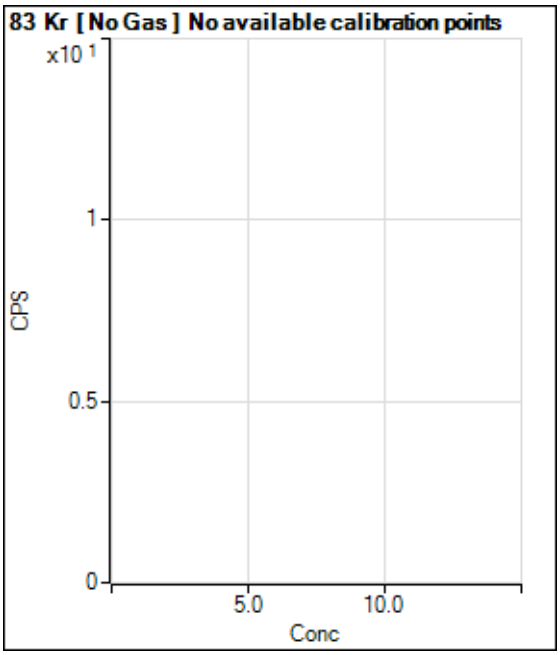
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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 91.57 | 0.0000 | P | 23.8 |
| 2 | ☐ | 5.000 | 5.394 | 395.20 | 0.0001 | P | 5.9 |
| 3 | ☐ | 50.000 | 53.622 | 3068.49 | 0.0007 | P | 1.9 |
| 4 | ☐ | 125.000 | 131.404 | 7389.67 | 0.0016 | P | 1.9 |
| 5 | ☐ | 250.000 | 262.597 | 14410.96 | 0.0031 | P | 2.1 |
| 6 | ☐ | 500.000 | 518.789 | 28140.45 | 0.0062 | P | 1.5 |
| 7 | ☐ | 1000.000 | 986.473 | 55581.24 | 0.0118 | P | 1.3 |
| 8 | ☐ | | | 183.09 | 0.0000 | P | 19.7 |

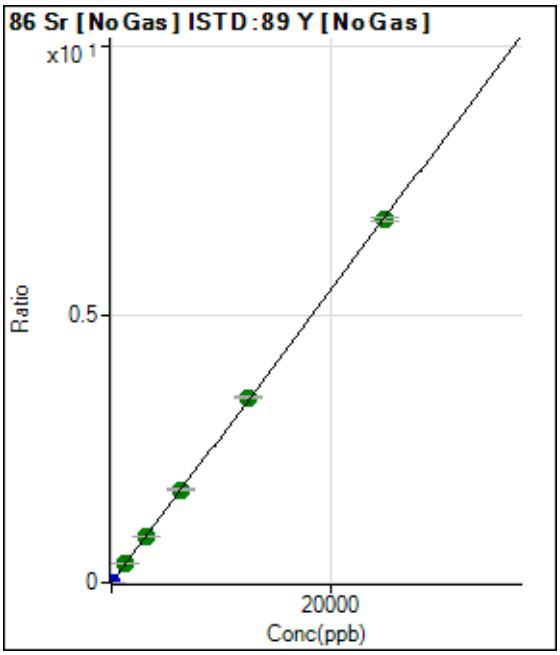
y = 1.1894E-005 * x + 1.9590E-005
R = 0.9996
DL = 1.176
BEC = 1.647

Weight: <None>
Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 83.33 | | P | 10.6 |
| 2 | ☐ | | | 67.78 | | P | 14.2 |
| 3 | ☐ | | | 68.89 | | P | 11.2 |
| 4 | ☐ | | | 67.78 | | P | 28.8 |
| 5 | ☐ | | | 50.00 | | P | 29.1 |
| 6 | ☐ | | | 67.78 | | P | 17.3 |
| 7 | ☐ | | | 74.44 | | P | 17.0 |
| 8 | ☐ | | | 81.11 | | P | 4.7 |

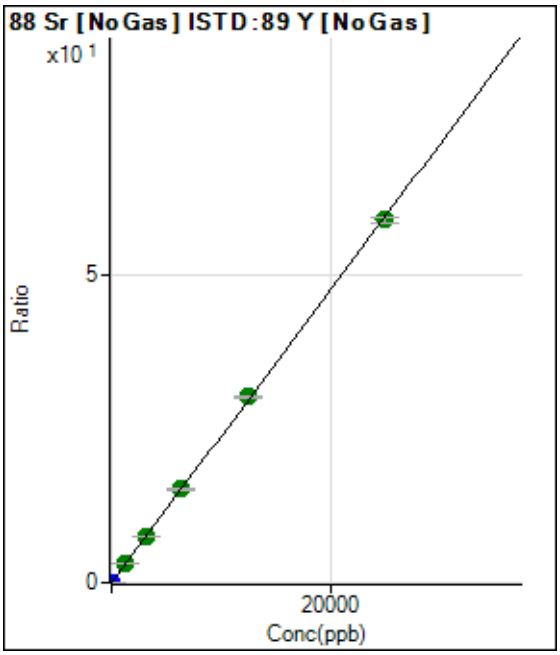
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LB :LB132993




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 120.00 | 0.0000 | P | 5.7 |
| 2 | ☐ | 1.000 | 1.054 | 1474.53 | 0.0003 | P | 4.1 |
| 3 | ☐ | 1250.000 | 1304.327 | 1656848.74 | 0.3550 | A | 1.8 |
| 4 | ☐ | 3125.000 | 3175.605 | 4035164.70 | 0.8642 | A | 1.9 |
| 5 | ☐ | 6250.000 | 6381.479 | 7962320.71 | 1.7365 | A | 1.8 |
| 6 | ☐ | 12500.000 | 12674.830 | 15680251.99 | 3.4490 | A | 0.7 |
| 7 | ☐ | 25000.000 | 24870.674 | 32006184.80 | 6.7677 | A | 1.1 |
| 8 | ☐ | | | 4994.23 | 0.0011 | P | 6.7 |

y = 2.7211E-004 * x + 2.5691E-005
R = 0.9999
DL = 0.01605
BEC = 0.09441

Weight: <None>
Min Conc: 0

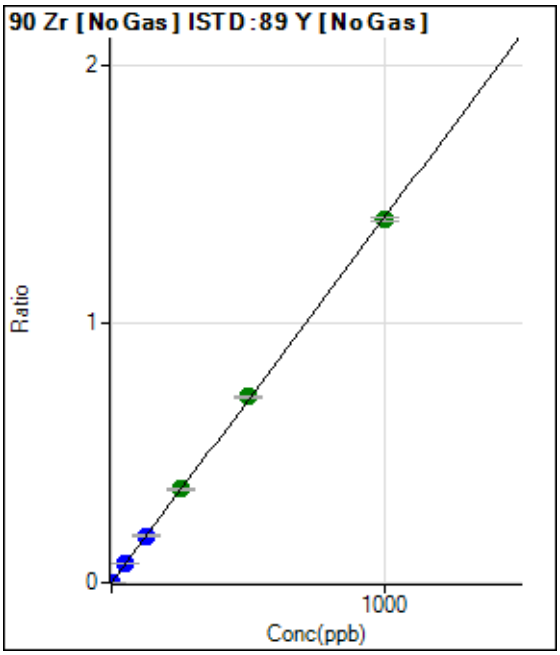



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 90.00 | 0.0000 | P | 19.6 |
| 2 | ☐ | 1.000 | 1.035 | 11702.54 | 0.0025 | P | 0.3 |
| 3 | ☐ | 1250.000 | 1286.094 | 14277308.54 | 3.0586 | A | 1.5 |
| 4 | ☐ | 3125.000 | 3174.488 | 35253965.03 | 7.5496 | A | 1.0 |
| 5 | ☐ | 6250.000 | 6395.303 | 69741855.63 | 15.2094 | A | 0.9 |
| 6 | ☐ | 12500.000 | 12731.620 | 137650696.8 | 30.2784 | A | 1.0 |
| 7 | ☐ | 25000.000 | 24839.873 | 279375858.0 | 59.0743 | A | 1.3 |
| 8 | ☐ | | | 43971.29 | 0.0098 | P | 6.4 |

y = 0.0024 * x + 1.9268E-005
R = 0.9999
DL = 0.004764
BEC = 0.008102

Weight: <None>
Min Conc: 0

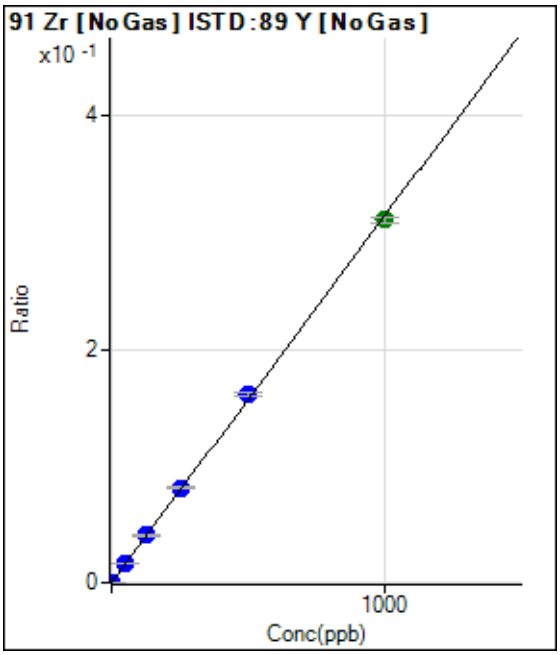
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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 153.34 | 0.0000 | P | 20.3 |
| 2 | ☐ | 1.000 | 0.979 | 6672.69 | 0.0014 | P | 1.0 |
| 3 | ☐ | 50.000 | 51.540 | 339509.41 | 0.0727 | P | 1.3 |
| 4 | ☐ | 125.000 | 128.259 | 844939.98 | 0.1809 | P | 1.2 |
| 5 | ☐ | 250.000 | 255.422 | 1652147.14 | 0.3603 | A | 1.7 |
| 6 | ☐ | 500.000 | 509.737 | 3268884.18 | 0.7190 | A | 0.8 |
| 7 | ☐ | 1000.000 | 993.291 | 6626244.55 | 1.4011 | A | 1.0 |
| 8 | ☐ | | | 4058.41 | 0.0009 | P | 5.7 |

y = 0.0014 * x + 3.2841E-005
R = 0.9999
DL = 0.01418
BEC = 0.02328

Weight: <None>
Min Conc: 0

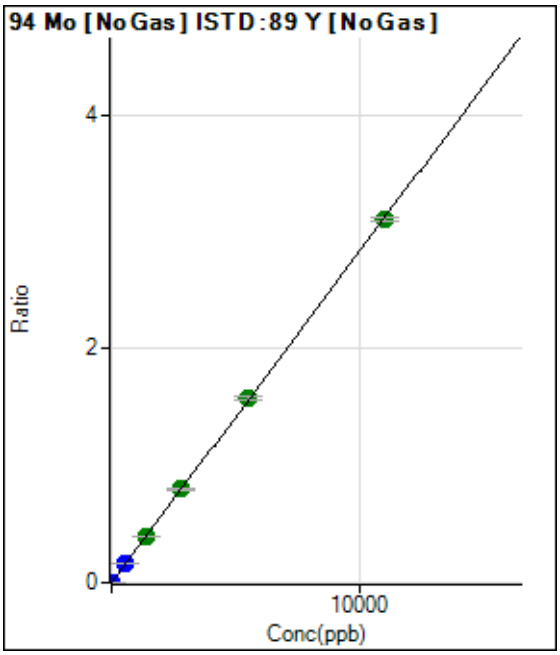



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 31.11 | 0.0000 | P | 24.6 |
| 2 | ☐ | 1.000 | 1.043 | 1575.66 | 0.0003 | P | 9.6 |
| 3 | ☐ | 50.000 | 51.675 | 75764.18 | 0.0162 | P | 1.9 |
| 4 | ☐ | 125.000 | 128.602 | 188580.09 | 0.0404 | P | 1.1 |
| 5 | ☐ | 250.000 | 258.230 | 371795.29 | 0.0811 | P | 1.4 |
| 6 | ☐ | 500.000 | 515.409 | 735672.70 | 0.1618 | P | 1.6 |
| 7 | ☐ | 1000.000 | 989.704 | 1469541.78 | 0.3107 | A | 1.8 |
| 8 | ☐ | | | 918.93 | 0.0002 | P | 9.9 |

y = 3.1397E-004 * x + 6.6595E-006
R = 0.9998
DL = 0.01567
BEC = 0.02121

Weight: <None>
Min Conc: 0

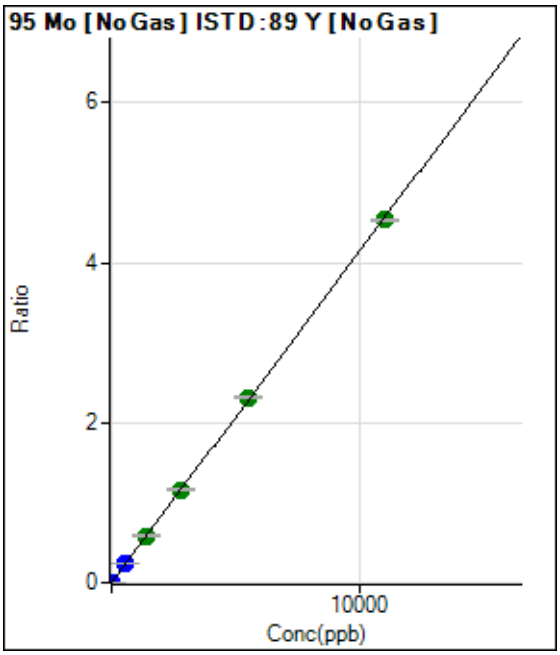
Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 68.89 | 0.0000 | P | 10.8 |
| 2 | ☐ | 5.000 | 6.020 | 8117.88 | 0.0017 | P | 2.0 |
| 3 | ☐ | 550.000 | 569.061 | 752748.14 | 0.1613 | P | 1.2 |
| 4 | ☐ | 1375.000 | 1409.389 | 1864871.05 | 0.3994 | A | 1.1 |
| 5 | ☐ | 2750.000 | 2832.691 | 3680447.06 | 0.8027 | A | 1.5 |
| 6 | ☐ | 5500.000 | 5570.951 | 7175877.88 | 1.5785 | A | 1.7 |
| 7 | ☐ | 11000.000 | 10938.599 | 14658173.67 | 3.0994 | A | 1.0 |
| 8 | ☐ | | | 3680.50 | 0.0008 | P | 7.5 |

y = 2.8335E-004 * x + 1.4743E-005
R = 0.9999
DL = 0.01686
BEC = 0.05203

Weight: <None>
Min Conc: 0

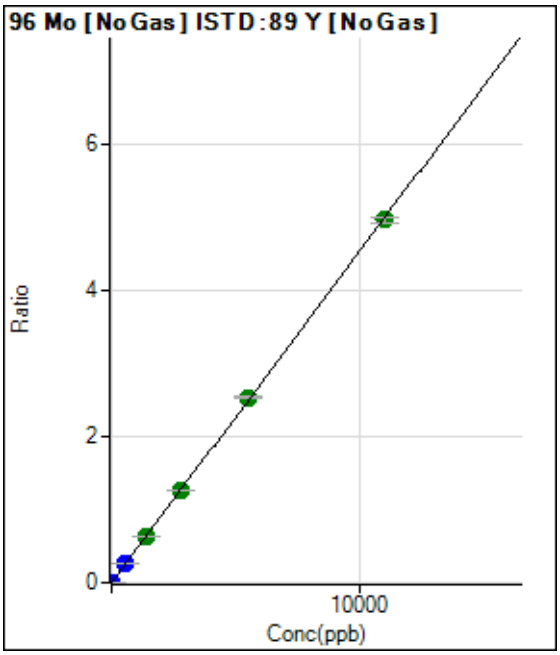



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 18.89 | 0.0000 | P | 26.6 |
| 2 | ☐ | 5.000 | 5.009 | 9816.72 | 0.0021 | P | 2.7 |
| 3 | ☐ | 550.000 | 567.157 | 1097564.40 | 0.2351 | P | 1.2 |
| 4 | ☐ | 1375.000 | 1418.108 | 2745215.76 | 0.5879 | A | 1.4 |
| 5 | ☐ | 2750.000 | 2798.999 | 5320663.64 | 1.1604 | A | 1.7 |
| 6 | ☐ | 5500.000 | 5588.005 | 10531519.91 | 2.3166 | A | 1.0 |
| 7 | ☐ | 11000.000 | 10937.502 | 21444151.07 | 4.5343 | A | 0.8 |
| 8 | ☐ | | | 3920.75 | 0.0009 | P | 6.2 |

y = 4.1456E-004 * x + 4.0402E-006
R = 0.9999
DL = 0.007778
BEC = 0.009746

Weight: <None>
Min Conc: 0

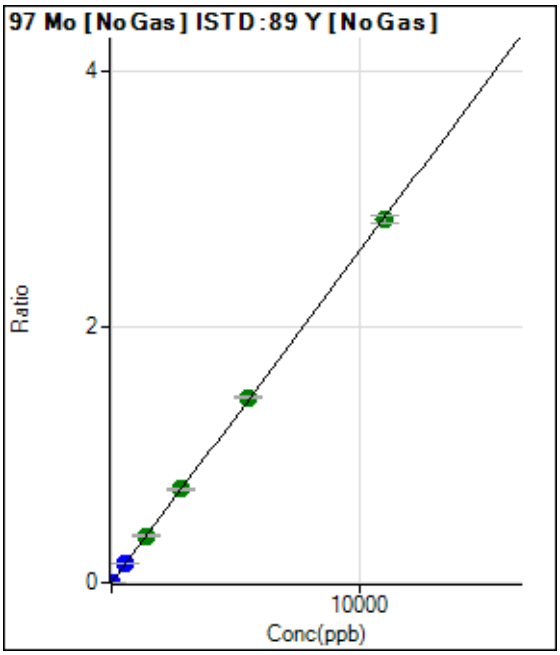
Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 33.33 | 0.0000 | P | 53.3 |
| 2 | ☐ | 5.000 | 5.141 | 11020.90 | 0.0023 | P | 3.5 |
| 3 | ☐ | 550.000 | 565.770 | 1196352.73 | 0.2563 | P | 0.9 |
| 4 | ☐ | 1375.000 | 1396.319 | 2953552.73 | 0.6325 | A | 0.9 |
| 5 | ☐ | 2750.000 | 2775.252 | 5764463.25 | 1.2571 | A | 0.7 |
| 6 | ☐ | 5500.000 | 5596.565 | 11523893.72 | 2.5351 | A | 2.0 |
| 7 | ☐ | 11000.000 | 10941.951 | 23439394.09 | 4.9564 | A | 1.6 |
| 8 | ☐ | | | 7840.47 | 0.0018 | P | 15.4 |

y = 4.5297E-004 * x + 7.1454E-006
R = 0.9999
DL = 0.02524
BEC = 0.01577

Weight: <None>
Min Conc: 0

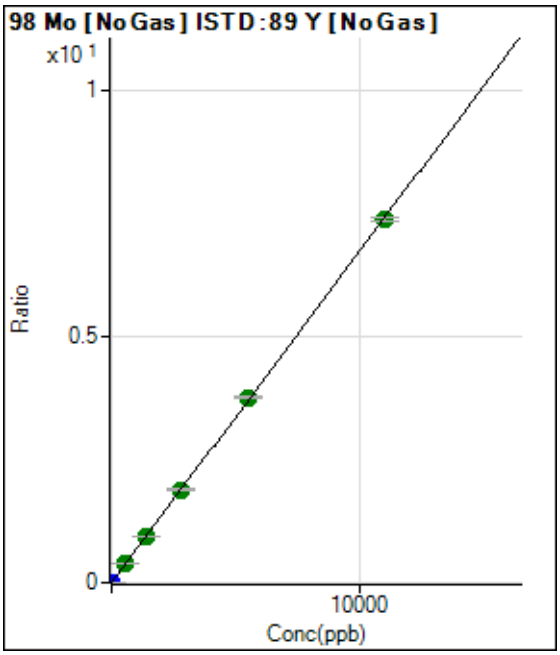



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 4.44 | 0.0000 | P | 114. |
| 2 | ☐ | 5.000 | 5.106 | 6249.17 | 0.0013 | P | 2.3 |
| 3 | ☐ | 550.000 | 573.728 | 694150.79 | 0.1487 | P | 1.0 |
| 4 | ☐ | 1375.000 | 1407.436 | 1703336.31 | 0.3648 | A | 2.3 |
| 5 | ☐ | 2750.000 | 2817.654 | 3348797.45 | 0.7303 | A | 0.8 |
| 6 | ☐ | 5500.000 | 5588.836 | 6584877.26 | 1.4485 | A | 1.9 |
| 7 | ☐ | 11000.000 | 10933.427 | 13400840.91 | 2.8338 | A | 2.2 |
| 8 | ☐ | | | 3352.10 | 0.0007 | P | 58.0 |

y = 2.5918E-004 * x + 9.5146E-007
R = 0.9999
DL = 0.0126
BEC = 0.003671

Weight: <None>
Min Conc: 0

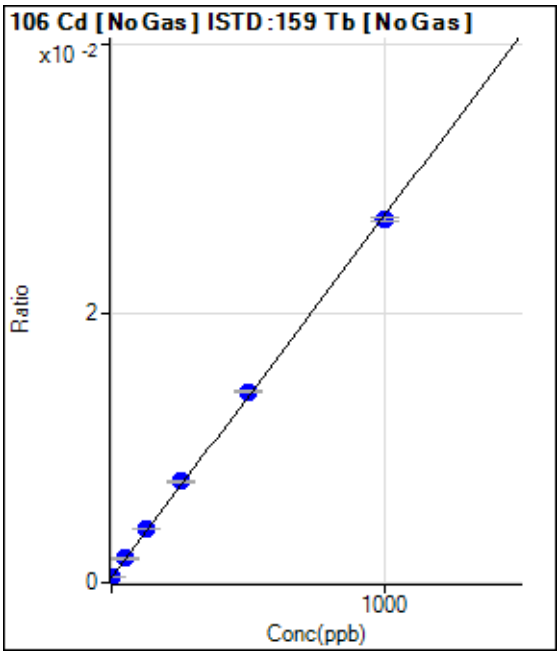
Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 24.44 | 0.0000 | P | 20.6 |
| 2 | ☐ | 5.000 | 5.098 | 16205.71 | 0.0034 | P | 0.7 |
| 3 | ☐ | 550.000 | 564.643 | 1772956.81 | 0.3798 | A | 1.8 |
| 4 | ☐ | 1375.000 | 1395.553 | 4383522.89 | 0.9388 | A | 1.8 |
| 5 | ☐ | 2750.000 | 2809.078 | 8664640.08 | 1.8896 | A | 0.9 |
| 6 | ☐ | 5500.000 | 5588.310 | 17089113.63 | 3.7591 | A | 1.7 |
| 7 | ☐ | 11000.000 | 10937.774 | 34796436.15 | 7.3575 | A | 0.9 |
| 8 | ☐ | | | 8605.85 | 0.0019 | P | 61.5 |

y = 6.7267E-004 * x + 5.2314E-006
R = 0.9999
DL = 0.004808
BEC = 0.007777

Weight: <None>
Min Conc: 0

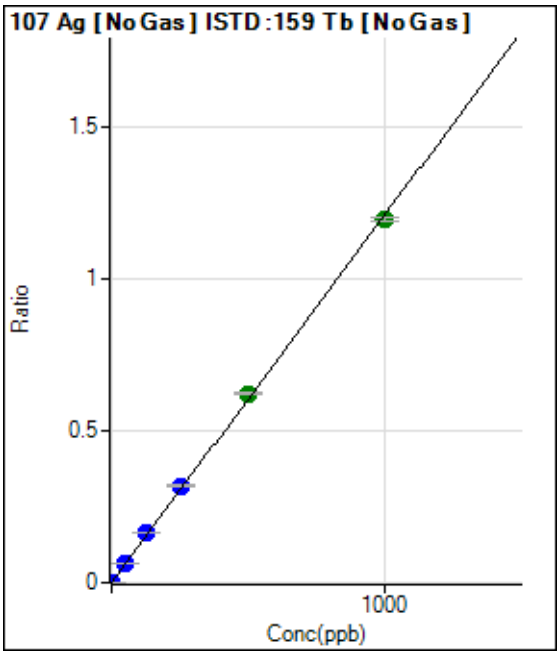



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1370.08 | 0.0004 | P | 2.5 |
| 2 | ☐ | 1.000 | 1.197 | 1507.87 | 0.0004 | P | 7.1 |
| 3 | ☐ | 50.000 | 53.052 | 6826.10 | 0.0018 | P | 1.6 |
| 4 | ☐ | 125.000 | 134.759 | 15248.11 | 0.0040 | P | 1.2 |
| 5 | ☐ | 250.000 | 265.317 | 28549.22 | 0.0075 | P | 0.2 |
| 6 | ☐ | 500.000 | 513.848 | 54835.19 | 0.0142 | P | 1.2 |
| 7 | ☐ | 1000.000 | 987.874 | 107903.65 | 0.0270 | P | 0.9 |
| 8 | ☐ | | | 1484.54 | 0.0004 | P | 5.7 |

y = 2.6960E-005 * x + 3.6677E-004
R = 0.9997
DL = 1.022
BEC = 13.6

Weight: <None>
Min Conc: 0

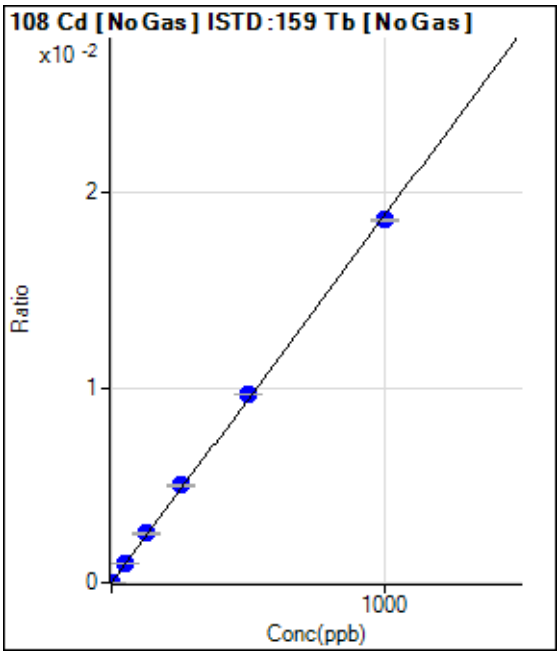
Reviewed By:Mohan
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LB :LB132993




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 26.67 | 0.0000 | P | 55.5 |
| 2 | ☐ | 1.000 | 1.002 | 4607.44 | 0.0012 | P | 0.8 |
| 3 | ☐ | 50.000 | 54.617 | 251186.04 | 0.0661 | P | 1.0 |
| 4 | ☐ | 125.000 | 133.965 | 618299.39 | 0.1622 | P | 0.4 |
| 5 | ☐ | 250.000 | 263.892 | 1212891.20 | 0.3195 | P | 1.1 |
| 6 | ☐ | 500.000 | 514.954 | 2404030.83 | 0.6234 | A | 0.7 |
| 7 | ☐ | 1000.000 | 987.699 | 4778714.06 | 1.1958 | A | 1.2 |
| 8 | ☐ | | | 1074.01 | 0.0003 | P | 74.3 |

y = 0.0012 * x + 7.1634E-006
R = 0.9997
DL = 0.00986
BEC = 0.005917

Weight: <None>
Min Conc: 0

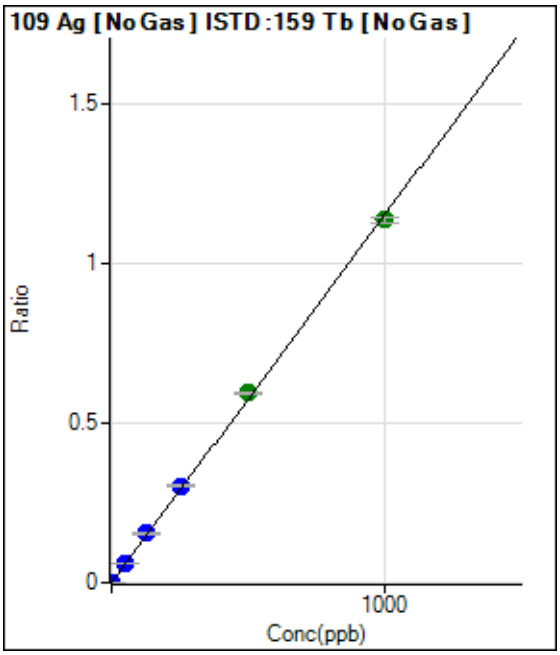



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 4.44 | 0.0000 | P | 114. |
| 2 | ☐ | 1.000 | 1.409 | 104.44 | 0.0000 | P | 12.5 |
| 3 | ☐ | 50.000 | 52.934 | 3786.09 | 0.0010 | P | 2.3 |
| 4 | ☐ | 125.000 | 135.123 | 9691.08 | 0.0025 | P | 3.7 |
| 5 | ☐ | 250.000 | 265.685 | 18976.92 | 0.0050 | P | 1.1 |
| 6 | ☐ | 500.000 | 512.275 | 37159.77 | 0.0096 | P | 0.3 |
| 7 | ☐ | 1000.000 | 988.529 | 74313.44 | 0.0186 | P | 0.3 |
| 8 | ☐ | | | 54.44 | 0.0000 | P | 24.8 |

y = 1.8809E-005 * x + 1.1829E-006
R = 0.9997
DL = 0.2163
BEC = 0.06289

Weight: <None>
Min Conc: 0

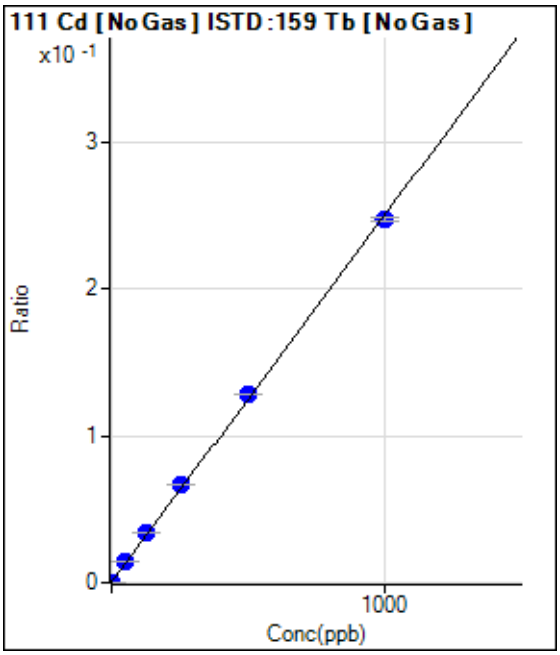
Reviewed By:Mohan
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LB :LB132993




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 12.22 | 0.0000 | P | 32.6 |
| 2 | ☐ | 1.000 | 1.060 | 4616.33 | 0.0012 | P | 1.4 |
| 3 | ☐ | 50.000 | 54.423 | 237790.28 | 0.0626 | P | 1.5 |
| 4 | ☐ | 125.000 | 133.911 | 587194.71 | 0.1540 | P | 0.8 |
| 5 | ☐ | 250.000 | 263.409 | 1150296.32 | 0.3030 | P | 0.9 |
| 6 | ☐ | 500.000 | 516.008 | 2288757.14 | 0.5935 | A | 1.3 |
| 7 | ☐ | 1000.000 | 987.309 | 4538527.81 | 1.1357 | A | 1.6 |
| 8 | ☐ | | | 771.29 | 0.0002 | P | 54.7 |

y = 0.0012 * x + 3.2787E-006
R = 0.9997
DL = 0.002787
BEC = 0.00285

Weight: <None>
Min Conc: 0

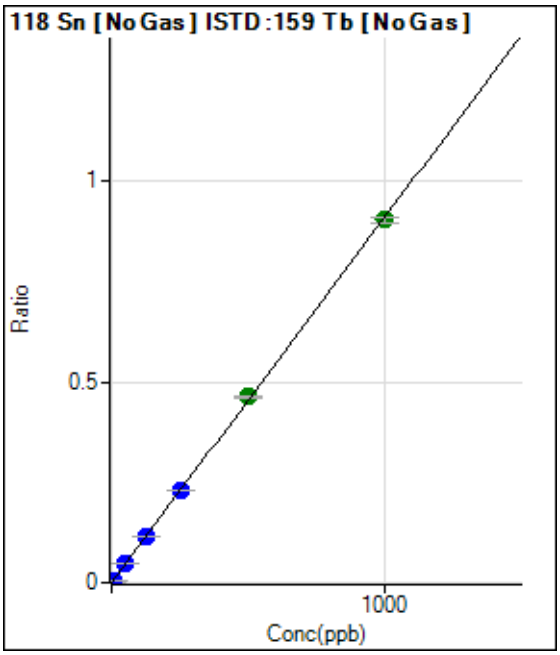



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 955.94 | 0.0003 | P | 2.6 |
| 2 | ☐ | 1.000 | 1.160 | 2062.45 | 0.0005 | P | 8.2 |
| 3 | ☐ | 50.000 | 54.600 | 52809.55 | 0.0139 | P | 1.8 |
| 4 | ☐ | 125.000 | 134.835 | 129455.98 | 0.0340 | P | 0.4 |
| 5 | ☐ | 250.000 | 266.941 | 254270.35 | 0.0670 | P | 1.4 |
| 6 | ☐ | 500.000 | 512.458 | 494926.21 | 0.1283 | P | 0.2 |
| 7 | ☐ | 1000.000 | 988.076 | 988031.65 | 0.2472 | P | 1.0 |
| 8 | ☐ | | | 1225.52 | 0.0003 | P | 10.0 |

y = 2.4995E-004 * x + 2.5591E-004
R = 0.9997
DL = 0.0791
BEC = 1.024

Weight: <None>
Min Conc: 0

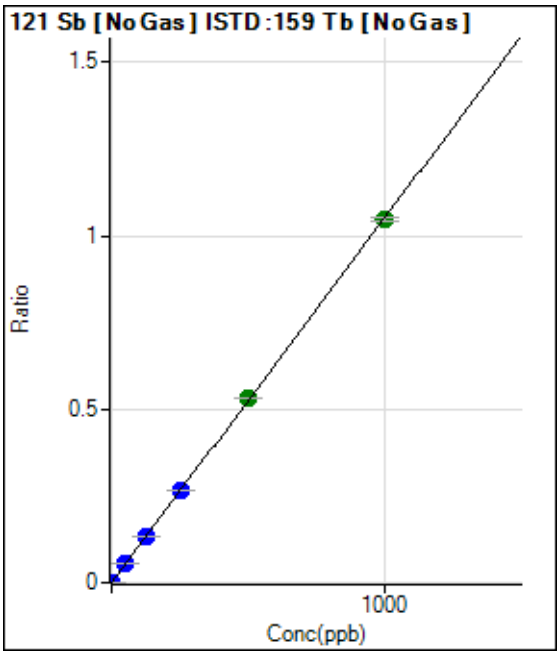
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LB :LB132993




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 785.60 | 0.0002 | P | 10.2 |
| 2 | ☐ | 5.000 | 5.009 | 17976.29 | 0.0048 | P | 1.9 |
| 3 | ☐ | 50.000 | 51.744 | 179349.84 | 0.0472 | P | 1.6 |
| 4 | ☐ | 125.000 | 128.255 | 444972.87 | 0.1167 | P | 0.6 |
| 5 | ☐ | 250.000 | 252.936 | 873175.46 | 0.2300 | P | 0.6 |
| 6 | ☐ | 500.000 | 510.075 | 1787720.87 | 0.4636 | A | 0.8 |
| 7 | ☐ | 1000.000 | 993.734 | 3608686.78 | 0.9030 | A | 1.4 |
| 8 | ☐ | | | 2052.32 | 0.0005 | P | 7.9 |

y = 9.0847E-004 * x + 2.1041E-004
R = 0.9999
DL = 0.07101
BEC = 0.2316

Weight: <None>
Min Conc: 0

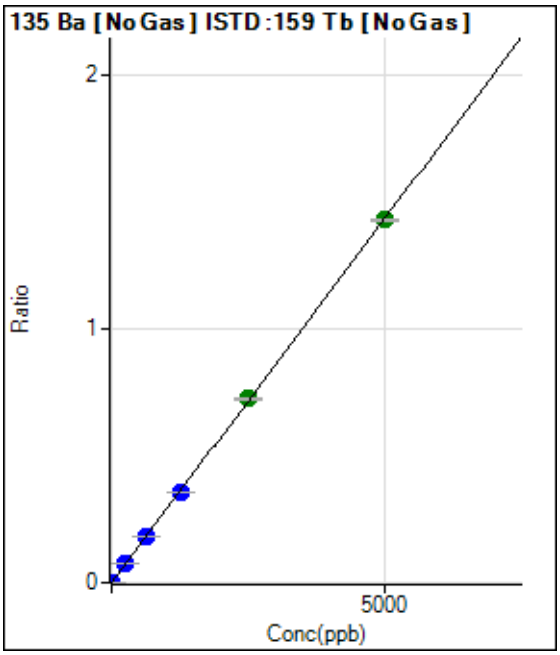



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 16.67 | 0.0000 | P | 52.4 |
| 2 | ☐ | 2.000 | 2.071 | 8233.53 | 0.0022 | P | 1.7 |
| 3 | ☐ | 50.000 | 51.126 | 204075.24 | 0.0537 | P | 1.0 |
| 4 | ☐ | 125.000 | 126.860 | 508165.75 | 0.1333 | P | 0.7 |
| 5 | ☐ | 250.000 | 254.219 | 1014128.41 | 0.2671 | P | 1.1 |
| 6 | ☐ | 500.000 | 506.433 | 2052063.28 | 0.5321 | A | 0.8 |
| 7 | ☐ | 1000.000 | 995.439 | 4180128.69 | 1.0460 | A | 1.0 |
| 8 | ☐ | | | 3139.32 | 0.0008 | P | 5.8 |

y = 0.0011 * x + 4.4463E-006
R = 1.0000
DL = 0.00665
BEC = 0.004232

Weight: <None>
Min Conc: 0

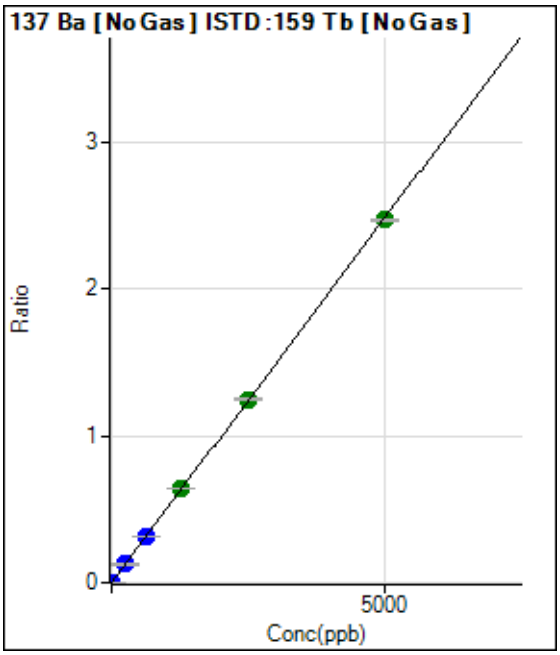
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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 15.56 | 0.0000 | P | 11.5 |
| 2 | ☐ | 10.000 | 9.625 | 10440.58 | 0.0028 | P | 1.0 |
| 3 | ☐ | 250.000 | 253.598 | 276286.02 | 0.0727 | P | 1.3 |
| 4 | ☐ | 625.000 | 625.739 | 684145.76 | 0.1795 | P | 0.9 |
| 5 | ☐ | 1250.000 | 1241.190 | 1351479.88 | 0.3560 | P | 0.7 |
| 6 | ☐ | 2500.000 | 2527.226 | 2795035.62 | 0.7248 | A | 0.7 |
| 7 | ☐ | 5000.000 | 4988.318 | 5717707.35 | 1.4307 | A | 0.7 |
| 8 | ☐ | | | 2222.52 | 0.0006 | P | 9.1 |

y = 2.8681E-004 * x + 4.1610E-006
R = 1.0000
DL = 0.005006
BEC = 0.01451

Weight: <None>
Min Conc: 0

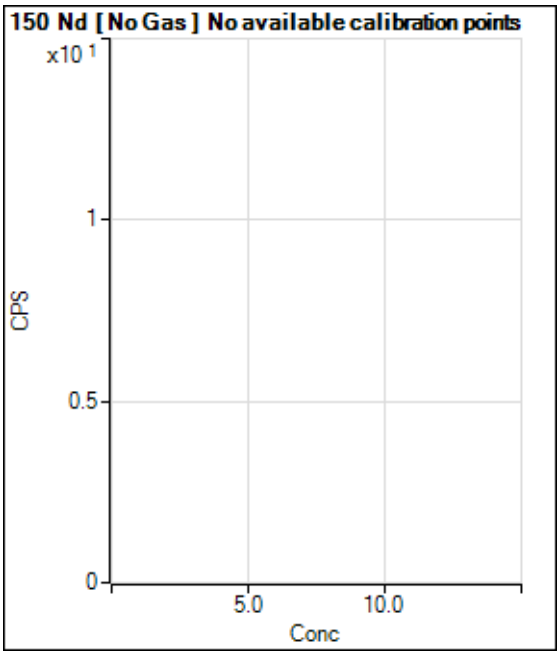



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 31.11 | 0.0000 | P | 16.2 |
| 2 | ☐ | 10.000 | 9.713 | 18245.12 | 0.0048 | P | 2.8 |
| 3 | ☐ | 250.000 | 251.741 | 474955.60 | 0.1250 | P | 1.2 |
| 4 | ☐ | 625.000 | 623.083 | 1179752.48 | 0.3095 | P | 0.6 |
| 5 | ☐ | 1250.000 | 1297.237 | 2446078.57 | 0.6443 | A | 0.7 |
| 6 | ☐ | 2500.000 | 2518.043 | 4822620.83 | 1.2506 | A | 1.1 |
| 7 | ☐ | 5000.000 | 4979.323 | 9883538.32 | 2.4731 | A | 0.9 |
| 8 | ☐ | | | 3721.73 | 0.0010 | P | 7.7 |

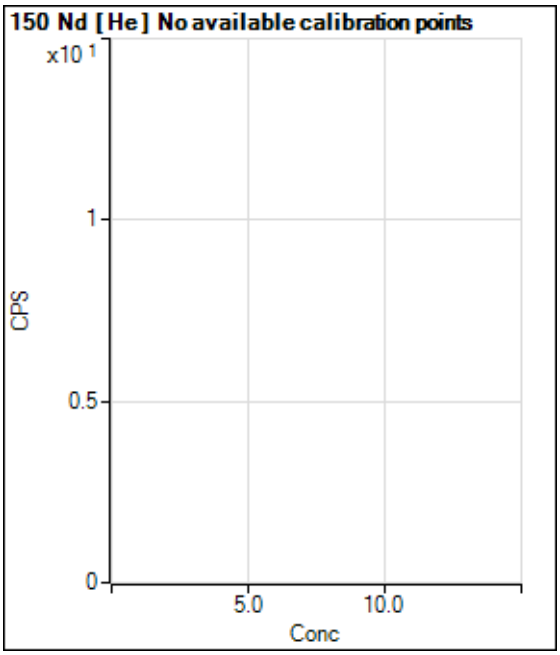
y = 4.9667E-004 * x + 8.3272E-006
R = 0.9999
DL = 0.008125
BEC = 0.01677

Weight: <None>
Min Conc: 0

Reviewed By:Mohan
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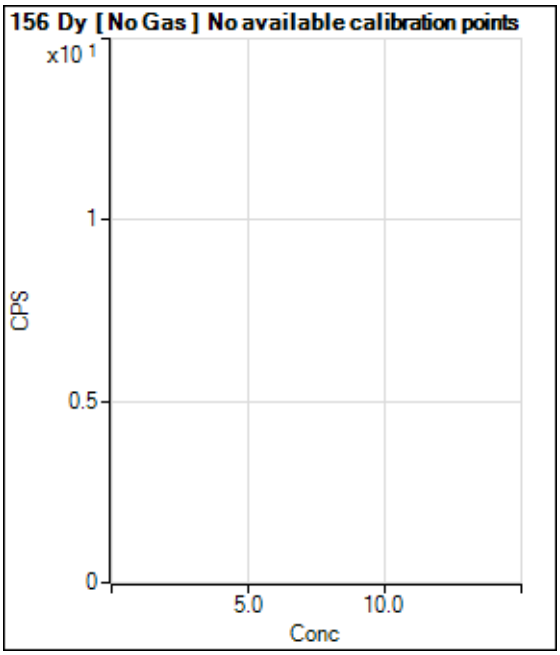



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 2.22 | | P | 86.6 |
| 2 | ☐ | | | 2.22 | | P | 86.6 |
| 3 | ☐ | | | 26.67 | | P | 54.5 |
| 4 | ☐ | | | 43.33 | | P | 20.3 |
| 5 | ☐ | | | 113.33 | | P | 15.6 |
| 6 | ☐ | | | 198.89 | | P | 5.1 |
| 7 | ☐ | | | 428.90 | | P | 10.1 |
| 8 | ☐ | | | 81.11 | | P | 18.5 |

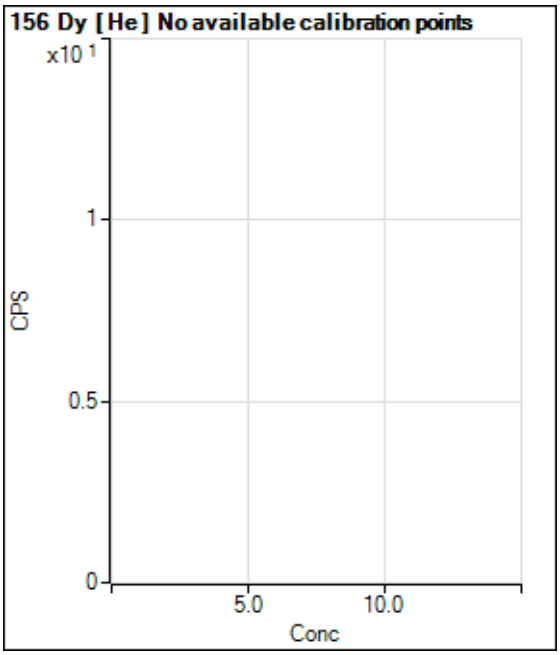



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 0.00 | | P | |
| 2 | ☐ | | | 1.11 | | P | 173. |
| 3 | ☐ | | | 7.78 | | P | 89.2 |
| 4 | ☐ | | | 12.22 | | P | 68.7 |
| 5 | ☐ | | | 22.22 | | P | 31.2 |
| 6 | ☐ | | | 36.67 | | P | 18.2 |
| 7 | ☐ | | | 87.78 | | P | 11.6 |
| 8 | ☐ | | | 45.56 | | P | 18.4 |

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Inst Id :P7
LB :LB132993

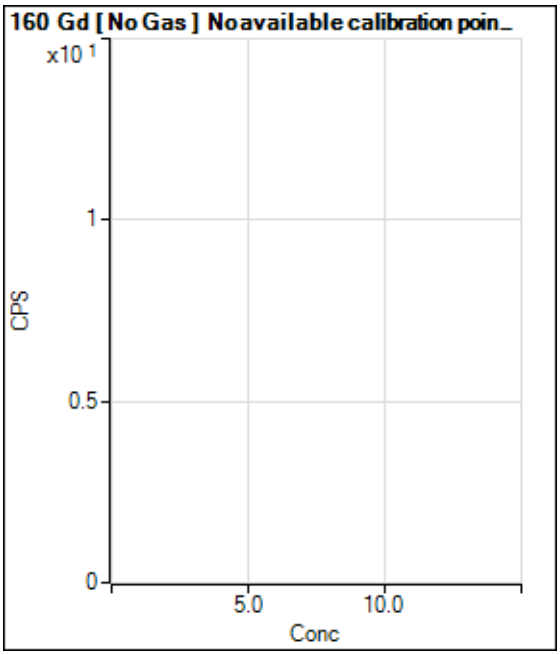



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 17.78 | | P | 65.8 |
| 2 | ☐ | | | 11.11 | | P | 96.4 |
| 3 | ☐ | | | 16.67 | | P | 52.9 |
| 4 | ☐ | | | 27.78 | | P | 84.3 |
| 5 | ☐ | | | 34.44 | | P | 29.6 |
| 6 | ☐ | | | 54.45 | | P | 12.7 |
| 7 | ☐ | | | 106.67 | | P | 10.8 |
| 8 | ☐ | | | 173.34 | | P | 6.9 |

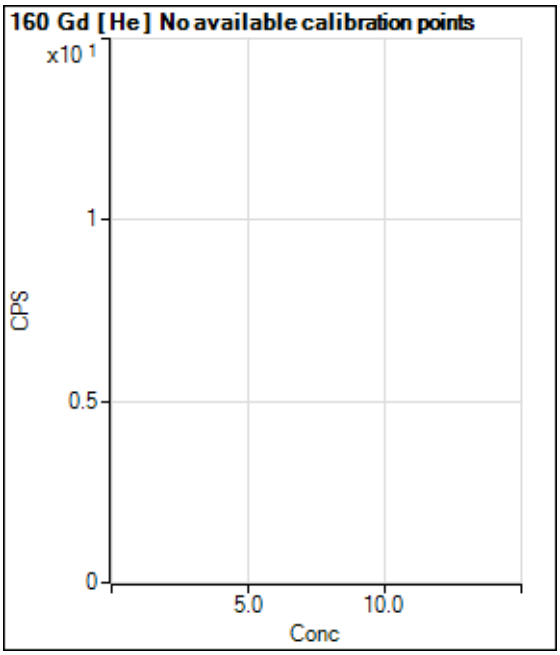



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 4.44 | | P | 114. |
| 2 | ☐ | | | 2.22 | | P | 86.6 |
| 3 | ☐ | | | 21.11 | | P | 36.5 |
| 4 | ☐ | | | 34.44 | | P | 43.6 |
| 5 | ☐ | | | 65.56 | | P | 21.2 |
| 6 | ☐ | | | 114.45 | | P | 40.9 |
| 7 | ☐ | | | 246.67 | | P | 17.7 |
| 8 | ☐ | | | 130.00 | | P | 4.4 |

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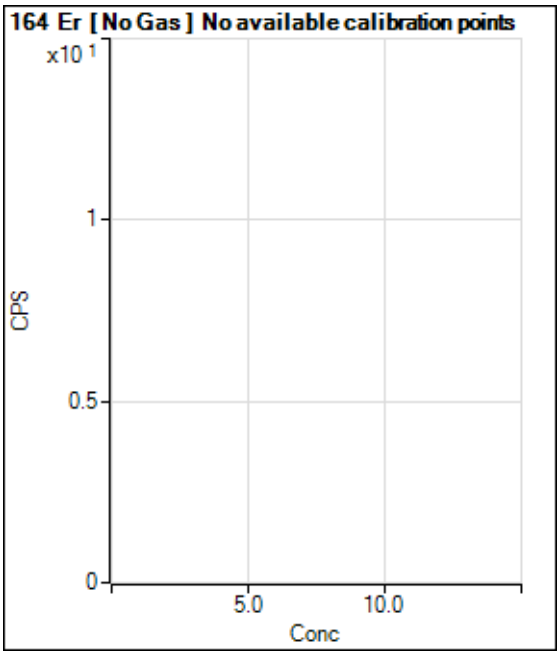



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 14.44 | | P | 13.4 |
| 2 | ☐ | | | 13.33 | | P | 86.6 |
| 3 | ☐ | | | 14.44 | | P | 66.6 |
| 4 | ☐ | | | 20.00 | | P | 44.1 |
| 5 | ☐ | | | 20.00 | | P | 33.4 |
| 6 | ☐ | | | 23.33 | | P | 14.3 |
| 7 | ☐ | | | 45.56 | | P | 11.2 |
| 8 | ☐ | | | 141.11 | | P | 7.2 |

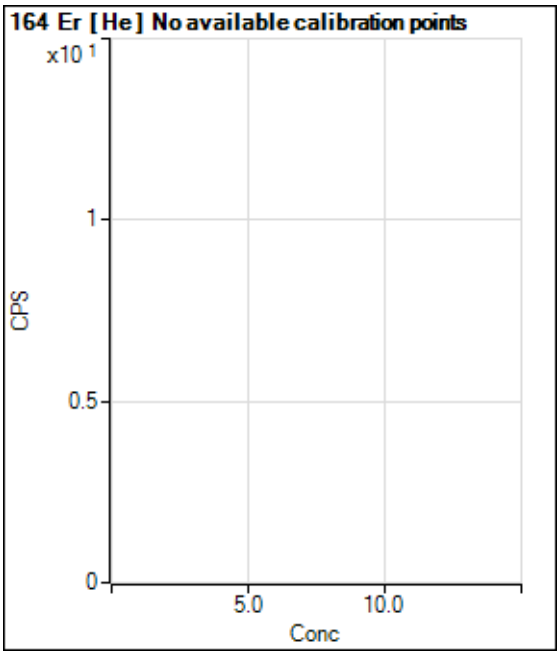



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 107.78 | | P | 17.0 |
| 2 | ☐ | | | 116.67 | | P | 12.5 |
| 3 | ☐ | | | 120.00 | | P | 22.0 |
| 4 | ☐ | | | 101.11 | | P | 8.3 |
| 5 | ☐ | | | 116.67 | | P | 24.9 |
| 6 | ☐ | | | 118.89 | | P | 10.6 |
| 7 | ☐ | | | 163.34 | | P | 18.1 |
| 8 | ☐ | | | 195.56 | | P | 14.3 |

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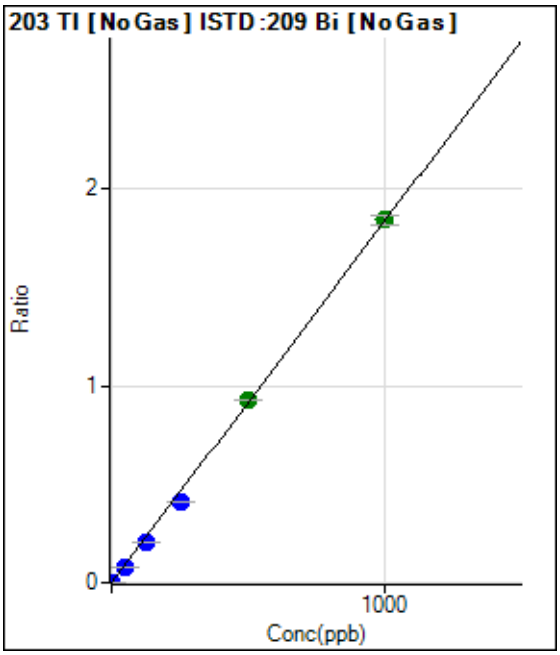



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 11.11 | | P | 34.6 |
| 2 | ☐ | | | 8.89 | | P | 21.6 |
| 3 | ☐ | | | 22.22 | | P | 37.8 |
| 4 | ☐ | | | 30.00 | | P | 22.2 |
| 5 | ☐ | | | 24.44 | | P | 20.8 |
| 6 | ☐ | | | 30.00 | | P | 48.4 |
| 7 | ☐ | | | 63.33 | | P | 22.9 |
| 8 | ☐ | | | 157.78 | | P | 24.8 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 5.55 | | P | 124. |
| 2 | ☐ | | | 11.11 | | P | 17.3 |
| 3 | ☐ | | | 12.22 | | P | 56.8 |
| 4 | ☐ | | | 14.44 | | P | 35.3 |
| 5 | ☐ | | | 20.00 | | P | 33.4 |
| 6 | ☐ | | | 17.78 | | P | 60.3 |
| 7 | ☐ | | | 30.00 | | P | 0.0 |
| 8 | ☐ | | | 148.89 | | P | 12.3 |

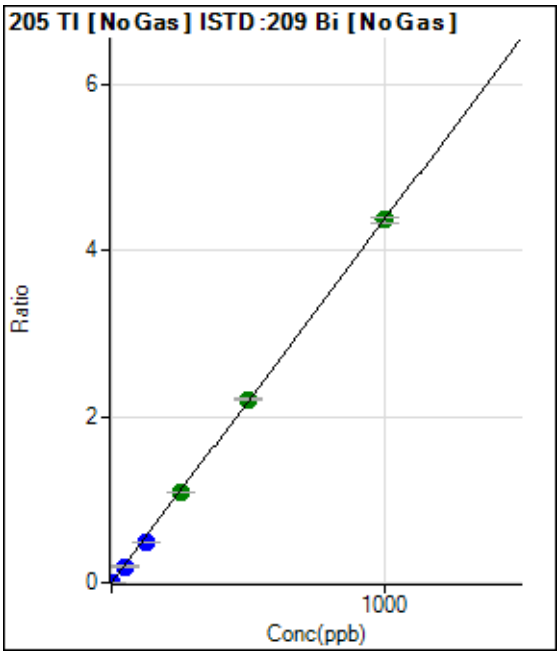
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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 7.78 | 0.0000 | P | 89.1 |
| 2 | ☐ | 1.000 | 0.886 | 3734.99 | 0.0016 | P | 2.3 |
| 3 | ☐ | 50.000 | 45.096 | 191353.16 | 0.0826 | P | 0.3 |
| 4 | ☐ | 125.000 | 112.792 | 481387.13 | 0.2066 | P | 0.8 |
| 5 | ☐ | 250.000 | 225.364 | 959546.26 | 0.4128 | P | 0.8 |
| 6 | ☐ | 500.000 | 506.146 | 2140505.47 | 0.9272 | A | 0.9 |
| 7 | ☐ | 1000.000 | 1004.857 | 4389842.30 | 1.8407 | A | 2.3 |
| 8 | ☐ | | | 464.46 | 0.0002 | P | 12.7 |

y = 0.0018 * x + 3.3781E-006
R = 0.9996
DL = 0.004928
BEC = 0.001844

Weight: <None>
Min Conc: 0

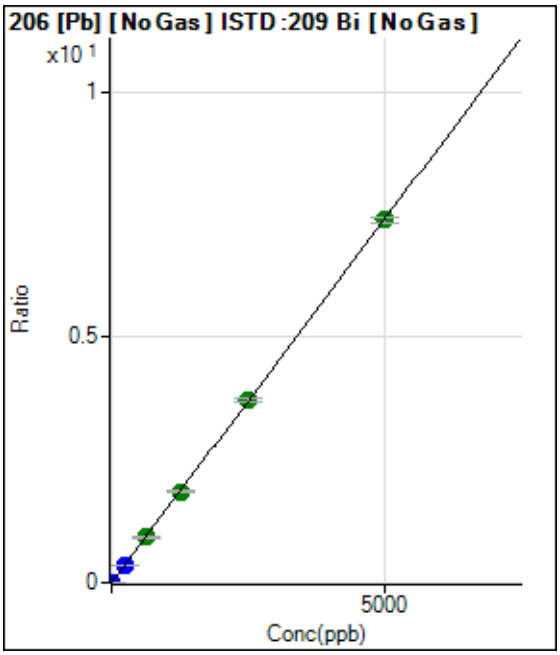



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 31.11 | 0.0000 | P | 31.1 |
| 2 | ☐ | 1.000 | 0.882 | 8884.09 | 0.0039 | P | 3.8 |
| 3 | ☐ | 50.000 | 44.904 | 454664.07 | 0.1963 | P | 0.6 |
| 4 | ☐ | 125.000 | 112.543 | 1146106.99 | 0.4919 | P | 0.8 |
| 5 | ☐ | 250.000 | 249.251 | 2532338.26 | 1.0895 | A | 1.0 |
| 6 | ☐ | 500.000 | 505.387 | 5099741.42 | 2.2090 | A | 1.5 |
| 7 | ☐ | 1000.000 | 999.306 | 10417435.68 | 4.3679 | A | 1.9 |
| 8 | ☐ | | | 1143.44 | 0.0006 | P | 18.6 |

y = 0.0044 * x + 1.3510E-005
R = 0.9999
DL = 0.002883
BEC = 0.003091

Weight: <None>
Min Conc: 0

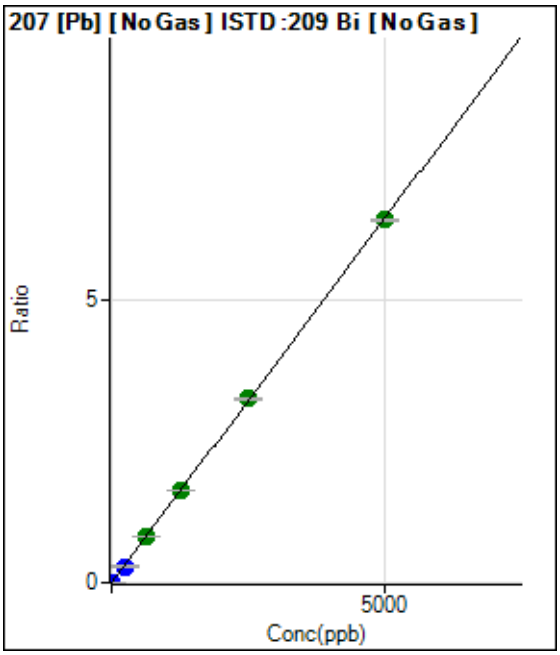
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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 92.22 | 0.0000 | P | 4.6 |
| 2 | ☐ | 1.000 | 0.890 | 3118.17 | 0.0014 | P | 2.1 |
| 3 | ☐ | 250.000 | 227.247 | 779160.68 | 0.3364 | P | 0.3 |
| 4 | ☐ | 625.000 | 622.874 | 2147936.10 | 0.9219 | A | 0.3 |
| 5 | ☐ | 1250.000 | 1251.830 | 4306510.94 | 1.8528 | A | 1.2 |
| 6 | ☐ | 2500.000 | 2516.097 | 8596777.30 | 3.7239 | A | 2.0 |
| 7 | ☐ | 5000.000 | 4992.897 | 17624968.21 | 7.3897 | A | 1.6 |
| 8 | ☐ | | | 3178.23 | 0.0015 | P | 11.9 |

y = 0.0015 * x + 4.0032E-005
R = 1.0000
DL = 0.003764
BEC = 0.02705

Weight: <None>
Min Conc: 0

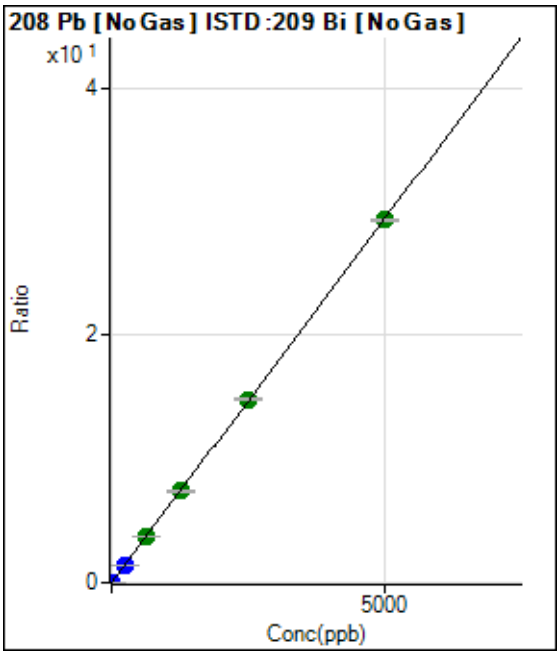



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 94.45 | 0.0000 | P | 22.6 |
| 2 | ☐ | 1.000 | 0.906 | 2779.20 | 0.0012 | P | 4.4 |
| 3 | ☐ | 250.000 | 224.377 | 671291.26 | 0.2898 | P | 0.9 |
| 4 | ☐ | 625.000 | 627.170 | 1887153.60 | 0.8100 | A | 2.0 |
| 5 | ☐ | 1250.000 | 1269.041 | 3809552.79 | 1.6390 | A | 0.9 |
| 6 | ☐ | 2500.000 | 2525.522 | 7529696.76 | 3.2616 | A | 1.4 |
| 7 | ☐ | 5000.000 | 4983.488 | 15351119.63 | 6.4360 | A | 0.8 |
| 8 | ☐ | | | 2827.01 | 0.0014 | P | 5.5 |

y = 0.0013 * x + 4.1007E-005
R = 1.0000
DL = 0.02155
BEC = 0.03175

Weight: <None>
Min Conc: 0

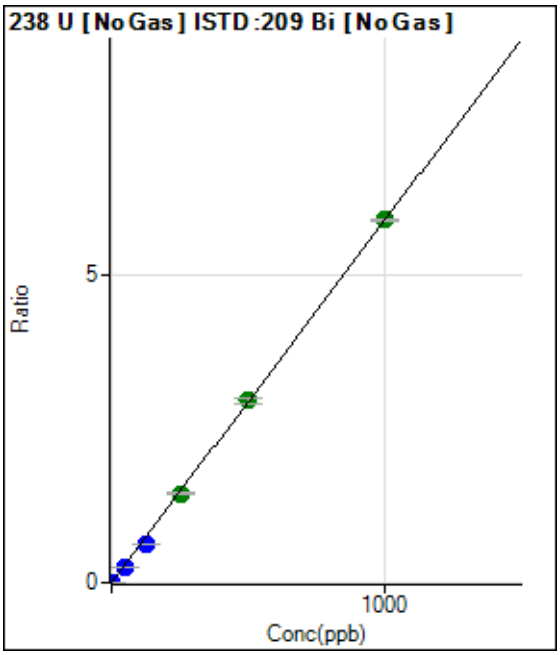
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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 395.56 | 0.0002 | P | 10.2 |
| 2 | ☐ | 1.000 | 0.907 | 12655.77 | 0.0055 | P | 0.5 |
| 3 | ☐ | 250.000 | 226.879 | 3092851.26 | 1.3352 | P | 0.7 |
| 4 | ☐ | 625.000 | 627.775 | 8607225.22 | 3.6943 | A | 0.8 |
| 5 | ☐ | 1250.000 | 1258.357 | 17211962.83 | 7.4050 | A | 0.9 |
| 6 | ☐ | 2500.000 | 2519.250 | 34224577.82 | 14.8248 | A | 1.2 |
| 7 | ☐ | 5000.000 | 4989.095 | 70027415.35 | 29.3587 | A | 0.7 |
| 8 | ☐ | | | 12580.39 | 0.0061 | P | 8.2 |

y = 0.0059 * x + 1.7169E-004
R = 1.0000
DL = 0.008931
BEC = 0.02918

Weight: <None>
Min Conc: 0

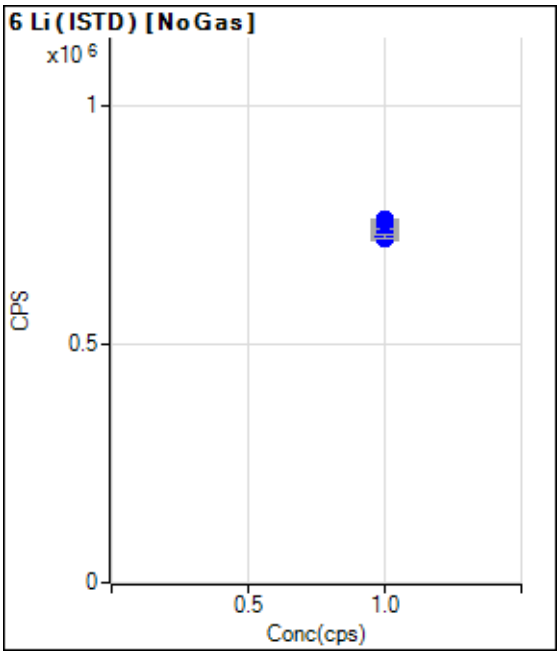



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 5.56 | 0.0000 | P | 34.9 |
| 2 | ☐ | 1.000 | 0.831 | 11250.40 | 0.0049 | P | 1.9 |
| 3 | ☐ | 50.000 | 42.759 | 583659.93 | 0.2520 | P | 0.5 |
| 4 | ☐ | 125.000 | 107.873 | 1481071.24 | 0.6357 | P | 0.4 |
| 5 | ☐ | 250.000 | 246.482 | 3376055.02 | 1.4525 | A | 1.3 |
| 6 | ☐ | 500.000 | 502.857 | 6841336.22 | 2.9633 | A | 2.6 |
| 7 | ☐ | 1000.000 | 1001.954 | 14082997.15 | 5.9044 | A | 0.8 |
| 8 | ☐ | | | 727.83 | 0.0004 | P | 19.9 |

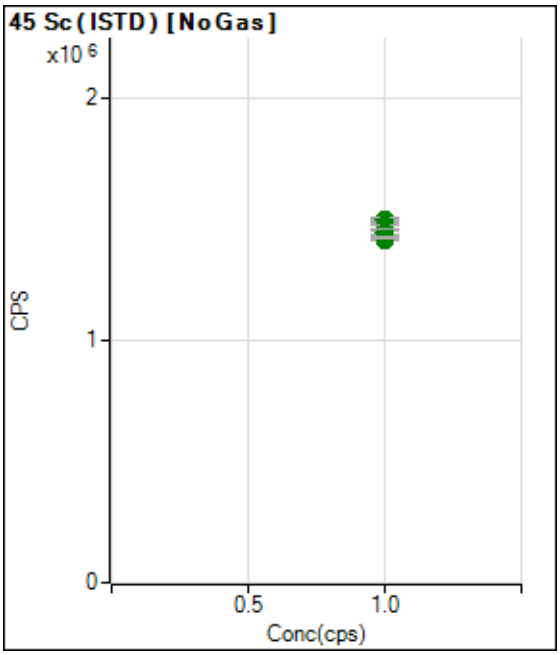
y = 0.0059 * x + 2.4131E-006
R = 0.9999
DL = 0.0004285
BEC = 0.0004095

Weight: <None>
Min Conc: 0

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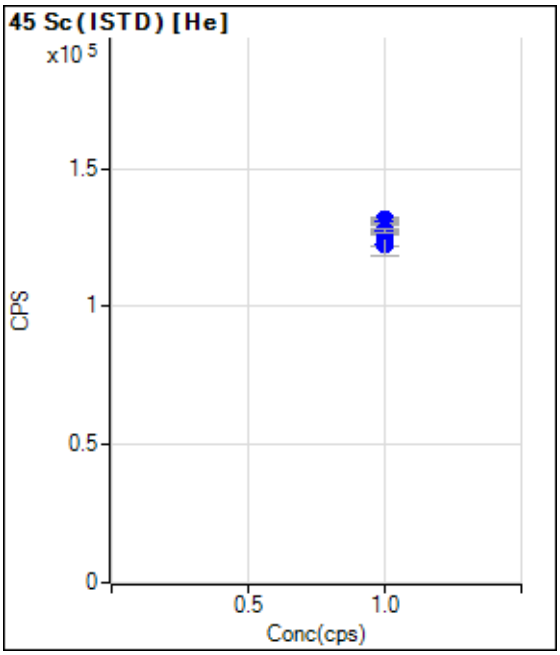



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 750434.34 | | P | 0.5 |
| 2 | ☐ | 1.000 | | 759616.26 | | P | 0.3 |
| 3 | ☐ | 1.000 | | 758146.58 | | P | 0.1 |
| 4 | ☐ | 1.000 | | 748500.47 | | P | 0.6 |
| 5 | ☐ | 1.000 | | 733110.07 | | P | 0.6 |
| 6 | ☐ | 1.000 | | 720868.52 | | P | 1.2 |
| 7 | ☐ | 1.000 | | 740469.87 | | P | 0.4 |
| 8 | ☐ | 1.000 | | 725341.85 | | P | 1.2 |

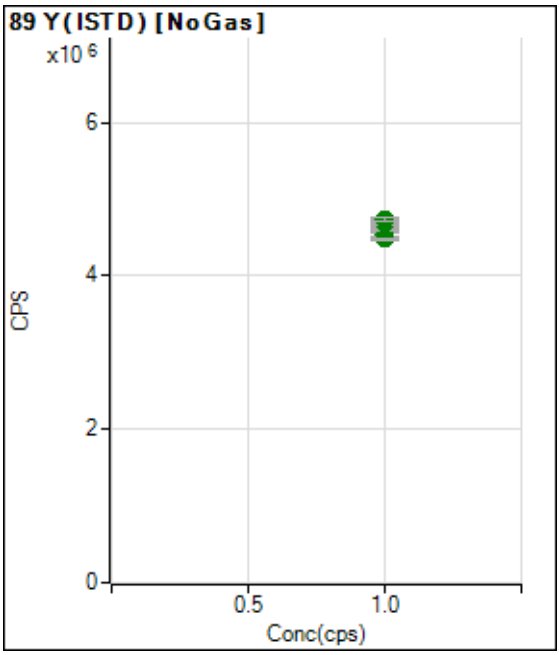



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 1470388.34 | | A | 0.1 |
| 2 | ☐ | 1.000 | | 1493975.88 | | A | 0.6 |
| 3 | ☐ | 1.000 | | 1494643.03 | | A | 1.5 |
| 4 | ☐ | 1.000 | | 1471522.93 | | A | 0.1 |
| 5 | ☐ | 1.000 | | 1444663.19 | | A | 1.0 |
| 6 | ☐ | 1.000 | | 1411954.63 | | A | 0.2 |
| 7 | ☐ | 1.000 | | 1442525.41 | | A | 2.3 |
| 8 | ☐ | 1.000 | | 1421819.65 | | A | 0.3 |

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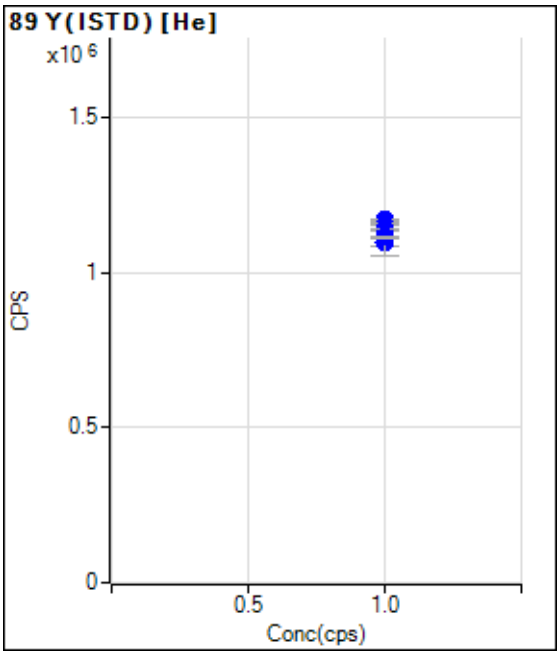



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 125813.12 | | P | 5.6 |
| 2 | ☐ | 1.000 | | 131447.29 | | P | 1.0 |
| 3 | ☐ | 1.000 | | 131035.73 | | P | 1.1 |
| 4 | ☐ | 1.000 | | 129633.07 | | P | 0.5 |
| 5 | ☐ | 1.000 | | 126672.69 | | P | 0.9 |
| 6 | ☐ | 1.000 | | 126376.63 | | P | 0.3 |
| 7 | ☐ | 1.000 | | 122356.25 | | P | 6.7 |
| 8 | ☐ | 1.000 | | 127653.13 | | P | 1.3 |

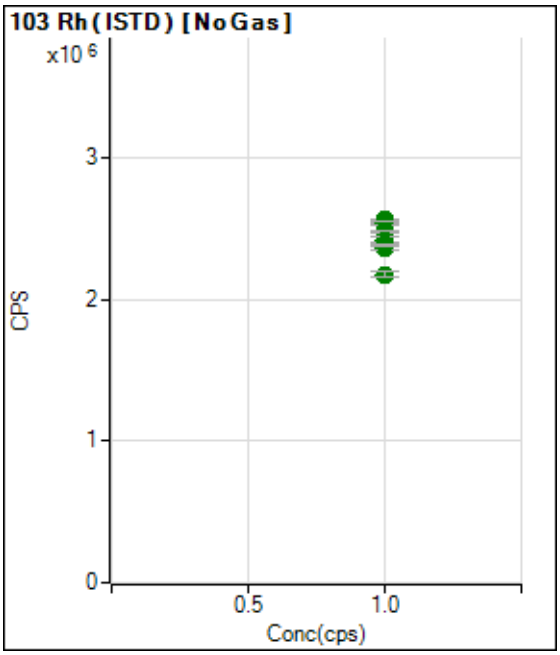



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 4671245.63 | | A | 0.4 |
| 2 | ☐ | 1.000 | | 4718380.17 | | A | 0.3 |
| 3 | ☐ | 1.000 | | 4668338.47 | | A | 0.9 |
| 4 | ☐ | 1.000 | | 4669860.04 | | A | 0.7 |
| 5 | ☐ | 1.000 | | 4585643.85 | | A | 0.7 |
| 6 | ☐ | 1.000 | | 4546535.38 | | A | 1.3 |
| 7 | ☐ | 1.000 | | 4729585.03 | | A | 0.9 |
| 8 | ☐ | 1.000 | | 4479474.38 | | A | 0.2 |

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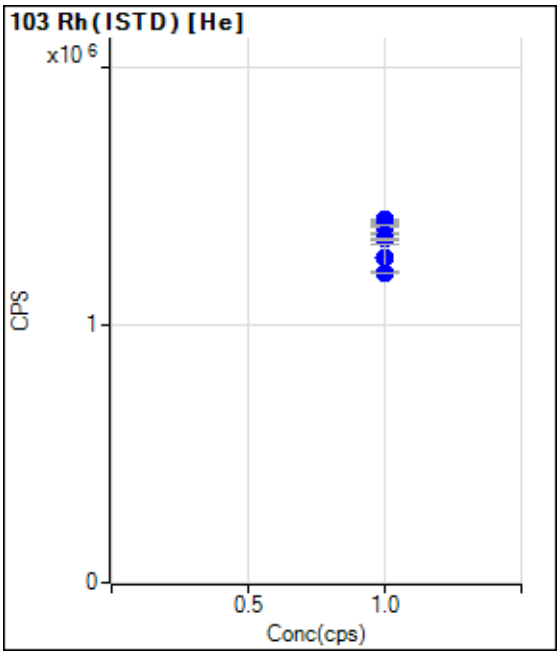



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 1119533.27 | | P | 6.0 |
| 2 | ☐ | 1.000 | | 1163861.48 | | P | 0.3 |
| 3 | ☐ | 1.000 | | 1170809.35 | | P | 0.1 |
| 4 | ☐ | 1.000 | | 1157254.86 | | P | 0.9 |
| 5 | ☐ | 1.000 | | 1136381.89 | | P | 0.6 |
| 6 | ☐ | 1.000 | | 1142229.29 | | P | 0.5 |
| 7 | ☐ | 1.000 | | 1096509.66 | | P | 7.8 |
| 8 | ☐ | 1.000 | | 1115039.65 | | P | 0.4 |

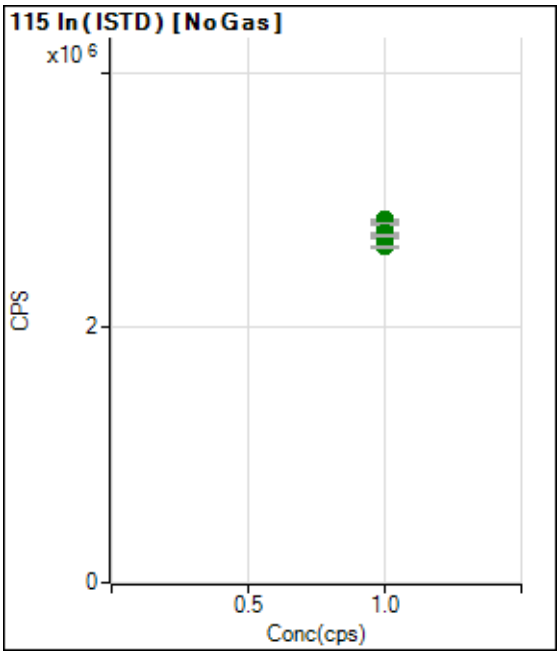



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 2527877.70 | | A | 0.6 |
| 2 | ☐ | 1.000 | | 2559113.66 | | A | 0.5 |
| 3 | ☐ | 1.000 | | 2535451.32 | | A | 1.0 |
| 4 | ☐ | 1.000 | | 2478506.09 | | A | 0.3 |
| 5 | ☐ | 1.000 | | 2416934.84 | | A | 1.6 |
| 6 | ☐ | 1.000 | | 2360428.24 | | A | 0.7 |
| 7 | ☐ | 1.000 | | 2381616.75 | | A | 0.7 |
| 8 | ☐ | 1.000 | | 2176818.77 | | A | 1.4 |

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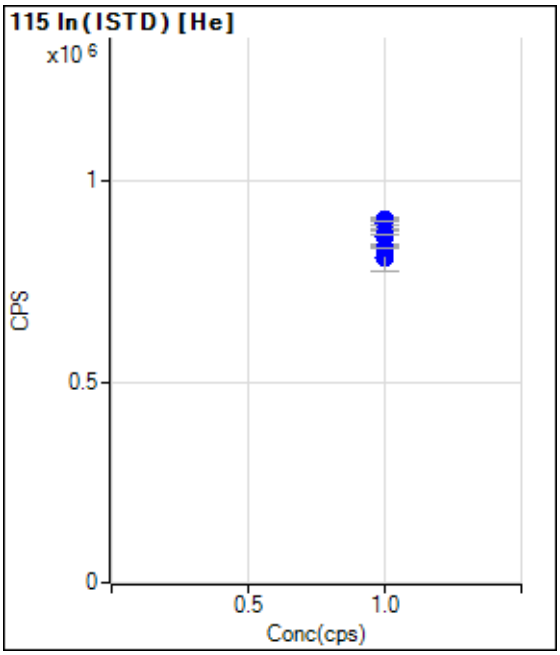



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 1349949.43 | | P | 5.6 |
| 2 | ☐ | 1.000 | | 1409222.26 | | P | 0.3 |
| 3 | ☐ | 1.000 | | 1400947.69 | | P | 0.5 |
| 4 | ☐ | 1.000 | | 1386413.33 | | P | 0.7 |
| 5 | ☐ | 1.000 | | 1354501.35 | | P | 0.5 |
| 6 | ☐ | 1.000 | | 1334894.37 | | P | 0.4 |
| 7 | ☐ | 1.000 | | 1262800.10 | | P | 7.9 |
| 8 | ☐ | 1.000 | | 1201791.76 | | P | 0.3 |

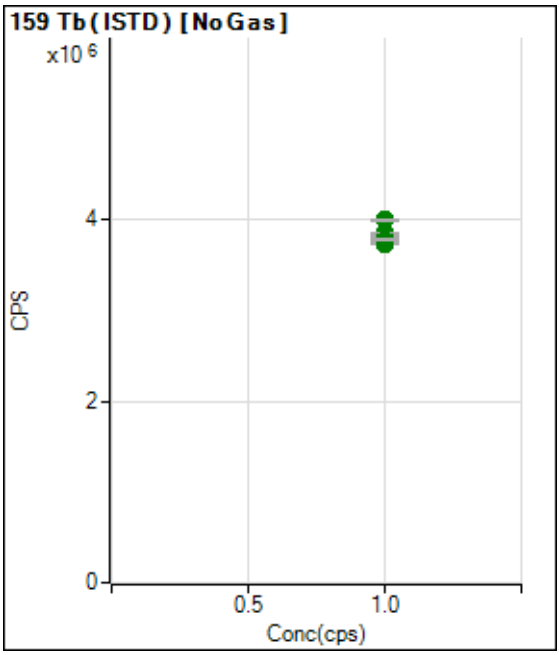



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 2830407.65 | | A | 0.8 |
| 2 | ☐ | 1.000 | | 2845071.79 | | A | 0.7 |
| 3 | ☐ | 1.000 | | 2844637.28 | | A | 0.5 |
| 4 | ☐ | 1.000 | | 2817794.56 | | A | 0.6 |
| 5 | ☐ | 1.000 | | 2750969.74 | | A | 0.1 |
| 6 | ☐ | 1.000 | | 2704820.96 | | A | 0.8 |
| 7 | ☐ | 1.000 | | 2720284.72 | | A | 0.6 |
| 8 | ☐ | 1.000 | | 2633927.46 | | A | 0.8 |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

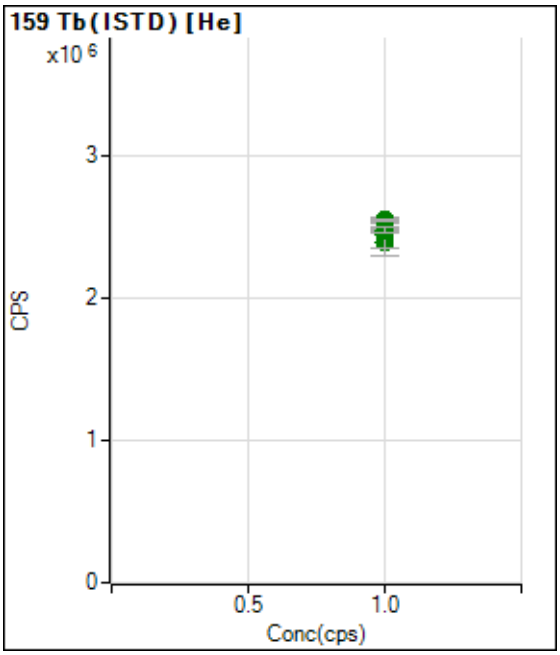



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 864491.72 | | P | 6.1 |
| 2 | ☐ | 1.000 | | 904132.05 | | P | 0.9 |
| 3 | ☐ | 1.000 | | 904085.62 | | P | 0.6 |
| 4 | ☐ | 1.000 | | 896438.73 | | P | 0.8 |
| 5 | ☐ | 1.000 | | 877633.11 | | P | 0.7 |
| 6 | ☐ | 1.000 | | 867276.03 | | P | 0.3 |
| 7 | ☐ | 1.000 | | 810212.15 | | P | 7.9 |
| 8 | ☐ | 1.000 | | 834723.94 | | P | 0.2 |

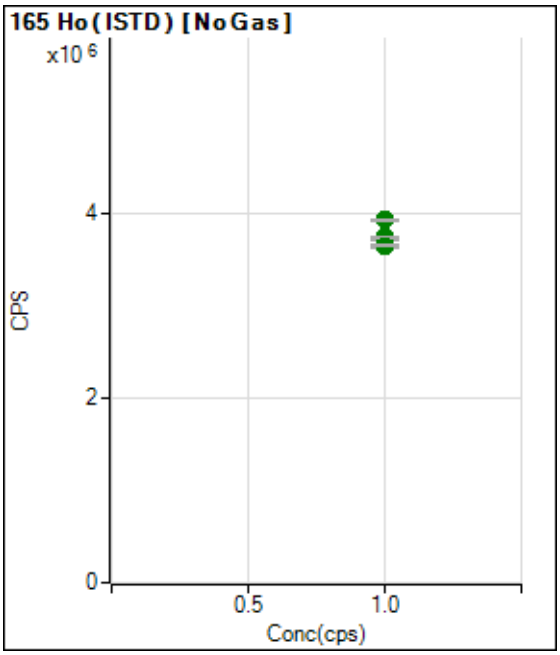



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 3735959.53 | | A | 1.0 |
| 2 | ☐ | 1.000 | | 3776298.73 | | A | 1.3 |
| 3 | ☐ | 1.000 | | 3798643.31 | | A | 0.8 |
| 4 | ☐ | 1.000 | | 3812281.75 | | A | 1.0 |
| 5 | ☐ | 1.000 | | 3796628.00 | | A | 0.9 |
| 6 | ☐ | 1.000 | | 3856188.62 | | A | 0.3 |
| 7 | ☐ | 1.000 | | 3996565.50 | | A | 0.5 |
| 8 | ☐ | 1.000 | | 3779684.80 | | A | 0.7 |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

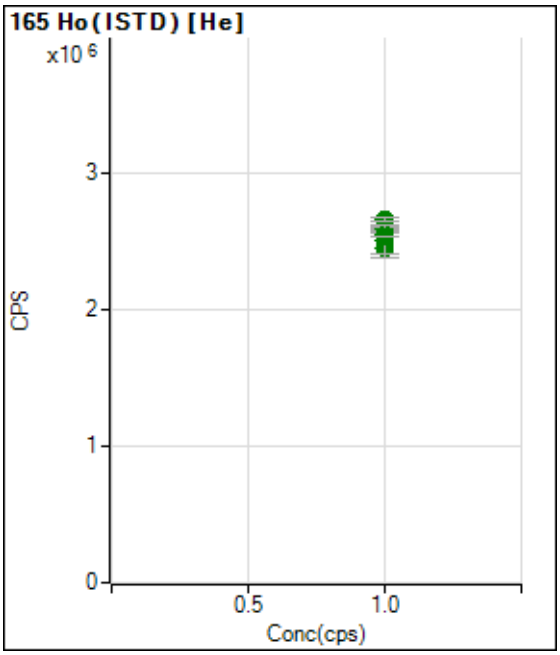



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 2389415.50 | | A | 7.1 |
| 2 | ☐ | 1.000 | | 2497662.24 | | A | 0.8 |
| 3 | ☐ | 1.000 | | 2538620.59 | | A | 1.0 |
| 4 | ☐ | 1.000 | | 2536209.36 | | A | 2.1 |
| 5 | ☐ | 1.000 | | 2553517.57 | | A | 1.9 |
| 6 | ☐ | 1.000 | | 2548986.06 | | A | 0.7 |
| 7 | ☐ | 1.000 | | 2451125.87 | | A | 7.8 |
| 8 | ☐ | 1.000 | | 2483402.15 | | A | 1.9 |

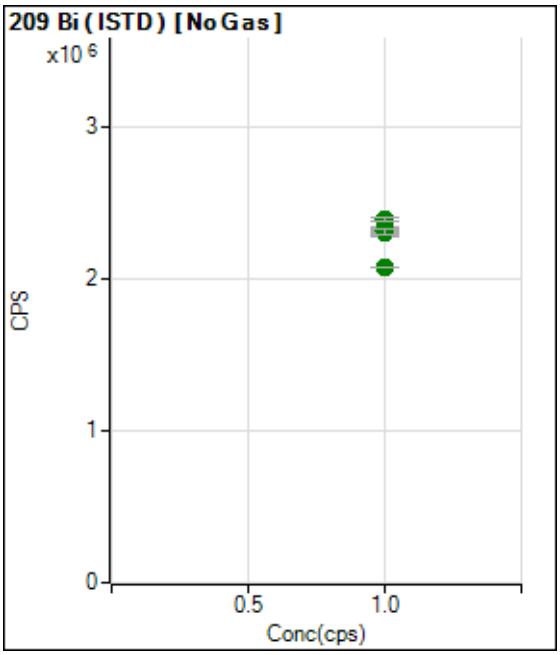



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 3646090.95 | | A | 0.4 |
| 2 | ☐ | 1.000 | | 3668744.18 | | A | 0.7 |
| 3 | ☐ | 1.000 | | 3732262.10 | | A | 0.9 |
| 4 | ☐ | 1.000 | | 3722323.90 | | A | 0.7 |
| 5 | ☐ | 1.000 | | 3730679.91 | | A | 0.4 |
| 6 | ☐ | 1.000 | | 3751553.83 | | A | 0.8 |
| 7 | ☐ | 1.000 | | 3938206.05 | | A | 0.7 |
| 8 | ☐ | 1.000 | | 3660413.66 | | A | 0.6 |

Reviewed By:Mohan
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Inst Id :P7
LB :LB132993

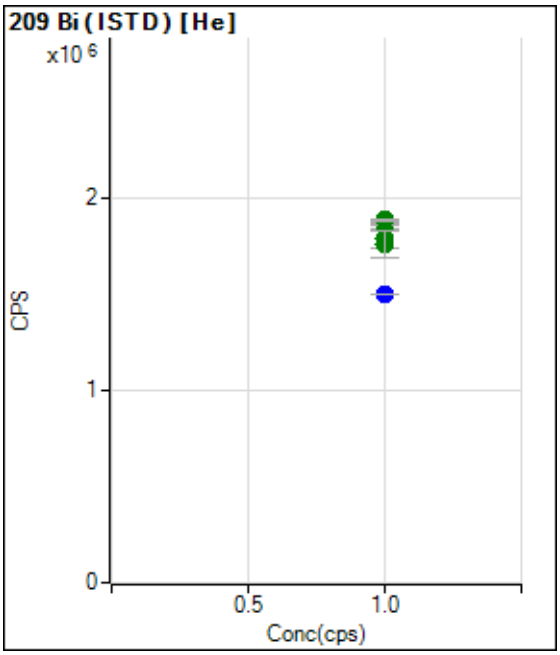



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 2452224.79 | | A | 6.3 |
| 2 | ☐ | 1.000 | | 2544757.97 | | A | 1.0 |
| 3 | ☐ | 1.000 | | 2588456.74 | | A | 1.3 |
| 4 | ☐ | 1.000 | | 2577959.33 | | A | 0.4 |
| 5 | ☐ | 1.000 | | 2584057.01 | | A | 1.3 |
| 6 | ☐ | 1.000 | | 2654504.42 | | A | 1.2 |
| 7 | ☐ | 1.000 | | 2510092.95 | | A | 8.6 |
| 8 | ☐ | 1.000 | | 2535541.09 | | A | 0.3 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 2304045.42 | | A | 0.5 |
| 2 | ☐ | 1.000 | | 2296457.66 | | A | 1.4 |
| 3 | ☐ | 1.000 | | 2316398.44 | | A | 0.8 |
| 4 | ☐ | 1.000 | | 2329899.39 | | A | 0.9 |
| 5 | ☐ | 1.000 | | 2324430.43 | | A | 0.5 |
| 6 | ☐ | 1.000 | | 2308863.06 | | A | 1.4 |
| 7 | ☐ | 1.000 | | 2385328.85 | | A | 1.2 |
| 8 | ☐ | 1.000 | | 2071315.94 | | A | 0.2 |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 1788054.33 | | A | 5.4 |
| 2 | ☐ | 1.000 | | 1867123.53 | | A | 1.1 |
| 3 | ☐ | 1.000 | | 1882542.49 | | A | 1.0 |
| 4 | ☐ | 1.000 | | 1878939.30 | | A | 1.2 |
| 5 | ☐ | 1.000 | | 1860586.47 | | A | 0.3 |
| 6 | ☐ | 1.000 | | 1886867.59 | | A | 0.4 |
| 7 | ☐ | 1.000 | | 1761859.59 | | A | 8.3 |
| 8 | ☐ | 1.000 | | 1498149.94 | | P | 0.4 |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

# US EPA Tune Check Report

| | |
|---|---|
| **Operator Name** | Jaswal |
| **Acq/Data Batch** | D:\Agilent\ICPMH\1\DATA\P7101724-MS1.b |
| **Acq. Date-Time** | 2024-10-17 10:45:07 |
| **Report Comment** | --- |
| **Instrument Name** | G8403A JP14410463 |

**[No Gas]**

**Sensitivity**

| Mass | Conc. [ug/l] | Count | CPS | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD% | RSD% (Required) |
|---|---|---|---|---|---|---|---|
| 9 | | 1772 | 17718.54 | | | 0.908 | 5.000 |
| 24 | | 59020 | 590197.22 | | | 1.003 | 5.000 |
| 25 | | 7392 | 73924.68 | | | 1.101 | 5.000 |
| 26 | | 8280 | 82798.10 | | | 1.128 | 5.000 |
| 59 | | 14276 | 142758.39 | | | 1.040 | 5.000 |
| 113 | | 1304 | 13035.42 | | | 1.299 | 5.000 |
| 115 | | 28654 | 286538.59 | | | 1.231 | 5.000 |
| 206 | | 6371 | 63705.28 | | | 1.273 | 5.000 |
| 207 | | 5414 | 54139.68 | | | 0.893 | 5.000 |
| 208 | | 13096 | 130963.62 | | | 0.917 | 5.000 |
| 220 | | 0 | 1.80 | | | 50.461 | |

| Mass | RSD% (Flag) |
|---|---|
| 9 | |
| 24 | |
| 25 | |
| 26 | |
| 59 | |
| 113 | |
| 115 | |
| 206 | |
| 207 | |
| 208 | |
| 220 | |

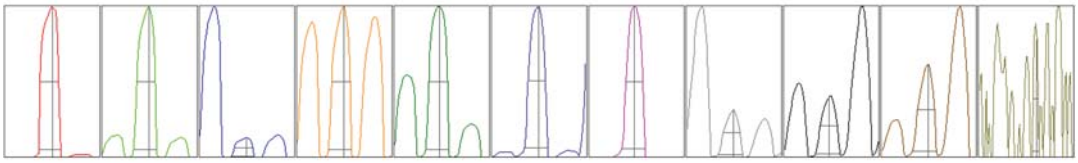
| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|---|---|---|---|---|---|
| 9 | 1789 | 1769 | 1783 | 1747 | 1771 |
| 24 | 59289 | 58934 | 59183 | 58061 | 59632 |
| 25 | 7423 | 7375 | 7429 | 7261 | 7474 |
| 26 | 8318 | 8271 | 8276 | 8139 | 8396 |
| 59 | 14356 | 14328 | 14318 | 14012 | 14364 |
| 113 | 1327 | 1304 | 1309 | 1281 | 1296 |
| 115 | 28866 | 28954 | 28854 | 28113 | 28483 |
| 206 | 6343 | 6384 | 6376 | 6263 | 6488 |
| 207 | 5449 | 5395 | 5443 | 5337 | 5446 |
| 208 | 13191 | 13042 | 13134 | 12914 | 13202 |

# US EPA Tune Check Report

| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|---|---|---|---|---|---|
| 220 | 0 | 0 | 0 | 0 | 0 |

Integration Time [sec] 0.1

**Resolution/Axis**



| Mass | Peak Height | Axis | Axis (Required) | Axis (Flag) |
|---|---|---|---|---|
| 9 | 3184.06 | 9.05 | 8.90 - 9.10 | |
| 24 | 106241.54 | 24.00 | 23.90 - 24.10 | |
| 25 | 13556.51 | 25.00 | 24.90 - 25.10 | |
| 26 | 15093.15 | 26.00 | 25.90 - 26.10 | |
| 59 | 24810.23 | 58.95 | 58.90 - 59.10 | |
| 113 | 2491.86 | 113.00 | 112.90 - 113.10 | |
| 115 | 55871.52 | 114.95 | 114.90 - 115.10 | |
| 206 | 12551.02 | 206.00 | 205.90 - 206.10 | |
| 207 | 10152.45 | 206.95 | 206.90 - 207.10 | |
| 208 | 25199.00 | 208.00 | 207.90 - 208.10 | |
| 220 | 0.35 | 220.35 | - | |

| Mass | W-50% | W-5% | W-5% (Required) | W-5% (Flag) |
|---|---|---|---|---|
| 9 | 0.58 | 0.689 | 0.900 | |
| 24 | 0.58 | 0.736 | 0.900 | |
| 25 | 0.58 | 0.726 | 0.900 | |
| 26 | 0.59 | 0.735 | 0.900 | |
| 59 | 0.60 | 0.738 | 0.900 | |
| 113 | 0.54 | 0.738 | 0.900 | |
| 115 | 0.52 | 0.753 | 0.900 | |
| 206 | 0.53 | 0.773 | 0.900 | |
| 207 | 0.54 | 0.778 | 0.900 | |
| 208 | 0.54 | 0.746 | 0.900 | |
| 220 | 0.15 | 0.195 | | |

Integration Time [sec] 0.1
Acquisition Time [sec] 256.770000000002
Y Axis Linear

**Tune Parameters**

**Plasma Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Plasma Mode | --- | Nebulizer Gas | 0.82 L/min | Dilution Gas | 0.40 L/min |

# US EPA Tune Check Report

| | | | | | |
|---|---|---|---|---|---|
| RF Power | 1600 W | Option Gas | --- | Auxiliary Gas | 0.90 L/min |
| RF Matching | 1.80 V | Nebulizer Pump | 0.10 rps | Plasma Gas | 15.0 L/min |
| Sample Depth | 9.0 mm | S/C Temp | 2 °C | | |

**Lens Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Extract 1 | 0.0 V | Omega Lens | 7.8 V | Deflect | 16.4 V |
| Extract 2 | -110.0 V | Cell Entrance | -30 V | Plate Bias | -35 V |
| Omega Bias | -60 V | Cell Exit | -50 V | | |

**Cell Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Use Gas | No | 3rd Gas Flow | --- | Energy Discrimination | 5.0 V |
| He Flow | 0.0 mL/min | OctP Bias | -8.0 V | | |
| H2 Flow | --- | OctP RF | 150 V | | |

**QP Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Mass Gain | 135 | Axis Gain | 0.9976 | QP Bias | -3.0 V |
| Mass Offset | 131 | Axis Offset | 0.11 | | |

**Hardware Settings**

**Torch**

| | | | | | |
|---|---|---|---|---|---|
| Torch H | -0.5 mm | Torch V | 0.6 mm | | |

**EM**

| | | | | | |
|---|---|---|---|---|---|
| Discriminator | 4.8 mV | Analog HV | 2399 V | Pulse HV | 1788 V |

**[He]**

**Sensitivity**

| Mass | Conc. [ug/l] | Count | CPS | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD% | RSD% (Required) |
|---|---|---|---|---|---|---|---|
| 59 | | 4786 | 47858.55 | | | 0.571 | |
| 89 | | 46649 | 466488.42 | | | 0.859 | |
| 205 | | 16475 | 164746.39 | | | 1.255 | |

| Mass | RSD% (Flag) |
|---|---|
| 59 | |
| 89 | |
| 205 | |

| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|---|---|---|---|---|---|
| 59 | 4834 | 4766 | 4775 | 4778 | 4775 |
| 89 | 47313 | 46393 | 46292 | 46567 | 46679 |
| 205 | 16806 | 16451 | 16265 | 16349 | 16502 |

Integration Time [sec] 0.1

**Tune Parameters**

**Plasma Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Plasma Mode | --- | Nebulizer Gas | 0.82 L/min | Dilution Gas | 0.40 L/min |
| RF Power | 1600 W | Option Gas | --- | Auxiliary Gas | 0.90 L/min |
| RF Matching | 1.80 V | Nebulizer Pump | 0.10 rps | Plasma Gas | 15.0 L/min |
| Sample Depth | 9.0 mm | S/C Temp | 2 °C | | |

**Lens Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Extract 1 | 0.0 V | Omega Lens | 8.0 V | Deflect | 3.2 V |

# US EPA Tune Check Report

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | | | |
|---|---|---|---|---|---|
| Extract 2 | -95.0 V | Cell Entrance | -40 V | Plate Bias | -60 V |
| Omega Bias | -60 V | Cell Exit | -60 V | | |

**Cell Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Use Gas | Yes | 3rd Gas Flow | --- | Energy Discrimination | 5.0 V |
| He Flow | 3.9 mL/min | OctP Bias | -18.0 V | | |
| H2 Flow | --- | OctP RF | 200 V | | |

**QP Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Mass Gain | 135 | Axis Gain | 0.9976 | QP Bias | -13.0 V |
| Mass Offset | 131 | Axis Offset | 0.11 | | |

**Hardware Settings**

**Torch**

| | | | | | |
|---|---|---|---|---|---|
| Torch H | -0.5 mm | Torch V | 0.6 mm | | |

**EM**

| | | | | | |
|---|---|---|---|---|---|
| Discriminator | 4.8 mV | Analog HV | 2399 V | Pulse HV | 1788 V |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S0 | Instrumnet Name : | P7 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:19:52 | DataFile Name : | 004CALB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | -0.12 | 0.09 | 0.03 | 0.00 | N/A | ppb |
| Antimony | 121-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Arsenic | 75-2 | 0.01 | 0.01 | -0.01 | 0.00 | N/A | ppb |
| Barium | 135-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Barium | 137-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Beryllium | 9-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Bismuth | 209-1 | | | | 100 | | % |
| Bismuth | 209-2 | | | | 100 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | -0.06 | 0.08 | -0.02 | 0.00 | N/A | ppb |
| Cadmium | 106-1 | 0.29 | 0.09 | -0.38 | 0.00 | N/A | ppb |
| Cadmium | 111-1 | 0.02 | 0.00 | -0.03 | 0.00 | N/A | ppb |
| Calcium | 43-1 | -1.37 | -2.67 | 4.05 | 0.00 | N/A | ppb |
| Calcium | 44-1 | 0.86 | -0.88 | 0.02 | 0.00 | N/A | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.01 | -0.01 | 0.02 | 0.00 | N/A | ppb |
| Cobalt | 59-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Copper | 63-2 | 0.00 | -0.01 | 0.01 | 0.00 | N/A | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 100 | | % |
| Holmium | 165-2 | | | | 100 | | % |
| Indium | 115-1 | | | | 100 | | % |
| Indium | 115-2 | | | | 100 | | % |
| Iron | 56-2 | 0.04 | -0.01 | -0.03 | 0.00 | N/A | ppb |
| Iron | 57-2 | 0.42 | 0.03 | -0.45 | 0.00 | N/A | ppb |
| Iron | 54-2 | 1.19 | -1.48 | 0.30 | 0.00 | N/A | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S0 | Instrumnet Name : | P7 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:19:52 | DataFile Name : | 004CALB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Lead | 207-1 | 0.00 | 0.00 | -0.01 | 0.00 | N/A | ppb |
| Lead | 208-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Lithium | 6-1 | | | | 100 | | % |
| Magnesium | 24-2 | 0.43 | -0.48 | 0.05 | 0.00 | N/A | ppb |
| Manganese | 55-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Molybdenum | 94-1 | -0.01 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Molybdenum | 95-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Molybdenum | 96-1 | 0.01 | 0.00 | -0.01 | 0.00 | N/A | ppb |
| Molybdenum | 97-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Molybdenum | 98-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.01 | 0.00 | 0.01 | 0.00 | N/A | ppb |
| Phosphorus | 31-2 | -14.74 | -14.53 | -14.42 | -14.56 | | ppb |
| Potassium | 39-2 | 14.09 | -3.10 | -10.99 | 0.00 | N/A | ppb |
| Rhodium | 103-1 | | | | 100 | | % |
| Rhodium | 103-2 | | | | 100 | | % |
| Scandium | 45-1 | | | | 100 | | % |
| Scandium | 45-2 | | | | 100 | | % |
| Selenium | 82-1 | -0.45 | 0.19 | 0.26 | 0.00 | N/A | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | 1.52 | -0.55 | -0.98 | 0.00 | N/A | ppb |
| Silicon | 28-1 | 0.19 | 0.30 | -0.49 | 0.00 | N/A | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Sodium | 23-2 | 1.38 | -0.18 | -1.20 | 0.00 | N/A | ppb |
| Strontium | 86-1 | 0.00 | -0.01 | 0.01 | 0.00 | N/A | ppb |
| Strontium | 88-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Sulfur | 34-1 | 78.28 | 144.91 | 45.09 | 89.43 | 56.84 | ppb |
| Terbium | 159-1 | | | | 100 | | % |
| Terbium | 159-2 | | | | 100 | | % |
| Thallium | 203-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Thallium | 205-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Tin | 118-1 | 0.03 | -0.02 | -0.01 | 0.00 | N/A | ppb |
| Titanium | 47-1 | 0.01 | 0.01 | -0.02 | 0.00 | N/A | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S0 | Instrumnet Name : | P7 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:19:52 | DataFile Name : | 004CALB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Vanadium | 51-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Yttrium | 89-1 | | | | 100 | | % |
| Yttrium | 89-2 | | | | 100 | | % |
| Zinc | 66-2 | 0.12 | -0.08 | -0.04 | 0.00 | N/A | ppb |
| Zirconium | 90-1 | 0.01 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Zirconium | 91-1 | 0.00 | 0.00 | 0.01 | 0.00 | N/A | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S2 | Instrumnet Name : | P7 |
| Client Sample ID : | S2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:23:14 | DataFile Name : | 005CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 20.98 | 19.73 | 21.10 | 20.60 | 3.68 | ppb |
| Antimony | 121-1 | 2.11 | 2.06 | 2.04 | 2.07 | 1.70 | ppb |
| Arsenic | 75-2 | 1.01 | 0.90 | 1.34 | 1.08 | 20.90 | ppb |
| Barium | 135-1 | 9.52 | 9.70 | 9.66 | 9.63 | 0.98 | ppb |
| Barium | 137-1 | 9.47 | 9.66 | 10.01 | 9.71 | 2.83 | ppb |
| Beryllium | 9-1 | 1.05 | 1.16 | 1.13 | 1.11 | 5.21 | ppb |
| Bismuth | 209-1 | | | | 100 | | % |
| Bismuth | 209-2 | | | | 104 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 1.39 | 1.23 | 1.60 | 1.41 | 13.10 | ppb |
| Cadmium | 106-1 | 1.37 | 2.14 | 0.07 | 1.20 | 87.43 | ppb |
| Cadmium | 111-1 | 1.20 | 1.31 | 0.96 | 1.16 | 15.46 | ppb |
| Calcium | 43-1 | 539.77 | 548.38 | 538.85 | 542.33 | 0.97 | ppb |
| Calcium | 44-1 | 534.85 | 552.11 | 553.47 | 546.81 | 1.90 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1.97 | 2.07 | 2.05 | 2.03 | 2.63 | ppb |
| Cobalt | 59-2 | 1.03 | 1.02 | 1.09 | 1.04 | 3.65 | ppb |
| Copper | 63-2 | 1.92 | 2.00 | 1.91 | 1.94 | 2.28 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 101 | | % |
| Holmium | 165-2 | | | | 104 | | % |
| Indium | 115-1 | | | | 101 | | % |
| Indium | 115-2 | | | | 105 | | % |
| Iron | 56-2 | 57.13 | 56.20 | 57.28 | 56.87 | 1.03 | ppb |
| Iron | 57-2 | 57.00 | 56.99 | 55.96 | 56.65 | 1.06 | ppb |
| Iron | 54-2 | 59.85 | 57.87 | 59.80 | 59.17 | 1.90 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S2 | Instrumnet Name : | P7 |
| Client Sample ID : | S2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:23:14 | DataFile Name : | 005CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.91 | 0.88 | 0.88 | 0.89 | 2.15 | ppb |
| Lead | 207-1 | 0.89 | 0.88 | 0.95 | 0.91 | 4.54 | ppb |
| Lead | 208-1 | 0.91 | 0.90 | 0.91 | 0.91 | 0.51 | ppb |
| Lithium | 6-1 | | | | 101 | | % |
| Magnesium | 24-2 | 535.18 | 528.23 | 544.68 | 536.03 | 1.54 | ppb |
| Manganese | 55-2 | 0.99 | 1.02 | 0.93 | 0.98 | 4.74 | ppb |
| Molybdenum | 94-1 | 5.97 | 5.94 | 6.16 | 6.02 | 1.97 | ppb |
| Molybdenum | 95-1 | 5.17 | 4.92 | 4.94 | 5.01 | 2.74 | ppb |
| Molybdenum | 96-1 | 4.98 | 5.34 | 5.11 | 5.14 | 3.54 | ppb |
| Molybdenum | 97-1 | 4.99 | 5.12 | 5.22 | 5.11 | 2.25 | ppb |
| Molybdenum | 98-1 | 5.13 | 5.06 | 5.11 | 5.10 | 0.74 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 1.03 | 0.97 | 1.05 | 1.02 | 4.16 | ppb |
| Phosphorus | 31-2 | 13.25 | 13.59 | 16.84 | 14.56 | 13.61 | ppb |
| Potassium | 39-2 | 537.43 | 527.79 | 551.83 | 539.01 | 2.24 | ppb |
| Rhodium | 103-1 | | | | 101 | | % |
| Rhodium | 103-2 | | | | 104 | | % |
| Scandium | 45-1 | | | | 102 | | % |
| Scandium | 45-2 | | | | 104 | | % |
| Selenium | 82-1 | 5.58 | 4.92 | 5.68 | 5.39 | 7.69 | ppb |
| Selenium | 77-2 | 6.05 | 9.63 | 6.66 | 7.45 | 25.76 | ppb |
| Selenium | 78-2 | 3.55 | 7.28 | 6.98 | 5.94 | 34.89 | ppb |
| Silicon | 28-1 | 2.74 | 3.47 | 4.15 | 3.46 | 20.40 | ppb |
| Silver | 107-1 | 0.99 | 1.00 | 1.01 | 1.00 | 0.79 | ppb |
| Silver | 109-1 | 1.07 | 1.07 | 1.04 | 1.06 | 1.45 | ppb |
| Sodium | 23-2 | 527.70 | 527.27 | 537.85 | 530.94 | 1.13 | ppb |
| Strontium | 86-1 | 1.02 | 1.03 | 1.11 | 1.05 | 4.49 | ppb |
| Strontium | 88-1 | 1.03 | 1.04 | 1.03 | 1.03 | 0.28 | ppb |
| Sulfur | 34-1 | -217.41 | 10.77 | -61.65 | -89.43 | | ppb |
| Terbium | 159-1 | | | | 101 | | % |
| Terbium | 159-2 | | | | 105 | | % |
| Thallium | 203-1 | 0.88 | 0.87 | 0.91 | 0.89 | 2.35 | ppb |
| Thallium | 205-1 | 0.85 | 0.89 | 0.91 | 0.88 | 3.84 | ppb |
| Tin | 118-1 | 5.09 | 4.90 | 5.04 | 5.01 | 2.01 | ppb |
| Titanium | 47-1 | 5.68 | 4.96 | 5.15 | 5.26 | 7.05 | ppb |

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On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S2 | Instrumnet Name : | P7 |
| Client Sample ID : | S2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:23:14 | DataFile Name : | 005CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.81 | 0.84 | 0.84 | 0.83 | 1.86 | ppb |
| Vanadium | 51-2 | 4.89 | 4.95 | 4.97 | 4.94 | 0.85 | ppb |
| Yttrium | 89-1 | | | | 101 | | % |
| Yttrium | 89-2 | | | | 104 | | % |
| Zinc | 66-2 | 4.85 | 5.32 | 5.39 | 5.19 | 5.70 | ppb |
| Zirconium | 90-1 | 0.98 | 0.99 | 0.97 | 0.98 | 1.05 | ppb |
| Zirconium | 91-1 | 0.93 | 1.10 | 1.11 | 1.04 | 9.77 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S3 | Instrumnet Name : | P7 |
| Client Sample ID : | S3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:26:38 | DataFile Name : | 006CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1075.28 | 1058.09 | 1059.94 | 1064.44 | 0.89 | ppb |
| Antimony | 121-1 | 50.67 | 51.67 | 51.04 | 51.13 | 0.99 | ppb |
| Arsenic | 75-2 | 48.48 | 48.68 | 48.67 | 48.61 | 0.23 | ppb |
| Barium | 135-1 | 249.90 | 254.53 | 256.36 | 253.60 | 1.31 | ppb |
| Barium | 137-1 | 248.27 | 253.24 | 253.72 | 251.74 | 1.20 | ppb |
| Beryllium | 9-1 | 51.68 | 52.95 | 53.61 | 52.75 | 1.86 | ppb |
| Bismuth | 209-1 | | | | 101 | | % |
| Bismuth | 209-2 | | | | 105 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 51.51 | 53.61 | 53.68 | 52.93 | 2.33 | ppb |
| Cadmium | 106-1 | 52.72 | 54.26 | 52.18 | 53.05 | 2.04 | ppb |
| Cadmium | 111-1 | 53.47 | 55.11 | 55.22 | 54.60 | 1.79 | ppb |
| Calcium | 43-1 | 5830.49 | 5876.97 | 5976.71 | 5894.73 | 1.27 | ppb |
| Calcium | 44-1 | 5678.71 | 5706.97 | 5829.60 | 5738.43 | 1.40 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 51.39 | 51.17 | 50.69 | 51.08 | 0.71 | ppb |
| Cobalt | 59-2 | 51.62 | 50.59 | 50.83 | 51.01 | 1.05 | ppb |
| Copper | 63-2 | 524.39 | 512.58 | 511.87 | 516.28 | 1.36 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 102 | | % |
| Holmium | 165-2 | | | | 106 | | % |
| Indium | 115-1 | | | | 101 | | % |
| Indium | 115-2 | | | | 105 | | % |
| Iron | 56-2 | 2733.23 | 2686.06 | 2663.23 | 2694.17 | 1.33 | ppb |
| Iron | 57-2 | 2865.20 | 2841.84 | 2882.52 | 2863.18 | 0.71 | ppb |
| Iron | 54-2 | 2981.17 | 2895.67 | 2909.85 | 2928.90 | 1.56 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S3 | Instrumnet Name : | P7 |
| Client Sample ID : | S3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:26:38 | DataFile Name : | 006CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 227.78 | 227.53 | 226.42 | 227.25 | 0.32 | ppb |
| Lead | 207-1 | 226.53 | 224.21 | 222.38 | 224.38 | 0.93 | ppb |
| Lead | 208-1 | 228.46 | 226.80 | 225.38 | 226.88 | 0.68 | ppb |
| Lithium | 6-1 | | | | 101 | | % |
| Magnesium | 24-2 | 5155.43 | 5055.01 | 5048.61 | 5086.35 | 1.18 | ppb |
| Manganese | 55-2 | 514.97 | 501.56 | 505.72 | 507.42 | 1.35 | ppb |
| Molybdenum | 94-1 | 562.77 | 568.10 | 576.32 | 569.06 | 1.20 | ppb |
| Molybdenum | 95-1 | 560.05 | 567.41 | 574.01 | 567.16 | 1.23 | ppb |
| Molybdenum | 96-1 | 561.56 | 564.40 | 571.36 | 565.77 | 0.89 | ppb |
| Molybdenum | 97-1 | 568.03 | 573.47 | 579.68 | 573.73 | 1.02 | ppb |
| Molybdenum | 98-1 | 557.64 | 560.30 | 575.99 | 564.64 | 1.76 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 54.20 | 51.53 | 51.85 | 52.53 | 2.78 | ppb |
| Phosphorus | 31-2 | 971.05 | 971.04 | 954.52 | 965.54 | 0.99 | ppb |
| Potassium | 39-2 | 2816.76 | 2760.82 | 2765.59 | 2781.06 | 1.12 | ppb |
| Rhodium | 103-1 | | | | 100 | | % |
| Rhodium | 103-2 | | | | 104 | | % |
| Scandium | 45-1 | | | | 102 | | % |
| Scandium | 45-2 | | | | 104 | | % |
| Selenium | 82-1 | 52.56 | 53.63 | 54.67 | 53.62 | 1.97 | ppb |
| Selenium | 77-2 | 52.28 | 49.84 | 46.21 | 49.45 | 6.17 | ppb |
| Selenium | 78-2 | 48.64 | 50.93 | 52.87 | 50.81 | 4.17 | ppb |
| Silicon | 28-1 | 48.31 | 51.55 | 54.38 | 51.41 | 5.91 | ppb |
| Silver | 107-1 | 54.06 | 55.20 | 54.59 | 54.62 | 1.05 | ppb |
| Silver | 109-1 | 53.49 | 54.81 | 54.97 | 54.42 | 1.50 | ppb |
| Sodium | 23-2 | 5206.77 | 5128.58 | 5120.42 | 5151.92 | 0.93 | ppb |
| Strontium | 86-1 | 1283.71 | 1299.71 | 1329.56 | 1304.33 | 1.78 | ppb |
| Strontium | 88-1 | 1268.10 | 1283.09 | 1307.09 | 1286.09 | 1.53 | ppb |
| Sulfur | 34-1 | 601.63 | 549.39 | 798.12 | 649.71 | 20.19 | ppb |
| Terbium | 159-1 | | | | 102 | | % |
| Terbium | 159-2 | | | | 106 | | % |
| Thallium | 203-1 | 45.19 | 45.18 | 44.92 | 45.10 | 0.34 | ppb |
| Thallium | 205-1 | 45.21 | 44.72 | 44.78 | 44.90 | 0.59 | ppb |
| Tin | 118-1 | 50.82 | 52.46 | 51.95 | 51.74 | 1.62 | ppb |
| Titanium | 47-1 | 573.25 | 577.73 | 593.94 | 581.64 | 1.87 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S3 | Instrumnet Name : | P7 |
| Client Sample ID : | S3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:26:38 | DataFile Name : | 006CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 42.96 | 42.80 | 42.52 | 42.76 | 0.52 | ppb |
| Vanadium | 51-2 | 50.08 | 48.24 | 47.99 | 48.77 | 2.35 | ppb |
| Yttrium | 89-1 | | | | 100 | | % |
| Yttrium | 89-2 | | | | 105 | | % |
| Zinc | 66-2 | 517.25 | 495.99 | 501.00 | 504.75 | 2.20 | ppb |
| Zirconium | 90-1 | 50.81 | 51.76 | 52.05 | 51.54 | 1.26 | ppb |
| Zirconium | 91-1 | 50.79 | 51.48 | 52.75 | 51.68 | 1.93 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S4 | Instrumnet Name : | P7 |
| Client Sample ID : | S4 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:29:55 | DataFile Name : | 007CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2584.85 | 2587.70 | 2613.63 | 2595.39 | 0.61 | ppb |
| Antimony | 121-1 | 127.74 | 126.85 | 125.99 | 126.86 | 0.69 | ppb |
| Arsenic | 75-2 | 122.15 | 122.50 | 122.37 | 122.34 | 0.14 | ppb |
| Barium | 135-1 | 632.41 | 621.93 | 622.88 | 625.74 | 0.93 | ppb |
| Barium | 137-1 | 627.19 | 622.13 | 619.93 | 623.08 | 0.60 | ppb |
| Beryllium | 9-1 | 130.75 | 132.24 | 130.18 | 131.06 | 0.81 | ppb |
| Bismuth | 209-1 | | | | 101 | | % |
| Bismuth | 209-2 | | | | 105 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 140.86 | 131.44 | 133.07 | 135.12 | 3.73 | ppb |
| Cadmium | 106-1 | 135.09 | 136.37 | 132.81 | 134.76 | 1.34 | ppb |
| Cadmium | 111-1 | 135.39 | 134.25 | 134.87 | 134.84 | 0.42 | ppb |
| Calcium | 43-1 | 14625.00 | 14526.06 | 14603.39 | 14584.82 | 0.36 | ppb |
| Calcium | 44-1 | 13272.68 | 13051.82 | 13321.80 | 13215.43 | 1.09 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 126.51 | 125.72 | 125.96 | 126.07 | 0.32 | ppb |
| Cobalt | 59-2 | 125.11 | 124.45 | 126.27 | 125.28 | 0.74 | ppb |
| Copper | 63-2 | 1267.01 | 1280.45 | 1275.01 | 1274.15 | 0.53 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 102 | | % |
| Holmium | 165-2 | | | | 105 | | % |
| Indium | 115-1 | | | | 100 | | % |
| Indium | 115-2 | | | | 104 | | % |
| Iron | 56-2 | 6776.01 | 6671.38 | 6741.34 | 6729.58 | 0.79 | ppb |
| Iron | 57-2 | 7096.35 | 7085.72 | 7152.50 | 7111.52 | 0.50 | ppb |
| Iron | 54-2 | 7224.56 | 7199.30 | 7240.13 | 7221.33 | 0.29 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S4 | Instrumnet Name : | P7 |
| Client Sample ID : | S4 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:29:55 | DataFile Name : | 007CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 624.65 | 623.30 | 620.67 | 622.87 | 0.33 | ppb |
| Lead | 207-1 | 632.55 | 635.85 | 613.11 | 627.17 | 1.96 | ppb |
| Lead | 208-1 | 630.73 | 630.28 | 622.32 | 627.77 | 0.75 | ppb |
| Lithium | 6-1 | | | | 100 | | % |
| Magnesium | 24-2 | 11967.01 | 12063.04 | 12207.84 | 12079.30 | 1.00 | ppb |
| Manganese | 55-2 | 1208.22 | 1210.26 | 1225.20 | 1214.56 | 0.76 | ppb |
| Molybdenum | 94-1 | 1391.70 | 1422.16 | 1414.31 | 1409.39 | 1.12 | ppb |
| Molybdenum | 95-1 | 1396.66 | 1436.91 | 1420.76 | 1418.11 | 1.43 | ppb |
| Molybdenum | 96-1 | 1381.70 | 1402.08 | 1405.18 | 1396.32 | 0.91 | ppb |
| Molybdenum | 97-1 | 1370.96 | 1422.42 | 1428.92 | 1407.44 | 2.26 | ppb |
| Molybdenum | 98-1 | 1367.85 | 1404.05 | 1414.76 | 1395.55 | 1.76 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 125.14 | 127.79 | 125.66 | 126.20 | 1.11 | ppb |
| Phosphorus | 31-2 | 2440.33 | 2429.16 | 2458.05 | 2442.51 | 0.60 | ppb |
| Potassium | 39-2 | 6889.48 | 6937.53 | 6963.09 | 6930.04 | 0.54 | ppb |
| Rhodium | 103-1 | | | | 98 | | % |
| Rhodium | 103-2 | | | | 103 | | % |
| Scandium | 45-1 | | | | 100 | | % |
| Scandium | 45-2 | | | | 103 | | % |
| Selenium | 82-1 | 129.98 | 134.39 | 129.84 | 131.40 | 1.97 | ppb |
| Selenium | 77-2 | 128.13 | 126.84 | 124.13 | 126.37 | 1.61 | ppb |
| Selenium | 78-2 | 120.26 | 126.52 | 130.35 | 125.71 | 4.05 | ppb |
| Silicon | 28-1 | 128.92 | 129.72 | 133.66 | 130.77 | 1.94 | ppb |
| Silver | 107-1 | 134.42 | 134.20 | 133.28 | 133.96 | 0.45 | ppb |
| Silver | 109-1 | 135.14 | 133.05 | 133.55 | 133.91 | 0.81 | ppb |
| Sodium | 23-2 | 12506.05 | 12863.12 | 12963.40 | 12777.52 | 1.88 | ppb |
| Strontium | 86-1 | 3109.83 | 3187.46 | 3229.53 | 3175.60 | 1.91 | ppb |
| Strontium | 88-1 | 3140.98 | 3204.72 | 3177.76 | 3174.49 | 1.01 | ppb |
| Sulfur | 34-1 | 2307.10 | 2287.72 | 2340.42 | 2311.74 | 1.15 | ppb |
| Terbium | 159-1 | | | | 102 | | % |
| Terbium | 159-2 | | | | 106 | | % |
| Thallium | 203-1 | 112.77 | 111.93 | 113.67 | 112.79 | 0.77 | ppb |
| Thallium | 205-1 | 113.56 | 111.93 | 112.14 | 112.54 | 0.79 | ppb |
| Tin | 118-1 | 129.19 | 127.85 | 127.72 | 128.25 | 0.64 | ppb |
| Titanium | 47-1 | 1439.38 | 1436.46 | 1456.60 | 1444.15 | 0.75 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S4 | Instrumnet Name : | P7 |
| Client Sample ID : | S4 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:29:55 | DataFile Name : | 007CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 107.93 | 107.41 | 108.28 | 107.87 | 0.40 | ppb |
| Vanadium | 51-2 | 121.39 | 122.09 | 122.43 | 121.97 | 0.44 | ppb |
| Yttrium | 89-1 | | | | 100 | | % |
| Yttrium | 89-2 | | | | 103 | | % |
| Zinc | 66-2 | 1250.96 | 1258.31 | 1253.36 | 1254.21 | 0.30 | ppb |
| Zirconium | 90-1 | 126.57 | 129.63 | 128.58 | 128.26 | 1.21 | ppb |
| Zirconium | 91-1 | 127.04 | 129.41 | 129.36 | 128.60 | 1.05 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S5 | Instrumnet Name : | P7 |
| Client Sample ID : | S5 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:33:04 | DataFile Name : | 008CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 5198.71 | 5243.61 | 5194.61 | 5212.31 | 0.52 | ppb |
| Antimony | 121-1 | 253.86 | 257.12 | 251.68 | 254.22 | 1.08 | ppb |
| Arsenic | 75-2 | 240.37 | 246.49 | 245.61 | 244.15 | 1.36 | ppb |
| Barium | 135-1 | 1244.25 | 1248.32 | 1231.00 | 1241.19 | 0.73 | ppb |
| Barium | 137-1 | 1304.41 | 1300.45 | 1286.85 | 1297.24 | 0.71 | ppb |
| Beryllium | 9-1 | 257.71 | 263.02 | 261.67 | 260.80 | 1.06 | ppb |
| Bismuth | 209-1 | | | | 101 | | % |
| Bismuth | 209-2 | | | | 104 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 263.10 | 268.90 | 265.06 | 265.68 | 1.11 | ppb |
| Cadmium | 106-1 | 265.34 | 265.95 | 264.66 | 265.32 | 0.24 | ppb |
| Cadmium | 111-1 | 268.80 | 269.50 | 262.52 | 266.94 | 1.44 | ppb |
| Calcium | 43-1 | 28733.66 | 28808.50 | 29256.05 | 28932.74 | 0.98 | ppb |
| Calcium | 44-1 | 26262.24 | 26256.01 | 26726.86 | 26415.03 | 1.02 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 248.79 | 253.39 | 249.63 | 250.61 | 0.98 | ppb |
| Cobalt | 59-2 | 247.00 | 252.17 | 247.42 | 248.86 | 1.15 | ppb |
| Copper | 63-2 | 2479.53 | 2556.15 | 2508.87 | 2514.85 | 1.54 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 102 | | % |
| Holmium | 165-2 | | | | 105 | | % |
| Indium | 115-1 | | | | 97 | | % |
| Indium | 115-2 | | | | 102 | | % |
| Iron | 56-2 | 13292.66 | 13474.89 | 13239.29 | 13335.62 | 0.93 | ppb |
| Iron | 57-2 | 14026.82 | 14388.30 | 14107.95 | 14174.36 | 1.34 | ppb |
| Iron | 54-2 | 14352.01 | 14561.07 | 14293.90 | 14402.33 | 0.98 | ppb |
| Krypton | 83-1 | | | | | | cps |

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Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S5 | Instrumnet Name : | P7 |
| Client Sample ID : | S5 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:33:04 | DataFile Name : | 008CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 1245.24 | 1241.50 | 1268.74 | 1251.83 | 1.18 | ppb |
| Lead | 207-1 | 1256.12 | 1275.23 | 1275.78 | 1269.04 | 0.88 | ppb |
| Lead | 208-1 | 1245.60 | 1261.70 | 1267.77 | 1258.36 | 0.91 | ppb |
| Lithium | 6-1 | | | | 98 | | % |
| Magnesium | 24-2 | 24053.03 | 24238.54 | 24013.34 | 24101.64 | 0.50 | ppb |
| Manganese | 55-2 | 2454.37 | 2457.36 | 2413.69 | 2441.81 | 1.00 | ppb |
| Molybdenum | 94-1 | 2802.93 | 2882.78 | 2812.37 | 2832.69 | 1.54 | ppb |
| Molybdenum | 95-1 | 2773.59 | 2854.36 | 2769.05 | 2799.00 | 1.71 | ppb |
| Molybdenum | 96-1 | 2753.19 | 2790.23 | 2782.34 | 2775.25 | 0.70 | ppb |
| Molybdenum | 97-1 | 2796.58 | 2814.82 | 2841.57 | 2817.65 | 0.80 | ppb |
| Molybdenum | 98-1 | 2788.10 | 2836.00 | 2803.13 | 2809.08 | 0.87 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 251.40 | 253.05 | 250.71 | 251.72 | 0.48 | ppb |
| Phosphorus | 31-2 | 4970.15 | 4788.68 | 4883.67 | 4880.83 | 1.86 | ppb |
| Potassium | 39-2 | 12656.83 | 13040.30 | 12601.26 | 12766.13 | 1.87 | ppb |
| Rhodium | 103-1 | | | | 96 | | % |
| Rhodium | 103-2 | | | | 100 | | % |
| Scandium | 45-1 | | | | 98 | | % |
| Scandium | 45-2 | | | | 101 | | % |
| Selenium | 82-1 | 257.15 | 268.04 | 262.60 | 262.60 | 2.07 | ppb |
| Selenium | 77-2 | 239.04 | 239.45 | 221.24 | 233.24 | 4.46 | ppb |
| Selenium | 78-2 | 240.23 | 243.11 | 248.57 | 243.97 | 1.74 | ppb |
| Silicon | 28-1 | 253.92 | 260.03 | 265.72 | 259.89 | 2.27 | ppb |
| Silver | 107-1 | 264.16 | 266.74 | 260.78 | 263.89 | 1.13 | ppb |
| Silver | 109-1 | 262.89 | 266.02 | 261.31 | 263.41 | 0.91 | ppb |
| Sodium | 23-2 | 25706.32 | 25936.04 | 25886.16 | 25842.84 | 0.47 | ppb |
| Strontium | 86-1 | 6255.83 | 6482.86 | 6405.74 | 6381.48 | 1.81 | ppb |
| Strontium | 88-1 | 6346.10 | 6456.78 | 6383.03 | 6395.30 | 0.88 | ppb |
| Sulfur | 34-1 | 4911.74 | 4868.98 | 5146.98 | 4975.90 | 3.01 | ppb |
| Terbium | 159-1 | | | | 102 | | % |
| Terbium | 159-2 | | | | 107 | | % |
| Thallium | 203-1 | 223.38 | 225.83 | 226.88 | 225.36 | 0.80 | ppb |
| Thallium | 205-1 | 246.35 | 249.98 | 251.43 | 249.25 | 1.05 | ppb |
| Tin | 118-1 | 253.48 | 254.18 | 251.15 | 252.94 | 0.63 | ppb |
| Titanium | 47-1 | 2746.00 | 2806.98 | 2853.71 | 2802.23 | 1.93 | ppb |

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Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S5 | Instrumnet Name : | P7 |
| Client Sample ID : | S5 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:33:04 | DataFile Name : | 008CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 243.25 | 246.37 | 249.83 | 246.48 | 1.33 | ppb |
| Vanadium | 51-2 | 239.41 | 242.90 | 241.83 | 241.38 | 0.74 | ppb |
| Yttrium | 89-1 | | | | 98 | | % |
| Yttrium | 89-2 | | | | 102 | | % |
| Zinc | 66-2 | 2495.03 | 2524.69 | 2497.59 | 2505.77 | 0.66 | ppb |
| Zirconium | 90-1 | 252.85 | 260.56 | 252.85 | 255.42 | 1.74 | ppb |
| Zirconium | 91-1 | 254.21 | 261.39 | 259.09 | 258.23 | 1.42 | ppb |

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Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S6 | Instrumnet Name : | P7 |
| Client Sample ID : | S6 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:36:06 | DataFile Name : | 009CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 10309.29 | 10221.49 | 10081.55 | 10204.11 | 1.13 | ppb |
| Antimony | 121-1 | 507.82 | 502.08 | 509.41 | 506.43 | 0.76 | ppb |
| Arsenic | 75-2 | 485.66 | 473.71 | 479.29 | 479.55 | 1.25 | ppb |
| Barium | 135-1 | 2515.30 | 2546.82 | 2519.56 | 2527.23 | 0.68 | ppb |
| Barium | 137-1 | 2499.22 | 2551.34 | 2503.56 | 2518.04 | 1.15 | ppb |
| Beryllium | 9-1 | 505.65 | 520.46 | 514.93 | 513.68 | 1.46 | ppb |
| Bismuth | 209-1 | | | | 100 | | % |
| Bismuth | 209-2 | | | | 106 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 513.72 | 512.07 | 511.04 | 512.27 | 0.26 | ppb |
| Cadmium | 106-1 | 506.81 | 519.36 | 515.37 | 513.85 | 1.25 | ppb |
| Cadmium | 111-1 | 511.34 | 513.42 | 512.62 | 512.46 | 0.21 | ppb |
| Calcium | 43-1 | 57463.49 | 58100.44 | 57638.35 | 57734.09 | 0.57 | ppb |
| Calcium | 44-1 | 52348.11 | 53012.62 | 53195.75 | 52852.16 | 0.84 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 494.19 | 489.53 | 488.92 | 490.88 | 0.59 | ppb |
| Cobalt | 59-2 | 486.39 | 485.78 | 484.47 | 485.55 | 0.20 | ppb |
| Copper | 63-2 | 4889.59 | 4903.08 | 4786.01 | 4859.56 | 1.32 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 103 | | % |
| Holmium | 165-2 | | | | 108 | | % |
| Indium | 115-1 | | | | 96 | | % |
| Indium | 115-2 | | | | 100 | | % |
| Iron | 56-2 | 26475.91 | 26292.77 | 26365.62 | 26378.10 | 0.35 | ppb |
| Iron | 57-2 | 28137.23 | 27786.80 | 27640.87 | 27854.96 | 0.92 | ppb |
| Iron | 54-2 | 27132.08 | 26523.58 | 26773.08 | 26809.58 | 1.14 | ppb |
| Krypton | 83-1 | | | | | | cps |

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Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S6 | Instrumnet Name : | P7 |
| Client Sample ID : | S6 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:36:06 | DataFile Name : | 009CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2489.20 | 2572.77 | 2486.33 | 2516.10 | 1.95 | ppb |
| Lead | 207-1 | 2531.58 | 2557.86 | 2487.13 | 2525.52 | 1.42 | ppb |
| Lead | 208-1 | 2510.45 | 2554.20 | 2493.10 | 2519.25 | 1.25 | ppb |
| Lithium | 6-1 | | | | 96 | | % |
| Magnesium | 24-2 | 47978.46 | 47113.12 | 46716.53 | 47269.37 | 1.37 | ppb |
| Manganese | 55-2 | 4792.03 | 4841.39 | 4807.50 | 4813.64 | 0.52 | ppb |
| Molybdenum | 94-1 | 5524.16 | 5678.98 | 5509.72 | 5570.95 | 1.68 | ppb |
| Molybdenum | 95-1 | 5613.22 | 5626.79 | 5524.01 | 5588.00 | 1.00 | ppb |
| Molybdenum | 96-1 | 5550.14 | 5723.36 | 5516.20 | 5596.56 | 1.99 | ppb |
| Molybdenum | 97-1 | 5528.64 | 5710.32 | 5527.55 | 5588.84 | 1.88 | ppb |
| Molybdenum | 98-1 | 5506.57 | 5692.30 | 5566.07 | 5588.31 | 1.70 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 486.84 | 489.64 | 485.82 | 487.43 | 0.40 | ppb |
| Phosphorus | 31-2 | 9600.46 | 9558.93 | 9660.36 | 9606.59 | 0.53 | ppb |
| Potassium | 39-2 | 25367.05 | 25328.61 | 25066.21 | 25253.96 | 0.65 | ppb |
| Rhodium | 103-1 | | | | 93 | | % |
| Rhodium | 103-2 | | | | 99 | | % |
| Scandium | 45-1 | | | | 96 | | % |
| Scandium | 45-2 | | | | 100 | | % |
| Selenium | 82-1 | 524.37 | 522.30 | 509.69 | 518.79 | 1.53 | ppb |
| Selenium | 77-2 | 482.76 | 490.12 | 473.18 | 482.02 | 1.76 | ppb |
| Selenium | 78-2 | 474.93 | 498.11 | 496.26 | 489.77 | 2.63 | ppb |
| Silicon | 28-1 | 511.00 | 520.66 | 518.65 | 516.77 | 0.99 | ppb |
| Silver | 107-1 | 517.20 | 516.72 | 510.95 | 514.95 | 0.68 | ppb |
| Silver | 109-1 | 514.06 | 523.31 | 510.66 | 516.01 | 1.27 | ppb |
| Sodium | 23-2 | 50995.80 | 51207.33 | 49921.68 | 50708.27 | 1.36 | ppb |
| Strontium | 86-1 | 12606.99 | 12783.17 | 12634.33 | 12674.83 | 0.75 | ppb |
| Strontium | 88-1 | 12684.78 | 12869.83 | 12640.25 | 12731.62 | 0.96 | ppb |
| Sulfur | 34-1 | 10106.42 | 10124.35 | 10054.08 | 10094.95 | 0.36 | ppb |
| Terbium | 159-1 | | | | 103 | | % |
| Terbium | 159-2 | | | | 107 | | % |
| Thallium | 203-1 | 504.01 | 511.36 | 503.07 | 506.15 | 0.90 | ppb |
| Thallium | 205-1 | 501.69 | 514.14 | 500.33 | 505.39 | 1.51 | ppb |
| Tin | 118-1 | 514.65 | 507.31 | 508.26 | 510.08 | 0.78 | ppb |
| Titanium | 47-1 | 5555.53 | 5499.67 | 5504.13 | 5519.77 | 0.56 | ppb |

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Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S6 | Instrumnet Name : | P7 |
| Client Sample ID : | S6 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:36:06 | DataFile Name : | 009CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 488.93 | 514.49 | 505.15 | 502.86 | 2.57 | ppb |
| Vanadium | 51-2 | 482.78 | 475.74 | 472.57 | 477.03 | 1.10 | ppb |
| Yttrium | 89-1 | | | | 97 | | % |
| Yttrium | 89-2 | | | | 102 | | % |
| Zinc | 66-2 | 4888.53 | 4874.56 | 4863.40 | 4875.50 | 0.26 | ppb |
| Zirconium | 90-1 | 507.14 | 514.55 | 507.52 | 509.74 | 0.82 | ppb |
| Zirconium | 91-1 | 511.00 | 525.19 | 510.03 | 515.41 | 1.65 | ppb |

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S7 | Instrumnet Name : | P7 |
| Client Sample ID : | S7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:41:54 | DataFile Name : | 011CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 19465.69 | 22181.42 | 21603.23 | 21083.44 | 6.79 | ppb |
| Antimony | 121-1 | 984.76 | 998.77 | 1002.78 | 995.44 | 0.95 | ppb |
| Arsenic | 75-2 | 934.24 | 1088.91 | 1013.11 | 1012.09 | 7.64 | ppb |
| Barium | 135-1 | 4968.74 | 4965.72 | 5030.49 | 4988.32 | 0.73 | ppb |
| Barium | 137-1 | 4929.85 | 4996.98 | 5011.14 | 4979.32 | 0.87 | ppb |
| Beryllium | 9-1 | 982.71 | 985.65 | 1000.34 | 989.57 | 0.95 | ppb |
| Bismuth | 209-1 | | | | 104 | | % |
| Bismuth | 209-2 | | | | 99 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 991.27 | 988.06 | 986.26 | 988.53 | 0.26 | ppb |
| Cadmium | 106-1 | 977.75 | 996.62 | 989.25 | 987.87 | 0.96 | ppb |
| Cadmium | 111-1 | 976.92 | 994.21 | 993.10 | 988.08 | 0.98 | ppb |
| Calcium | 43-1 | 114318.27 | 112601.12 | 117732.00 | 114883.80 | 2.27 | ppb |
| Calcium | 44-1 | 105396.89 | 101371.21 | 106561.83 | 104443.31 | 2.61 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 936.33 | 1069.56 | 1006.77 | 1004.22 | 6.64 | ppb |
| Cobalt | 59-2 | 925.64 | 1079.56 | 1017.07 | 1007.42 | 7.68 | ppb |
| Copper | 63-2 | 9305.88 | 10601.09 | 10281.06 | 10062.67 | 6.70 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 108 | | % |
| Holmium | 165-2 | | | | 102 | | % |
| Indium | 115-1 | | | | 96 | | % |
| Indium | 115-2 | | | | 94 | | % |
| Iron | 56-2 | 51561.02 | 59300.26 | 55965.71 | 55609.00 | 6.98 | ppb |
| Iron | 57-2 | 51707.96 | 59127.08 | 55963.07 | 55599.37 | 6.70 | ppb |
| Iron | 54-2 | 52038.19 | 59773.27 | 57331.52 | 56380.99 | 7.01 | ppb |
| Krypton | 83-1 | | | | | | cps |

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Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S7 | Instrumnet Name : | P7 |
| Client Sample ID : | S7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:41:54 | DataFile Name : | 011CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 4970.76 | 4927.18 | 5080.74 | 4992.90 | 1.58 | ppb |
| Lead | 207-1 | 4974.17 | 4948.10 | 5028.20 | 4983.49 | 0.82 | ppb |
| Lead | 208-1 | 4970.95 | 4968.88 | 5027.46 | 4989.10 | 0.67 | ppb |
| Lithium | 6-1 | | | | 99 | | % |
| Magnesium | 24-2 | 92718.89 | 107371.93 | 101726.69 | 100605.84 | 7.35 | ppb |
| Manganese | 55-2 | 9272.21 | 10702.42 | 10360.74 | 10111.79 | 7.39 | ppb |
| Molybdenum | 94-1 | 10848.15 | 10900.74 | 11066.90 | 10938.60 | 1.04 | ppb |
| Molybdenum | 95-1 | 10871.44 | 10904.21 | 11036.85 | 10937.50 | 0.80 | ppb |
| Molybdenum | 96-1 | 10772.93 | 10925.67 | 11127.25 | 10941.95 | 1.62 | ppb |
| Molybdenum | 97-1 | 10745.90 | 10855.92 | 11198.47 | 10933.43 | 2.16 | ppb |
| Molybdenum | 98-1 | 10833.80 | 10951.73 | 11027.79 | 10937.77 | 0.89 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 934.36 | 1062.64 | 1019.73 | 1005.58 | 6.49 | ppb |
| Phosphorus | 31-2 | 18758.29 | 21308.60 | 20639.34 | 20235.41 | 6.53 | ppb |
| Potassium | 39-2 | 49067.74 | 56570.99 | 54115.73 | 53251.48 | 7.18 | ppb |
| Rhodium | 103-1 | | | | 94 | | % |
| Rhodium | 103-2 | | | | 94 | | % |
| Scandium | 45-1 | | | | 98 | | % |
| Scandium | 45-2 | | | | 97 | | % |
| Selenium | 82-1 | 978.69 | 979.54 | 1001.19 | 986.47 | 1.29 | ppb |
| Selenium | 77-2 | 994.55 | 1086.03 | 958.49 | 1013.02 | 6.49 | ppb |
| Selenium | 78-2 | 910.72 | 1097.00 | 1011.76 | 1006.49 | 9.26 | ppb |
| Silicon | 28-1 | 996.15 | 960.17 | 1008.94 | 988.42 | 2.56 | ppb |
| Silver | 107-1 | 975.63 | 987.62 | 999.85 | 987.70 | 1.23 | ppb |
| Silver | 109-1 | 975.04 | 982.18 | 1004.70 | 987.31 | 1.57 | ppb |
| Sodium | 23-2 | 99315.55 | 113574.10 | 108496.92 | 107128.86 | 6.75 | ppb |
| Strontium | 86-1 | 24620.62 | 24822.45 | 25168.95 | 24870.67 | 1.12 | ppb |
| Strontium | 88-1 | 24549.39 | 24787.21 | 25183.03 | 24839.87 | 1.29 | ppb |
| Sulfur | 34-1 | 20190.02 | 19290.89 | 20517.88 | 19999.60 | 3.18 | ppb |
| Terbium | 159-1 | | | | 107 | | % |
| Terbium | 159-2 | | | | 103 | | % |
| Thallium | 203-1 | 1013.96 | 978.61 | 1022.01 | 1004.86 | 2.30 | ppb |
| Thallium | 205-1 | 1000.95 | 979.27 | 1017.69 | 999.31 | 1.93 | ppb |
| Tin | 118-1 | 979.90 | 993.98 | 1007.32 | 993.73 | 1.38 | ppb |
| Titanium | 47-1 | 10971.72 | 10749.35 | 11179.42 | 10966.83 | 1.96 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S7 | Instrumnet Name : | P7 |
| Client Sample ID : | S7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:41:54 | DataFile Name : | 011CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 1004.00 | 993.02 | 1008.85 | 1001.95 | 0.81 | ppb |
| Vanadium | 51-2 | 937.81 | 1077.62 | 1026.80 | 1014.08 | 6.98 | ppb |
| Yttrium | 89-1 | | | | 101 | | % |
| Yttrium | 89-2 | | | | 98 | | % |
| Zinc | 66-2 | 9318.17 | 10626.17 | 10235.79 | 10060.04 | 6.67 | ppb |
| Zirconium | 90-1 | 982.28 | 995.30 | 1002.29 | 993.29 | 1.02 | ppb |
| Zirconium | 91-1 | 979.15 | 980.05 | 1009.91 | 989.70 | 1.77 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S8 | Instrumnet Name : | P7 |
| Client Sample ID : | S8 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:44:46 | DataFile Name : | 012CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 101375.80 | 98892.19 | 98979.78 | 99749.26 | 1.41 | ppb |
| Antimony | 121-1 | 0.76 | 0.84 | 0.75 | 0.79 | 5.81 | ppb |
| Arsenic | 75-2 | 0.72 | 0.47 | 0.47 | 0.56 | 25.69 | ppb |
| Barium | 135-1 | 1.94 | 2.25 | 1.91 | 2.03 | 9.15 | ppb |
| Barium | 137-1 | 1.89 | 2.14 | 1.86 | 1.97 | 7.82 | ppb |
| Beryllium | 9-1 | 0.66 | 0.55 | 0.58 | 0.60 | 9.47 | ppb |
| Bismuth | 209-1 | | | | 90 | | % |
| Bismuth | 209-2 | | | | 84 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.64 | 0.91 | 0.55 | 0.70 | 26.99 | ppb |
| Cadmium | 106-1 | 0.41 | 1.91 | 0.57 | 0.96 | 85.78 | ppb |
| Cadmium | 111-1 | 0.18 | 0.42 | 0.21 | 0.27 | 47.45 | ppb |
| Calcium | 43-1 | 493926.10 | 501079.86 | 492970.29 | 495992.08 | 0.89 | ppb |
| Calcium | 44-1 | 497150.49 | 501360.60 | 497679.07 | 498730.05 | 0.46 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 3.00 | 3.11 | 2.94 | 3.02 | 2.79 | ppb |
| Cobalt | 59-2 | 2.54 | 2.46 | 2.46 | 2.49 | 1.87 | ppb |
| Copper | 63-2 | 1.90 | 1.88 | 1.75 | 1.84 | 4.21 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 100 | | % |
| Holmium | 165-2 | | | | 103 | | % |
| Indium | 115-1 | | | | 93 | | % |
| Indium | 115-2 | | | | 97 | | % |
| Iron | 56-2 | 253556.89 | 247050.63 | 245446.51 | 248684.68 | 1.73 | ppb |
| Iron | 57-2 | 252486.04 | 245057.30 | 247913.88 | 248485.74 | 1.51 | ppb |
| Iron | 54-2 | 251086.14 | 246114.14 | 248057.19 | 248419.15 | 1.01 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S8 | Instrumnet Name : | P7 |
| Client Sample ID : | S8 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:44:46 | DataFile Name : | 012CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 1.09 | 1.08 | 0.87 | 1.01 | 12.22 | ppb |
| Lead | 207-1 | 1.05 | 1.07 | 0.96 | 1.03 | 5.70 | ppb |
| Lead | 208-1 | 1.06 | 1.04 | 0.91 | 1.00 | 8.47 | ppb |
| Lithium | 6-1 | | | | 97 | | % |
| Magnesium | 24-2 | 508159.75 | 493367.74 | 499091.81 | 500206.43 | 1.49 | ppb |
| Manganese | 55-2 | 5.14 | 5.01 | 5.10 | 5.08 | 1.37 | ppb |
| Molybdenum | 94-1 | 3.04 | 2.89 | 2.61 | 2.85 | 7.59 | ppb |
| Molybdenum | 95-1 | 2.13 | 2.22 | 1.96 | 2.10 | 6.21 | ppb |
| Molybdenum | 96-1 | 3.60 | 4.53 | 3.42 | 3.85 | 15.50 | ppb |
| Molybdenum | 97-1 | 2.04 | 4.81 | 1.80 | 2.88 | 58.08 | ppb |
| Molybdenum | 98-1 | 1.91 | 4.87 | 1.76 | 2.85 | 61.66 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 3.61 | 3.66 | 3.30 | 3.52 | 5.56 | ppb |
| Phosphorus | 31-2 | -9.49 | -2.83 | -11.46 | -7.93 | | ppb |
| Potassium | 39-2 | 252196.65 | 243937.22 | 251739.47 | 249291.11 | 1.86 | ppb |
| Rhodium | 103-1 | | | | 86 | | % |
| Rhodium | 103-2 | | | | 89 | | % |
| Scandium | 45-1 | | | | 97 | | % |
| Scandium | 45-2 | | | | 101 | | % |
| Selenium | 82-1 | 1.16 | 1.70 | 2.51 | 1.79 | 37.84 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | -0.20 | -0.99 | 1.09 | -0.03 | | ppb |
| Silicon | 28-1 | 8.69 | 5.56 | 4.96 | 6.40 | 31.27 | ppb |
| Silver | 107-1 | 0.16 | 0.43 | 0.10 | 0.23 | 76.21 | ppb |
| Silver | 109-1 | 0.13 | 0.29 | 0.11 | 0.17 | 55.58 | ppb |
| Sodium | 23-2 | 507391.48 | 490547.57 | 497419.26 | 498452.77 | 1.70 | ppb |
| Strontium | 86-1 | 4.26 | 4.04 | 3.71 | 4.00 | 6.88 | ppb |
| Strontium | 88-1 | 4.42 | 4.03 | 3.91 | 4.12 | 6.43 | ppb |
| Sulfur | 34-1 | -1169.02 | -775.01 | -908.97 | -951.00 | | ppb |
| Terbium | 159-1 | | | | 101 | | % |
| Terbium | 159-2 | | | | 104 | | % |
| Thallium | 203-1 | 0.13 | 0.12 | 0.10 | 0.12 | 12.88 | ppb |
| Thallium | 205-1 | 0.14 | 0.13 | 0.10 | 0.12 | 19.02 | ppb |
| Tin | 118-1 | 0.31 | 0.41 | 0.37 | 0.37 | 12.95 | ppb |
| Titanium | 47-1 | 1.39 | 1.39 | 1.34 | 1.37 | 1.91 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S8 | Instrumnet Name : | P7 |
| Client Sample ID : | S8 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:44:46 | DataFile Name : | 012CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.06 | 0.07 | 0.05 | 0.06 | 20.02 | ppb |
| Vanadium | 51-2 | 0.31 | 0.26 | 0.27 | 0.28 | 9.65 | ppb |
| Yttrium | 89-1 | | | | 96 | | % |
| Yttrium | 89-2 | | | | 100 | | % |
| Zinc | 66-2 | 3.16 | 3.32 | 3.42 | 3.30 | 4.05 | ppb |
| Zirconium | 90-1 | 0.63 | 0.65 | 0.58 | 0.62 | 5.88 | ppb |
| Zirconium | 91-1 | 0.58 | 0.70 | 0.61 | 0.63 | 10.25 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | ICV01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 17:03:58 | DataFile Name : | 013ICV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 485.86 | 507.90 | 541.95 | 511.90 | 5.52 | ppb |
| Antimony | 121-1 | 198.71 | 196.83 | 199.38 | 198.30 | 0.67 | ppb |
| Arsenic | 75-2 | 193.14 | 189.99 | 212.57 | 198.57 | 6.16 | ppb |
| Barium | 135-1 | 96.04 | 94.82 | 96.43 | 95.76 | 0.88 | ppb |
| Barium | 137-1 | 95.95 | 95.20 | 96.60 | 95.92 | 0.73 | ppb |
| Beryllium | 9-1 | 101.08 | 101.94 | 100.90 | 101.31 | 0.55 | ppb |
| Bismuth | 209-1 | | | | 107 | | % |
| Bismuth | 209-2 | | | | 106 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 162.26 | 158.52 | 162.12 | 160.96 | 1.32 | ppb |
| Cadmium | 106-1 | 168.67 | 166.42 | 173.17 | 169.42 | 2.03 | ppb |
| Cadmium | 111-1 | 109.11 | 109.71 | 111.01 | 109.94 | 0.88 | ppb |
| Calcium | 43-1 | 2189.83 | 2170.58 | 2266.73 | 2209.05 | 2.30 | ppb |
| Calcium | 44-1 | 2142.05 | 2164.02 | 2183.94 | 2163.34 | 0.97 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 98.25 | 100.59 | 109.43 | 102.76 | 5.74 | ppb |
| Cobalt | 59-2 | 98.08 | 100.10 | 107.73 | 101.97 | 4.99 | ppb |
| Copper | 63-2 | 92.54 | 95.69 | 102.52 | 96.92 | 5.26 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 107 | | % |
| Holmium | 165-2 | | | | 106 | | % |
| Indium | 115-1 | | | | 103 | | % |
| Indium | 115-2 | | | | 103 | | % |
| Iron | 56-2 | 2069.14 | 2108.32 | 2224.01 | 2133.82 | 3.77 | ppb |
| Iron | 57-2 | 2103.20 | 2099.33 | 2295.69 | 2166.07 | 5.18 | ppb |
| Iron | 54-2 | 2224.07 | 2288.40 | 2477.47 | 2329.98 | 5.65 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | ICV01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 17:03:58 | DataFile Name : | 013ICV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 190.12 | 192.33 | 195.12 | 192.53 | 1.30 | ppb |
| Lead | 207-1 | 180.07 | 183.03 | 187.03 | 183.38 | 1.90 | ppb |
| Lead | 208-1 | 185.13 | 188.07 | 191.63 | 188.28 | 1.73 | ppb |
| Lithium | 6-1 | | | | 105 | | % |
| Magnesium | 24-2 | 1163.24 | 1203.15 | 1288.54 | 1218.31 | 5.25 | ppb |
| Manganese | 55-2 | 96.93 | 99.81 | 107.44 | 101.39 | 5.36 | ppb |
| Molybdenum | 94-1 | 4996.47 | 5130.25 | 5047.94 | 5058.22 | 1.33 | ppb |
| Molybdenum | 95-1 | 4909.74 | 4954.68 | 5027.24 | 4963.89 | 1.19 | ppb |
| Molybdenum | 96-1 | 4958.67 | 4937.12 | 5026.94 | 4974.24 | 0.94 | ppb |
| Molybdenum | 97-1 | 4961.00 | 4919.34 | 5048.95 | 4976.43 | 1.33 | ppb |
| Molybdenum | 98-1 | 4896.73 | 4996.29 | 4958.65 | 4950.56 | 1.02 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 100.22 | 101.71 | 110.15 | 104.03 | 5.15 | ppb |
| Phosphorus | 31-2 | -3.82 | -8.29 | -12.22 | -8.11 | | ppb |
| Potassium | 39-2 | 2024.59 | 2082.87 | 2282.07 | 2129.84 | 6.34 | ppb |
| Rhodium | 103-1 | | | | 103 | | % |
| Rhodium | 103-2 | | | | 104 | | % |
| Scandium | 45-1 | | | | 105 | | % |
| Scandium | 45-2 | | | | 105 | | % |
| Selenium | 82-1 | 203.21 | 205.32 | 208.95 | 205.83 | 1.41 | ppb |
| Selenium | 77-2 | 193.80 | 213.60 | 205.91 | 204.44 | 4.88 | ppb |
| Selenium | 78-2 | 196.27 | 198.86 | 221.28 | 205.47 | 6.69 | ppb |
| Silicon | 28-1 | 524.56 | 529.71 | 535.25 | 529.84 | 1.01 | ppb |
| Silver | 107-1 | 51.25 | 50.88 | 51.51 | 51.21 | 0.62 | ppb |
| Silver | 109-1 | 50.56 | 50.65 | 50.75 | 50.65 | 0.18 | ppb |
| Sodium | 23-2 | 2051.82 | 2101.23 | 2260.80 | 2137.95 | 5.11 | ppb |
| Strontium | 86-1 | 496.61 | 502.62 | 507.87 | 502.37 | 1.12 | ppb |
| Strontium | 88-1 | 500.04 | 510.36 | 514.31 | 508.24 | 1.45 | ppb |
| Sulfur | 34-1 | -1202.78 | -1145.59 | -1260.14 | -1202.83 | | ppb |
| Terbium | 159-1 | | | | 107 | | % |
| Terbium | 159-2 | | | | 108 | | % |
| Thallium | 203-1 | 186.99 | 189.00 | 193.56 | 189.85 | 1.77 | ppb |
| Thallium | 205-1 | 209.21 | 215.04 | 211.30 | 211.85 | 1.39 | ppb |
| Tin | 118-1 | 553.74 | 546.60 | 548.70 | 549.68 | 0.67 | ppb |
| Titanium | 47-1 | 4909.64 | 4974.31 | 4970.54 | 4951.50 | 0.73 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | ICV01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 17:03:58 | DataFile Name : | 013ICV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 505.96 | 510.47 | 518.02 | 511.48 | 1.19 | ppb |
| Vanadium | 51-2 | 91.21 | 95.74 | 100.64 | 95.86 | 4.92 | ppb |
| Yttrium | 89-1 | | | | 105 | | % |
| Yttrium | 89-2 | | | | 105 | | % |
| Zinc | 66-2 | 188.30 | 194.03 | 211.34 | 197.89 | 6.06 | ppb |
| Zirconium | 90-1 | 502.38 | 505.09 | 512.33 | 506.60 | 1.02 | ppb |
| Zirconium | 91-1 | 497.38 | 508.86 | 514.39 | 506.88 | 1.71 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | LLICV | Instrumnet Name : | P7 |
| Client Sample ID : | LLICV | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 17:09:27 | DataFile Name : | 014LLCC.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 20.07 | 19.89 | 18.77 | 19.58 | 3.60 | ppb |
| Antimony | 121-1 | 2.10 | 2.10 | 2.13 | 2.11 | 0.92 | ppb |
| Arsenic | 75-2 | 1.02 | 1.12 | 0.97 | 1.03 | 7.39 | ppb |
| Barium | 135-1 | 9.68 | 9.45 | 9.52 | 9.55 | 1.24 | ppb |
| Barium | 137-1 | 9.50 | 9.56 | 9.47 | 9.51 | 0.45 | ppb |
| Beryllium | 9-1 | 1.19 | 0.99 | 1.11 | 1.10 | 9.37 | ppb |
| Bismuth | 209-1 | | | | 108 | | % |
| Bismuth | 209-2 | | | | 110 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.99 | 0.86 | 0.73 | 0.86 | 15.14 | ppb |
| Cadmium | 106-1 | -0.98 | 0.01 | -0.75 | -0.57 | | ppb |
| Cadmium | 111-1 | 1.05 | 1.06 | 0.99 | 1.03 | 3.93 | ppb |
| Calcium | 43-1 | 526.84 | 546.27 | 527.90 | 533.67 | 2.05 | ppb |
| Calcium | 44-1 | 543.86 | 544.55 | 535.67 | 541.36 | 0.91 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1.96 | 2.00 | 2.08 | 2.01 | 3.21 | ppb |
| Cobalt | 59-2 | 1.04 | 1.12 | 1.03 | 1.06 | 4.91 | ppb |
| Copper | 63-2 | 2.02 | 1.82 | 1.96 | 1.93 | 5.36 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 107 | | % |
| Holmium | 165-2 | | | | 110 | | % |
| Indium | 115-1 | | | | 106 | | % |
| Indium | 115-2 | | | | 109 | | % |
| Iron | 56-2 | 57.97 | 56.45 | 58.32 | 57.58 | 1.73 | ppb |
| Iron | 57-2 | 52.52 | 57.90 | 52.95 | 54.46 | 5.48 | ppb |
| Iron | 54-2 | 58.68 | 57.65 | 58.66 | 58.33 | 1.01 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | LLICV | Instrumnet Name : | P7 |
| Client Sample ID : | LLICV | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 17:09:27 | DataFile Name : | 014LLCC.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.92 | 0.91 | 0.95 | 0.93 | 2.53 | ppb |
| Lead | 207-1 | 1.01 | 0.96 | 0.90 | 0.96 | 5.67 | ppb |
| Lead | 208-1 | 0.95 | 0.94 | 0.93 | 0.94 | 1.28 | ppb |
| Lithium | 6-1 | | | | 106 | | % |
| Magnesium | 24-2 | 536.28 | 527.40 | 542.22 | 535.30 | 1.39 | ppb |
| Manganese | 55-2 | 1.04 | 1.12 | 1.02 | 1.06 | 5.28 | ppb |
| Molybdenum | 94-1 | 6.12 | 6.38 | 6.12 | 6.21 | 2.46 | ppb |
| Molybdenum | 95-1 | 4.97 | 5.28 | 5.07 | 5.10 | 3.07 | ppb |
| Molybdenum | 96-1 | 5.23 | 5.46 | 5.26 | 5.31 | 2.33 | ppb |
| Molybdenum | 97-1 | 5.16 | 5.09 | 5.16 | 5.14 | 0.79 | ppb |
| Molybdenum | 98-1 | 5.21 | 4.98 | 5.11 | 5.10 | 2.29 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.94 | 1.00 | 1.06 | 1.00 | 5.93 | ppb |
| Phosphorus | 31-2 | 13.48 | 10.83 | 8.84 | 11.05 | 21.09 | ppb |
| Potassium | 39-2 | 514.80 | 504.80 | 522.84 | 514.14 | 1.76 | ppb |
| Rhodium | 103-1 | | | | 104 | | % |
| Rhodium | 103-2 | | | | 109 | | % |
| Scandium | 45-1 | | | | 106 | | % |
| Scandium | 45-2 | | | | 109 | | % |
| Selenium | 82-1 | 5.50 | 5.44 | 5.84 | 5.59 | 3.89 | ppb |
| Selenium | 77-2 | 1.74 | 4.67 | 5.19 | 3.87 | 48.22 | ppb |
| Selenium | 78-2 | 7.14 | 4.82 | 3.84 | 5.26 | 32.17 | ppb |
| Silicon | 28-1 | -1.88 | -1.92 | -3.11 | -2.30 | | ppb |
| Silver | 107-1 | 1.02 | 1.00 | 1.00 | 1.01 | 0.90 | ppb |
| Silver | 109-1 | 1.07 | 1.02 | 1.02 | 1.04 | 2.93 | ppb |
| Sodium | 23-2 | 556.36 | 542.90 | 552.37 | 550.55 | 1.26 | ppb |
| Strontium | 86-1 | 1.03 | 1.16 | 1.07 | 1.09 | 6.15 | ppb |
| Strontium | 88-1 | 1.04 | 1.08 | 1.03 | 1.05 | 2.47 | ppb |
| Sulfur | 34-1 | -1067.80 | -1216.06 | -1192.65 | -1158.84 | | ppb |
| Terbium | 159-1 | | | | 108 | | % |
| Terbium | 159-2 | | | | 109 | | % |
| Thallium | 203-1 | 0.86 | 0.90 | 0.91 | 0.89 | 2.96 | ppb |
| Thallium | 205-1 | 0.89 | 0.89 | 0.90 | 0.89 | 0.64 | ppb |
| Tin | 118-1 | 5.01 | 4.86 | 4.82 | 4.90 | 2.08 | ppb |
| Titanium | 47-1 | 5.53 | 5.85 | 5.22 | 5.54 | 5.72 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | LLICV | Instrumnet Name : | P7 |
| Client Sample ID : | LLICV | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 17:09:27 | DataFile Name : | 014LLCC.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.84 | 0.82 | 0.82 | 0.83 | 1.10 | ppb |
| Vanadium | 51-2 | 4.87 | 4.71 | 4.89 | 4.82 | 2.02 | ppb |
| Yttrium | 89-1 | | | | 105 | | % |
| Yttrium | 89-2 | | | | 108 | | % |
| Zinc | 66-2 | 5.29 | 5.45 | 5.08 | 5.27 | 3.49 | ppb |
| Zirconium | 90-1 | 1.08 | 1.11 | 1.11 | 1.10 | 1.47 | ppb |
| Zirconium | 91-1 | 1.09 | 1.07 | 1.16 | 1.10 | 4.01 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | ICB01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 17:17:04 | DataFile Name : | 015CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | -0.13 | -0.14 | -0.01 | -0.09 | | ppb |
| Antimony | 121-1 | 0.01 | 0.02 | 0.02 | 0.02 | 25.71 | ppb |
| Arsenic | 75-2 | 0.02 | 0.00 | 0.00 | 0.01 | 96.07 | ppb |
| Barium | 135-1 | 0.00 | -0.01 | 0.01 | 0.00 | 2038.84 | ppb |
| Barium | 137-1 | 0.00 | 0.00 | -0.01 | 0.00 | | ppb |
| Beryllium | 9-1 | 0.09 | 0.08 | 0.05 | 0.07 | 27.80 | ppb |
| Bismuth | 209-1 | | | | 104 | | % |
| Bismuth | 209-2 | | | | 110 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.03 | -0.02 | -0.02 | 0.00 | | ppb |
| Cadmium | 106-1 | -1.32 | -0.66 | -2.08 | -1.35 | | ppb |
| Cadmium | 111-1 | -0.10 | -0.05 | -0.15 | -0.10 | | ppb |
| Calcium | 43-1 | 3.74 | -1.38 | -4.56 | -0.73 | | ppb |
| Calcium | 44-1 | 0.53 | 0.29 | -0.80 | 0.01 | 8292.49 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.00 | -0.02 | -0.01 | -0.01 | | ppb |
| Cobalt | 59-2 | 0.01 | 0.01 | 0.00 | 0.00 | 167.99 | ppb |
| Copper | 63-2 | 0.09 | 0.01 | 0.10 | 0.07 | 77.99 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 104 | | % |
| Holmium | 165-2 | | | | 108 | | % |
| Indium | 115-1 | | | | 103 | | % |
| Indium | 115-2 | | | | 107 | | % |
| Iron | 56-2 | 0.38 | 0.06 | 0.36 | 0.27 | 67.76 | ppb |
| Iron | 57-2 | -4.43 | -4.16 | -2.41 | -3.67 | | ppb |
| Iron | 54-2 | -0.06 | -1.01 | -0.17 | -0.41 | | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | ICB01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 17:17:04 | DataFile Name : | 015CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.05 | 0.05 | 0.02 | 0.04 | 39.07 | ppb |
| Lead | 207-1 | 0.06 | 0.03 | 0.04 | 0.04 | 33.50 | ppb |
| Lead | 208-1 | 0.05 | 0.04 | 0.04 | 0.04 | 14.69 | ppb |
| Lithium | 6-1 | | | | 104 | | % |
| Magnesium | 24-2 | 0.99 | 0.46 | 0.65 | 0.70 | 38.17 | ppb |
| Manganese | 55-2 | 0.01 | 0.05 | 0.02 | 0.02 | 73.59 | ppb |
| Molybdenum | 94-1 | 0.04 | 0.09 | 0.05 | 0.06 | 40.69 | ppb |
| Molybdenum | 95-1 | 0.04 | 0.02 | 0.04 | 0.03 | 41.06 | ppb |
| Molybdenum | 96-1 | 0.04 | 0.04 | 0.04 | 0.04 | 7.43 | ppb |
| Molybdenum | 97-1 | 0.02 | 0.03 | 0.03 | 0.03 | 24.66 | ppb |
| Molybdenum | 98-1 | 0.04 | 0.04 | 0.03 | 0.04 | 15.52 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.02 | 0.00 | 0.00 | 0.01 | 246.66 | ppb |
| Phosphorus | 31-2 | -19.22 | -21.55 | -17.29 | -19.35 | | ppb |
| Potassium | 39-2 | -13.07 | -18.60 | -12.41 | -14.69 | | ppb |
| Rhodium | 103-1 | | | | 103 | | % |
| Rhodium | 103-2 | | | | 107 | | % |
| Scandium | 45-1 | | | | 103 | | % |
| Scandium | 45-2 | | | | 106 | | % |
| Selenium | 82-1 | -0.12 | 0.98 | -0.09 | 0.26 | 243.77 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | 1.08 | 0.15 | 1.92 | 1.05 | 83.98 | ppb |
| Silicon | 28-1 | -7.38 | -6.52 | -6.87 | -6.93 | | ppb |
| Silver | 107-1 | 0.01 | 0.00 | 0.01 | 0.01 | 47.97 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 9.87 | ppb |
| Sodium | 23-2 | 12.95 | 12.80 | 14.19 | 13.31 | 5.71 | ppb |
| Strontium | 86-1 | 0.04 | 0.04 | 0.02 | 0.03 | 43.04 | ppb |
| Strontium | 88-1 | 0.01 | 0.01 | 0.01 | 0.01 | 20.39 | ppb |
| Sulfur | 34-1 | -655.29 | -558.26 | -577.27 | -596.94 | | ppb |
| Terbium | 159-1 | | | | 104 | | % |
| Terbium | 159-2 | | | | 107 | | % |
| Thallium | 203-1 | 0.02 | 0.01 | 0.01 | 0.02 | 42.87 | ppb |
| Thallium | 205-1 | 0.02 | 0.02 | 0.01 | 0.02 | 18.30 | ppb |
| Tin | 118-1 | 0.02 | 0.01 | 0.01 | 0.01 | 65.21 | ppb |
| Titanium | 47-1 | 0.03 | 0.00 | 0.03 | 0.02 | 93.49 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | ICB01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 17:17:04 | DataFile Name : | 015CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | 116.92 | ppb |
| Vanadium | 51-2 | 0.00 | 0.00 | 0.00 | 0.00 | 421.82 | ppb |
| Yttrium | 89-1 | | | | 102 | | % |
| Yttrium | 89-2 | | | | 106 | | % |
| Zinc | 66-2 | 0.09 | 0.16 | 0.06 | 0.11 | 49.17 | ppb |
| Zirconium | 90-1 | 0.02 | 0.03 | 0.02 | 0.02 | 18.23 | ppb |
| Zirconium | 91-1 | 0.02 | 0.02 | 0.01 | 0.02 | 15.14 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | ICSA01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSA01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 17:20:27 | DataFile Name : | 016ICSA.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 91273.87 | 90342.67 | 89545.96 | 90387.50 | 0.96 | ppb |
| Antimony | 121-1 | 1.13 | 1.12 | 1.13 | 1.12 | 0.59 | ppb |
| Arsenic | 75-2 | 0.47 | 0.33 | 0.45 | 0.42 | 18.89 | ppb |
| Barium | 135-1 | 1.32 | 1.36 | 1.44 | 1.37 | 4.57 | ppb |
| Barium | 137-1 | 1.36 | 1.33 | 1.33 | 1.34 | 1.40 | ppb |
| Beryllium | 9-1 | 0.33 | 0.30 | 0.39 | 0.34 | 13.13 | ppb |
| Bismuth | 209-1 | | | | 100 | | % |
| Bismuth | 209-2 | | | | 105 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 8.64 | 9.27 | 8.16 | 8.69 | 6.41 | ppb |
| Cadmium | 106-1 | -0.39 | -1.87 | -2.75 | -1.67 | | ppb |
| Cadmium | 111-1 | 0.32 | 0.13 | 0.15 | 0.20 | 54.68 | ppb |
| Calcium | 43-1 | 101936.91 | 102519.92 | 106213.22 | 103556.69 | 2.24 | ppb |
| Calcium | 44-1 | 96414.92 | 97628.44 | 100906.67 | 98316.67 | 2.36 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 19.19 | 19.09 | 19.43 | 19.24 | 0.91 | ppb |
| Cobalt | 59-2 | 1.15 | 1.18 | 1.21 | 1.18 | 2.68 | ppb |
| Copper | 63-2 | 7.15 | 7.23 | 7.40 | 7.26 | 1.79 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 106 | | % |
| Holmium | 165-2 | | | | 110 | | % |
| Indium | 115-1 | | | | 98 | | % |
| Indium | 115-2 | | | | 103 | | % |
| Iron | 56-2 | 102947.00 | 101919.49 | 102134.57 | 102333.68 | 0.53 | ppb |
| Iron | 57-2 | 103428.01 | 102992.31 | 102863.54 | 103094.62 | 0.29 | ppb |
| Iron | 54-2 | 103424.06 | 101372.08 | 102176.95 | 102324.37 | 1.01 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | ICSA01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSA01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 17:20:27 | DataFile Name : | 016ICSA.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 4.29 | 4.45 | 4.24 | 4.33 | 2.52 | ppb |
| Lead | 207-1 | 3.80 | 3.85 | 3.86 | 3.84 | 0.79 | ppb |
| Lead | 208-1 | 4.01 | 4.09 | 4.03 | 4.04 | 0.96 | ppb |
| Lithium | 6-1 | | | | 99 | | % |
| Magnesium | 24-2 | 93467.81 | 92114.07 | 92680.60 | 92754.16 | 0.73 | ppb |
| Manganese | 55-2 | 7.97 | 7.78 | 7.43 | 7.73 | 3.52 | ppb |
| Molybdenum | 94-1 | 1613.75 | 1601.17 | 1642.14 | 1619.02 | 1.30 | ppb |
| Molybdenum | 95-1 | 1909.87 | 1908.84 | 1958.28 | 1925.66 | 1.47 | ppb |
| Molybdenum | 96-1 | 1885.99 | 1884.01 | 1904.40 | 1891.46 | 0.59 | ppb |
| Molybdenum | 97-1 | 1923.41 | 1938.96 | 1924.94 | 1929.10 | 0.44 | ppb |
| Molybdenum | 98-1 | 1919.81 | 1892.76 | 1938.73 | 1917.10 | 1.21 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 5.12 | 5.19 | 5.55 | 5.29 | 4.31 | ppb |
| Phosphorus | 31-2 | 94592.12 | 93634.71 | 94271.37 | 94166.06 | 0.52 | ppb |
| Potassium | 39-2 | 97347.59 | 96741.96 | 96462.45 | 96850.67 | 0.47 | ppb |
| Rhodium | 103-1 | | | | 93 | | % |
| Rhodium | 103-2 | | | | 99 | | % |
| Scandium | 45-1 | | | | 98 | | % |
| Scandium | 45-2 | | | | 103 | | % |
| Selenium | 82-1 | 0.66 | 0.76 | 0.67 | 0.70 | 8.13 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | -0.07 | 1.68 | 0.77 | 0.80 | 110.34 | ppb |
| Silicon | 28-1 | 15.75 | 17.66 | 21.85 | 18.42 | 16.95 | ppb |
| Silver | 107-1 | 0.07 | 0.08 | 0.09 | 0.08 | 16.77 | ppb |
| Silver | 109-1 | 0.08 | 0.06 | 0.09 | 0.08 | 15.39 | ppb |
| Sodium | 23-2 | 98303.62 | 97259.31 | 97874.34 | 97812.42 | 0.54 | ppb |
| Strontium | 86-1 | 33.40 | 33.60 | 33.87 | 33.62 | 0.70 | ppb |
| Strontium | 88-1 | 34.08 | 33.93 | 34.35 | 34.12 | 0.62 | ppb |
| Sulfur | 34-1 | 98652.57 | 101098.92 | 102387.01 | 100712.83 | 1.88 | ppb |
| Terbium | 159-1 | | | | 106 | | % |
| Terbium | 159-2 | | | | 109 | | % |
| Thallium | 203-1 | 0.17 | 0.16 | 0.15 | 0.16 | 4.91 | ppb |
| Thallium | 205-1 | 0.17 | 0.17 | 0.17 | 0.17 | 0.54 | ppb |
| Tin | 118-1 | 0.17 | 0.15 | 0.16 | 0.16 | 4.42 | ppb |
| Titanium | 47-1 | 2040.78 | 2049.76 | 2116.46 | 2069.00 | 2.00 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | ICSA01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSA01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 17:20:27 | DataFile Name : | 016ICSA.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.01 | 0.02 | 0.02 | 0.02 | 15.65 | ppb |
| Vanadium | 51-2 | 0.19 | 0.18 | 0.17 | 0.18 | 3.26 | ppb |
| Yttrium | 89-1 | | | | 100 | | % |
| Yttrium | 89-2 | | | | 105 | | % |
| Zinc | 66-2 | 10.77 | 11.32 | 11.03 | 11.04 | 2.50 | ppb |
| Zirconium | 90-1 | 0.06 | 0.06 | 0.05 | 0.06 | 9.70 | ppb |
| Zirconium | 91-1 | 0.03 | 0.05 | 0.07 | 0.05 | 37.02 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSAB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 17:23:38 | DataFile Name : | 017ICSB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 90184.61 | 87345.63 | 89878.13 | 89136.12 | 1.75 | ppb |
| Antimony | 121-1 | 20.16 | 20.78 | 19.96 | 20.30 | 2.11 | ppb |
| Arsenic | 75-2 | 18.63 | 18.61 | 18.69 | 18.64 | 0.24 | ppb |
| Barium | 135-1 | 19.86 | 20.45 | 19.62 | 19.97 | 2.15 | ppb |
| Barium | 137-1 | 19.48 | 20.45 | 19.51 | 19.81 | 2.79 | ppb |
| Beryllium | 9-1 | 20.09 | 19.86 | 19.72 | 19.89 | 0.93 | ppb |
| Bismuth | 209-1 | | | | 103 | | % |
| Bismuth | 209-2 | | | | 106 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 29.01 | 26.91 | 28.63 | 28.18 | 3.96 | ppb |
| Cadmium | 106-1 | 23.14 | 22.55 | 22.30 | 22.66 | 1.91 | ppb |
| Cadmium | 111-1 | 20.09 | 20.33 | 20.14 | 20.19 | 0.62 | ppb |
| Calcium | 43-1 | 102480.01 | 103789.95 | 104397.91 | 103555.96 | 0.95 | ppb |
| Calcium | 44-1 | 96770.26 | 98469.69 | 97719.24 | 97653.07 | 0.87 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 38.67 | 37.37 | 38.42 | 38.15 | 1.80 | ppb |
| Cobalt | 59-2 | 20.16 | 19.78 | 19.52 | 19.82 | 1.63 | ppb |
| Copper | 63-2 | 24.85 | 24.41 | 24.95 | 24.74 | 1.17 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 109 | | % |
| Holmium | 165-2 | | | | 111 | | % |
| Indium | 115-1 | | | | 102 | | % |
| Indium | 115-2 | | | | 105 | | % |
| Iron | 56-2 | 101144.82 | 101202.24 | 101598.78 | 101315.28 | 0.24 | ppb |
| Iron | 57-2 | 102237.54 | 102494.91 | 100454.57 | 101729.00 | 1.09 | ppb |
| Iron | 54-2 | 101536.28 | 100774.24 | 100606.95 | 100972.49 | 0.49 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSAB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 17:23:38 | DataFile Name : | 017ICSB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 23.79 | 23.89 | 24.45 | 24.04 | 1.47 | ppb |
| Lead | 207-1 | 22.90 | 22.75 | 23.49 | 23.05 | 1.70 | ppb |
| Lead | 208-1 | 23.20 | 23.19 | 23.76 | 23.38 | 1.39 | ppb |
| Lithium | 6-1 | | | | 103 | | % |
| Magnesium | 24-2 | 92758.84 | 89663.99 | 90103.36 | 90842.06 | 1.84 | ppb |
| Manganese | 55-2 | 27.15 | 25.66 | 26.33 | 26.38 | 2.82 | ppb |
| Molybdenum | 94-1 | 1719.88 | 1717.03 | 1744.62 | 1727.18 | 0.88 | ppb |
| Molybdenum | 95-1 | 1939.53 | 1940.94 | 1985.75 | 1955.41 | 1.34 | ppb |
| Molybdenum | 96-1 | 1933.18 | 1923.29 | 1966.06 | 1940.84 | 1.15 | ppb |
| Molybdenum | 97-1 | 1980.96 | 1986.46 | 2025.75 | 1997.72 | 1.22 | ppb |
| Molybdenum | 98-1 | 1972.45 | 1931.61 | 1974.99 | 1959.69 | 1.24 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 24.51 | 23.07 | 24.03 | 23.87 | 3.07 | ppb |
| Phosphorus | 31-2 | 94431.91 | 93071.52 | 93921.94 | 93808.46 | 0.73 | ppb |
| Potassium | 39-2 | 96429.01 | 95740.38 | 95183.22 | 95784.21 | 0.65 | ppb |
| Rhodium | 103-1 | | | | 97 | | % |
| Rhodium | 103-2 | | | | 101 | | % |
| Scandium | 45-1 | | | | 100 | | % |
| Scandium | 45-2 | | | | 105 | | % |
| Selenium | 82-1 | 20.72 | 20.64 | 20.60 | 20.65 | 0.30 | ppb |
| Selenium | 77-2 | 23.89 | 19.97 | 20.16 | 21.34 | 10.35 | ppb |
| Selenium | 78-2 | 14.52 | 19.06 | 18.94 | 17.51 | 14.77 | ppb |
| Silicon | 28-1 | 70.47 | 73.36 | 73.66 | 72.50 | 2.43 | ppb |
| Silver | 107-1 | 18.25 | 18.59 | 18.09 | 18.31 | 1.39 | ppb |
| Silver | 109-1 | 18.13 | 18.36 | 18.08 | 18.19 | 0.80 | ppb |
| Sodium | 23-2 | 98425.83 | 95133.13 | 98516.61 | 97358.53 | 1.98 | ppb |
| Strontium | 86-1 | 82.43 | 80.86 | 83.36 | 82.21 | 1.54 | ppb |
| Strontium | 88-1 | 82.88 | 82.16 | 83.54 | 82.86 | 0.84 | ppb |
| Sulfur | 34-1 | 99226.70 | 101140.32 | 101115.91 | 100494.31 | 1.09 | ppb |
| Terbium | 159-1 | | | | 109 | | % |
| Terbium | 159-2 | | | | 111 | | % |
| Thallium | 203-1 | 21.86 | 21.97 | 22.34 | 22.06 | 1.15 | ppb |
| Thallium | 205-1 | 22.01 | 21.96 | 22.71 | 22.23 | 1.88 | ppb |
| Tin | 118-1 | 48.64 | 50.16 | 49.30 | 49.37 | 1.55 | ppb |
| Titanium | 47-1 | 2094.29 | 2139.52 | 2135.24 | 2123.01 | 1.18 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSAB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 17:23:38 | DataFile Name : | 017ICSB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 43.30 | 43.90 | 44.44 | 43.88 | 1.30 | ppb |
| Vanadium | 51-2 | 18.54 | 18.12 | 18.23 | 18.30 | 1.18 | ppb |
| Yttrium | 89-1 | | | | 102 | | % |
| Yttrium | 89-2 | | | | 107 | | % |
| Zinc | 66-2 | 29.73 | 28.72 | 28.47 | 28.97 | 2.31 | ppb |
| Zirconium | 90-1 | 49.72 | 49.56 | 51.03 | 50.10 | 1.62 | ppb |
| Zirconium | 91-1 | 50.02 | 50.02 | 50.90 | 50.31 | 1.00 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCV01 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:04:58 | DataFile Name : | 024CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 49030.62 | 48284.45 | 50845.21 | 49386.76 | 2.67 | ppb |
| Antimony | 121-1 | 495.65 | 486.11 | 486.98 | 489.58 | 1.08 | ppb |
| Arsenic | 75-2 | 454.70 | 442.10 | 469.72 | 455.51 | 3.04 | ppb |
| Barium | 135-1 | 2514.65 | 2506.76 | 2415.72 | 2479.04 | 2.22 | ppb |
| Barium | 137-1 | 2461.97 | 2429.36 | 2393.66 | 2428.33 | 1.41 | ppb |
| Beryllium | 9-1 | 479.17 | 486.18 | 490.17 | 485.17 | 1.15 | ppb |
| Bismuth | 209-1 | | | | 96 | | % |
| Bismuth | 209-2 | | | | 88 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 478.08 | 483.67 | 472.48 | 478.08 | 1.17 | ppb |
| Cadmium | 106-1 | 477.55 | 481.84 | 470.96 | 476.78 | 1.15 | ppb |
| Cadmium | 111-1 | 476.78 | 472.81 | 471.63 | 473.74 | 0.57 | ppb |
| Calcium | 43-1 | 238788.62 | 242935.92 | 250815.87 | 244180.14 | 2.50 | ppb |
| Calcium | 44-1 | 240612.60 | 240094.16 | 249243.39 | 243316.71 | 2.11 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 462.77 | 465.75 | 487.95 | 472.16 | 2.91 | ppb |
| Cobalt | 59-2 | 490.19 | 494.05 | 517.34 | 500.53 | 2.93 | ppb |
| Copper | 63-2 | 4832.94 | 4835.60 | 5025.08 | 4897.87 | 2.25 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 105 | | % |
| Holmium | 165-2 | | | | 106 | | % |
| Indium | 115-1 | | | | 97 | | % |
| Indium | 115-2 | | | | 98 | | % |
| Iron | 56-2 | 124207.12 | 124096.19 | 130014.01 | 126105.77 | 2.68 | ppb |
| Iron | 57-2 | 124143.08 | 125516.24 | 129864.95 | 126508.09 | 2.36 | ppb |
| Iron | 54-2 | 124087.21 | 122250.48 | 129133.84 | 125157.18 | 2.85 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCV01 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:04:58 | DataFile Name : | 024CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2454.55 | 2458.79 | 2497.93 | 2470.42 | 0.97 | ppb |
| Lead | 207-1 | 2429.78 | 2493.39 | 2468.26 | 2463.81 | 1.30 | ppb |
| Lead | 208-1 | 2438.53 | 2478.32 | 2489.26 | 2468.71 | 1.08 | ppb |
| Lithium | 6-1 | | | | 104 | | % |
| Magnesium | 24-2 | 239980.33 | 239876.70 | 249767.24 | 243208.09 | 2.34 | ppb |
| Manganese | 55-2 | 4531.72 | 4527.32 | 4712.15 | 4590.39 | 2.30 | ppb |
| Molybdenum | 94-1 | 5257.57 | 5358.94 | 5375.39 | 5330.63 | 1.20 | ppb |
| Molybdenum | 95-1 | 5227.69 | 5365.92 | 5340.11 | 5311.24 | 1.38 | ppb |
| Molybdenum | 96-1 | 5227.45 | 5435.25 | 5349.58 | 5337.43 | 1.96 | ppb |
| Molybdenum | 97-1 | 5229.86 | 5393.86 | 5382.26 | 5335.33 | 1.72 | ppb |
| Molybdenum | 98-1 | 5217.00 | 5317.17 | 5298.97 | 5277.71 | 1.01 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 486.50 | 485.83 | 506.79 | 493.04 | 2.42 | ppb |
| Phosphorus | 31-2 | 9253.34 | 9224.35 | 9504.99 | 9327.56 | 1.65 | ppb |
| Potassium | 39-2 | 120590.48 | 120811.66 | 127183.18 | 122861.77 | 3.05 | ppb |
| Rhodium | 103-1 | | | | 92 | | % |
| Rhodium | 103-2 | | | | 94 | | % |
| Scandium | 45-1 | | | | 102 | | % |
| Scandium | 45-2 | | | | 103 | | % |
| Selenium | 82-1 | 466.79 | 478.55 | 469.39 | 471.58 | 1.31 | ppb |
| Selenium | 77-2 | 449.24 | 433.37 | 450.55 | 444.39 | 2.15 | ppb |
| Selenium | 78-2 | 451.85 | 438.03 | 464.28 | 451.39 | 2.91 | ppb |
| Silicon | 28-1 | 506.36 | 513.95 | 538.92 | 519.74 | 3.28 | ppb |
| Silver | 107-1 | 481.38 | 479.74 | 464.86 | 475.33 | 1.91 | ppb |
| Silver | 109-1 | 479.96 | 477.50 | 472.35 | 476.60 | 0.82 | ppb |
| Sodium | 23-2 | 247600.56 | 245354.87 | 257771.06 | 250242.16 | 2.64 | ppb |
| Strontium | 86-1 | 11925.24 | 12142.86 | 12275.87 | 12114.66 | 1.46 | ppb |
| Strontium | 88-1 | 11934.98 | 12059.16 | 12221.31 | 12071.81 | 1.19 | ppb |
| Sulfur | 34-1 | 8948.54 | 8735.20 | 9360.77 | 9014.84 | 3.53 | ppb |
| Terbium | 159-1 | | | | 103 | | % |
| Terbium | 159-2 | | | | 105 | | % |
| Thallium | 203-1 | 492.68 | 489.78 | 502.11 | 494.86 | 1.30 | ppb |
| Thallium | 205-1 | 483.87 | 493.00 | 506.75 | 494.54 | 2.33 | ppb |
| Tin | 118-1 | 505.34 | 495.02 | 504.61 | 501.66 | 1.15 | ppb |
| Titanium | 47-1 | 5217.02 | 5289.24 | 5367.04 | 5291.10 | 1.42 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCV01 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:04:58 | DataFile Name : | 024CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 497.21 | 499.92 | 513.08 | 503.40 | 1.69 | ppb |
| Vanadium | 51-2 | 458.98 | 456.58 | 481.68 | 465.75 | 2.97 | ppb |
| Yttrium | 89-1 | | | | 101 | | % |
| Yttrium | 89-2 | | | | 102 | | % |
| Zinc | 66-2 | 4756.92 | 4787.26 | 4983.87 | 4842.68 | 2.54 | ppb |
| Zirconium | 90-1 | 478.92 | 495.14 | 492.54 | 488.87 | 1.78 | ppb |
| Zirconium | 91-1 | 479.90 | 497.70 | 494.16 | 490.59 | 1.92 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCB01 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:07:52 | DataFile Name : | 025CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1.11 | 1.56 | 1.69 | 1.46 | 20.92 | ppb |
| Antimony | 121-1 | 0.43 | 0.40 | 0.42 | 0.42 | 3.20 | ppb |
| Arsenic | 75-2 | 0.02 | 0.00 | 0.04 | 0.02 | 80.75 | ppb |
| Barium | 135-1 | 0.09 | 0.06 | 0.09 | 0.08 | 19.90 | ppb |
| Barium | 137-1 | 0.13 | 0.09 | 0.07 | 0.09 | 32.93 | ppb |
| Beryllium | 9-1 | 0.57 | 0.48 | 0.37 | 0.47 | 21.26 | ppb |
| Bismuth | 209-1 | | | | 109 | | % |
| Bismuth | 209-2 | | | | 113 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | -0.02 | 0.11 | 0.11 | 0.07 | 111.21 | ppb |
| Cadmium | 106-1 | 0.01 | -0.96 | -2.16 | -1.04 | | ppb |
| Cadmium | 111-1 | 0.04 | -0.05 | -0.16 | -0.06 | | ppb |
| Calcium | 43-1 | 19.16 | 6.74 | 3.76 | 9.89 | 82.58 | ppb |
| Calcium | 44-1 | 32.12 | 8.74 | 7.24 | 16.04 | 87.01 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.02 | -0.02 | -0.03 | -0.02 | | ppb |
| Cobalt | 59-2 | 0.03 | 0.04 | 0.03 | 0.03 | 22.95 | ppb |
| Copper | 63-2 | 0.28 | 0.29 | 0.28 | 0.28 | 2.20 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 108 | | % |
| Holmium | 165-2 | | | | 111 | | % |
| Indium | 115-1 | | | | 107 | | % |
| Indium | 115-2 | | | | 111 | | % |
| Iron | 56-2 | 7.47 | 7.77 | 9.27 | 8.17 | 11.81 | ppb |
| Iron | 57-2 | 0.78 | 3.25 | 10.73 | 4.92 | 105.34 | ppb |
| Iron | 54-2 | 7.51 | 8.49 | 8.58 | 8.20 | 7.25 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCB01 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:07:52 | DataFile Name : | 025CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.44 | 0.28 | 0.23 | 0.32 | 35.75 | ppb |
| Lead | 207-1 | 0.88 | 0.28 | 0.21 | 0.45 | 81.10 | ppb |
| Lead | 208-1 | 0.76 | 0.27 | 0.23 | 0.42 | 69.96 | ppb |
| Lithium | 6-1 | | | | 110 | | % |
| Magnesium | 24-2 | 10.40 | 12.27 | 12.55 | 11.74 | 9.95 | ppb |
| Manganese | 55-2 | 0.30 | 0.27 | 0.27 | 0.28 | 5.75 | ppb |
| Molybdenum | 94-1 | 0.66 | 0.56 | 0.57 | 0.60 | 9.60 | ppb |
| Molybdenum | 95-1 | 0.45 | 0.32 | 0.32 | 0.37 | 20.84 | ppb |
| Molybdenum | 96-1 | 0.50 | 0.35 | 0.37 | 0.41 | 20.86 | ppb |
| Molybdenum | 97-1 | 0.48 | 0.34 | 0.39 | 0.41 | 17.29 | ppb |
| Molybdenum | 98-1 | 0.45 | 0.34 | 0.34 | 0.38 | 17.23 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.05 | 0.00 | -0.02 | -0.02 | | ppb |
| Phosphorus | 31-2 | -8.51 | -14.67 | -11.88 | -11.69 | | ppb |
| Potassium | 39-2 | 8.20 | 6.76 | 9.42 | 8.13 | 16.40 | ppb |
| Rhodium | 103-1 | | | | 104 | | % |
| Rhodium | 103-2 | | | | 110 | | % |
| Scandium | 45-1 | | | | 106 | | % |
| Scandium | 45-2 | | | | 111 | | % |
| Selenium | 82-1 | 0.69 | 0.00 | 0.34 | 0.34 | 101.36 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | -0.37 | -0.04 | -1.36 | -0.59 | | ppb |
| Silicon | 28-1 | -6.27 | -7.96 | -7.67 | -7.30 | | ppb |
| Silver | 107-1 | 0.09 | 0.06 | 0.06 | 0.07 | 27.93 | ppb |
| Silver | 109-1 | 0.08 | 0.06 | 0.05 | 0.07 | 24.24 | ppb |
| Sodium | 23-2 | 99.18 | 96.57 | 97.33 | 97.69 | 1.37 | ppb |
| Strontium | 86-1 | 0.71 | 0.40 | 0.39 | 0.50 | 37.44 | ppb |
| Strontium | 88-1 | 0.82 | 0.36 | 0.32 | 0.50 | 55.21 | ppb |
| Sulfur | 34-1 | -1390.86 | -1477.23 | -1359.42 | -1409.17 | | ppb |
| Terbium | 159-1 | | | | 109 | | % |
| Terbium | 159-2 | | | | 112 | | % |
| Thallium | 203-1 | 0.09 | 0.07 | 0.06 | 0.07 | 17.81 | ppb |
| Thallium | 205-1 | 0.10 | 0.06 | 0.06 | 0.08 | 27.98 | ppb |
| Tin | 118-1 | 0.08 | 0.09 | 0.13 | 0.10 | 26.96 | ppb |
| Titanium | 47-1 | 0.69 | 0.23 | 0.29 | 0.40 | 62.27 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCB01 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:07:52 | DataFile Name : | 025CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.12 | 0.01 | 0.01 | 0.05 | 129.72 | ppb |
| Vanadium | 51-2 | 0.01 | 0.01 | 0.03 | 0.02 | 68.20 | ppb |
| Yttrium | 89-1 | | | | 105 | | % |
| Yttrium | 89-2 | | | | 111 | | % |
| Zinc | 66-2 | 0.53 | 0.58 | 0.51 | 0.54 | 7.06 | ppb |
| Zirconium | 90-1 | 0.18 | 0.14 | 0.14 | 0.15 | 15.12 | ppb |
| Zirconium | 91-1 | 0.14 | 0.16 | 0.16 | 0.15 | 8.11 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CRI | Instrumnet Name : | P7 |
| Client Sample ID : | CRI | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:11:51 | DataFile Name : | 026LLCC.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 19.78 | 17.44 | 20.12 | 19.12 | 7.63 | ppb |
| Antimony | 121-1 | 2.07 | 2.16 | 2.18 | 2.14 | 2.79 | ppb |
| Arsenic | 75-2 | 1.10 | 0.97 | 1.19 | 1.09 | 10.02 | ppb |
| Barium | 135-1 | 9.12 | 9.71 | 9.77 | 9.53 | 3.76 | ppb |
| Barium | 137-1 | 9.17 | 9.48 | 9.61 | 9.42 | 2.41 | ppb |
| Beryllium | 9-1 | 1.22 | 1.27 | 1.39 | 1.29 | 6.66 | ppb |
| Bismuth | 209-1 | | | | 107 | | % |
| Bismuth | 209-2 | | | | 113 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.98 | 1.14 | 1.31 | 1.14 | 14.34 | ppb |
| Cadmium | 106-1 | 1.27 | 1.37 | 0.02 | 0.89 | 84.75 | ppb |
| Cadmium | 111-1 | 1.07 | 1.11 | 1.03 | 1.07 | 3.70 | ppb |
| Calcium | 43-1 | 538.23 | 529.83 | 529.97 | 532.68 | 0.90 | ppb |
| Calcium | 44-1 | 535.39 | 556.89 | 550.81 | 547.70 | 2.02 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 2.07 | 2.06 | 1.93 | 2.02 | 3.96 | ppb |
| Cobalt | 59-2 | 1.04 | 1.09 | 1.06 | 1.06 | 2.81 | ppb |
| Copper | 63-2 | 2.00 | 1.93 | 2.10 | 2.01 | 4.40 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 107 | | % |
| Holmium | 165-2 | | | | 112 | | % |
| Indium | 115-1 | | | | 106 | | % |
| Indium | 115-2 | | | | 111 | | % |
| Iron | 56-2 | 60.51 | 58.57 | 58.63 | 59.24 | 1.86 | ppb |
| Iron | 57-2 | 57.70 | 59.85 | 60.24 | 59.26 | 2.31 | ppb |
| Iron | 54-2 | 63.37 | 57.90 | 60.66 | 60.64 | 4.51 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CRI | Instrumnet Name : | P7 |
| Client Sample ID : | CRI | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:11:51 | DataFile Name : | 026LLCC.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 1.07 | 1.01 | 1.04 | 1.04 | 2.98 | ppb |
| Lead | 207-1 | 0.96 | 0.99 | 1.00 | 0.98 | 2.16 | ppb |
| Lead | 208-1 | 1.01 | 1.00 | 0.98 | 1.00 | 1.33 | ppb |
| Lithium | 6-1 | | | | 108 | | % |
| Magnesium | 24-2 | 537.07 | 523.51 | 529.81 | 530.13 | 1.28 | ppb |
| Manganese | 55-2 | 1.15 | 1.08 | 1.07 | 1.10 | 4.23 | ppb |
| Molybdenum | 94-1 | 6.16 | 6.53 | 6.30 | 6.33 | 2.91 | ppb |
| Molybdenum | 95-1 | 4.98 | 5.06 | 5.23 | 5.09 | 2.45 | ppb |
| Molybdenum | 96-1 | 4.92 | 5.38 | 5.00 | 5.10 | 4.83 | ppb |
| Molybdenum | 97-1 | 5.08 | 5.09 | 5.15 | 5.10 | 0.78 | ppb |
| Molybdenum | 98-1 | 4.90 | 5.13 | 5.18 | 5.07 | 2.94 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 1.07 | 1.01 | 1.00 | 1.02 | 3.49 | ppb |
| Phosphorus | 31-2 | 6.73 | 9.12 | 9.20 | 8.35 | 16.79 | ppb |
| Potassium | 39-2 | 538.94 | 509.92 | 518.86 | 522.57 | 2.84 | ppb |
| Rhodium | 103-1 | | | | 104 | | % |
| Rhodium | 103-2 | | | | 111 | | % |
| Scandium | 45-1 | | | | 106 | | % |
| Scandium | 45-2 | | | | 111 | | % |
| Selenium | 82-1 | 5.44 | 5.92 | 6.11 | 5.82 | 5.98 | ppb |
| Selenium | 77-2 | 5.11 | 6.18 | 2.28 | 4.52 | 44.59 | ppb |
| Selenium | 78-2 | 6.24 | 6.11 | 2.53 | 4.96 | 42.46 | ppb |
| Silicon | 28-1 | -5.53 | -1.89 | -2.26 | -3.23 | | ppb |
| Silver | 107-1 | 1.01 | 1.03 | 1.03 | 1.02 | 1.36 | ppb |
| Silver | 109-1 | 1.00 | 1.07 | 1.06 | 1.04 | 3.78 | ppb |
| Sodium | 23-2 | 595.87 | 573.79 | 581.88 | 583.85 | 1.91 | ppb |
| Strontium | 86-1 | 1.11 | 1.14 | 1.03 | 1.10 | 5.23 | ppb |
| Strontium | 88-1 | 1.04 | 1.12 | 1.07 | 1.08 | 3.55 | ppb |
| Sulfur | 34-1 | -1234.07 | -957.83 | -1078.74 | -1090.22 | | ppb |
| Terbium | 159-1 | | | | 107 | | % |
| Terbium | 159-2 | | | | 113 | | % |
| Thallium | 203-1 | 0.93 | 0.93 | 0.89 | 0.92 | 2.46 | ppb |
| Thallium | 205-1 | 0.90 | 0.93 | 0.89 | 0.91 | 2.53 | ppb |
| Tin | 118-1 | 4.59 | 5.14 | 5.05 | 4.92 | 6.00 | ppb |
| Titanium | 47-1 | 5.36 | 5.34 | 5.24 | 5.31 | 1.23 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CRI | Instrumnet Name : | P7 |
| Client Sample ID : | CRI | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:11:51 | DataFile Name : | 026LLCC.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.82 | 0.82 | 0.82 | 0.82 | 0.11 | ppb |
| Vanadium | 51-2 | 4.78 | 4.76 | 4.65 | 4.73 | 1.41 | ppb |
| Yttrium | 89-1 | | | | 105 | | % |
| Yttrium | 89-2 | | | | 111 | | % |
| Zinc | 66-2 | 5.63 | 4.80 | 5.12 | 5.19 | 8.05 | ppb |
| Zirconium | 90-1 | 1.06 | 1.15 | 1.09 | 1.10 | 3.96 | ppb |
| Zirconium | 91-1 | 0.98 | 1.19 | 1.07 | 1.08 | 9.43 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-02 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-TM1-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:25:28 | DataFile Name : | 027SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2539.80 | 2553.29 | 2549.19 | 2547.43 | 0.27 | ppb |
| Antimony | 121-1 | 811.82 | 788.67 | 789.12 | 796.54 | 1.66 | ppb |
| Arsenic | 75-2 | 544.34 | 533.76 | 545.65 | 541.25 | 1.20 | ppb |
| Barium | 135-1 | 604.38 | 590.38 | 608.52 | 601.09 | 1.58 | ppb |
| Barium | 137-1 | 602.25 | 590.15 | 601.76 | 598.05 | 1.14 | ppb |
| Beryllium | 9-1 | 300.28 | 298.46 | 300.52 | 299.75 | 0.38 | ppb |
| Bismuth | 209-1 | | | | 108 | | % |
| Bismuth | 209-2 | | | | 111 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 363.69 | 352.22 | 349.73 | 355.21 | 2.10 | ppb |
| Cadmium | 106-1 | 338.08 | 318.63 | 330.48 | 329.06 | 2.98 | ppb |
| Cadmium | 111-1 | 405.37 | 396.46 | 405.94 | 402.59 | 1.32 | ppb |
| Calcium | 43-1 | 163.25 | 171.98 | 178.84 | 171.36 | 4.56 | ppb |
| Calcium | 44-1 | 88.43 | 89.03 | 90.69 | 89.38 | 1.31 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 561.25 | 566.09 | 561.85 | 563.06 | 0.47 | ppb |
| Cobalt | 59-2 | 179.84 | 181.30 | 180.59 | 180.58 | 0.41 | ppb |
| Copper | 63-2 | 651.33 | 662.27 | 658.04 | 657.21 | 0.84 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 108 | | % |
| Holmium | 165-2 | | | | 111 | | % |
| Indium | 115-1 | | | | 108 | | % |
| Indium | 115-2 | | | | 111 | | % |
| Iron | 56-2 | 1477.70 | 1520.46 | 1483.85 | 1494.01 | 1.55 | ppb |
| Iron | 57-2 | 1359.12 | 1361.45 | 1377.98 | 1366.18 | 0.75 | ppb |
| Iron | 54-2 | 1955.77 | 1973.98 | 1974.46 | 1968.07 | 0.54 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-02 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-TM1-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:25:28 | DataFile Name : | 027SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 959.66 | 940.28 | 947.98 | 949.31 | 1.03 | ppb |
| Lead | 207-1 | 932.06 | 932.98 | 922.55 | 929.20 | 0.62 | ppb |
| Lead | 208-1 | 939.31 | 936.42 | 929.56 | 935.10 | 0.54 | ppb |
| Lithium | 6-1 | | | | 109 | | % |
| Magnesium | 24-2 | 2.67 | 2.05 | 2.46 | 2.40 | 13.17 | ppb |
| Manganese | 55-2 | 623.25 | 631.43 | 630.37 | 628.35 | 0.71 | ppb |
| Molybdenum | 94-1 | 441.81 | 440.35 | 446.73 | 442.96 | 0.75 | ppb |
| Molybdenum | 95-1 | 529.88 | 528.21 | 532.41 | 530.17 | 0.40 | ppb |
| Molybdenum | 96-1 | 515.93 | 519.55 | 523.63 | 519.70 | 0.74 | ppb |
| Molybdenum | 97-1 | 530.85 | 529.39 | 539.36 | 533.20 | 1.01 | ppb |
| Molybdenum | 98-1 | 529.99 | 524.88 | 530.09 | 528.32 | 0.56 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 1600.51 | 1613.12 | 1615.89 | 1609.84 | 0.51 | ppb |
| Phosphorus | 31-2 | -22.90 | -21.39 | -17.27 | -20.52 | | ppb |
| Potassium | 39-2 | -17.08 | -17.31 | -19.44 | -17.94 | | ppb |
| Rhodium | 103-1 | | | | 107 | | % |
| Rhodium | 103-2 | | | | 110 | | % |
| Scandium | 45-1 | | | | 108 | | % |
| Scandium | 45-2 | | | | 111 | | % |
| Selenium | 82-1 | 479.85 | 484.37 | 487.40 | 483.87 | 0.78 | ppb |
| Selenium | 77-2 | 484.53 | 451.02 | 477.86 | 471.14 | 3.77 | ppb |
| Selenium | 78-2 | 458.52 | 465.11 | 454.75 | 459.46 | 1.14 | ppb |
| Silicon | 28-1 | 311.37 | 311.98 | 313.86 | 312.40 | 0.42 | ppb |
| Silver | 107-1 | 612.75 | 585.49 | 605.81 | 601.35 | 2.36 | ppb |
| Silver | 109-1 | 608.11 | 599.81 | 610.87 | 606.26 | 0.95 | ppb |
| Sodium | 23-2 | 92.39 | 94.81 | 95.41 | 94.20 | 1.70 | ppb |
| Strontium | 86-1 | 439.30 | 441.75 | 443.26 | 441.44 | 0.45 | ppb |
| Strontium | 88-1 | 444.55 | 437.02 | 447.43 | 443.00 | 1.21 | ppb |
| Sulfur | 34-1 | -1249.11 | -1549.28 | -1558.23 | -1452.21 | | ppb |
| Terbium | 159-1 | | | | 108 | | % |
| Terbium | 159-2 | | | | 112 | | % |
| Thallium | 203-1 | 423.08 | 413.05 | 405.85 | 413.99 | 2.09 | ppb |
| Thallium | 205-1 | 422.25 | 415.54 | 405.90 | 414.57 | 1.98 | ppb |
| Tin | 118-1 | 0.34 | 0.36 | 0.29 | 0.33 | 10.58 | ppb |
| Titanium | 47-1 | 0.33 | 0.28 | 0.28 | 0.30 | 9.25 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-02 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-TM1-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:25:28 | DataFile Name : | 027SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | 93.81 | ppb |
| Vanadium | 51-2 | 1027.38 | 1034.28 | 1029.99 | 1030.55 | 0.34 | ppb |
| Yttrium | 89-1 | | | | 108 | | % |
| Yttrium | 89-2 | | | | 111 | | % |
| Zinc | 66-2 | 609.62 | 612.77 | 615.23 | 612.54 | 0.46 | ppb |
| Zirconium | 90-1 | 0.31 | 0.32 | 0.34 | 0.32 | 4.92 | ppb |
| Zirconium | 91-1 | 0.48 | 0.49 | 0.45 | 0.47 | 3.62 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-04 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-SNTI-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:28:38 | DataFile Name : | 028SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 73.50 | 75.05 | 73.59 | 74.05 | 1.17 | ppb |
| Antimony | 121-1 | 0.38 | 0.37 | 0.39 | 0.38 | 1.91 | ppb |
| Arsenic | 75-2 | 0.04 | 0.00 | 0.05 | 0.03 | 80.56 | ppb |
| Barium | 135-1 | 0.25 | 0.22 | 0.20 | 0.22 | 9.53 | ppb |
| Barium | 137-1 | 0.21 | 0.23 | 0.16 | 0.20 | 17.81 | ppb |
| Beryllium | 9-1 | 0.27 | 0.22 | 0.20 | 0.23 | 15.56 | ppb |
| Bismuth | 209-1 | | | | 109 | | % |
| Bismuth | 209-2 | | | | 114 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.12 | 0.11 | 0.20 | 0.14 | 35.68 | ppb |
| Cadmium | 106-1 | 0.60 | -1.24 | -1.59 | -0.74 | | ppb |
| Cadmium | 111-1 | 0.07 | -0.06 | -0.11 | -0.04 | | ppb |
| Calcium | 43-1 | 2.82 | 1.38 | -0.23 | 1.33 | 114.93 | ppb |
| Calcium | 44-1 | 8.98 | 9.37 | 8.08 | 8.81 | 7.50 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.05 | 0.05 | 0.04 | 0.05 | 12.23 | ppb |
| Cobalt | 59-2 | 0.04 | 0.04 | 0.04 | 0.04 | 4.42 | ppb |
| Copper | 63-2 | 0.13 | 0.12 | 0.18 | 0.14 | 20.67 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 111 | | % |
| Holmium | 165-2 | | | | 112 | | % |
| Indium | 115-1 | | | | 104 | | % |
| Indium | 115-2 | | | | 108 | | % |
| Iron | 56-2 | 1.92 | 2.34 | 2.31 | 2.19 | 10.68 | ppb |
| Iron | 57-2 | -2.08 | -2.30 | -2.98 | -2.46 | | ppb |
| Iron | 54-2 | 1.90 | 0.70 | 2.72 | 1.77 | 57.16 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-04 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-SNTI-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:28:38 | DataFile Name : | 028SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.18 | 0.19 | 0.20 | 0.19 | 3.43 | ppb |
| Lead | 207-1 | 0.17 | 0.17 | 0.17 | 0.17 | 1.64 | ppb |
| Lead | 208-1 | 0.20 | 0.19 | 0.17 | 0.19 | 9.28 | ppb |
| Lithium | 6-1 | | | | 111 | | % |
| Magnesium | 24-2 | 3.06 | 4.09 | 3.89 | 3.68 | 14.82 | ppb |
| Manganese | 55-2 | 0.07 | 0.11 | 0.07 | 0.09 | 28.01 | ppb |
| Molybdenum | 94-1 | 3.17 | 2.92 | 3.12 | 3.07 | 4.34 | ppb |
| Molybdenum | 95-1 | 0.07 | 0.08 | 0.06 | 0.07 | 10.42 | ppb |
| Molybdenum | 96-1 | 0.40 | 0.41 | 0.36 | 0.39 | 6.54 | ppb |
| Molybdenum | 97-1 | 0.09 | 0.05 | 0.05 | 0.07 | 37.24 | ppb |
| Molybdenum | 98-1 | 0.09 | 0.09 | 0.07 | 0.08 | 11.90 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.26 | 0.24 | 0.27 | 0.26 | 6.25 | ppb |
| Phosphorus | 31-2 | -8.94 | -16.79 | -21.40 | -15.71 | | ppb |
| Potassium | 39-2 | -16.83 | -11.74 | -14.92 | -14.50 | | ppb |
| Rhodium | 103-1 | | | | 108 | | % |
| Rhodium | 103-2 | | | | 112 | | % |
| Scandium | 45-1 | | | | 109 | | % |
| Scandium | 45-2 | | | | 112 | | % |
| Selenium | 82-1 | -0.30 | -0.13 | 0.64 | 0.07 | 735.33 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | -1.11 | 0.57 | 0.43 | -0.04 | | ppb |
| Silicon | 28-1 | 1839.60 | 1845.69 | 1811.57 | 1832.29 | 0.99 | ppb |
| Silver | 107-1 | 0.13 | 0.10 | 0.07 | 0.10 | 31.22 | ppb |
| Silver | 109-1 | 0.13 | 0.08 | 0.07 | 0.10 | 34.51 | ppb |
| Sodium | 23-2 | 231.94 | 234.12 | 234.77 | 233.61 | 0.63 | ppb |
| Strontium | 86-1 | 0.04 | 0.04 | 0.04 | 0.04 | 3.34 | ppb |
| Strontium | 88-1 | 0.06 | 0.05 | 0.05 | 0.05 | 8.89 | ppb |
| Sulfur | 34-1 | -1820.16 | -2045.38 | -2064.11 | -1976.55 | | ppb |
| Terbium | 159-1 | | | | 108 | | % |
| Terbium | 159-2 | | | | 113 | | % |
| Thallium | 203-1 | 0.08 | 0.09 | 0.07 | 0.08 | 6.87 | ppb |
| Thallium | 205-1 | 0.08 | 0.07 | 0.07 | 0.07 | 9.86 | ppb |
| Tin | 118-1 | 1303.80 | 1274.73 | 1281.45 | 1286.66 | 1.18 | ppb |
| Titanium | 47-1 | 97.49 | 97.72 | 96.13 | 97.11 | 0.89 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-04 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-SNTI-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:28:38 | DataFile Name : | 028SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | 32.75 | ppb |
| Vanadium | 51-2 | 0.06 | 0.03 | 0.04 | 0.04 | 31.90 | ppb |
| Yttrium | 89-1 | | | | 110 | | % |
| Yttrium | 89-2 | | | | 112 | | % |
| Zinc | 66-2 | 0.25 | 0.30 | 0.48 | 0.34 | 35.06 | ppb |
| Zirconium | 90-1 | 1.64 | 1.61 | 1.53 | 1.59 | 3.51 | ppb |
| Zirconium | 91-1 | 1.60 | 1.67 | 1.52 | 1.59 | 4.79 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-06 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-MIN2-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:32:00 | DataFile Name : | 029SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | -0.36 | -0.32 | -0.19 | -0.29 | | ppb |
| Antimony | 121-1 | 0.19 | 0.12 | 0.08 | 0.13 | 46.68 | ppb |
| Arsenic | 75-2 | 0.10 | 0.06 | 0.04 | 0.07 | 46.02 | ppb |
| Barium | 135-1 | 0.29 | 0.34 | 0.25 | 0.29 | 14.86 | ppb |
| Barium | 137-1 | 0.24 | 0.30 | 0.24 | 0.26 | 13.77 | ppb |
| Beryllium | 9-1 | 0.12 | 0.12 | 0.09 | 0.11 | 16.42 | ppb |
| Bismuth | 209-1 | | | | 143 | | % |
| Bismuth | 209-2 | | | | 145 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | -0.03 | -0.03 | 0.10 | 0.01 | 623.98 | ppb |
| Cadmium | 106-1 | -1.07 | -1.98 | -1.12 | -1.39 | | ppb |
| Cadmium | 111-1 | 0.02 | -0.09 | -0.07 | -0.05 | | ppb |
| Calcium | 43-1 | 71049.10 | 82300.67 | 69808.81 | 74386.19 | 9.25 | ppb |
| Calcium | 44-1 | 66702.88 | 77504.21 | 65859.07 | 70022.05 | 9.27 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.09 | -0.09 | -0.07 | -0.08 | | ppb |
| Cobalt | 59-2 | 0.08 | 0.05 | 0.07 | 0.07 | 18.77 | ppb |
| Copper | 63-2 | 0.04 | 0.04 | 0.02 | 0.03 | 25.01 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 150 | | % |
| Holmium | 165-2 | | | | 148 | | % |
| Indium | 115-1 | | | | 146 | | % |
| Indium | 115-2 | | | | 144 | | % |
| Iron | 56-2 | -0.41 | -0.26 | -0.30 | -0.32 | | ppb |
| Iron | 57-2 | 360.09 | 378.84 | 379.15 | 372.69 | 2.93 | ppb |
| Iron | 54-2 | -8.15 | -7.56 | -8.31 | -8.01 | | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-06 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-MIN2-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:32:00 | DataFile Name : | 029SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 1.22 | 1.32 | 1.15 | 1.23 | 7.17 | ppb |
| Lead | 207-1 | 1.18 | 1.40 | 1.13 | 1.24 | 11.55 | ppb |
| Lead | 208-1 | 1.20 | 1.37 | 1.11 | 1.22 | 10.79 | ppb |
| Lithium | 6-1 | | | | 140 | | % |
| Magnesium | 24-2 | 27673.46 | 27937.62 | 27827.75 | 27812.94 | 0.48 | ppb |
| Manganese | 55-2 | 0.13 | 0.10 | 0.12 | 0.12 | 11.78 | ppb |
| Molybdenum | 94-1 | 0.59 | 0.71 | 0.60 | 0.63 | 10.24 | ppb |
| Molybdenum | 95-1 | 0.70 | 0.82 | 0.71 | 0.74 | 9.33 | ppb |
| Molybdenum | 96-1 | 0.71 | 0.85 | 0.70 | 0.76 | 10.93 | ppb |
| Molybdenum | 97-1 | 0.71 | 0.86 | 0.71 | 0.76 | 10.80 | ppb |
| Molybdenum | 98-1 | 0.74 | 0.84 | 0.71 | 0.76 | 8.59 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.00 | 0.03 | 0.02 | 0.02 | 78.42 | ppb |
| Phosphorus | 31-2 | -31.88 | -30.23 | -32.75 | -31.62 | | ppb |
| Potassium | 39-2 | 21709.47 | 21837.50 | 21918.92 | 21821.97 | 0.48 | ppb |
| Rhodium | 103-1 | | | | 142 | | % |
| Rhodium | 103-2 | | | | 145 | | % |
| Scandium | 45-1 | | | | 151 | | % |
| Scandium | 45-2 | | | | 149 | | % |
| Selenium | 82-1 | 0.56 | -0.39 | 0.68 | 0.28 | 209.24 | ppb |
| Selenium | 77-2 | 0.00 | 0.43 | 0.00 | 0.14 | 173.21 | ppb |
| Selenium | 78-2 | -2.44 | -0.98 | 0.08 | -1.11 | | ppb |
| Silicon | 28-1 | -50.98 | -42.26 | -49.61 | -47.62 | | ppb |
| Silver | 107-1 | 0.02 | 0.02 | 0.02 | 0.02 | 5.56 | ppb |
| Silver | 109-1 | 0.01 | 0.02 | 0.01 | 0.01 | 13.94 | ppb |
| Sodium | 23-2 | 85530.67 | 86714.65 | 86548.37 | 86264.56 | 0.74 | ppb |
| Strontium | 86-1 | 6.63 | 8.09 | 6.79 | 7.17 | 11.19 | ppb |
| Strontium | 88-1 | 6.73 | 7.97 | 6.77 | 7.16 | 9.81 | ppb |
| Sulfur | 34-1 | -4116.38 | -2995.30 | -3431.13 | -3514.27 | | ppb |
| Terbium | 159-1 | | | | 148 | | % |
| Terbium | 159-2 | | | | 148 | | % |
| Thallium | 203-1 | 0.60 | 0.42 | 0.23 | 0.42 | 44.12 | ppb |
| Thallium | 205-1 | 0.65 | 0.41 | 0.22 | 0.43 | 50.79 | ppb |
| Tin | 118-1 | 0.41 | 0.30 | 0.12 | 0.28 | 51.49 | ppb |
| Titanium | 47-1 | -0.02 | 0.00 | -0.02 | -0.01 | | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-06 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-MIN2-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:32:00 | DataFile Name : | 029SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | 36.33 | ppb |
| Vanadium | 51-2 | 0.00 | 0.00 | 0.01 | 0.00 | 71.28 | ppb |
| Yttrium | 89-1 | | | | 148 | | % |
| Yttrium | 89-2 | | | | 146 | | % |
| Zinc | 66-2 | 0.87 | 0.84 | 0.73 | 0.82 | 9.10 | ppb |
| Zirconium | 90-1 | -0.01 | 0.00 | 0.00 | 0.00 | | ppb |
| Zirconium | 91-1 | -0.01 | -0.01 | 0.00 | -0.01 | | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-02 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-TM1-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:35:16 | DataFile Name : | 030SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2605.47 | 2581.15 | 2636.73 | 2607.78 | 1.07 | ppb |
| Antimony | 121-1 | 788.50 | 813.54 | 815.56 | 805.87 | 1.87 | ppb |
| Arsenic | 75-2 | 551.46 | 544.74 | 553.50 | 549.90 | 0.83 | ppb |
| Barium | 135-1 | 604.12 | 613.50 | 615.96 | 611.19 | 1.02 | ppb |
| Barium | 137-1 | 600.19 | 608.63 | 615.41 | 608.08 | 1.25 | ppb |
| Beryllium | 9-1 | 296.77 | 304.71 | 307.21 | 302.90 | 1.80 | ppb |
| Bismuth | 209-1 | | | | 106 | | % |
| Bismuth | 209-2 | | | | 110 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 352.48 | 352.26 | 358.40 | 354.38 | 0.98 | ppb |
| Cadmium | 106-1 | 336.64 | 342.02 | 342.13 | 340.26 | 0.92 | ppb |
| Cadmium | 111-1 | 404.25 | 407.96 | 415.24 | 409.15 | 1.37 | ppb |
| Calcium | 43-1 | 189.12 | 172.92 | 175.88 | 179.31 | 4.81 | ppb |
| Calcium | 44-1 | 87.87 | 88.46 | 87.99 | 88.11 | 0.35 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 569.17 | 571.84 | 579.59 | 573.53 | 0.94 | ppb |
| Cobalt | 59-2 | 183.54 | 184.05 | 186.12 | 184.57 | 0.74 | ppb |
| Copper | 63-2 | 668.30 | 670.48 | 675.94 | 671.57 | 0.59 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 105 | | % |
| Holmium | 165-2 | | | | 108 | | % |
| Indium | 115-1 | | | | 103 | | % |
| Indium | 115-2 | | | | 107 | | % |
| Iron | 56-2 | 1528.14 | 1512.34 | 1518.17 | 1519.55 | 0.53 | ppb |
| Iron | 57-2 | 1386.15 | 1405.44 | 1410.02 | 1400.54 | 0.90 | ppb |
| Iron | 54-2 | 2001.57 | 2010.26 | 2034.24 | 2015.36 | 0.84 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-02 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-TM1-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:35:16 | DataFile Name : | 030SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 947.28 | 972.68 | 981.89 | 967.28 | 1.85 | ppb |
| Lead | 207-1 | 915.00 | 933.30 | 942.86 | 930.39 | 1.52 | ppb |
| Lead | 208-1 | 928.97 | 948.89 | 958.89 | 945.58 | 1.61 | ppb |
| Lithium | 6-1 | | | | 105 | | % |
| Magnesium | 24-2 | 2.87 | 2.17 | 2.67 | 2.57 | 14.00 | ppb |
| Manganese | 55-2 | 641.35 | 638.64 | 647.04 | 642.34 | 0.67 | ppb |
| Molybdenum | 94-1 | 448.73 | 449.32 | 447.91 | 448.65 | 0.16 | ppb |
| Molybdenum | 95-1 | 538.94 | 536.03 | 535.18 | 536.72 | 0.37 | ppb |
| Molybdenum | 96-1 | 526.41 | 526.61 | 528.93 | 527.32 | 0.27 | ppb |
| Molybdenum | 97-1 | 541.82 | 539.90 | 542.04 | 541.25 | 0.22 | ppb |
| Molybdenum | 98-1 | 536.27 | 540.14 | 534.52 | 536.97 | 0.54 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 1629.02 | 1656.17 | 1660.06 | 1648.42 | 1.03 | ppb |
| Phosphorus | 31-2 | -11.37 | -18.47 | -14.60 | -14.81 | | ppb |
| Potassium | 39-2 | -11.38 | -6.00 | -6.92 | -8.10 | | ppb |
| Rhodium | 103-1 | | | | 101 | | % |
| Rhodium | 103-2 | | | | 107 | | % |
| Scandium | 45-1 | | | | 103 | | % |
| Scandium | 45-2 | | | | 106 | | % |
| Selenium | 82-1 | 500.80 | 498.41 | 490.78 | 496.66 | 1.05 | ppb |
| Selenium | 77-2 | 468.36 | 466.39 | 464.98 | 466.58 | 0.36 | ppb |
| Selenium | 78-2 | 489.51 | 487.95 | 477.63 | 485.03 | 1.33 | ppb |
| Silicon | 28-1 | 308.96 | 313.74 | 314.74 | 312.48 | 0.99 | ppb |
| Silver | 107-1 | 594.75 | 606.82 | 607.48 | 603.01 | 1.19 | ppb |
| Silver | 109-1 | 598.21 | 607.68 | 615.58 | 607.15 | 1.43 | ppb |
| Sodium | 23-2 | 98.96 | 101.80 | 101.57 | 100.78 | 1.57 | ppb |
| Strontium | 86-1 | 447.68 | 448.38 | 446.96 | 447.67 | 0.16 | ppb |
| Strontium | 88-1 | 453.20 | 454.77 | 451.98 | 453.32 | 0.31 | ppb |
| Sulfur | 34-1 | -659.25 | -1002.90 | -1359.48 | -1007.21 | | ppb |
| Terbium | 159-1 | | | | 105 | | % |
| Terbium | 159-2 | | | | 111 | | % |
| Thallium | 203-1 | 412.56 | 417.38 | 422.09 | 417.34 | 1.14 | ppb |
| Thallium | 205-1 | 411.61 | 416.17 | 425.64 | 417.81 | 1.71 | ppb |
| Tin | 118-1 | 0.36 | 0.37 | 0.40 | 0.38 | 5.97 | ppb |
| Titanium | 47-1 | 0.20 | 0.30 | 0.23 | 0.24 | 21.25 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-02 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-TM1-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:35:16 | DataFile Name : | 030SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | 82.82 | ppb |
| Vanadium | 51-2 | 1031.40 | 1028.19 | 1053.90 | 1037.83 | 1.35 | ppb |
| Yttrium | 89-1 | | | | 103 | | % |
| Yttrium | 89-2 | | | | 107 | | % |
| Zinc | 66-2 | 623.39 | 623.97 | 625.88 | 624.41 | 0.21 | ppb |
| Zirconium | 90-1 | 0.30 | 0.29 | 0.28 | 0.29 | 3.73 | ppb |
| Zirconium | 91-1 | 0.45 | 0.47 | 0.41 | 0.45 | 6.17 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-04 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-SNTI-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:38:28 | DataFile Name : | 031SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 73.44 | 74.51 | 74.49 | 74.15 | 0.82 | ppb |
| Antimony | 121-1 | 0.35 | 0.36 | 0.40 | 0.37 | 7.12 | ppb |
| Arsenic | 75-2 | 0.13 | 0.02 | 0.02 | 0.06 | 105.58 | ppb |
| Barium | 135-1 | 0.22 | 0.20 | 0.17 | 0.20 | 11.76 | ppb |
| Barium | 137-1 | 0.20 | 0.25 | 0.18 | 0.21 | 16.88 | ppb |
| Beryllium | 9-1 | 0.34 | 0.28 | 0.20 | 0.27 | 25.93 | ppb |
| Bismuth | 209-1 | | | | 104 | | % |
| Bismuth | 209-2 | | | | 111 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.07 | 0.12 | 0.16 | 0.12 | 38.49 | ppb |
| Cadmium | 106-1 | 0.63 | -0.23 | -0.52 | -0.04 | | ppb |
| Cadmium | 111-1 | 0.07 | 0.01 | -0.02 | 0.02 | 277.06 | ppb |
| Calcium | 43-1 | -0.16 | 5.21 | 0.80 | 1.95 | 146.89 | ppb |
| Calcium | 44-1 | 10.70 | 9.39 | 8.84 | 9.64 | 9.90 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.01 | 0.07 | 0.06 | 0.05 | 68.02 | ppb |
| Cobalt | 59-2 | 0.04 | 0.04 | 0.06 | 0.05 | 25.12 | ppb |
| Copper | 63-2 | 0.16 | 0.18 | 0.23 | 0.19 | 18.81 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 106 | | % |
| Holmium | 165-2 | | | | 109 | | % |
| Indium | 115-1 | | | | 101 | | % |
| Indium | 115-2 | | | | 103 | | % |
| Iron | 56-2 | 1.88 | 1.80 | 1.85 | 1.84 | 2.03 | ppb |
| Iron | 57-2 | -0.39 | -0.49 | -1.78 | -0.89 | | ppb |
| Iron | 54-2 | 2.08 | 1.50 | 2.16 | 1.91 | 18.99 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-04 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-SNTI-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:38:28 | DataFile Name : | 031SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.24 | 0.18 | 0.19 | 0.20 | 15.19 | ppb |
| Lead | 207-1 | 0.21 | 0.19 | 0.18 | 0.19 | 8.11 | ppb |
| Lead | 208-1 | 0.22 | 0.18 | 0.19 | 0.20 | 10.54 | ppb |
| Lithium | 6-1 | | | | 105 | | % |
| Magnesium | 24-2 | 2.82 | 2.92 | 3.09 | 2.94 | 4.72 | ppb |
| Manganese | 55-2 | 0.06 | 0.09 | 0.11 | 0.09 | 32.35 | ppb |
| Molybdenum | 94-1 | 2.90 | 2.93 | 2.97 | 2.93 | 1.07 | ppb |
| Molybdenum | 95-1 | 0.09 | 0.07 | 0.04 | 0.06 | 41.70 | ppb |
| Molybdenum | 96-1 | 0.41 | 0.37 | 0.42 | 0.40 | 7.04 | ppb |
| Molybdenum | 97-1 | 0.07 | 0.06 | 0.06 | 0.06 | 6.80 | ppb |
| Molybdenum | 98-1 | 0.07 | 0.06 | 0.06 | 0.06 | 8.69 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.33 | 0.27 | 0.20 | 0.26 | 24.72 | ppb |
| Phosphorus | 31-2 | -19.39 | -9.45 | -17.93 | -15.59 | | ppb |
| Potassium | 39-2 | -8.85 | -6.37 | -10.05 | -8.42 | | ppb |
| Rhodium | 103-1 | | | | 103 | | % |
| Rhodium | 103-2 | | | | 108 | | % |
| Scandium | 45-1 | | | | 104 | | % |
| Scandium | 45-2 | | | | 107 | | % |
| Selenium | 82-1 | 1.26 | 0.65 | 0.29 | 0.73 | 66.90 | ppb |
| Selenium | 77-2 | 0.58 | 1.17 | 0.00 | 0.58 | 100.36 | ppb |
| Selenium | 78-2 | 1.99 | 1.53 | -0.06 | 1.15 | 93.33 | ppb |
| Silicon | 28-1 | 1872.92 | 1858.09 | 1874.10 | 1868.37 | 0.48 | ppb |
| Silver | 107-1 | 0.12 | 0.08 | 0.07 | 0.09 | 32.40 | ppb |
| Silver | 109-1 | 0.11 | 0.07 | 0.06 | 0.08 | 32.34 | ppb |
| Sodium | 23-2 | 248.77 | 251.88 | 249.64 | 250.09 | 0.64 | ppb |
| Strontium | 86-1 | 0.07 | 0.06 | 0.05 | 0.06 | 12.07 | ppb |
| Strontium | 88-1 | 0.06 | 0.06 | 0.05 | 0.06 | 10.16 | ppb |
| Sulfur | 34-1 | -1603.12 | -1676.56 | -1509.72 | -1596.46 | | ppb |
| Terbium | 159-1 | | | | 105 | | % |
| Terbium | 159-2 | | | | 110 | | % |
| Thallium | 203-1 | 0.06 | 0.05 | 0.06 | 0.06 | 10.38 | ppb |
| Thallium | 205-1 | 0.07 | 0.07 | 0.06 | 0.07 | 11.93 | ppb |
| Tin | 118-1 | 1327.63 | 1322.07 | 1301.09 | 1316.93 | 1.06 | ppb |
| Titanium | 47-1 | 98.54 | 96.36 | 98.80 | 97.90 | 1.37 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-04 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-SNTI-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:38:28 | DataFile Name : | 031SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | 21.76 | ppb |
| Vanadium | 51-2 | 0.04 | 0.05 | 0.05 | 0.05 | 9.67 | ppb |
| Yttrium | 89-1 | | | | 104 | | % |
| Yttrium | 89-2 | | | | 108 | | % |
| Zinc | 66-2 | 0.38 | 0.26 | 0.34 | 0.33 | 17.60 | ppb |
| Zirconium | 90-1 | 1.64 | 1.57 | 1.66 | 1.62 | 3.03 | ppb |
| Zirconium | 91-1 | 1.59 | 1.65 | 1.68 | 1.64 | 2.89 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-06 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-MIN2-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:41:49 | DataFile Name : | 032SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | -0.27 | -0.29 | -0.52 | -0.36 | | ppb |
| Antimony | 121-1 | 0.08 | 0.06 | 0.05 | 0.06 | 23.66 | ppb |
| Arsenic | 75-2 | 0.03 | 0.03 | 0.04 | 0.03 | 24.43 | ppb |
| Barium | 135-1 | 0.25 | 0.27 | 0.31 | 0.28 | 11.05 | ppb |
| Barium | 137-1 | 0.25 | 0.22 | 0.31 | 0.26 | 17.95 | ppb |
| Beryllium | 9-1 | 0.09 | 0.13 | 0.13 | 0.12 | 18.09 | ppb |
| Bismuth | 209-1 | | | | 145 | | % |
| Bismuth | 209-2 | | | | 141 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.00 | 0.10 | -0.06 | 0.01 | 798.79 | ppb |
| Cadmium | 106-1 | -0.30 | -1.85 | -0.94 | -1.03 | | ppb |
| Cadmium | 111-1 | 0.03 | -0.11 | -0.06 | -0.05 | | ppb |
| Calcium | 43-1 | 71357.58 | 71565.85 | 72043.14 | 71655.52 | 0.49 | ppb |
| Calcium | 44-1 | 66428.34 | 68599.07 | 68447.36 | 67824.93 | 1.79 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.07 | -0.07 | -0.08 | -0.07 | | ppb |
| Cobalt | 59-2 | 0.06 | 0.08 | 0.08 | 0.07 | 11.00 | ppb |
| Copper | 63-2 | 0.03 | 0.00 | 0.09 | 0.04 | 108.18 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 153 | | % |
| Holmium | 165-2 | | | | 146 | | % |
| Indium | 115-1 | | | | 148 | | % |
| Indium | 115-2 | | | | 142 | | % |
| Iron | 56-2 | -0.58 | -0.35 | -0.50 | -0.48 | | ppb |
| Iron | 57-2 | 378.77 | 386.99 | 389.27 | 385.01 | 1.44 | ppb |
| Iron | 54-2 | -8.64 | -7.65 | -8.87 | -8.39 | | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-06 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-MIN2-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:41:49 | DataFile Name : | 032SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.71 | 0.66 | 0.67 | 0.68 | 3.65 | ppb |
| Lead | 207-1 | 0.67 | 0.63 | 0.63 | 0.64 | 3.56 | ppb |
| Lead | 208-1 | 0.69 | 0.63 | 0.63 | 0.65 | 5.06 | ppb |
| Lithium | 6-1 | | | | 144 | | % |
| Magnesium | 24-2 | 28159.96 | 28161.94 | 28555.36 | 28292.42 | 0.80 | ppb |
| Manganese | 55-2 | 0.09 | 0.07 | 0.10 | 0.09 | 18.25 | ppb |
| Molybdenum | 94-1 | 0.64 | 0.65 | 0.61 | 0.64 | 3.41 | ppb |
| Molybdenum | 95-1 | 0.72 | 0.71 | 0.65 | 0.69 | 5.96 | ppb |
| Molybdenum | 96-1 | 0.69 | 0.75 | 0.64 | 0.69 | 7.71 | ppb |
| Molybdenum | 97-1 | 0.75 | 0.76 | 0.74 | 0.75 | 0.85 | ppb |
| Molybdenum | 98-1 | 0.78 | 0.71 | 0.72 | 0.74 | 4.52 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.05 | 0.03 | 0.02 | 0.03 | 50.36 | ppb |
| Phosphorus | 31-2 | -34.31 | -27.97 | -27.34 | -29.87 | | ppb |
| Potassium | 39-2 | 21908.04 | 22026.17 | 22068.49 | 22000.90 | 0.38 | ppb |
| Rhodium | 103-1 | | | | 144 | | % |
| Rhodium | 103-2 | | | | 141 | | % |
| Scandium | 45-1 | | | | 153 | | % |
| Scandium | 45-2 | | | | 146 | | % |
| Selenium | 82-1 | 0.04 | 0.63 | 0.29 | 0.32 | 94.04 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | -1.75 | -0.80 | -1.02 | -1.19 | | ppb |
| Silicon | 28-1 | -51.18 | -49.31 | -48.43 | -49.64 | | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 6.08 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 7.10 | ppb |
| Sodium | 23-2 | 85959.38 | 87654.76 | 88821.17 | 87478.44 | 1.64 | ppb |
| Strontium | 86-1 | 6.82 | 6.85 | 7.00 | 6.89 | 1.41 | ppb |
| Strontium | 88-1 | 6.96 | 6.81 | 6.85 | 6.87 | 1.08 | ppb |
| Sulfur | 34-1 | -4087.49 | -3623.16 | -3260.16 | -3656.94 | | ppb |
| Terbium | 159-1 | | | | 151 | | % |
| Terbium | 159-2 | | | | 147 | | % |
| Thallium | 203-1 | 0.18 | 0.09 | 0.09 | 0.12 | 42.55 | ppb |
| Thallium | 205-1 | 0.17 | 0.09 | 0.08 | 0.11 | 42.94 | ppb |
| Tin | 118-1 | 0.11 | 0.08 | 0.04 | 0.07 | 47.86 | ppb |
| Titanium | 47-1 | -0.01 | -0.03 | -0.02 | -0.02 | | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-06 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-MIN2-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:41:49 | DataFile Name : | 032SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | 86.42 | ppb |
| Vanadium | 51-2 | 0.01 | 0.01 | 0.00 | 0.01 | 67.42 | ppb |
| Yttrium | 89-1 | | | | 151 | | % |
| Yttrium | 89-2 | | | | 142 | | % |
| Zinc | 66-2 | 0.67 | 0.49 | 0.48 | 0.55 | 19.68 | ppb |
| Zirconium | 90-1 | 0.00 | -0.01 | 0.00 | 0.00 | | ppb |
| Zirconium | 91-1 | -0.01 | 0.00 | -0.01 | -0.01 | | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-02DLX2 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-TM1-WPDL | Dilution Factor : | 2 |
| Date & Time Acquired : | 2024-10-17 18:45:08 | DataFile Name : | 033SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1313.85 | 1316.70 | 1298.93 | 1309.83 | 0.73 | ppb |
| Antimony | 121-1 | 395.98 | 398.68 | 399.60 | 398.09 | 0.47 | ppb |
| Arsenic | 75-2 | 277.74 | 271.05 | 272.94 | 273.91 | 1.26 | ppb |
| Barium | 135-1 | 300.00 | 301.89 | 298.61 | 300.17 | 0.55 | ppb |
| Barium | 137-1 | 299.33 | 303.79 | 302.30 | 301.80 | 0.75 | ppb |
| Beryllium | 9-1 | 147.38 | 151.17 | 148.65 | 149.07 | 1.29 | ppb |
| Bismuth | 209-1 | | | | 103 | | % |
| Bismuth | 209-2 | | | | 110 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 180.01 | 173.97 | 174.46 | 176.15 | 1.91 | ppb |
| Cadmium | 106-1 | 165.05 | 166.90 | 164.07 | 165.34 | 0.87 | ppb |
| Cadmium | 111-1 | 200.89 | 204.15 | 200.34 | 201.79 | 1.02 | ppb |
| Calcium | 43-1 | 96.82 | 81.94 | 89.84 | 89.53 | 8.32 | ppb |
| Calcium | 44-1 | 49.04 | 47.71 | 45.86 | 47.54 | 3.36 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 285.61 | 293.27 | 282.93 | 287.27 | 1.87 | ppb |
| Cobalt | 59-2 | 91.22 | 92.79 | 90.50 | 91.50 | 1.28 | ppb |
| Copper | 63-2 | 336.58 | 336.73 | 332.13 | 335.15 | 0.78 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 104 | | % |
| Holmium | 165-2 | | | | 109 | | % |
| Indium | 115-1 | | | | 103 | | % |
| Indium | 115-2 | | | | 107 | | % |
| Iron | 56-2 | 797.20 | 806.76 | 787.30 | 797.09 | 1.22 | ppb |
| Iron | 57-2 | 689.48 | 708.51 | 687.11 | 695.04 | 1.69 | ppb |
| Iron | 54-2 | 1004.58 | 1014.54 | 1010.18 | 1009.77 | 0.49 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-02DLX2 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-TM1-WPDL | Dilution Factor : | 2 |
| Date & Time Acquired : | 2024-10-17 18:45:08 | DataFile Name : | 033SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 425.12 | 440.81 | 445.49 | 437.14 | 2.44 | ppb |
| Lead | 207-1 | 407.16 | 423.32 | 425.09 | 418.52 | 2.36 | ppb |
| Lead | 208-1 | 438.82 | 457.06 | 459.26 | 451.72 | 2.48 | ppb |
| Lithium | 6-1 | | | | 106 | | % |
| Magnesium | 24-2 | 3.05 | 2.23 | 2.50 | 2.60 | 16.05 | ppb |
| Manganese | 55-2 | 320.00 | 324.63 | 320.53 | 321.72 | 0.79 | ppb |
| Molybdenum | 94-1 | 221.15 | 225.92 | 228.08 | 225.05 | 1.58 | ppb |
| Molybdenum | 95-1 | 263.91 | 268.38 | 270.92 | 267.74 | 1.33 | ppb |
| Molybdenum | 96-1 | 259.26 | 265.01 | 265.72 | 263.33 | 1.34 | ppb |
| Molybdenum | 97-1 | 263.44 | 271.56 | 272.77 | 269.26 | 1.88 | ppb |
| Molybdenum | 98-1 | 263.48 | 269.20 | 272.68 | 268.45 | 1.73 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 824.48 | 831.71 | 811.76 | 822.65 | 1.23 | ppb |
| Phosphorus | 31-2 | -14.77 | -23.20 | -17.82 | -18.59 | | ppb |
| Potassium | 39-2 | -7.54 | -6.29 | -12.02 | -8.62 | | ppb |
| Rhodium | 103-1 | | | | 101 | | % |
| Rhodium | 103-2 | | | | 107 | | % |
| Scandium | 45-1 | | | | 103 | | % |
| Scandium | 45-2 | | | | 106 | | % |
| Selenium | 82-1 | 243.16 | 245.39 | 250.68 | 246.41 | 1.57 | ppb |
| Selenium | 77-2 | 249.50 | 211.72 | 211.21 | 224.15 | 9.80 | ppb |
| Selenium | 78-2 | 227.24 | 230.20 | 228.68 | 228.70 | 0.65 | ppb |
| Silicon | 28-1 | 157.45 | 153.92 | 151.95 | 154.44 | 1.81 | ppb |
| Silver | 107-1 | 294.22 | 295.99 | 291.44 | 293.88 | 0.78 | ppb |
| Silver | 109-1 | 295.22 | 295.78 | 292.45 | 294.48 | 0.60 | ppb |
| Sodium | 23-2 | 86.41 | 85.54 | 83.21 | 85.05 | 1.95 | ppb |
| Strontium | 86-1 | 221.27 | 224.68 | 226.76 | 224.24 | 1.24 | ppb |
| Strontium | 88-1 | 224.70 | 226.69 | 229.81 | 227.06 | 1.14 | ppb |
| Sulfur | 34-1 | -420.48 | -849.79 | -993.56 | -754.61 | | ppb |
| Terbium | 159-1 | | | | 104 | | % |
| Terbium | 159-2 | | | | 109 | | % |
| Thallium | 203-1 | 185.74 | 191.32 | 192.78 | 189.95 | 1.96 | ppb |
| Thallium | 205-1 | 208.29 | 213.67 | 211.67 | 211.21 | 1.29 | ppb |
| Tin | 118-1 | 0.24 | 0.25 | 0.25 | 0.25 | 3.79 | ppb |
| Titanium | 47-1 | 0.20 | 0.20 | 0.17 | 0.19 | 8.62 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-02DLX2 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-TM1-WPDL | Dilution Factor : | 2 |
| Date & Time Acquired : | 2024-10-17 18:45:08 | DataFile Name : | 033SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | 79.58 | ppb |
| Vanadium | 51-2 | 525.42 | 536.54 | 530.83 | 530.93 | 1.05 | ppb |
| Yttrium | 89-1 | | | | 103 | | % |
| Yttrium | 89-2 | | | | 106 | | % |
| Zinc | 66-2 | 312.68 | 312.57 | 306.64 | 310.63 | 1.11 | ppb |
| Zirconium | 90-1 | 0.16 | 0.17 | 0.17 | 0.17 | 4.13 | ppb |
| Zirconium | 91-1 | 0.22 | 0.25 | 0.25 | 0.24 | 8.18 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-04DLX2 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-SNTI-WPDL | Dilution Factor : | 2 |
| Date & Time Acquired : | 2024-10-17 18:48:27 | DataFile Name : | 034SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 39.24 | 38.89 | 36.96 | 38.36 | 3.20 | ppb |
| Antimony | 121-1 | 0.24 | 0.23 | 0.27 | 0.25 | 9.62 | ppb |
| Arsenic | 75-2 | -0.01 | 0.07 | 0.06 | 0.04 | 116.92 | ppb |
| Barium | 135-1 | 0.12 | 0.13 | 0.12 | 0.12 | 5.80 | ppb |
| Barium | 137-1 | 0.15 | 0.13 | 0.14 | 0.14 | 4.94 | ppb |
| Beryllium | 9-1 | 0.21 | 0.15 | 0.12 | 0.16 | 27.36 | ppb |
| Bismuth | 209-1 | | | | 104 | | % |
| Bismuth | 209-2 | | | | 111 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.03 | 0.12 | 0.07 | 0.07 | 62.71 | ppb |
| Cadmium | 106-1 | 0.04 | -0.39 | -1.60 | -0.65 | | ppb |
| Cadmium | 111-1 | 0.02 | -0.02 | -0.11 | -0.04 | | ppb |
| Calcium | 43-1 | 7.18 | -0.30 | 3.80 | 3.56 | 105.37 | ppb |
| Calcium | 44-1 | 8.53 | 8.30 | 6.49 | 7.77 | 14.35 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.08 | 0.00 | 0.04 | 0.04 | 108.40 | ppb |
| Cobalt | 59-2 | 0.04 | 0.04 | 0.03 | 0.04 | 8.89 | ppb |
| Copper | 63-2 | 0.16 | 0.10 | 0.14 | 0.13 | 23.29 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 105 | | % |
| Holmium | 165-2 | | | | 109 | | % |
| Indium | 115-1 | | | | 104 | | % |
| Indium | 115-2 | | | | 107 | | % |
| Iron | 56-2 | 0.94 | 0.87 | 0.93 | 0.91 | 3.88 | ppb |
| Iron | 57-2 | -3.00 | -1.34 | -0.42 | -1.59 | | ppb |
| Iron | 54-2 | 0.66 | -0.03 | 1.06 | 0.57 | 97.15 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-04DLX2 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-SNTI-WPDL | Dilution Factor : | 2 |
| Date & Time Acquired : | 2024-10-17 18:48:27 | DataFile Name : | 034SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.13 | 0.14 | 0.12 | 0.13 | 7.84 | ppb |
| Lead | 207-1 | 0.13 | 0.12 | 0.12 | 0.12 | 6.58 | ppb |
| Lead | 208-1 | 0.15 | 0.13 | 0.12 | 0.13 | 8.87 | ppb |
| Lithium | 6-1 | | | | 106 | | % |
| Magnesium | 24-2 | 1.90 | 2.56 | 2.34 | 2.27 | 14.78 | ppb |
| Manganese | 55-2 | 0.08 | 0.08 | 0.06 | 0.07 | 14.41 | ppb |
| Molybdenum | 94-1 | 1.60 | 1.49 | 1.53 | 1.54 | 3.55 | ppb |
| Molybdenum | 95-1 | 0.03 | 0.06 | 0.06 | 0.05 | 30.79 | ppb |
| Molybdenum | 96-1 | 0.22 | 0.20 | 0.17 | 0.20 | 11.20 | ppb |
| Molybdenum | 97-1 | 0.06 | 0.07 | 0.07 | 0.06 | 6.72 | ppb |
| Molybdenum | 98-1 | 0.06 | 0.04 | 0.06 | 0.05 | 23.78 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.15 | 0.04 | 0.09 | 0.09 | 56.67 | ppb |
| Phosphorus | 31-2 | -16.02 | -23.02 | -21.46 | -20.17 | | ppb |
| Potassium | 39-2 | -12.16 | -11.67 | -12.00 | -11.95 | | ppb |
| Rhodium | 103-1 | | | | 104 | | % |
| Rhodium | 103-2 | | | | 109 | | % |
| Scandium | 45-1 | | | | 104 | | % |
| Scandium | 45-2 | | | | 108 | | % |
| Selenium | 82-1 | 0.13 | -0.03 | 0.38 | 0.16 | 130.43 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | -0.51 | -0.11 | -0.26 | -0.29 | | ppb |
| Silicon | 28-1 | 926.03 | 928.52 | 927.49 | 927.34 | 0.13 | ppb |
| Silver | 107-1 | 0.07 | 0.07 | 0.05 | 0.06 | 20.28 | ppb |
| Silver | 109-1 | 0.09 | 0.05 | 0.05 | 0.06 | 34.43 | ppb |
| Sodium | 23-2 | 141.13 | 141.55 | 145.48 | 142.72 | 1.68 | ppb |
| Strontium | 86-1 | 0.07 | 0.05 | 0.08 | 0.07 | 29.60 | ppb |
| Strontium | 88-1 | 0.03 | 0.03 | 0.03 | 0.03 | 1.27 | ppb |
| Sulfur | 34-1 | -1560.79 | -1636.85 | -1820.02 | -1672.56 | | ppb |
| Terbium | 159-1 | | | | 107 | | % |
| Terbium | 159-2 | | | | 111 | | % |
| Thallium | 203-1 | 0.04 | 0.04 | 0.03 | 0.04 | 11.68 | ppb |
| Thallium | 205-1 | 0.04 | 0.05 | 0.04 | 0.04 | 10.53 | ppb |
| Tin | 118-1 | 647.26 | 665.41 | 639.62 | 650.76 | 2.04 | ppb |
| Titanium | 47-1 | 48.06 | 48.57 | 48.45 | 48.36 | 0.56 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-04DLX2 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-SNTI-WPDL | Dilution Factor : | 2 |
| Date & Time Acquired : | 2024-10-17 18:48:27 | DataFile Name : | 034SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | 80.71 | ppb |
| Vanadium | 51-2 | 0.05 | 0.04 | 0.04 | 0.04 | 13.23 | ppb |
| Yttrium | 89-1 | | | | 103 | | % |
| Yttrium | 89-2 | | | | 109 | | % |
| Zinc | 66-2 | 0.24 | 0.24 | 0.19 | 0.22 | 11.80 | ppb |
| Zirconium | 90-1 | 0.79 | 0.82 | 0.84 | 0.82 | 2.97 | ppb |
| Zirconium | 91-1 | 0.82 | 0.85 | 0.81 | 0.82 | 2.94 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-06DLX5 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-MIN2-WPDL | Dilution Factor : | 5 |
| Date & Time Acquired : | 2024-10-17 18:51:49 | DataFile Name : | 035SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1.25 | 0.85 | 1.28 | 1.13 | 21.46 | ppb |
| Antimony | 121-1 | 0.06 | 0.06 | 0.08 | 0.06 | 15.46 | ppb |
| Arsenic | 75-2 | -0.01 | 0.02 | 0.02 | 0.01 | 199.01 | ppb |
| Barium | 135-1 | 0.06 | 0.08 | 0.07 | 0.07 | 15.75 | ppb |
| Barium | 137-1 | 0.07 | 0.09 | 0.08 | 0.08 | 9.94 | ppb |
| Beryllium | 9-1 | 0.17 | 0.14 | 0.16 | 0.16 | 10.26 | ppb |
| Bismuth | 209-1 | | | | 109 | | % |
| Bismuth | 209-2 | | | | 112 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | -0.06 | -0.02 | 0.07 | -0.01 | | ppb |
| Cadmium | 106-1 | -0.94 | 0.68 | -2.56 | -0.94 | | ppb |
| Cadmium | 111-1 | -0.06 | 0.06 | -0.19 | -0.07 | | ppb |
| Calcium | 43-1 | 14227.82 | 14206.72 | 14363.47 | 14266.00 | 0.60 | ppb |
| Calcium | 44-1 | 13332.10 | 13484.33 | 13749.76 | 13522.06 | 1.56 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.03 | -0.03 | -0.01 | -0.03 | | ppb |
| Cobalt | 59-2 | 0.02 | 0.02 | 0.01 | 0.02 | 22.97 | ppb |
| Copper | 63-2 | -0.05 | 0.01 | 0.00 | -0.01 | | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 110 | | % |
| Holmium | 165-2 | | | | 112 | | % |
| Indium | 115-1 | | | | 109 | | % |
| Indium | 115-2 | | | | 111 | | % |
| Iron | 56-2 | 0.22 | 0.22 | 0.16 | 0.20 | 18.12 | ppb |
| Iron | 57-2 | 76.53 | 72.04 | 73.59 | 74.05 | 3.08 | ppb |
| Iron | 54-2 | -3.30 | -0.87 | -2.48 | -2.22 | | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-06DLX5 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-MIN2-WPDL | Dilution Factor : | 5 |
| Date & Time Acquired : | 2024-10-17 18:51:49 | DataFile Name : | 035SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.12 | 0.07 | 0.07 | 0.09 | 28.92 | ppb |
| Lead | 207-1 | 0.10 | 0.08 | 0.09 | 0.09 | 8.97 | ppb |
| Lead | 208-1 | 0.11 | 0.09 | 0.09 | 0.09 | 12.35 | ppb |
| Lithium | 6-1 | | | | 109 | | % |
| Magnesium | 24-2 | 5690.89 | 5707.90 | 5722.95 | 5707.25 | 0.28 | ppb |
| Manganese | 55-2 | 0.04 | 0.04 | 0.02 | 0.03 | 33.34 | ppb |
| Molybdenum | 94-1 | 0.14 | 0.16 | 0.16 | 0.15 | 8.65 | ppb |
| Molybdenum | 95-1 | 0.16 | 0.17 | 0.16 | 0.16 | 4.07 | ppb |
| Molybdenum | 96-1 | 0.16 | 0.18 | 0.18 | 0.17 | 8.34 | ppb |
| Molybdenum | 97-1 | 0.14 | 0.20 | 0.20 | 0.18 | 19.90 | ppb |
| Molybdenum | 98-1 | 0.16 | 0.17 | 0.16 | 0.16 | 4.73 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.03 | 0.01 | 0.00 | 0.00 | | ppb |
| Phosphorus | 31-2 | -19.46 | -18.63 | -18.44 | -18.84 | | ppb |
| Potassium | 39-2 | 4582.05 | 4585.86 | 4604.72 | 4590.87 | 0.26 | ppb |
| Rhodium | 103-1 | | | | 106 | | % |
| Rhodium | 103-2 | | | | 110 | | % |
| Scandium | 45-1 | | | | 109 | | % |
| Scandium | 45-2 | | | | 111 | | % |
| Selenium | 82-1 | 0.38 | -0.22 | -0.05 | 0.04 | 785.60 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | -0.40 | 1.29 | 0.52 | 0.47 | 181.37 | ppb |
| Silicon | 28-1 | -18.44 | -19.00 | -16.55 | -18.00 | | ppb |
| Silver | 107-1 | 0.02 | 0.01 | 0.01 | 0.01 | 31.71 | ppb |
| Silver | 109-1 | 0.01 | 0.02 | 0.01 | 0.01 | 25.23 | ppb |
| Sodium | 23-2 | 16855.42 | 17009.54 | 17062.55 | 16975.84 | 0.63 | ppb |
| Strontium | 86-1 | 1.48 | 1.40 | 1.39 | 1.42 | 3.35 | ppb |
| Strontium | 88-1 | 1.38 | 1.35 | 1.34 | 1.36 | 1.34 | ppb |
| Sulfur | 34-1 | -1678.66 | -1525.19 | -1357.69 | -1520.51 | | ppb |
| Terbium | 159-1 | | | | 111 | | % |
| Terbium | 159-2 | | | | 112 | | % |
| Thallium | 203-1 | 0.03 | 0.03 | 0.02 | 0.03 | 14.23 | ppb |
| Thallium | 205-1 | 0.03 | 0.03 | 0.03 | 0.03 | 2.74 | ppb |
| Tin | 118-1 | 0.11 | 0.12 | 0.15 | 0.13 | 17.82 | ppb |
| Titanium | 47-1 | 0.01 | 0.03 | 0.09 | 0.04 | 96.58 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-06DLX5 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-MIN2-WPDL | Dilution Factor : | 5 |
| Date & Time Acquired : | 2024-10-17 18:51:49 | DataFile Name : | 035SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Vanadium | 51-2 | 0.00 | 0.01 | 0.01 | 0.01 | 47.47 | ppb |
| Yttrium | 89-1 | | | | 109 | | % |
| Yttrium | 89-2 | | | | 111 | | % |
| Zinc | 66-2 | 0.03 | 0.19 | -0.04 | 0.06 | 206.40 | ppb |
| Zirconium | 90-1 | 0.01 | 0.00 | 0.00 | 0.00 | 128.49 | ppb |
| Zirconium | 91-1 | -0.01 | 0.01 | 0.00 | 0.00 | 2009.37 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCV02 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:55:08 | DataFile Name : | 036CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 47877.20 | 48054.39 | 48654.70 | 48195.43 | 0.85 | ppb |
| Antimony | 121-1 | 464.21 | 483.75 | 493.21 | 480.39 | 3.08 | ppb |
| Arsenic | 75-2 | 456.26 | 450.02 | 453.42 | 453.23 | 0.69 | ppb |
| Barium | 135-1 | 2383.24 | 2420.18 | 2498.95 | 2434.12 | 2.43 | ppb |
| Barium | 137-1 | 2343.69 | 2411.62 | 2452.50 | 2402.61 | 2.29 | ppb |
| Beryllium | 9-1 | 474.18 | 482.42 | 492.73 | 483.11 | 1.92 | ppb |
| Bismuth | 209-1 | | | | 94 | | % |
| Bismuth | 209-2 | | | | 88 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 460.62 | 479.02 | 479.20 | 472.95 | 2.26 | ppb |
| Cadmium | 106-1 | 456.42 | 473.74 | 472.32 | 467.50 | 2.06 | ppb |
| Cadmium | 111-1 | 450.76 | 468.78 | 473.64 | 464.39 | 2.60 | ppb |
| Calcium | 43-1 | 236714.37 | 241380.58 | 256072.75 | 244722.57 | 4.13 | ppb |
| Calcium | 44-1 | 234237.84 | 241570.15 | 251629.92 | 242479.30 | 3.60 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 469.02 | 458.25 | 464.60 | 463.95 | 1.17 | ppb |
| Cobalt | 59-2 | 495.19 | 492.36 | 492.64 | 493.40 | 0.32 | ppb |
| Copper | 63-2 | 4900.00 | 4754.81 | 4869.45 | 4841.42 | 1.58 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 103 | | % |
| Holmium | 165-2 | | | | 105 | | % |
| Indium | 115-1 | | | | 95 | | % |
| Indium | 115-2 | | | | 97 | | % |
| Iron | 56-2 | 123881.96 | 123512.61 | 124641.08 | 124011.88 | 0.46 | ppb |
| Iron | 57-2 | 125492.67 | 124865.83 | 126193.73 | 125517.41 | 0.53 | ppb |
| Iron | 54-2 | 124228.99 | 123127.50 | 125135.30 | 124163.93 | 0.81 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCV02 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:55:08 | DataFile Name : | 036CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2391.13 | 2443.50 | 2480.61 | 2438.41 | 1.84 | ppb |
| Lead | 207-1 | 2382.11 | 2452.47 | 2482.63 | 2439.07 | 2.11 | ppb |
| Lead | 208-1 | 2385.50 | 2449.30 | 2498.96 | 2444.59 | 2.33 | ppb |
| Lithium | 6-1 | | | | 99 | | % |
| Magnesium | 24-2 | 239560.13 | 237775.19 | 240908.81 | 239414.71 | 0.66 | ppb |
| Manganese | 55-2 | 4530.45 | 4526.46 | 4583.42 | 4546.77 | 0.70 | ppb |
| Molybdenum | 94-1 | 5223.74 | 5265.53 | 5294.06 | 5261.11 | 0.67 | ppb |
| Molybdenum | 95-1 | 5217.69 | 5310.29 | 5245.14 | 5257.70 | 0.90 | ppb |
| Molybdenum | 96-1 | 5173.12 | 5342.11 | 5284.16 | 5266.46 | 1.63 | ppb |
| Molybdenum | 97-1 | 5198.53 | 5322.57 | 5342.32 | 5287.81 | 1.47 | ppb |
| Molybdenum | 98-1 | 5173.36 | 5275.71 | 5300.05 | 5249.71 | 1.28 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 487.20 | 484.44 | 486.08 | 485.91 | 0.29 | ppb |
| Phosphorus | 31-2 | 9287.16 | 9080.57 | 9077.04 | 9148.25 | 1.32 | ppb |
| Potassium | 39-2 | 120707.55 | 120379.76 | 121832.36 | 120973.22 | 0.63 | ppb |
| Rhodium | 103-1 | | | | 91 | | % |
| Rhodium | 103-2 | | | | 94 | | % |
| Scandium | 45-1 | | | | 99 | | % |
| Scandium | 45-2 | | | | 102 | | % |
| Selenium | 82-1 | 450.16 | 465.47 | 465.53 | 460.39 | 1.92 | ppb |
| Selenium | 77-2 | 437.57 | 425.71 | 451.60 | 438.29 | 2.96 | ppb |
| Selenium | 78-2 | 449.91 | 442.68 | 450.74 | 447.78 | 0.99 | ppb |
| Silicon | 28-1 | 479.98 | 496.20 | 527.23 | 501.14 | 4.79 | ppb |
| Silver | 107-1 | 453.61 | 463.61 | 474.02 | 463.75 | 2.20 | ppb |
| Silver | 109-1 | 456.57 | 477.91 | 471.80 | 468.76 | 2.34 | ppb |
| Sodium | 23-2 | 244673.01 | 243250.62 | 241653.41 | 243192.35 | 0.62 | ppb |
| Strontium | 86-1 | 11740.78 | 11898.30 | 12164.44 | 11934.51 | 1.79 | ppb |
| Strontium | 88-1 | 11742.53 | 12009.98 | 12073.15 | 11941.89 | 1.47 | ppb |
| Sulfur | 34-1 | 8595.12 | 9177.85 | 9862.04 | 9211.67 | 6.88 | ppb |
| Terbium | 159-1 | | | | 103 | | % |
| Terbium | 159-2 | | | | 107 | | % |
| Thallium | 203-1 | 472.05 | 493.15 | 500.20 | 488.47 | 3.00 | ppb |
| Thallium | 205-1 | 485.31 | 488.50 | 501.71 | 491.84 | 1.77 | ppb |
| Tin | 118-1 | 486.78 | 496.00 | 501.92 | 494.90 | 1.54 | ppb |
| Titanium | 47-1 | 5162.59 | 5279.98 | 5517.89 | 5320.15 | 3.40 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCV02 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:55:08 | DataFile Name : | 036CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 490.00 | 505.13 | 507.00 | 500.71 | 1.86 | ppb |
| Vanadium | 51-2 | 458.09 | 453.11 | 458.09 | 456.43 | 0.63 | ppb |
| Yttrium | 89-1 | | | | 100 | | % |
| Yttrium | 89-2 | | | | 102 | | % |
| Zinc | 66-2 | 4779.36 | 4751.38 | 4779.71 | 4770.15 | 0.34 | ppb |
| Zirconium | 90-1 | 471.90 | 483.91 | 487.99 | 481.27 | 1.74 | ppb |
| Zirconium | 91-1 | 476.00 | 483.39 | 485.56 | 481.65 | 1.04 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCB02 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:58:04 | DataFile Name : | 037CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1.03 | 1.91 | 0.92 | 1.29 | 42.45 | ppb |
| Antimony | 121-1 | 0.36 | 0.34 | 0.43 | 0.38 | 12.37 | ppb |
| Arsenic | 75-2 | 0.06 | 0.11 | 0.06 | 0.08 | 41.85 | ppb |
| Barium | 135-1 | 0.14 | 0.08 | 0.05 | 0.09 | 47.39 | ppb |
| Barium | 137-1 | 0.14 | 0.07 | 0.08 | 0.10 | 39.69 | ppb |
| Beryllium | 9-1 | 0.36 | 0.34 | 0.26 | 0.32 | 15.88 | ppb |
| Bismuth | 209-1 | | | | 105 | | % |
| Bismuth | 209-2 | | | | 105 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.07 | -0.02 | 0.07 | 0.04 | 123.12 | ppb |
| Cadmium | 106-1 | 0.68 | -1.61 | 1.05 | 0.04 | 3555.71 | ppb |
| Cadmium | 111-1 | 0.06 | -0.08 | 0.12 | 0.03 | 318.74 | ppb |
| Calcium | 43-1 | 6.76 | 7.01 | 3.98 | 5.92 | 28.47 | ppb |
| Calcium | 44-1 | 12.40 | 7.54 | 5.86 | 8.60 | 39.56 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.04 | 0.03 | 0.00 | 0.02 | 80.51 | ppb |
| Cobalt | 59-2 | 0.04 | 0.04 | 0.04 | 0.04 | 10.00 | ppb |
| Copper | 63-2 | 0.22 | 0.33 | 0.29 | 0.28 | 20.79 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 106 | | % |
| Holmium | 165-2 | | | | 104 | | % |
| Indium | 115-1 | | | | 104 | | % |
| Indium | 115-2 | | | | 102 | | % |
| Iron | 56-2 | 5.24 | 6.36 | 5.10 | 5.57 | 12.38 | ppb |
| Iron | 57-2 | 1.27 | 2.34 | 0.88 | 1.49 | 50.54 | ppb |
| Iron | 54-2 | 3.69 | 6.28 | 4.61 | 4.86 | 26.96 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCB02 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:58:04 | DataFile Name : | 037CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.25 | 0.22 | 0.17 | 0.22 | 17.75 | ppb |
| Lead | 207-1 | 0.22 | 0.19 | 0.18 | 0.20 | 12.76 | ppb |
| Lead | 208-1 | 0.26 | 0.21 | 0.19 | 0.22 | 16.80 | ppb |
| Lithium | 6-1 | | | | 105 | | % |
| Magnesium | 24-2 | 8.84 | 11.58 | 9.38 | 9.93 | 14.61 | ppb |
| Manganese | 55-2 | 0.18 | 0.22 | 0.19 | 0.20 | 9.54 | ppb |
| Molybdenum | 94-1 | 0.66 | 0.50 | 0.47 | 0.55 | 18.58 | ppb |
| Molybdenum | 95-1 | 0.45 | 0.39 | 0.31 | 0.39 | 18.31 | ppb |
| Molybdenum | 96-1 | 0.50 | 0.37 | 0.37 | 0.41 | 17.85 | ppb |
| Molybdenum | 97-1 | 0.39 | 0.37 | 0.32 | 0.36 | 10.10 | ppb |
| Molybdenum | 98-1 | 0.43 | 0.36 | 0.30 | 0.37 | 18.19 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.00 | -0.02 | -0.04 | -0.02 | | ppb |
| Phosphorus | 31-2 | -16.99 | -12.88 | -22.44 | -17.44 | | ppb |
| Potassium | 39-2 | 2.90 | 36.86 | -2.05 | 12.57 | 168.56 | ppb |
| Rhodium | 103-1 | | | | 101 | | % |
| Rhodium | 103-2 | | | | 101 | | % |
| Scandium | 45-1 | | | | 104 | | % |
| Scandium | 45-2 | | | | 102 | | % |
| Selenium | 82-1 | 0.10 | 0.36 | 0.05 | 0.17 | 97.83 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | 1.38 | 1.56 | -0.38 | 0.85 | 125.20 | ppb |
| Silicon | 28-1 | -11.49 | -13.38 | -11.65 | -12.18 | | ppb |
| Silver | 107-1 | 0.08 | 0.06 | 0.05 | 0.06 | 26.41 | ppb |
| Silver | 109-1 | 0.06 | 0.05 | 0.04 | 0.05 | 20.13 | ppb |
| Sodium | 23-2 | 68.43 | 83.95 | 64.71 | 72.36 | 14.10 | ppb |
| Strontium | 86-1 | 0.64 | 0.42 | 0.33 | 0.46 | 33.76 | ppb |
| Strontium | 88-1 | 0.60 | 0.43 | 0.36 | 0.46 | 27.06 | ppb |
| Sulfur | 34-1 | -962.50 | -1183.93 | -1108.00 | -1084.81 | | ppb |
| Terbium | 159-1 | | | | 105 | | % |
| Terbium | 159-2 | | | | 104 | | % |
| Thallium | 203-1 | 0.07 | 0.07 | 0.06 | 0.07 | 10.18 | ppb |
| Thallium | 205-1 | 0.08 | 0.06 | 0.05 | 0.06 | 22.24 | ppb |
| Tin | 118-1 | 0.09 | 0.16 | 0.15 | 0.13 | 29.74 | ppb |
| Titanium | 47-1 | 0.41 | 0.26 | 0.26 | 0.31 | 27.91 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCB02 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:58:04 | DataFile Name : | 037CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.02 | 0.02 | 0.01 | 0.02 | 33.42 | ppb |
| Vanadium | 51-2 | 0.01 | 0.01 | 0.02 | 0.02 | 37.31 | ppb |
| Yttrium | 89-1 | | | | 103 | | % |
| Yttrium | 89-2 | | | | 101 | | % |
| Zinc | 66-2 | 0.40 | 0.40 | 0.28 | 0.36 | 18.85 | ppb |
| Zirconium | 90-1 | 0.11 | 0.10 | 0.10 | 0.10 | 6.52 | ppb |
| Zirconium | 91-1 | 0.11 | 0.12 | 0.11 | 0.11 | 2.37 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-02DLX2 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-TM1-WPDL | Dilution Factor : | 2 |
| Date & Time Acquired : | 2024-10-17 19:01:26 | DataFile Name : | 038SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1268.68 | 1330.40 | 1251.88 | 1283.65 | 3.22 | ppb |
| Antimony | 121-1 | 387.89 | 397.85 | 399.18 | 394.98 | 1.56 | ppb |
| Arsenic | 75-2 | 270.88 | 276.71 | 263.54 | 270.38 | 2.44 | ppb |
| Barium | 135-1 | 296.20 | 300.61 | 303.31 | 300.04 | 1.20 | ppb |
| Barium | 137-1 | 295.24 | 301.81 | 303.64 | 300.23 | 1.47 | ppb |
| Beryllium | 9-1 | 146.33 | 148.89 | 150.21 | 148.48 | 1.33 | ppb |
| Bismuth | 209-1 | | | | 108 | | % |
| Bismuth | 209-2 | | | | 113 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 173.20 | 179.62 | 176.76 | 176.53 | 1.82 | ppb |
| Cadmium | 106-1 | 166.43 | 166.72 | 170.77 | 167.97 | 1.44 | ppb |
| Cadmium | 111-1 | 199.78 | 203.96 | 204.42 | 202.72 | 1.26 | ppb |
| Calcium | 43-1 | 127.71 | 88.79 | 96.88 | 104.46 | 19.66 | ppb |
| Calcium | 44-1 | 80.30 | 45.43 | 44.38 | 56.70 | 36.05 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 281.94 | 295.81 | 279.31 | 285.69 | 3.10 | ppb |
| Cobalt | 59-2 | 90.29 | 92.88 | 88.16 | 90.44 | 2.61 | ppb |
| Copper | 63-2 | 328.76 | 342.01 | 322.78 | 331.18 | 2.97 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 107 | | % |
| Holmium | 165-2 | | | | 111 | | % |
| Indium | 115-1 | | | | 106 | | % |
| Indium | 115-2 | | | | 110 | | % |
| Iron | 56-2 | 784.59 | 823.07 | 768.87 | 792.18 | 3.52 | ppb |
| Iron | 57-2 | 701.39 | 694.41 | 651.23 | 682.34 | 3.98 | ppb |
| Iron | 54-2 | 989.36 | 1024.30 | 953.44 | 989.03 | 3.58 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-02DLX2 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-TM1-WPDL | Dilution Factor : | 2 |
| Date & Time Acquired : | 2024-10-17 19:01:26 | DataFile Name : | 038SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 426.96 | 426.26 | 427.03 | 426.75 | 0.10 | ppb |
| Lead | 207-1 | 410.42 | 407.72 | 411.74 | 409.96 | 0.50 | ppb |
| Lead | 208-1 | 444.63 | 445.01 | 440.93 | 443.53 | 0.51 | ppb |
| Lithium | 6-1 | | | | 108 | | % |
| Magnesium | 24-2 | 2.46 | 3.18 | 1.29 | 2.31 | 41.26 | ppb |
| Manganese | 55-2 | 312.45 | 327.95 | 311.48 | 317.29 | 2.91 | ppb |
| Molybdenum | 94-1 | 219.22 | 226.64 | 223.14 | 223.00 | 1.66 | ppb |
| Molybdenum | 95-1 | 264.22 | 271.33 | 265.04 | 266.86 | 1.46 | ppb |
| Molybdenum | 96-1 | 260.48 | 266.98 | 260.07 | 262.51 | 1.48 | ppb |
| Molybdenum | 97-1 | 268.09 | 274.38 | 268.43 | 270.30 | 1.31 | ppb |
| Molybdenum | 98-1 | 261.55 | 270.17 | 263.65 | 265.12 | 1.70 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 804.43 | 841.44 | 796.45 | 814.10 | 2.95 | ppb |
| Phosphorus | 31-2 | -6.58 | -7.42 | -13.82 | -9.27 | | ppb |
| Potassium | 39-2 | -12.76 | -10.04 | -17.64 | -13.48 | | ppb |
| Rhodium | 103-1 | | | | 104 | | % |
| Rhodium | 103-2 | | | | 110 | | % |
| Scandium | 45-1 | | | | 105 | | % |
| Scandium | 45-2 | | | | 109 | | % |
| Selenium | 82-1 | 241.64 | 249.79 | 238.17 | 243.20 | 2.45 | ppb |
| Selenium | 77-2 | 215.19 | 257.70 | 243.45 | 238.78 | 9.06 | ppb |
| Selenium | 78-2 | 224.28 | 245.88 | 225.97 | 232.04 | 5.18 | ppb |
| Silicon | 28-1 | 145.30 | 148.64 | 152.09 | 148.68 | 2.28 | ppb |
| Silver | 107-1 | 287.92 | 294.76 | 295.31 | 292.67 | 1.41 | ppb |
| Silver | 109-1 | 287.70 | 294.88 | 293.99 | 292.19 | 1.34 | ppb |
| Sodium | 23-2 | 69.63 | 71.89 | 65.77 | 69.09 | 4.48 | ppb |
| Strontium | 86-1 | 221.11 | 227.82 | 221.76 | 223.56 | 1.66 | ppb |
| Strontium | 88-1 | 222.17 | 229.73 | 226.71 | 226.20 | 1.68 | ppb |
| Sulfur | 34-1 | -1317.49 | -1494.14 | -1543.60 | -1451.75 | | ppb |
| Terbium | 159-1 | | | | 107 | | % |
| Terbium | 159-2 | | | | 111 | | % |
| Thallium | 203-1 | 185.64 | 185.85 | 185.44 | 185.64 | 0.11 | ppb |
| Thallium | 205-1 | 207.92 | 206.96 | 203.99 | 206.29 | 0.99 | ppb |
| Tin | 118-1 | 0.19 | 0.19 | 0.22 | 0.20 | 7.43 | ppb |
| Titanium | 47-1 | 0.74 | 0.25 | 0.22 | 0.40 | 72.95 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-02DLX2 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-TM1-WPDL | Dilution Factor : | 2 |
| Date & Time Acquired : | 2024-10-17 19:01:26 | DataFile Name : | 038SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | 45.59 | ppb |
| Vanadium | 51-2 | 516.52 | 544.58 | 515.65 | 525.58 | 3.13 | ppb |
| Yttrium | 89-1 | | | | 105 | | % |
| Yttrium | 89-2 | | | | 110 | | % |
| Zinc | 66-2 | 306.87 | 321.99 | 302.36 | 310.41 | 3.31 | ppb |
| Zirconium | 90-1 | 0.23 | 0.23 | 0.22 | 0.23 | 2.30 | ppb |
| Zirconium | 91-1 | 0.27 | 0.26 | 0.30 | 0.28 | 7.34 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-04DLX2 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-SNTI-WPDL | Dilution Factor : | 2 |
| Date & Time Acquired : | 2024-10-17 19:04:46 | DataFile Name : | 039SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 36.11 | 36.98 | 37.27 | 36.79 | 1.64 | ppb |
| Antimony | 121-1 | 0.23 | 0.25 | 0.26 | 0.25 | 5.56 | ppb |
| Arsenic | 75-2 | 0.02 | 0.11 | 0.00 | 0.04 | 124.17 | ppb |
| Barium | 135-1 | 0.12 | 0.16 | 0.13 | 0.14 | 16.02 | ppb |
| Barium | 137-1 | 0.10 | 0.14 | 0.13 | 0.12 | 15.23 | ppb |
| Beryllium | 9-1 | 0.22 | 0.20 | 0.14 | 0.19 | 21.84 | ppb |
| Bismuth | 209-1 | | | | 106 | | % |
| Bismuth | 209-2 | | | | 111 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | -0.02 | 0.07 | -0.06 | 0.00 | | ppb |
| Cadmium | 106-1 | -1.05 | -0.91 | -1.59 | -1.18 | | ppb |
| Cadmium | 111-1 | -0.06 | -0.06 | -0.10 | -0.07 | | ppb |
| Calcium | 43-1 | 0.90 | 1.82 | 4.91 | 2.54 | 82.78 | ppb |
| Calcium | 44-1 | 7.30 | 8.24 | 6.68 | 7.41 | 10.62 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.03 | 0.04 | 0.01 | 0.02 | 52.91 | ppb |
| Cobalt | 59-2 | 0.04 | 0.03 | 0.03 | 0.03 | 9.62 | ppb |
| Copper | 63-2 | 0.04 | 0.08 | 0.17 | 0.09 | 70.69 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 106 | | % |
| Holmium | 165-2 | | | | 109 | | % |
| Indium | 115-1 | | | | 105 | | % |
| Indium | 115-2 | | | | 107 | | % |
| Iron | 56-2 | 1.19 | 1.56 | 1.41 | 1.39 | 13.38 | ppb |
| Iron | 57-2 | -3.60 | -2.26 | -0.27 | -2.05 | | ppb |
| Iron | 54-2 | -0.76 | 0.61 | 1.10 | 0.32 | 301.25 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-04DLX2 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-SNTI-WPDL | Dilution Factor : | 2 |
| Date & Time Acquired : | 2024-10-17 19:04:46 | DataFile Name : | 039SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.15 | 0.15 | 0.17 | 0.16 | 6.44 | ppb |
| Lead | 207-1 | 0.15 | 0.12 | 0.12 | 0.13 | 14.39 | ppb |
| Lead | 208-1 | 0.15 | 0.14 | 0.15 | 0.14 | 3.89 | ppb |
| Lithium | 6-1 | | | | 108 | | % |
| Magnesium | 24-2 | 2.40 | 2.06 | 2.62 | 2.36 | 11.86 | ppb |
| Manganese | 55-2 | 0.04 | 0.08 | 0.06 | 0.06 | 27.97 | ppb |
| Molybdenum | 94-1 | 1.63 | 1.49 | 1.55 | 1.56 | 4.57 | ppb |
| Molybdenum | 95-1 | 0.08 | 0.06 | 0.06 | 0.07 | 16.31 | ppb |
| Molybdenum | 96-1 | 0.21 | 0.24 | 0.23 | 0.23 | 7.27 | ppb |
| Molybdenum | 97-1 | 0.06 | 0.05 | 0.06 | 0.06 | 12.53 | ppb |
| Molybdenum | 98-1 | 0.05 | 0.07 | 0.06 | 0.06 | 14.54 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.13 | 0.16 | 0.07 | 0.12 | 35.95 | ppb |
| Phosphorus | 31-2 | -11.58 | -20.04 | -16.80 | -16.14 | | ppb |
| Potassium | 39-2 | -17.18 | -9.58 | -14.22 | -13.66 | | ppb |
| Rhodium | 103-1 | | | | 104 | | % |
| Rhodium | 103-2 | | | | 109 | | % |
| Scandium | 45-1 | | | | 106 | | % |
| Scandium | 45-2 | | | | 109 | | % |
| Selenium | 82-1 | -0.03 | 0.51 | 0.16 | 0.21 | 126.15 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | 0.88 | 0.35 | 1.37 | 0.87 | 59.15 | ppb |
| Silicon | 28-1 | 918.61 | 949.42 | 922.83 | 930.29 | 1.80 | ppb |
| Silver | 107-1 | 0.07 | 0.06 | 0.05 | 0.06 | 20.11 | ppb |
| Silver | 109-1 | 0.08 | 0.05 | 0.05 | 0.06 | 32.96 | ppb |
| Sodium | 23-2 | 137.89 | 142.14 | 137.51 | 139.18 | 1.85 | ppb |
| Strontium | 86-1 | 0.06 | 0.04 | 0.04 | 0.04 | 25.19 | ppb |
| Strontium | 88-1 | 0.06 | 0.04 | 0.05 | 0.05 | 18.75 | ppb |
| Sulfur | 34-1 | -1757.33 | -1560.19 | -1817.57 | -1711.70 | | ppb |
| Terbium | 159-1 | | | | 108 | | % |
| Terbium | 159-2 | | | | 112 | | % |
| Thallium | 203-1 | 0.06 | 0.04 | 0.04 | 0.05 | 23.41 | ppb |
| Thallium | 205-1 | 0.05 | 0.04 | 0.04 | 0.05 | 7.80 | ppb |
| Tin | 118-1 | 643.52 | 659.82 | 660.82 | 654.72 | 1.48 | ppb |
| Titanium | 47-1 | 48.92 | 50.75 | 49.71 | 49.80 | 1.84 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-04DLX2 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-SNTI-WPDL | Dilution Factor : | 2 |
| Date & Time Acquired : | 2024-10-17 19:04:46 | DataFile Name : | 039SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | 134.87 | ppb |
| Vanadium | 51-2 | 0.03 | 0.02 | 0.04 | 0.03 | 25.13 | ppb |
| Yttrium | 89-1 | | | | 106 | | % |
| Yttrium | 89-2 | | | | 110 | | % |
| Zinc | 66-2 | 0.19 | 0.34 | 0.33 | 0.29 | 29.68 | ppb |
| Zirconium | 90-1 | 0.86 | 0.83 | 0.86 | 0.85 | 1.92 | ppb |
| Zirconium | 91-1 | 0.79 | 0.84 | 0.82 | 0.82 | 3.00 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-06DLX2 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-MIN2-WPDL | Dilution Factor : | 2 |
| Date & Time Acquired : | 2024-10-17 19:08:06 | DataFile Name : | 040SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 0.64 | 0.15 | 0.35 | 0.38 | 65.54 | ppb |
| Antimony | 121-1 | 0.06 | 0.06 | 0.07 | 0.07 | 10.05 | ppb |
| Arsenic | 75-2 | 0.02 | 0.00 | 0.02 | 0.01 | 68.26 | ppb |
| Barium | 135-1 | 0.14 | 0.12 | 0.12 | 0.13 | 5.43 | ppb |
| Barium | 137-1 | 0.11 | 0.14 | 0.14 | 0.13 | 13.55 | ppb |
| Beryllium | 9-1 | 0.15 | 0.11 | 0.08 | 0.11 | 28.89 | ppb |
| Bismuth | 209-1 | | | | 116 | | % |
| Bismuth | 209-2 | | | | 119 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.01 | -0.02 | 0.14 | 0.04 | 195.52 | ppb |
| Cadmium | 106-1 | -1.15 | -0.91 | -0.85 | -0.97 | | ppb |
| Cadmium | 111-1 | -0.07 | -0.04 | -0.07 | -0.06 | | ppb |
| Calcium | 43-1 | 34106.70 | 35350.42 | 35369.01 | 34942.04 | 2.07 | ppb |
| Calcium | 44-1 | 32484.44 | 33093.12 | 34059.06 | 33212.20 | 2.39 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.03 | -0.04 | -0.06 | -0.04 | | ppb |
| Cobalt | 59-2 | 0.02 | 0.03 | 0.04 | 0.03 | 24.09 | ppb |
| Copper | 63-2 | 0.02 | 0.02 | 0.01 | 0.02 | 39.93 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 120 | | % |
| Holmium | 165-2 | | | | 121 | | % |
| Indium | 115-1 | | | | 118 | | % |
| Indium | 115-2 | | | | 117 | | % |
| Iron | 56-2 | 0.44 | 0.19 | 0.32 | 0.32 | 40.59 | ppb |
| Iron | 57-2 | 179.67 | 175.90 | 198.68 | 184.75 | 6.61 | ppb |
| Iron | 54-2 | -3.72 | -3.91 | -3.84 | -3.82 | | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-06DLX2 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-MIN2-WPDL | Dilution Factor : | 2 |
| Date & Time Acquired : | 2024-10-17 19:08:06 | DataFile Name : | 040SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.21 | 0.21 | 0.19 | 0.20 | 5.05 | ppb |
| Lead | 207-1 | 0.21 | 0.18 | 0.17 | 0.19 | 10.62 | ppb |
| Lead | 208-1 | 0.19 | 0.20 | 0.19 | 0.19 | 2.51 | ppb |
| Lithium | 6-1 | | | | 121 | | % |
| Magnesium | 24-2 | 13685.84 | 13478.78 | 13252.84 | 13472.49 | 1.61 | ppb |
| Manganese | 55-2 | 0.09 | 0.07 | 0.08 | 0.08 | 10.70 | ppb |
| Molybdenum | 94-1 | 0.32 | 0.30 | 0.32 | 0.32 | 3.79 | ppb |
| Molybdenum | 95-1 | 0.40 | 0.40 | 0.35 | 0.38 | 7.99 | ppb |
| Molybdenum | 96-1 | 0.40 | 0.40 | 0.40 | 0.40 | 1.23 | ppb |
| Molybdenum | 97-1 | 0.41 | 0.40 | 0.49 | 0.44 | 11.20 | ppb |
| Molybdenum | 98-1 | 0.38 | 0.42 | 0.41 | 0.40 | 4.46 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.03 | 0.03 | 0.04 | 0.03 | 19.00 | ppb |
| Phosphorus | 31-2 | -17.54 | -16.42 | -19.44 | -17.80 | | ppb |
| Potassium | 39-2 | 10721.28 | 10494.98 | 10551.15 | 10589.14 | 1.11 | ppb |
| Rhodium | 103-1 | | | | 114 | | % |
| Rhodium | 103-2 | | | | 117 | | % |
| Scandium | 45-1 | | | | 119 | | % |
| Scandium | 45-2 | | | | 119 | | % |
| Selenium | 82-1 | 0.56 | 0.14 | 0.33 | 0.34 | 61.33 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Selenium | 78-2 | 0.43 | -0.56 | -0.79 | -0.31 | | ppb |
| Silicon | 28-1 | -30.96 | -28.37 | -26.88 | -28.74 | | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 15.63 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 18.62 | ppb |
| Sodium | 23-2 | 41356.02 | 41403.62 | 41438.70 | 41399.44 | 0.10 | ppb |
| Strontium | 86-1 | 3.43 | 3.46 | 3.37 | 3.42 | 1.34 | ppb |
| Strontium | 88-1 | 3.38 | 3.42 | 3.41 | 3.40 | 0.66 | ppb |
| Sulfur | 34-1 | -2648.44 | -2139.13 | -1754.63 | -2180.73 | | ppb |
| Terbium | 159-1 | | | | 120 | | % |
| Terbium | 159-2 | | | | 121 | | % |
| Thallium | 203-1 | 0.06 | 0.05 | 0.04 | 0.05 | 17.09 | ppb |
| Thallium | 205-1 | 0.06 | 0.04 | 0.03 | 0.04 | 29.06 | ppb |
| Tin | 118-1 | 0.04 | 0.06 | 0.09 | 0.06 | 41.95 | ppb |
| Titanium | 47-1 | -0.01 | 0.03 | 0.09 | 0.04 | 138.04 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-06DLX2 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-MIN2-WPDL | Dilution Factor : | 2 |
| Date & Time Acquired : | 2024-10-17 19:08:06 | DataFile Name : | 040SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | 46.17 | ppb |
| Vanadium | 51-2 | 0.00 | 0.01 | 0.01 | 0.01 | 36.60 | ppb |
| Yttrium | 89-1 | | | | 118 | | % |
| Yttrium | 89-2 | | | | 118 | | % |
| Zinc | 66-2 | 0.24 | 0.26 | 0.33 | 0.28 | 17.20 | ppb |
| Zirconium | 90-1 | 0.00 | 0.00 | -0.01 | 0.00 | | ppb |
| Zirconium | 91-1 | 0.00 | -0.01 | 0.01 | 0.00 | | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | PB164203BL | Instrumnet Name : | P7 |
| Client Sample ID : | PB164203BL | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:16:39 | DataFile Name : | 041CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | -0.18 | -0.02 | -0.13 | -0.11 | | ppb |
| Antimony | 121-1 | 0.03 | 0.03 | 0.04 | 0.03 | 17.15 | ppb |
| Arsenic | 75-2 | -0.01 | 0.00 | 0.02 | 0.00 | 369.92 | ppb |
| Barium | 135-1 | 0.00 | -0.01 | 0.00 | 0.00 | | ppb |
| Barium | 137-1 | 0.00 | -0.01 | 0.01 | 0.00 | 2817.00 | ppb |
| Beryllium | 9-1 | 0.10 | 0.14 | 0.11 | 0.12 | 17.48 | ppb |
| Bismuth | 209-1 | | | | 107 | | % |
| Bismuth | 209-2 | | | | 111 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | -0.06 | 0.03 | -0.02 | -0.02 | | ppb |
| Cadmium | 106-1 | -1.36 | -2.70 | -1.12 | -1.73 | | ppb |
| Cadmium | 111-1 | -0.09 | -0.21 | -0.08 | -0.13 | | ppb |
| Calcium | 43-1 | -2.76 | 0.34 | -1.38 | -1.27 | | ppb |
| Calcium | 44-1 | 0.20 | -0.17 | -1.41 | -0.46 | | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.03 | -0.02 | -0.02 | -0.02 | | ppb |
| Cobalt | 59-2 | 0.00 | 0.00 | 0.01 | 0.00 | 206.93 | ppb |
| Copper | 63-2 | 0.04 | -0.01 | 0.00 | 0.01 | 270.39 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 106 | | % |
| Holmium | 165-2 | | | | 109 | | % |
| Indium | 115-1 | | | | 105 | | % |
| Indium | 115-2 | | | | 107 | | % |
| Iron | 56-2 | 0.10 | 0.03 | -0.01 | 0.04 | 143.73 | ppb |
| Iron | 57-2 | -4.70 | -4.86 | -3.81 | -4.46 | | ppb |
| Iron | 54-2 | -2.38 | -0.60 | 1.06 | -0.64 | | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | PB164203BL | Instrumnet Name : | P7 |
| Client Sample ID : | PB164203BL | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:16:39 | DataFile Name : | 041CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.06 | 0.07 | 0.04 | 0.06 | 28.56 | ppb |
| Lead | 207-1 | 0.05 | 0.04 | 0.05 | 0.05 | 9.26 | ppb |
| Lead | 208-1 | 0.05 | 0.05 | 0.04 | 0.05 | 9.66 | ppb |
| Lithium | 6-1 | | | | 105 | | % |
| Magnesium | 24-2 | 1.57 | 2.51 | 2.46 | 2.18 | 24.40 | ppb |
| Manganese | 55-2 | -0.01 | -0.02 | -0.01 | -0.01 | | ppb |
| Molybdenum | 94-1 | 0.03 | 0.01 | 0.03 | 0.02 | 43.30 | ppb |
| Molybdenum | 95-1 | 0.01 | 0.02 | 0.02 | 0.02 | 59.27 | ppb |
| Molybdenum | 96-1 | 0.02 | 0.01 | 0.01 | 0.01 | 5.90 | ppb |
| Molybdenum | 97-1 | 0.02 | 0.01 | 0.03 | 0.02 | 42.88 | ppb |
| Molybdenum | 98-1 | 0.02 | 0.02 | 0.01 | 0.02 | 28.00 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.00 | -0.05 | -0.03 | -0.03 | | ppb |
| Phosphorus | 31-2 | -13.44 | -15.65 | -22.11 | -17.06 | | ppb |
| Potassium | 39-2 | -19.45 | -11.85 | -13.70 | -15.00 | | ppb |
| Rhodium | 103-1 | | | | 105 | | % |
| Rhodium | 103-2 | | | | 108 | | % |
| Scandium | 45-1 | | | | 105 | | % |
| Scandium | 45-2 | | | | 107 | | % |
| Selenium | 82-1 | -0.44 | -0.32 | 0.59 | -0.06 | | ppb |
| Selenium | 77-2 | 0.00 | 1.17 | 0.00 | 0.39 | 173.21 | ppb |
| Selenium | 78-2 | -0.76 | -0.24 | -1.59 | -0.86 | | ppb |
| Silicon | 28-1 | -15.16 | -13.76 | -12.07 | -13.66 | | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 29.71 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 12.82 | ppb |
| Sodium | 23-2 | 23.75 | 25.02 | 25.25 | 24.68 | 3.27 | ppb |
| Strontium | 86-1 | -0.01 | 0.03 | -0.02 | 0.00 | 37314.30 | ppb |
| Strontium | 88-1 | 0.01 | 0.00 | 0.00 | 0.00 | 42.44 | ppb |
| Sulfur | 34-1 | -929.50 | -641.00 | -816.71 | -795.74 | | ppb |
| Terbium | 159-1 | | | | 106 | | % |
| Terbium | 159-2 | | | | 109 | | % |
| Thallium | 203-1 | 0.03 | 0.02 | 0.02 | 0.02 | 17.09 | ppb |
| Thallium | 205-1 | 0.03 | 0.02 | 0.02 | 0.02 | 13.84 | ppb |
| Tin | 118-1 | 0.01 | 0.02 | 0.05 | 0.03 | 86.64 | ppb |
| Titanium | 47-1 | 0.01 | 0.05 | 0.03 | 0.03 | 70.42 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | PB164203BL | Instrumnet Name : | P7 |
| Client Sample ID : | PB164203BL | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:16:39 | DataFile Name : | 041CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | 6.53 | ppb |
| Vanadium | 51-2 | 0.00 | 0.01 | 0.00 | 0.00 | 157.41 | ppb |
| Yttrium | 89-1 | | | | 104 | | % |
| Yttrium | 89-2 | | | | 107 | | % |
| Zinc | 66-2 | -0.02 | -0.07 | 0.08 | 0.00 | | ppb |
| Zirconium | 90-1 | 0.01 | 0.00 | 0.02 | 0.01 | 114.84 | ppb |
| Zirconium | 91-1 | 0.03 | 0.01 | 0.02 | 0.02 | 67.63 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | PB164203BS | Instrumnet Name : | P7 |
| Client Sample ID : | PB164203BS | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:20:02 | DataFile Name : | 042LCS6.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 10104.33 | 10101.57 | 10047.66 | 10084.52 | 0.32 | ppb |
| Antimony | 121-1 | 518.66 | 624.94 | 511.21 | 551.60 | 11.53 | ppb |
| Arsenic | 75-2 | 476.32 | 481.69 | 480.50 | 479.50 | 0.59 | ppb |
| Barium | 135-1 | 2606.15 | 3084.88 | 2524.52 | 2738.52 | 11.05 | ppb |
| Barium | 137-1 | 2539.46 | 3035.23 | 2507.38 | 2694.02 | 10.98 | ppb |
| Beryllium | 9-1 | 495.85 | 595.37 | 490.06 | 527.10 | 11.23 | ppb |
| Bismuth | 209-1 | | | | 96 | | % |
| Bismuth | 209-2 | | | | 106 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 508.33 | 616.92 | 504.45 | 543.23 | 11.75 | ppb |
| Cadmium | 106-1 | 508.03 | 610.93 | 503.40 | 540.79 | 11.24 | ppb |
| Cadmium | 111-1 | 515.67 | 619.61 | 507.53 | 547.60 | 11.41 | ppb |
| Calcium | 43-1 | 56014.81 | 70276.84 | 56038.19 | 60776.62 | 13.54 | ppb |
| Calcium | 44-1 | 51930.28 | 64272.61 | 51865.23 | 56022.70 | 12.75 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 489.91 | 492.37 | 486.18 | 489.49 | 0.64 | ppb |
| Cobalt | 59-2 | 486.02 | 487.09 | 483.49 | 485.53 | 0.38 | ppb |
| Copper | 63-2 | 4899.21 | 4936.27 | 4861.20 | 4898.89 | 0.77 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 101 | | % |
| Holmium | 165-2 | | | | 110 | | % |
| Indium | 115-1 | | | | 95 | | % |
| Indium | 115-2 | | | | 104 | | % |
| Iron | 56-2 | 26475.14 | 26663.58 | 26363.86 | 26500.86 | 0.57 | ppb |
| Iron | 57-2 | 27590.88 | 27742.61 | 27492.08 | 27608.52 | 0.46 | ppb |
| Iron | 54-2 | 26836.20 | 26764.55 | 27321.85 | 26974.20 | 1.12 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | PB164203BS | Instrumnet Name : | P7 |
| Client Sample ID : | PB164203BS | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:20:02 | DataFile Name : | 042LCS6.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2507.29 | 3074.06 | 2486.63 | 2689.33 | 12.40 | ppb |
| Lead | 207-1 | 2489.55 | 3044.30 | 2492.39 | 2675.41 | 11.94 | ppb |
| Lead | 208-1 | 2497.01 | 3049.18 | 2486.16 | 2677.45 | 12.03 | ppb |
| Lithium | 6-1 | | | | 97 | | % |
| Magnesium | 24-2 | 47431.11 | 48182.67 | 47333.76 | 47649.18 | 0.97 | ppb |
| Manganese | 55-2 | 4821.42 | 4811.97 | 4758.48 | 4797.29 | 0.71 | ppb |
| Molybdenum | 94-1 | 5477.22 | 6869.39 | 5392.02 | 5912.88 | 14.03 | ppb |
| Molybdenum | 95-1 | 5432.19 | 6769.00 | 5423.03 | 5874.74 | 13.18 | ppb |
| Molybdenum | 96-1 | 5446.31 | 6930.24 | 5408.54 | 5928.36 | 14.64 | ppb |
| Molybdenum | 97-1 | 5461.06 | 6943.85 | 5463.89 | 5956.27 | 14.36 | ppb |
| Molybdenum | 98-1 | 5463.39 | 6813.28 | 5407.59 | 5894.75 | 13.50 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 483.40 | 488.93 | 481.28 | 484.54 | 0.82 | ppb |
| Phosphorus | 31-2 | 9629.11 | 9636.88 | 9672.39 | 9646.13 | 0.24 | ppb |
| Potassium | 39-2 | 25469.25 | 25223.91 | 25208.40 | 25300.52 | 0.58 | ppb |
| Rhodium | 103-1 | | | | 94 | | % |
| Rhodium | 103-2 | | | | 103 | | % |
| Scandium | 45-1 | | | | 97 | | % |
| Scandium | 45-2 | | | | 105 | | % |
| Selenium | 82-1 | 504.91 | 619.05 | 505.80 | 543.26 | 12.08 | ppb |
| Selenium | 77-2 | 490.44 | 482.55 | 471.19 | 481.39 | 2.01 | ppb |
| Selenium | 78-2 | 480.52 | 493.63 | 466.59 | 480.25 | 2.82 | ppb |
| Silicon | 28-1 | 501.03 | 654.50 | 509.48 | 555.00 | 15.54 | ppb |
| Silver | 107-1 | 526.28 | 627.19 | 517.34 | 556.94 | 10.95 | ppb |
| Silver | 109-1 | 539.61 | 636.22 | 521.33 | 565.72 | 10.91 | ppb |
| Sodium | 23-2 | 50688.49 | 51106.78 | 50521.25 | 50772.17 | 0.59 | ppb |
| Strontium | 86-1 | 12475.30 | 15316.04 | 12397.05 | 13396.13 | 12.42 | ppb |
| Strontium | 88-1 | 12418.41 | 15289.95 | 12370.60 | 13359.65 | 12.51 | ppb |
| Sulfur | 34-1 | 9238.11 | 13365.62 | 9032.10 | 10545.27 | 23.18 | ppb |
| Terbium | 159-1 | | | | 100 | | % |
| Terbium | 159-2 | | | | 110 | | % |
| Thallium | 203-1 | 500.48 | 608.09 | 503.74 | 537.44 | 11.39 | ppb |
| Thallium | 205-1 | 500.80 | 610.85 | 497.39 | 536.34 | 12.03 | ppb |
| Tin | 118-1 | 516.11 | 622.95 | 501.45 | 546.84 | 12.13 | ppb |
| Titanium | 47-1 | 5467.50 | 6791.35 | 5441.97 | 5900.27 | 13.08 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | PB164203BS | Instrumnet Name : | P7 |
| Client Sample ID : | PB164203BS | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:20:02 | DataFile Name : | 042LCS6.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 498.46 | 599.91 | 485.77 | 528.05 | 11.85 | ppb |
| Vanadium | 51-2 | 478.27 | 479.66 | 471.04 | 476.32 | 0.97 | ppb |
| Yttrium | 89-1 | | | | 97 | | % |
| Yttrium | 89-2 | | | | 106 | | % |
| Zinc | 66-2 | 4846.39 | 4839.31 | 4819.50 | 4835.07 | 0.29 | ppb |
| Zirconium | 90-1 | 489.13 | 614.55 | 495.41 | 533.03 | 13.26 | ppb |
| Zirconium | 91-1 | 495.81 | 624.16 | 494.13 | 538.04 | 13.86 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | PB164204BL | Instrumnet Name : | P7 |
| Client Sample ID : | PB164204BL | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:22:59 | DataFile Name : | 043CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | -0.03 | 0.27 | 0.13 | 0.12 | 120.78 | ppb |
| Antimony | 121-1 | 0.32 | 0.30 | 0.35 | 0.32 | 9.11 | ppb |
| Arsenic | 75-2 | 0.02 | 0.07 | 0.02 | 0.04 | 75.87 | ppb |
| Barium | 135-1 | 0.11 | 0.06 | 0.06 | 0.08 | 40.53 | ppb |
| Barium | 137-1 | 0.07 | 0.06 | 0.03 | 0.05 | 35.86 | ppb |
| Beryllium | 9-1 | 0.32 | 0.26 | 0.21 | 0.26 | 21.28 | ppb |
| Bismuth | 209-1 | | | | 106 | | % |
| Bismuth | 209-2 | | | | 110 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.03 | -0.02 | 0.12 | 0.04 | 166.15 | ppb |
| Cadmium | 106-1 | 0.30 | -1.21 | -1.02 | -0.64 | | ppb |
| Cadmium | 111-1 | 0.03 | -0.07 | -0.05 | -0.03 | | ppb |
| Calcium | 43-1 | -1.50 | 0.85 | -1.46 | -0.70 | | ppb |
| Calcium | 44-1 | 2.08 | 0.70 | 0.98 | 1.25 | 58.18 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.01 | 0.02 | 0.03 | 0.02 | 60.33 | ppb |
| Cobalt | 59-2 | 0.02 | 0.01 | 0.02 | 0.02 | 36.64 | ppb |
| Copper | 63-2 | 0.16 | 0.15 | 0.09 | 0.13 | 31.33 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 107 | | % |
| Holmium | 165-2 | | | | 109 | | % |
| Indium | 115-1 | | | | 104 | | % |
| Indium | 115-2 | | | | 107 | | % |
| Iron | 56-2 | 0.65 | 0.89 | 0.99 | 0.84 | 20.86 | ppb |
| Iron | 57-2 | -2.92 | -4.32 | -1.86 | -3.03 | | ppb |
| Iron | 54-2 | 1.48 | 0.25 | -0.14 | 0.53 | 159.70 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | PB164204BL | Instrumnet Name : | P7 |
| Client Sample ID : | PB164204BL | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:22:59 | DataFile Name : | 043CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.23 | 0.19 | 0.17 | 0.20 | 15.38 | ppb |
| Lead | 207-1 | 0.25 | 0.15 | 0.13 | 0.18 | 36.60 | ppb |
| Lead | 208-1 | 0.23 | 0.18 | 0.17 | 0.19 | 17.32 | ppb |
| Lithium | 6-1 | | | | 103 | | % |
| Magnesium | 24-2 | 2.27 | 2.08 | 1.82 | 2.06 | 11.03 | ppb |
| Manganese | 55-2 | 0.12 | 0.18 | 0.17 | 0.15 | 21.11 | ppb |
| Molybdenum | 94-1 | 0.53 | 0.48 | 0.47 | 0.49 | 6.99 | ppb |
| Molybdenum | 95-1 | 0.41 | 0.33 | 0.29 | 0.34 | 17.93 | ppb |
| Molybdenum | 96-1 | 0.41 | 0.33 | 0.36 | 0.37 | 11.79 | ppb |
| Molybdenum | 97-1 | 0.40 | 0.27 | 0.28 | 0.32 | 22.84 | ppb |
| Molybdenum | 98-1 | 0.37 | 0.30 | 0.30 | 0.32 | 12.96 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.02 | -0.02 | 0.01 | 0.00 | 551.84 | ppb |
| Phosphorus | 31-2 | -20.05 | -12.74 | -14.08 | -15.63 | | ppb |
| Potassium | 39-2 | -15.95 | -14.10 | -12.62 | -14.22 | | ppb |
| Rhodium | 103-1 | | | | 102 | | % |
| Rhodium | 103-2 | | | | 107 | | % |
| Scandium | 45-1 | | | | 102 | | % |
| Scandium | 45-2 | | | | 107 | | % |
| Selenium | 82-1 | 0.38 | 0.49 | 0.76 | 0.54 | 35.43 | ppb |
| Selenium | 77-2 | 0.00 | 0.00 | 1.17 | 0.39 | 173.21 | ppb |
| Selenium | 78-2 | -0.01 | -0.75 | -0.04 | -0.27 | | ppb |
| Silicon | 28-1 | -8.21 | -9.96 | -10.80 | -9.65 | | ppb |
| Silver | 107-1 | 0.08 | 0.07 | 0.05 | 0.07 | 23.24 | ppb |
| Silver | 109-1 | 0.08 | 0.06 | 0.06 | 0.06 | 16.55 | ppb |
| Sodium | 23-2 | 30.10 | 29.95 | 28.25 | 29.43 | 3.49 | ppb |
| Strontium | 86-1 | 0.49 | 0.29 | 0.27 | 0.35 | 35.19 | ppb |
| Strontium | 88-1 | 0.50 | 0.32 | 0.25 | 0.35 | 35.79 | ppb |
| Sulfur | 34-1 | -1051.56 | -1310.37 | -1352.06 | -1238.00 | | ppb |
| Terbium | 159-1 | | | | 106 | | % |
| Terbium | 159-2 | | | | 110 | | % |
| Thallium | 203-1 | 0.04 | 0.05 | 0.05 | 0.05 | 9.78 | ppb |
| Thallium | 205-1 | 0.06 | 0.04 | 0.04 | 0.05 | 26.21 | ppb |
| Tin | 118-1 | 0.06 | 0.06 | 0.07 | 0.06 | 9.47 | ppb |
| Titanium | 47-1 | 0.36 | 0.26 | 0.24 | 0.29 | 21.44 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | PB164204BL | Instrumnet Name : | P7 |
| Client Sample ID : | PB164204BL | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:22:59 | DataFile Name : | 043CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.02 | 0.01 | 0.01 | 0.01 | 25.47 | ppb |
| Vanadium | 51-2 | 0.00 | 0.01 | 0.01 | 0.01 | 64.46 | ppb |
| Yttrium | 89-1 | | | | 103 | | % |
| Yttrium | 89-2 | | | | 107 | | % |
| Zinc | 66-2 | 0.29 | 0.36 | 0.32 | 0.32 | 10.40 | ppb |
| Zirconium | 90-1 | 0.11 | 0.08 | 0.09 | 0.09 | 13.25 | ppb |
| Zirconium | 91-1 | 0.13 | 0.08 | 0.10 | 0.10 | 20.85 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | PB164204BS | Instrumnet Name : | P7 |
| Client Sample ID : | PB164204BS | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:26:21 | DataFile Name : | 044DLCW.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 10297.58 | 10406.75 | 10043.39 | 10249.24 | 1.82 | ppb |
| Antimony | 121-1 | 520.46 | 511.09 | 519.71 | 517.09 | 1.01 | ppb |
| Arsenic | 75-2 | 480.62 | 488.74 | 478.58 | 482.65 | 1.11 | ppb |
| Barium | 135-1 | 2599.50 | 2539.90 | 2589.72 | 2576.37 | 1.24 | ppb |
| Barium | 137-1 | 2547.27 | 2521.16 | 2543.20 | 2537.21 | 0.55 | ppb |
| Beryllium | 9-1 | 502.63 | 486.92 | 497.51 | 495.69 | 1.62 | ppb |
| Bismuth | 209-1 | | | | 103 | | % |
| Bismuth | 209-2 | | | | 107 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 512.46 | 503.80 | 510.48 | 508.91 | 0.89 | ppb |
| Cadmium | 106-1 | 508.19 | 492.95 | 504.94 | 502.03 | 1.60 | ppb |
| Cadmium | 111-1 | 514.56 | 505.14 | 514.39 | 511.37 | 1.05 | ppb |
| Calcium | 43-1 | 58647.29 | 57588.47 | 57176.40 | 57804.05 | 1.31 | ppb |
| Calcium | 44-1 | 54701.49 | 53134.52 | 53114.30 | 53650.10 | 1.70 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 500.13 | 507.14 | 491.68 | 499.65 | 1.55 | ppb |
| Cobalt | 59-2 | 492.50 | 499.61 | 484.98 | 492.36 | 1.49 | ppb |
| Copper | 63-2 | 4971.89 | 5040.62 | 4903.84 | 4972.12 | 1.38 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 107 | | % |
| Holmium | 165-2 | | | | 109 | | % |
| Indium | 115-1 | | | | 102 | | % |
| Indium | 115-2 | | | | 103 | | % |
| Iron | 56-2 | 27173.89 | 27404.97 | 26629.52 | 27069.46 | 1.47 | ppb |
| Iron | 57-2 | 28370.33 | 28563.71 | 27529.19 | 28154.41 | 1.95 | ppb |
| Iron | 54-2 | 27653.53 | 27867.06 | 26545.31 | 27355.30 | 2.59 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | PB164204BS | Instrumnet Name : | P7 |
| Client Sample ID : | PB164204BS | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:26:21 | DataFile Name : | 044DLCW.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2546.81 | 2465.60 | 2543.28 | 2518.56 | 1.82 | ppb |
| Lead | 207-1 | 2541.95 | 2449.04 | 2526.11 | 2505.70 | 1.98 | ppb |
| Lead | 208-1 | 2553.12 | 2474.02 | 2541.65 | 2522.93 | 1.69 | ppb |
| Lithium | 6-1 | | | | 103 | | % |
| Magnesium | 24-2 | 48203.47 | 49037.98 | 47027.58 | 48089.68 | 2.10 | ppb |
| Manganese | 55-2 | 4963.80 | 4900.91 | 4809.68 | 4891.46 | 1.58 | ppb |
| Molybdenum | 94-1 | 5646.14 | 5504.49 | 5553.71 | 5568.12 | 1.29 | ppb |
| Molybdenum | 95-1 | 5583.40 | 5455.39 | 5559.25 | 5532.68 | 1.23 | ppb |
| Molybdenum | 96-1 | 5609.00 | 5475.30 | 5578.65 | 5554.31 | 1.26 | ppb |
| Molybdenum | 97-1 | 5612.22 | 5496.86 | 5636.15 | 5581.74 | 1.33 | ppb |
| Molybdenum | 98-1 | 5600.81 | 5488.72 | 5556.30 | 5548.61 | 1.02 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 495.78 | 499.15 | 485.78 | 493.57 | 1.41 | ppb |
| Phosphorus | 31-2 | 9869.58 | 9920.54 | 9585.40 | 9791.84 | 1.84 | ppb |
| Potassium | 39-2 | 25391.60 | 25824.27 | 25165.49 | 25460.45 | 1.31 | ppb |
| Rhodium | 103-1 | | | | 99 | | % |
| Rhodium | 103-2 | | | | 103 | | % |
| Scandium | 45-1 | | | | 102 | | % |
| Scandium | 45-2 | | | | 105 | | % |
| Selenium | 82-1 | 506.68 | 498.74 | 507.83 | 504.42 | 0.98 | ppb |
| Selenium | 77-2 | 501.81 | 487.55 | 443.83 | 477.73 | 6.32 | ppb |
| Selenium | 78-2 | 486.71 | 484.32 | 460.65 | 477.23 | 3.02 | ppb |
| Silicon | 28-1 | 524.92 | 514.60 | 524.73 | 521.42 | 1.13 | ppb |
| Silver | 107-1 | 515.63 | 516.22 | 515.94 | 515.93 | 0.06 | ppb |
| Silver | 109-1 | 530.90 | 506.85 | 526.77 | 521.51 | 2.47 | ppb |
| Sodium | 23-2 | 51299.11 | 52177.06 | 50568.32 | 51348.16 | 1.57 | ppb |
| Strontium | 86-1 | 12821.27 | 12382.91 | 12711.62 | 12638.60 | 1.80 | ppb |
| Strontium | 88-1 | 12807.60 | 12456.19 | 12851.98 | 12705.26 | 1.71 | ppb |
| Sulfur | 34-1 | 9493.99 | 8957.48 | 8927.99 | 9126.48 | 3.49 | ppb |
| Terbium | 159-1 | | | | 107 | | % |
| Terbium | 159-2 | | | | 110 | | % |
| Thallium | 203-1 | 510.00 | 502.11 | 503.20 | 505.10 | 0.85 | ppb |
| Thallium | 205-1 | 514.47 | 502.42 | 506.63 | 507.84 | 1.20 | ppb |
| Tin | 118-1 | 514.41 | 517.05 | 513.72 | 515.06 | 0.34 | ppb |
| Titanium | 47-1 | 5717.55 | 5551.21 | 5555.53 | 5608.10 | 1.69 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | PB164204BS | Instrumnet Name : | P7 |
| Client Sample ID : | PB164204BS | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:26:21 | DataFile Name : | 044DLCW.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 499.32 | 487.27 | 493.52 | 493.37 | 1.22 | ppb |
| Vanadium | 51-2 | 488.78 | 493.52 | 475.95 | 486.08 | 1.87 | ppb |
| Yttrium | 89-1 | | | | 104 | | % |
| Yttrium | 89-2 | | | | 106 | | % |
| Zinc | 66-2 | 4926.12 | 4963.36 | 4840.86 | 4910.11 | 1.28 | ppb |
| Zirconium | 90-1 | 509.38 | 499.04 | 506.60 | 505.01 | 1.06 | ppb |
| Zirconium | 91-1 | 511.38 | 501.10 | 508.32 | 506.94 | 1.04 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCV03 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:29:17 | DataFile Name : | 045CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 49897.41 | 49248.51 | 48808.55 | 49318.16 | 1.11 | ppb |
| Antimony | 121-1 | 495.72 | 487.54 | 498.37 | 493.88 | 1.14 | ppb |
| Arsenic | 75-2 | 466.25 | 459.77 | 453.74 | 459.92 | 1.36 | ppb |
| Barium | 135-1 | 2522.87 | 2510.14 | 2482.27 | 2505.09 | 0.83 | ppb |
| Barium | 137-1 | 2478.47 | 2462.12 | 2502.08 | 2480.89 | 0.81 | ppb |
| Beryllium | 9-1 | 491.04 | 490.23 | 499.01 | 493.42 | 0.98 | ppb |
| Bismuth | 209-1 | | | | 96 | | % |
| Bismuth | 209-2 | | | | 89 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 476.83 | 481.83 | 479.66 | 479.44 | 0.52 | ppb |
| Cadmium | 106-1 | 474.43 | 476.48 | 482.09 | 477.67 | 0.83 | ppb |
| Cadmium | 111-1 | 475.47 | 474.72 | 476.20 | 475.46 | 0.16 | ppb |
| Calcium | 43-1 | 247824.81 | 253584.42 | 258415.84 | 253275.02 | 2.09 | ppb |
| Calcium | 44-1 | 246602.21 | 252629.81 | 254440.99 | 251224.34 | 1.63 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 479.23 | 477.29 | 469.79 | 475.43 | 1.05 | ppb |
| Cobalt | 59-2 | 504.12 | 500.28 | 492.99 | 499.13 | 1.13 | ppb |
| Copper | 63-2 | 4982.12 | 4886.18 | 4818.73 | 4895.68 | 1.68 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 105 | | % |
| Holmium | 165-2 | | | | 106 | | % |
| Indium | 115-1 | | | | 96 | | % |
| Indium | 115-2 | | | | 98 | | % |
| Iron | 56-2 | 129848.30 | 127991.52 | 126151.48 | 127997.10 | 1.44 | ppb |
| Iron | 57-2 | 129090.11 | 127466.92 | 126967.43 | 127841.49 | 0.87 | ppb |
| Iron | 54-2 | 128904.90 | 128175.75 | 126838.11 | 127972.92 | 0.82 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCV03 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:29:17 | DataFile Name : | 045CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2541.54 | 2477.80 | 2516.47 | 2511.94 | 1.28 | ppb |
| Lead | 207-1 | 2533.93 | 2475.00 | 2510.01 | 2506.31 | 1.18 | ppb |
| Lead | 208-1 | 2540.22 | 2489.83 | 2519.71 | 2516.59 | 1.01 | ppb |
| Lithium | 6-1 | | | | 99 | | % |
| Magnesium | 24-2 | 245597.32 | 241787.15 | 241918.08 | 243100.85 | 0.89 | ppb |
| Manganese | 55-2 | 4679.74 | 4687.21 | 4589.96 | 4652.31 | 1.16 | ppb |
| Molybdenum | 94-1 | 5442.38 | 5511.98 | 5544.22 | 5499.53 | 0.95 | ppb |
| Molybdenum | 95-1 | 5457.18 | 5506.18 | 5555.74 | 5506.37 | 0.89 | ppb |
| Molybdenum | 96-1 | 5433.11 | 5489.05 | 5523.36 | 5481.84 | 0.83 | ppb |
| Molybdenum | 97-1 | 5449.66 | 5453.89 | 5573.64 | 5492.40 | 1.28 | ppb |
| Molybdenum | 98-1 | 5432.40 | 5463.67 | 5495.30 | 5463.79 | 0.58 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 499.08 | 486.07 | 484.28 | 489.81 | 1.65 | ppb |
| Phosphorus | 31-2 | 9295.70 | 9353.13 | 9024.09 | 9224.30 | 1.91 | ppb |
| Potassium | 39-2 | 125890.27 | 124023.42 | 123645.55 | 124519.75 | 0.97 | ppb |
| Rhodium | 103-1 | | | | 92 | | % |
| Rhodium | 103-2 | | | | 95 | | % |
| Scandium | 45-1 | | | | 99 | | % |
| Scandium | 45-2 | | | | 103 | | % |
| Selenium | 82-1 | 463.29 | 475.65 | 479.48 | 472.81 | 1.79 | ppb |
| Selenium | 77-2 | 448.71 | 477.59 | 477.63 | 467.97 | 3.56 | ppb |
| Selenium | 78-2 | 448.97 | 458.96 | 432.13 | 446.69 | 3.03 | ppb |
| Silicon | 28-1 | 498.60 | 509.86 | 528.58 | 512.35 | 2.96 | ppb |
| Silver | 107-1 | 482.75 | 475.14 | 477.89 | 478.60 | 0.81 | ppb |
| Silver | 109-1 | 490.60 | 480.35 | 480.01 | 483.65 | 1.24 | ppb |
| Sodium | 23-2 | 252671.60 | 246583.95 | 247358.76 | 248871.44 | 1.33 | ppb |
| Strontium | 86-1 | 12202.40 | 12349.31 | 12365.72 | 12305.81 | 0.73 | ppb |
| Strontium | 88-1 | 12279.76 | 12491.37 | 12398.07 | 12389.73 | 0.86 | ppb |
| Sulfur | 34-1 | 8831.04 | 9264.36 | 9467.19 | 9187.53 | 3.54 | ppb |
| Terbium | 159-1 | | | | 104 | | % |
| Terbium | 159-2 | | | | 107 | | % |
| Thallium | 203-1 | 509.71 | 502.03 | 501.11 | 504.29 | 0.94 | ppb |
| Thallium | 205-1 | 507.10 | 500.07 | 508.38 | 505.18 | 0.89 | ppb |
| Tin | 118-1 | 491.93 | 495.31 | 496.62 | 494.62 | 0.49 | ppb |
| Titanium | 47-1 | 5297.22 | 5449.77 | 5492.51 | 5413.17 | 1.90 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCV03 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:29:17 | DataFile Name : | 045CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 521.03 | 512.63 | 512.79 | 515.48 | 0.93 | ppb |
| Vanadium | 51-2 | 472.84 | 468.12 | 465.86 | 468.94 | 0.76 | ppb |
| Yttrium | 89-1 | | | | 100 | | % |
| Yttrium | 89-2 | | | | 103 | | % |
| Zinc | 66-2 | 4863.48 | 4782.56 | 4763.35 | 4803.13 | 1.11 | ppb |
| Zirconium | 90-1 | 494.29 | 501.23 | 501.76 | 499.10 | 0.84 | ppb |
| Zirconium | 91-1 | 495.23 | 502.05 | 505.95 | 501.08 | 1.08 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCB03 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:35:42 | DataFile Name : | 046CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1.23 | 1.09 | 2.18 | 1.50 | 39.69 | ppb |
| Antimony | 121-1 | 0.13 | 0.18 | 0.20 | 0.17 | 19.63 | ppb |
| Arsenic | 75-2 | 0.00 | 0.15 | 0.06 | 0.07 | 102.75 | ppb |
| Barium | 135-1 | 0.02 | 0.02 | 0.02 | 0.02 | 1.39 | ppb |
| Barium | 137-1 | 0.04 | 0.01 | 0.03 | 0.03 | 48.61 | ppb |
| Beryllium | 9-1 | 0.26 | 0.28 | 0.21 | 0.25 | 12.79 | ppb |
| Bismuth | 209-1 | | | | 106 | | % |
| Bismuth | 209-2 | | | | 111 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | -0.06 | -0.02 | -0.06 | -0.05 | | ppb |
| Cadmium | 106-1 | -1.75 | -1.49 | -0.44 | -1.23 | | ppb |
| Cadmium | 111-1 | -0.12 | -0.10 | -0.01 | -0.08 | | ppb |
| Calcium | 43-1 | 3.83 | 1.16 | 0.05 | 1.68 | 115.82 | ppb |
| Calcium | 44-1 | 1.93 | 0.98 | 2.47 | 1.79 | 42.00 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.01 | -0.02 | -0.01 | -0.01 | | ppb |
| Cobalt | 59-2 | 0.02 | 0.03 | 0.03 | 0.03 | 30.58 | ppb |
| Copper | 63-2 | 0.10 | 0.23 | 0.23 | 0.19 | 38.54 | ppb |
| Dysprosium | 156-1 | | | | | | cps |
| Dysprosium | 156-2 | | | | | | cps |
| Erbium | 164-1 | | | | | | cps |
| Erbium | 164-2 | | | | | | cps |
| Gadolinium | 160-1 | | | | | | cps |
| Gadolinium | 160-2 | | | | | | cps |
| Holmium | 165-1 | | | | 106 | | % |
| Holmium | 165-2 | | | | 109 | | % |
| Indium | 115-1 | | | | 104 | | % |
| Indium | 115-2 | | | | 107 | | % |
| Iron | 56-2 | 3.94 | 4.63 | 5.00 | 4.52 | 11.89 | ppb |
| Iron | 57-2 | 0.97 | 3.32 | 3.53 | 2.61 | 54.41 | ppb |
| Iron | 54-2 | 3.83 | 3.85 | 5.83 | 4.50 | 25.56 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCB03 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:35:42 | DataFile Name : | 046CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.13 | 0.13 | 0.14 | 0.13 | 2.92 | ppb |
| Lead | 207-1 | 0.15 | 0.12 | 0.14 | 0.14 | 9.54 | ppb |
| Lead | 208-1 | 0.13 | 0.13 | 0.14 | 0.13 | 2.80 | ppb |
| Lithium | 6-1 | | | | 103 | | % |
| Magnesium | 24-2 | 6.88 | 7.75 | 8.34 | 7.66 | 9.61 | ppb |
| Manganese | 55-2 | 0.15 | 0.21 | 0.15 | 0.17 | 19.03 | ppb |
| Molybdenum | 94-1 | 0.26 | 0.24 | 0.25 | 0.25 | 3.74 | ppb |
| Molybdenum | 95-1 | 0.11 | 0.10 | 0.18 | 0.13 | 29.62 | ppb |
| Molybdenum | 96-1 | 0.13 | 0.12 | 0.17 | 0.14 | 17.60 | ppb |
| Molybdenum | 97-1 | 0.14 | 0.11 | 0.14 | 0.13 | 9.75 | ppb |
| Molybdenum | 98-1 | 0.12 | 0.11 | 0.15 | 0.13 | 16.07 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.05 | 0.00 | -0.01 | 0.01 | 242.17 | ppb |
| Phosphorus | 31-2 | -20.77 | -11.59 | -5.54 | -12.64 | | ppb |
| Potassium | 39-2 | -12.92 | -5.56 | -10.56 | -9.68 | | ppb |
| Rhodium | 103-1 | | | | 104 | | % |
| Rhodium | 103-2 | | | | 107 | | % |
| Scandium | 45-1 | | | | 103 | | % |
| Scandium | 45-2 | | | | 106 | | % |
| Selenium | 82-1 | 0.28 | 0.63 | 0.70 | 0.53 | 42.07 | ppb |
| Selenium | 77-2 | 0.59 | 0.00 | 0.00 | 0.20 | 173.21 | ppb |
| Selenium | 78-2 | -0.92 | -0.87 | -1.57 | -1.12 | | ppb |
| Silicon | 28-1 | -14.00 | -11.88 | -13.17 | -13.02 | | ppb |
| Silver | 107-1 | 0.03 | 0.04 | 0.03 | 0.03 | 15.61 | ppb |
| Silver | 109-1 | 0.03 | 0.02 | 0.04 | 0.03 | 20.36 | ppb |
| Sodium | 23-2 | 42.59 | 45.81 | 45.06 | 44.49 | 3.78 | ppb |
| Strontium | 86-1 | 0.15 | 0.12 | 0.12 | 0.13 | 13.15 | ppb |
| Strontium | 88-1 | 0.13 | 0.12 | 0.17 | 0.14 | 17.95 | ppb |
| Sulfur | 34-1 | -1109.53 | -874.86 | -998.57 | -994.32 | | ppb |
| Terbium | 159-1 | | | | 106 | | % |
| Terbium | 159-2 | | | | 110 | | % |
| Thallium | 203-1 | 0.04 | 0.04 | 0.04 | 0.04 | 1.33 | ppb |
| Thallium | 205-1 | 0.05 | 0.03 | 0.04 | 0.04 | 21.08 | ppb |
| Tin | 118-1 | 0.01 | 0.06 | 0.04 | 0.04 | 62.09 | ppb |
| Titanium | 47-1 | 0.08 | 0.13 | 0.16 | 0.12 | 35.05 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCB03 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:35:42 | DataFile Name : | 046CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.00 | 0.00 | 0.01 | 0.00 | 36.53 | ppb |
| Vanadium | 51-2 | 0.01 | 0.02 | 0.02 | 0.02 | 29.69 | ppb |
| Yttrium | 89-1 | | | | 103 | | % |
| Yttrium | 89-2 | | | | 106 | | % |
| Zinc | 66-2 | 0.15 | 0.23 | 0.35 | 0.24 | 40.40 | ppb |
| Zirconium | 90-1 | 0.08 | 0.09 | 0.10 | 0.09 | 8.08 | ppb |
| Zirconium | 91-1 | 0.06 | 0.08 | 0.08 | 0.07 | 15.07 | ppb |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S0 | Instrumnet Name : | P7 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:19:52 | DataFile Name : | 004CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 57 | 80 | 77 | 71 | 17.74 | cps |
| Antimony | 121-1 | 7 | 20 | 23 | 17 | 52.90 | cps |
| Arsenic | 75-2 | 3 | 3 | 0 | 2 | 86.60 | cps |
| Barium | 135-1 | 13 | 17 | 17 | 16 | 12.40 | cps |
| Barium | 137-1 | 30 | 37 | 27 | 31 | 16.37 | cps |
| Beryllium | 9-1 | 20 | 20 | 23 | 21 | 9.11 | cps |
| Bismuth | 209-1 | 2309641 | 2292032 | 2310463 | 2304045 | 0.45 | cps |
| Bismuth | 209-2 | 1677392 | 1830947 | 1855824 | 1788054 | 5.40 | cps |
| Bromine | 81-1 | 6728 | 6552 | 6618 | 6633 | 1.35 | cps |
| Bromine | 81-2 | 37 | 57 | 20 | 38 | 48.60 | cps |
| Cadmium | 108-1 | 0 | 10 | 3 | 4 | 114.60 | cps |
| Cadmium | 106-1 | 1383 | 1387 | 1340 | 1370 | 1.90 | cps |
| Cadmium | 111-1 | 968 | 964 | 936 | 956 | 1.85 | cps |
| Calcium | 43-1 | 137 | 123 | 193 | 151 | 24.60 | cps |
| Calcium | 44-1 | 2707 | 2424 | 2570 | 2567 | 5.52 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 160 | 170 | 223 | 184 | 18.46 | cps |
| Cobalt | 59-2 | 7 | 20 | 13 | 13 | 49.99 | cps |
| Copper | 63-2 | 510 | 547 | 577 | 544 | 6.13 | cps |
| Dysprosium | 156-1 | 17 | 30 | 7 | 18 | 65.83 | cps |
| Dysprosium | 156-2 | 3 | 10 | 0 | 4 | 114.60 | cps |
| Erbium | 164-1 | 13 | 7 | 13 | 11 | 34.61 | cps |
| Erbium | 164-2 | 3 | 0 | 13 | 6 | 124.93 | cps |
| Gadolinium | 160-1 | 17 | 13 | 13 | 14 | 13.35 | cps |
| Gadolinium | 160-2 | 90 | 107 | 127 | 108 | 17.03 | cps |
| Holmium | 165-1 | 3629252 | 3660820 | 3648201 | 3646091 | 0.44 | cps |
| Holmium | 165-2 | 2273322 | 2528936 | 2554417 | 2452225 | 6.34 | cps |
| Indium | 115-1 | 2810973 | 2826135 | 2854114 | 2830408 | 0.77 | cps |
| Indium | 115-2 | 805012 | 884408 | 904056 | 864492 | 6.07 | cps |
| Iron | 56-2 | 4207 | 4524 | 4604 | 4445 | 4.72 | cps |
| Iron | 57-2 | 547 | 583 | 583 | 571 | 3.69 | cps |
| Iron | 54-2 | 830 | 730 | 867 | 809 | 8.75 | cps |
| Krypton | 83-1 | 73 | 87 | 90 | 83 | 10.59 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S0 | Instrumnet Name : | P7 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:19:52 | DataFile Name : | 004CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 90 | 97 | 90 | 92 | 4.18 | cps |
| Lead | 207-1 | 107 | 107 | 70 | 94 | 22.42 | cps |
| Lead | 208-1 | 433 | 400 | 353 | 396 | 10.16 | cps |
| Lithium | 6-1 | 751308 | 746668 | 753327 | 750434 | 0.46 | cps |
| Magnesium | 24-2 | 1090 | 1050 | 1157 | 1099 | 4.90 | cps |
| Manganese | 55-2 | 77 | 80 | 90 | 82 | 8.44 | cps |
| Molybdenum | 94-1 | 60 | 73 | 73 | 69 | 11.17 | cps |
| Molybdenum | 95-1 | 13 | 23 | 20 | 19 | 26.96 | cps |
| Molybdenum | 96-1 | 53 | 27 | 20 | 33 | 52.91 | cps |
| Molybdenum | 97-1 | 3 | 0 | 10 | 4 | 114.60 | cps |
| Molybdenum | 98-1 | 23 | 30 | 20 | 24 | 20.83 | cps |
| Neodymium | 150-1 | 0 | 3 | 3 | 2 | 86.60 | cps |
| Neodymium | 150-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Nickel | 60-2 | 47 | 57 | 67 | 57 | 17.65 | cps |
| Phosphorus | 31-2 | 103 | 113 | 117 | 111 | 6.25 | cps |
| Potassium | 39-2 | 33864 | 33908 | 33380 | 33717 | 0.87 | cps |
| Rhodium | 103-1 | 2536796 | 2510479 | 2536358 | 2527878 | 0.60 | cps |
| Rhodium | 103-2 | 1263722 | 1378868 | 1407258 | 1349949 | 5.63 | cps |
| Scandium | 45-1 | 1469072 | 1471410 | 1470683 | 1470388 | 0.08 | cps |
| Scandium | 45-2 | 117839 | 128190 | 131411 | 125813 | 5.64 | cps |
| Selenium | 82-1 | 66 | 102 | 106 | 92 | 24.11 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 110 | 83 | 77 | 90 | 19.60 | cps |
| Silicon | 28-1 | 192669 | 193186 | 191575 | 192476 | 0.43 | cps |
| Silver | 107-1 | 43 | 20 | 17 | 27 | 54.47 | cps |
| Silver | 109-1 | 17 | 10 | 10 | 12 | 31.50 | cps |
| Sodium | 23-2 | 5068 | 5141 | 5021 | 5076 | 1.19 | cps |
| Strontium | 86-1 | 120 | 113 | 127 | 120 | 5.55 | cps |
| Strontium | 88-1 | 97 | 103 | 70 | 90 | 19.60 | cps |
| Sulfur | 34-1 | 128168 | 129328 | 127833 | 128443 | 0.61 | cps |
| Terbium | 159-1 | 3694262 | 3755794 | 3757822 | 3735960 | 0.97 | cps |
| Terbium | 159-2 | 2197942 | 2455389 | 2514916 | 2389416 | 7.05 | cps |
| Thallium | 203-1 | 13 | 10 | 0 | 8 | 89.21 | cps |
| Thallium | 205-1 | 20 | 37 | 37 | 31 | 30.93 | cps |
| Tin | 118-1 | 867 | 727 | 763 | 786 | 9.24 | cps |
| Titanium | 47-1 | 40 | 37 | 23 | 33 | 26.47 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S0 | Instrumnet Name : | P7 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:19:52 | DataFile Name : | 004CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 7 | 7 | 3 | 6 | 34.70 | cps |
| Vanadium | 51-2 | 3 | 3 | 3 | 3 | 0.00 | cps |
| Yttrium | 89-1 | 4649575 | 4687281 | 4676881 | 4671246 | 0.42 | cps |
| Yttrium | 89-2 | 1042976 | 1149102 | 1166521 | 1119533 | 5.97 | cps |
| Zinc | 66-2 | 97 | 57 | 67 | 73 | 28.39 | cps |
| Zirconium | 90-1 | 187 | 147 | 127 | 153 | 19.92 | cps |
| Zirconium | 91-1 | 27 | 27 | 40 | 31 | 24.74 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S2 | Instrumnet Name : | P7 |
| Client Sample ID : | S2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:23:14 | DataFile Name : | 005CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1980 | 1880 | 1967 | 1942 | 2.80 | cps |
| Antimony | 121-1 | 8399 | 8292 | 8009 | 8234 | 2.45 | cps |
| Arsenic | 75-2 | 190 | 170 | 250 | 203 | 20.48 | cps |
| Barium | 135-1 | 10337 | 10651 | 10334 | 10441 | 1.74 | cps |
| Barium | 137-1 | 17805 | 18385 | 18546 | 18245 | 2.14 | cps |
| Beryllium | 9-1 | 843 | 927 | 903 | 891 | 4.82 | cps |
| Bismuth | 209-1 | 2325909 | 2301126 | 2262338 | 2296458 | 1.40 | cps |
| Bismuth | 209-2 | 1851179 | 1889274 | 1860918 | 1867124 | 1.06 | cps |
| Bromine | 81-1 | 6518 | 6395 | 6245 | 6386 | 2.14 | cps |
| Bromine | 81-2 | 23 | 47 | 40 | 37 | 32.79 | cps |
| Cadmium | 108-1 | 103 | 93 | 117 | 104 | 11.21 | cps |
| Cadmium | 106-1 | 1527 | 1623 | 1373 | 1508 | 8.36 | cps |
| Cadmium | 111-1 | 2103 | 2234 | 1850 | 2062 | 9.48 | cps |
| Calcium | 43-1 | 5908 | 5951 | 5828 | 5896 | 1.06 | cps |
| Calcium | 44-1 | 92956 | 95096 | 94955 | 94335 | 1.27 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 3110 | 3287 | 3184 | 3194 | 2.78 | cps |
| Cobalt | 59-2 | 2290 | 2287 | 2397 | 2325 | 2.69 | cps |
| Copper | 63-2 | 3537 | 3674 | 3480 | 3564 | 2.79 | cps |
| Dysprosium | 156-1 | 23 | 3 | 7 | 11 | 96.43 | cps |
| Dysprosium | 156-2 | 0 | 3 | 3 | 2 | 86.60 | cps |
| Erbium | 164-1 | 10 | 10 | 7 | 9 | 21.63 | cps |
| Erbium | 164-2 | 10 | 13 | 10 | 11 | 17.30 | cps |
| Gadolinium | 160-1 | 0 | 20 | 20 | 13 | 86.60 | cps |
| Gadolinium | 160-2 | 107 | 110 | 133 | 117 | 12.46 | cps |
| Holmium | 165-1 | 3687146 | 3677481 | 3641605 | 3668744 | 0.65 | cps |
| Holmium | 165-2 | 2520472 | 2571580 | 2542223 | 2544758 | 1.01 | cps |
| Indium | 115-1 | 2860030 | 2854410 | 2820775 | 2845072 | 0.75 | cps |
| Indium | 115-2 | 897035 | 913665 | 901696 | 904132 | 0.95 | cps |
| Iron | 56-2 | 74496 | 73897 | 73800 | 74064 | 0.51 | cps |
| Iron | 57-2 | 2313 | 2329 | 2254 | 2299 | 1.71 | cps |
| Iron | 54-2 | 4831 | 4734 | 4771 | 4779 | 1.02 | cps |
| Krypton | 83-1 | 73 | 73 | 57 | 68 | 14.19 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S2 | Instrumnet Name : | P7 |
| Client Sample ID : | S2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:23:14 | DataFile Name : | 005CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 3234 | 3084 | 3037 | 3118 | 3.30 | cps |
| Lead | 207-1 | 2757 | 2704 | 2877 | 2779 | 3.20 | cps |
| Lead | 208-1 | 12853 | 12609 | 12506 | 12656 | 1.41 | cps |
| Lithium | 6-1 | 762354 | 759142 | 757353 | 759616 | 0.33 | cps |
| Magnesium | 24-2 | 83411 | 82949 | 83870 | 83410 | 0.55 | cps |
| Manganese | 55-2 | 1237 | 1273 | 1147 | 1219 | 5.35 | cps |
| Molybdenum | 94-1 | 8076 | 7982 | 8296 | 8118 | 1.98 | cps |
| Molybdenum | 95-1 | 10160 | 9610 | 9680 | 9817 | 3.05 | cps |
| Molybdenum | 96-1 | 10704 | 11405 | 10954 | 11021 | 3.22 | cps |
| Molybdenum | 97-1 | 6125 | 6241 | 6381 | 6249 | 2.06 | cps |
| Molybdenum | 98-1 | 16363 | 16026 | 16229 | 16206 | 1.05 | cps |
| Neodymium | 150-1 | 0 | 3 | 3 | 2 | 86.60 | cps |
| Neodymium | 150-2 | 0 | 0 | 3 | 1 | 173.21 | cps |
| Nickel | 60-2 | 620 | 593 | 627 | 613 | 2.88 | cps |
| Phosphorus | 31-2 | 243 | 247 | 257 | 249 | 2.79 | cps |
| Potassium | 39-2 | 129485 | 128735 | 130449 | 129556 | 0.66 | cps |
| Rhodium | 103-1 | 2564904 | 2545586 | 2566851 | 2559114 | 0.46 | cps |
| Rhodium | 103-2 | 1410606 | 1412204 | 1404857 | 1409222 | 0.27 | cps |
| Scandium | 45-1 | 1503994 | 1491853 | 1486080 | 1493976 | 0.61 | cps |
| Scandium | 45-2 | 131642 | 132610 | 130089 | 131447 | 0.97 | cps |
| Selenium | 82-1 | 407 | 367 | 411 | 395 | 6.11 | cps |
| Selenium | 77-2 | 33 | 53 | 37 | 41 | 26.06 | cps |
| Selenium | 78-2 | 160 | 230 | 223 | 204 | 18.90 | cps |
| Silicon | 28-1 | 202299 | 202095 | 202644 | 202346 | 0.14 | cps |
| Silver | 107-1 | 4577 | 4664 | 4581 | 4607 | 1.07 | cps |
| Silver | 109-1 | 4651 | 4721 | 4477 | 4616 | 2.71 | cps |
| Sodium | 23-2 | 134565 | 135446 | 135432 | 135148 | 0.37 | cps |
| Strontium | 86-1 | 1437 | 1443 | 1543 | 1475 | 4.05 | cps |
| Strontium | 88-1 | 11728 | 11705 | 11675 | 11703 | 0.23 | cps |
| Sulfur | 34-1 | 126878 | 129173 | 127624 | 127892 | 0.92 | cps |
| Terbium | 159-1 | 3780636 | 3823673 | 3724587 | 3776299 | 1.32 | cps |
| Terbium | 159-2 | 2519066 | 2490318 | 2483602 | 2497662 | 0.75 | cps |
| Thallium | 203-1 | 3754 | 3674 | 3777 | 3735 | 1.45 | cps |
| Thallium | 205-1 | 8623 | 8986 | 9043 | 8884 | 2.57 | cps |
| Tin | 118-1 | 18279 | 17813 | 17837 | 17976 | 1.46 | cps |
| Titanium | 47-1 | 2707 | 2350 | 2430 | 2496 | 7.50 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S2 | Instrumnet Name : | P7 |
| Client Sample ID : | S2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:23:14 | DataFile Name : | 005CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 11151 | 11388 | 11211 | 11250 | 1.09 | cps |
| Vanadium | 51-2 | 6765 | 6898 | 6795 | 6819 | 1.03 | cps |
| Yttrium | 89-1 | 4734590 | 4704415 | 4716136 | 4718380 | 0.32 | cps |
| Yttrium | 89-2 | 1161943 | 1167570 | 1162071 | 1163861 | 0.28 | cps |
| Zinc | 66-2 | 1333 | 1467 | 1457 | 1419 | 5.23 | cps |
| Zirconium | 90-1 | 6688 | 6725 | 6605 | 6673 | 0.92 | cps |
| Zirconium | 91-1 | 1407 | 1650 | 1670 | 1576 | 9.31 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S3 | Instrumnet Name : | P7 |
| Client Sample ID : | S3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:26:38 | DataFile Name : | 006CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 96129 | 96467 | 96333 | 96310 | 0.18 | cps |
| Antimony | 121-1 | 204023 | 205108 | 203095 | 204075 | 0.49 | cps |
| Arsenic | 75-2 | 9049 | 9093 | 9096 | 9080 | 0.29 | cps |
| Barium | 135-1 | 274646 | 275796 | 278416 | 276286 | 0.70 | cps |
| Barium | 137-1 | 472518 | 475173 | 477176 | 474956 | 0.49 | cps |
| Beryllium | 9-1 | 40349 | 41231 | 41839 | 41140 | 1.82 | cps |
| Bismuth | 209-1 | 2297024 | 2317481 | 2334690 | 2316398 | 0.81 | cps |
| Bismuth | 209-2 | 1878586 | 1902627 | 1866414 | 1882542 | 0.98 | cps |
| Bromine | 81-1 | 6415 | 6575 | 6511 | 6500 | 1.24 | cps |
| Bromine | 81-2 | 43 | 30 | 37 | 37 | 18.18 | cps |
| Cadmium | 108-1 | 3717 | 3814 | 3827 | 3786 | 1.59 | cps |
| Cadmium | 106-1 | 6852 | 6912 | 6715 | 6826 | 1.48 | cps |
| Cadmium | 111-1 | 52197 | 53001 | 53231 | 52810 | 1.03 | cps |
| Calcium | 43-1 | 62662 | 62712 | 62384 | 62586 | 0.28 | cps |
| Calcium | 44-1 | 967260 | 965164 | 964365 | 965596 | 0.15 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 75045 | 76191 | 75246 | 75494 | 0.81 | cps |
| Cobalt | 59-2 | 112715 | 112672 | 112843 | 112744 | 0.08 | cps |
| Copper | 63-2 | 795879 | 793382 | 789798 | 793020 | 0.39 | cps |
| Dysprosium | 156-1 | 23 | 20 | 7 | 17 | 52.90 | cps |
| Dysprosium | 156-2 | 30 | 17 | 17 | 21 | 36.45 | cps |
| Erbium | 164-1 | 23 | 30 | 13 | 22 | 37.76 | cps |
| Erbium | 164-2 | 7 | 20 | 10 | 12 | 56.76 | cps |
| Gadolinium | 160-1 | 20 | 3 | 20 | 14 | 66.64 | cps |
| Gadolinium | 160-2 | 100 | 110 | 150 | 120 | 22.05 | cps |
| Holmium | 165-1 | 3767668 | 3696983 | 3732135 | 3732262 | 0.95 | cps |
| Holmium | 165-2 | 2555967 | 2620800 | 2588603 | 2588457 | 1.25 | cps |
| Indium | 115-1 | 2862531 | 2837820 | 2833561 | 2844637 | 0.55 | cps |
| Indium | 115-2 | 899387 | 909473 | 903397 | 904086 | 0.56 | cps |
| Iron | 56-2 | 3290615 | 3297991 | 3259748 | 3282784 | 0.62 | cps |
| Iron | 57-2 | 85349 | 86336 | 87289 | 86324 | 1.12 | cps |
| Iron | 54-2 | 195930 | 194107 | 194442 | 194826 | 0.50 | cps |
| Krypton | 83-1 | 73 | 60 | 73 | 69 | 11.17 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S3 | Instrumnet Name : | P7 |
| Client Sample ID : | S3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:26:38 | DataFile Name : | 006CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 774486 | 780524 | 782472 | 779161 | 0.53 | cps |
| Lead | 207-1 | 672112 | 671150 | 670612 | 671291 | 0.11 | cps |
| Lead | 208-1 | 3088472 | 3093279 | 3096803 | 3092851 | 0.14 | cps |
| Lithium | 6-1 | 758939 | 756876 | 758624 | 758147 | 0.15 | cps |
| Magnesium | 24-2 | 780427 | 780411 | 776982 | 779273 | 0.25 | cps |
| Manganese | 55-2 | 587561 | 583604 | 586593 | 585920 | 0.35 | cps |
| Molybdenum | 94-1 | 750187 | 753502 | 754555 | 752748 | 0.30 | cps |
| Molybdenum | 95-1 | 1092197 | 1101012 | 1099484 | 1097564 | 0.43 | cps |
| Molybdenum | 96-1 | 1196618 | 1196639 | 1195801 | 1196353 | 0.04 | cps |
| Molybdenum | 97-1 | 692575 | 695699 | 694178 | 694151 | 0.23 | cps |
| Molybdenum | 98-1 | 1764593 | 1764127 | 1790151 | 1772957 | 0.84 | cps |
| Neodymium | 150-1 | 37 | 10 | 33 | 27 | 54.49 | cps |
| Neodymium | 150-2 | 10 | 13 | 0 | 8 | 89.21 | cps |
| Nickel | 60-2 | 29165 | 28280 | 28367 | 28604 | 1.71 | cps |
| Phosphorus | 31-2 | 4544 | 4634 | 4544 | 4574 | 1.14 | cps |
| Potassium | 39-2 | 519918 | 520394 | 519599 | 519970 | 0.08 | cps |
| Rhodium | 103-1 | 2536270 | 2508830 | 2561254 | 2535451 | 1.03 | cps |
| Rhodium | 103-2 | 1392561 | 1406600 | 1403682 | 1400948 | 0.53 | cps |
| Scandium | 45-1 | 1512706 | 1501976 | 1469247 | 1494643 | 1.51 | cps |
| Scandium | 45-2 | 129463 | 132029 | 131615 | 131036 | 1.05 | cps |
| Selenium | 82-1 | 3033 | 3077 | 3095 | 3068 | 1.04 | cps |
| Selenium | 77-2 | 290 | 277 | 257 | 274 | 6.11 | cps |
| Selenium | 78-2 | 1000 | 1043 | 1080 | 1041 | 3.85 | cps |
| Silicon | 28-1 | 294066 | 298381 | 297337 | 296594 | 0.76 | cps |
| Silver | 107-1 | 250795 | 252488 | 250275 | 251186 | 0.46 | cps |
| Silver | 109-1 | 235760 | 238186 | 239425 | 237790 | 0.78 | cps |
| Sodium | 23-2 | 1259335 | 1265083 | 1259120 | 1261179 | 0.27 | cps |
| Strontium | 86-1 | 1643349 | 1655495 | 1671702 | 1656849 | 0.86 | cps |
| Strontium | 88-1 | 14186919 | 14282637 | 14362369 | 14277309 | 0.62 | cps |
| Sulfur | 34-1 | 139695 | 137939 | 138497 | 138710 | 0.65 | cps |
| Terbium | 159-1 | 3831803 | 3777726 | 3786401 | 3798643 | 0.76 | cps |
| Terbium | 159-2 | 2514522 | 2537317 | 2564023 | 2538621 | 0.98 | cps |
| Thallium | 203-1 | 190133 | 191808 | 192118 | 191353 | 0.56 | cps |
| Thallium | 205-1 | 453939 | 453001 | 457052 | 454664 | 0.47 | cps |
| Tin | 118-1 | 177711 | 180835 | 179503 | 179350 | 0.87 | cps |
| Titanium | 47-1 | 271412 | 271593 | 273130 | 272045 | 0.35 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S3 | Instrumnet Name : | P7 |
| Client Sample ID : | S3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:26:38 | DataFile Name : | 006CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 581493 | 584496 | 584991 | 583660 | 0.32 | cps |
| Vanadium | 51-2 | 68082 | 66874 | 66318 | 67092 | 1.34 | cps |
| Yttrium | 89-1 | 4704154 | 4680565 | 4620296 | 4668338 | 0.93 | cps |
| Yttrium | 89-2 | 1170083 | 1170863 | 1171482 | 1170809 | 0.06 | cps |
| Zinc | 66-2 | 131856 | 128944 | 129838 | 130213 | 1.15 | cps |
| Zirconium | 90-1 | 337297 | 341887 | 339344 | 339509 | 0.68 | cps |
| Zirconium | 91-1 | 75051 | 75684 | 76558 | 75764 | 1.00 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S4 | Instrumnet Name : | P7 |
| Client Sample ID : | S4 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:29:55 | DataFile Name : | 007CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 232427 | 231720 | 232514 | 232220 | 0.19 | cps |
| Antimony | 121-1 | 505749 | 509819 | 508929 | 508166 | 0.42 | cps |
| Arsenic | 75-2 | 22774 | 22531 | 22444 | 22583 | 0.76 | cps |
| Barium | 135-1 | 683417 | 682249 | 686772 | 684146 | 0.34 | cps |
| Barium | 137-1 | 1173735 | 1181856 | 1183667 | 1179752 | 0.45 | cps |
| Beryllium | 9-1 | 100669 | 101176 | 100804 | 100883 | 0.26 | cps |
| Bismuth | 209-1 | 2305982 | 2342649 | 2341067 | 2329899 | 0.89 | cps |
| Bismuth | 209-2 | 1853381 | 1899047 | 1884390 | 1878939 | 1.24 | cps |
| Bromine | 81-1 | 6361 | 6268 | 6275 | 6301 | 0.83 | cps |
| Bromine | 81-2 | 37 | 30 | 20 | 29 | 29.04 | cps |
| Cadmium | 108-1 | 9987 | 9460 | 9627 | 9691 | 2.78 | cps |
| Cadmium | 106-1 | 15105 | 15465 | 15175 | 15248 | 1.25 | cps |
| Cadmium | 111-1 | 128472 | 129322 | 130575 | 129456 | 0.82 | cps |
| Calcium | 43-1 | 152572 | 151810 | 152376 | 152252 | 0.26 | cps |
| Calcium | 44-1 | 2194321 | 2161685 | 2202858 | 2186288 | 0.99 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 185607 | 183690 | 182840 | 184046 | 0.77 | cps |
| Cobalt | 59-2 | 274908 | 272313 | 274498 | 273906 | 0.51 | cps |
| Copper | 63-2 | 1934196 | 1946630 | 1925713 | 1935513 | 0.54 | cps |
| Dysprosium | 156-1 | 3 | 30 | 50 | 28 | 84.29 | cps |
| Dysprosium | 156-2 | 33 | 20 | 50 | 34 | 43.64 | cps |
| Erbium | 164-1 | 37 | 30 | 23 | 30 | 22.23 | cps |
| Erbium | 164-2 | 13 | 10 | 20 | 14 | 35.26 | cps |
| Gadolinium | 160-1 | 23 | 10 | 27 | 20 | 44.10 | cps |
| Gadolinium | 160-2 | 100 | 110 | 93 | 101 | 8.30 | cps |
| Holmium | 165-1 | 3752265 | 3707792 | 3706915 | 3722324 | 0.70 | cps |
| Holmium | 165-2 | 2586220 | 2582846 | 2564812 | 2577959 | 0.45 | cps |
| Indium | 115-1 | 2838550 | 2806052 | 2808781 | 2817795 | 0.64 | cps |
| Indium | 115-2 | 904452 | 893261 | 891603 | 896439 | 0.78 | cps |
| Iron | 56-2 | 8202126 | 8042146 | 8073428 | 8105900 | 1.05 | cps |
| Iron | 57-2 | 211838 | 210647 | 211239 | 211241 | 0.28 | cps |
| Iron | 54-2 | 476597 | 472969 | 472544 | 474037 | 0.47 | cps |
| Krypton | 83-1 | 53 | 90 | 60 | 68 | 28.82 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S4 | Instrumnet Name : | P7 |
| Client Sample ID : | S4 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:29:55 | DataFile Name : | 007CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2131996 | 2161201 | 2150612 | 2147936 | 0.69 | cps |
| Lead | 207-1 | 1883892 | 1923808 | 1853761 | 1887154 | 1.86 | cps |
| Lead | 208-1 | 8559120 | 8689027 | 8573528 | 8607225 | 0.83 | cps |
| Lithium | 6-1 | 748639 | 743942 | 752920 | 748500 | 0.60 | cps |
| Magnesium | 24-2 | 1821404 | 1828418 | 1838281 | 1829368 | 0.46 | cps |
| Manganese | 55-2 | 1387045 | 1383646 | 1391582 | 1387424 | 0.29 | cps |
| Molybdenum | 94-1 | 1855969 | 1871535 | 1867109 | 1864871 | 0.43 | cps |
| Molybdenum | 95-1 | 2725018 | 2766517 | 2744112 | 2745216 | 0.76 | cps |
| Molybdenum | 96-1 | 2945609 | 2949581 | 2965468 | 2953553 | 0.36 | cps |
| Molybdenum | 97-1 | 1672341 | 1712194 | 1725474 | 1703336 | 1.62 | cps |
| Molybdenum | 98-1 | 4330425 | 4386333 | 4433811 | 4383523 | 1.18 | cps |
| Neodymium | 150-1 | 37 | 53 | 40 | 43 | 20.34 | cps |
| Neodymium | 150-2 | 20 | 13 | 3 | 12 | 68.66 | cps |
| Nickel | 60-2 | 67678 | 68824 | 67240 | 67914 | 1.20 | cps |
| Phosphorus | 31-2 | 11218 | 11121 | 11178 | 11172 | 0.44 | cps |
| Potassium | 39-2 | 1229026 | 1232237 | 1228582 | 1229948 | 0.16 | cps |
| Rhodium | 103-1 | 2487986 | 2475828 | 2471704 | 2478506 | 0.34 | cps |
| Rhodium | 103-2 | 1396718 | 1377695 | 1384827 | 1386413 | 0.69 | cps |
| Scandium | 45-1 | 1470556 | 1473171 | 1470841 | 1471523 | 0.10 | cps |
| Scandium | 45-2 | 130274 | 129736 | 128889 | 129633 | 0.54 | cps |
| Selenium | 82-1 | 7368 | 7514 | 7286 | 7390 | 1.56 | cps |
| Selenium | 77-2 | 710 | 693 | 677 | 693 | 2.40 | cps |
| Selenium | 78-2 | 2330 | 2414 | 2477 | 2407 | 3.06 | cps |
| Silicon | 28-1 | 441672 | 444017 | 450920 | 445536 | 1.08 | cps |
| Silver | 107-1 | 613165 | 621402 | 620332 | 618299 | 0.72 | cps |
| Silver | 109-1 | 585689 | 585341 | 590554 | 587195 | 0.50 | cps |
| Sodium | 23-2 | 3036334 | 3109960 | 3113721 | 3086672 | 1.41 | cps |
| Strontium | 86-1 | 3982788 | 4028298 | 4094408 | 4035165 | 1.39 | cps |
| Strontium | 88-1 | 35156304 | 35396005 | 35209585 | 35253965 | 0.36 | cps |
| Sulfur | 34-1 | 160260 | 160267 | 160769 | 160432 | 0.18 | cps |
| Terbium | 159-1 | 3767849 | 3824743 | 3844253 | 3812282 | 1.04 | cps |
| Terbium | 159-2 | 2580335 | 2476874 | 2551419 | 2536209 | 2.10 | cps |
| Thallium | 203-1 | 476372 | 480343 | 487447 | 481387 | 1.17 | cps |
| Thallium | 205-1 | 1144611 | 1146165 | 1147545 | 1146107 | 0.13 | cps |
| Tin | 118-1 | 443020 | 445054 | 446845 | 444973 | 0.43 | cps |
| Titanium | 47-1 | 662452 | 662283 | 670507 | 665081 | 0.71 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S4 | Instrumnet Name : | P7 |
| Client Sample ID : | S4 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:29:55 | DataFile Name : | 007CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 1466656 | 1482818 | 1493740 | 1481071 | 0.92 | cps |
| Vanadium | 51-2 | 166049 | 166312 | 165698 | 166020 | 0.19 | cps |
| Yttrium | 89-1 | 4706387 | 4644228 | 4658965 | 4669860 | 0.70 | cps |
| Yttrium | 89-2 | 1168869 | 1153041 | 1149855 | 1157255 | 0.88 | cps |
| Zinc | 66-2 | 320777 | 321327 | 317976 | 320027 | 0.56 | cps |
| Zirconium | 90-1 | 840408 | 849302 | 845109 | 844940 | 0.53 | cps |
| Zirconium | 91-1 | 187758 | 188730 | 189253 | 188580 | 0.40 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S5 | Instrumnet Name : | P7 |
| Client Sample ID : | S5 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:33:04 | DataFile Name : | 008CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 458186 | 454002 | 454736 | 455641 | 0.49 | cps |
| Antimony | 121-1 | 1006108 | 1021436 | 1014842 | 1014128 | 0.76 | cps |
| Arsenic | 75-2 | 43868 | 44563 | 44323 | 44251 | 0.80 | cps |
| Barium | 135-1 | 1345982 | 1353605 | 1354852 | 1351480 | 0.36 | cps |
| Barium | 137-1 | 2443571 | 2441965 | 2452699 | 2446079 | 0.24 | cps |
| Beryllium | 9-1 | 195506 | 197351 | 196950 | 196602 | 0.49 | cps |
| Bismuth | 209-1 | 2333937 | 2328947 | 2310407 | 2324430 | 0.53 | cps |
| Bismuth | 209-2 | 1864293 | 1853449 | 1864017 | 1860586 | 0.33 | cps |
| Bromine | 81-1 | 6275 | 6451 | 6358 | 6361 | 1.39 | cps |
| Bromine | 81-2 | 50 | 20 | 33 | 34 | 43.64 | cps |
| Cadmium | 108-1 | 18669 | 19126 | 19136 | 18977 | 1.41 | cps |
| Cadmium | 106-1 | 28364 | 28495 | 28789 | 28549 | 0.76 | cps |
| Cadmium | 111-1 | 254380 | 255644 | 252788 | 254270 | 0.56 | cps |
| Calcium | 43-1 | 296260 | 296556 | 296247 | 296354 | 0.06 | cps |
| Calcium | 44-1 | 4290789 | 4282914 | 4288533 | 4287412 | 0.09 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 357640 | 357837 | 356431 | 357303 | 0.21 | cps |
| Cobalt | 59-2 | 532016 | 533600 | 529337 | 531651 | 0.41 | cps |
| Copper | 63-2 | 3710179 | 3757433 | 3728736 | 3732116 | 0.64 | cps |
| Dysprosium | 156-1 | 43 | 37 | 23 | 34 | 29.57 | cps |
| Dysprosium | 156-2 | 50 | 70 | 77 | 66 | 21.17 | cps |
| Erbium | 164-1 | 20 | 23 | 30 | 24 | 20.83 | cps |
| Erbium | 164-2 | 27 | 13 | 20 | 20 | 33.35 | cps |
| Gadolinium | 160-1 | 13 | 20 | 27 | 20 | 33.35 | cps |
| Gadolinium | 160-2 | 83 | 130 | 137 | 117 | 24.91 | cps |
| Holmium | 165-1 | 3747595 | 3716141 | 3728303 | 3730680 | 0.43 | cps |
| Holmium | 165-2 | 2621574 | 2561114 | 2569483 | 2584057 | 1.27 | cps |
| Indium | 115-1 | 2749416 | 2753369 | 2750124 | 2750970 | 0.08 | cps |
| Indium | 115-2 | 883681 | 871715 | 877504 | 877633 | 0.68 | cps |
| Iron | 56-2 | 15769209 | 15703764 | 15599937 | 15690970 | 0.54 | cps |
| Iron | 57-2 | 409915 | 413058 | 409501 | 410824 | 0.47 | cps |
| Iron | 54-2 | 927337 | 924262 | 917354 | 922984 | 0.55 | cps |
| Krypton | 83-1 | 43 | 40 | 67 | 50 | 29.06 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S5 | Instrumnet Name : | P7 |
| Client Sample ID : | S5 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:33:04 | DataFile Name : | 008CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 4301546 | 4279446 | 4338541 | 4306511 | 0.69 | cps |
| Lead | 207-1 | 3786256 | 3835641 | 3806761 | 3809553 | 0.65 | cps |
| Lead | 208-1 | 17107652 | 17291708 | 17236529 | 17211963 | 0.55 | cps |
| Lithium | 6-1 | 737721 | 729674 | 731935 | 733110 | 0.57 | cps |
| Magnesium | 24-2 | 3587723 | 3551703 | 3557637 | 3565688 | 0.54 | cps |
| Manganese | 55-2 | 2762087 | 2716740 | 2697982 | 2725603 | 1.21 | cps |
| Molybdenum | 94-1 | 3670974 | 3720958 | 3649410 | 3680447 | 1.00 | cps |
| Molybdenum | 95-1 | 5314621 | 5390310 | 5257060 | 5320664 | 1.26 | cps |
| Molybdenum | 96-1 | 5764305 | 5757395 | 5771690 | 5764463 | 0.12 | cps |
| Molybdenum | 97-1 | 3350247 | 3323348 | 3372797 | 3348797 | 0.74 | cps |
| Molybdenum | 98-1 | 8668672 | 8690118 | 8635130 | 8664640 | 0.32 | cps |
| Neodymium | 150-1 | 127 | 120 | 93 | 113 | 15.57 | cps |
| Neodymium | 150-2 | 17 | 20 | 30 | 22 | 31.22 | cps |
| Nickel | 60-2 | 133229 | 131742 | 131968 | 132313 | 0.61 | cps |
| Phosphorus | 31-2 | 22213 | 21031 | 21682 | 21642 | 2.73 | cps |
| Potassium | 39-2 | 2184705 | 2210228 | 2160586 | 2185173 | 1.14 | cps |
| Rhodium | 103-1 | 2459686 | 2383032 | 2408086 | 2416935 | 1.62 | cps |
| Rhodium | 103-2 | 1361240 | 1346530 | 1355735 | 1354501 | 0.55 | cps |
| Scandium | 45-1 | 1454110 | 1451785 | 1428095 | 1444663 | 1.00 | cps |
| Scandium | 45-2 | 127710 | 125460 | 126848 | 126673 | 0.90 | cps |
| Selenium | 82-1 | 14228 | 14612 | 14393 | 14411 | 1.34 | cps |
| Selenium | 77-2 | 1297 | 1287 | 1187 | 1257 | 4.84 | cps |
| Selenium | 78-2 | 4464 | 4474 | 4564 | 4501 | 1.22 | cps |
| Silicon | 28-1 | 675623 | 686211 | 685691 | 682509 | 0.87 | cps |
| Silver | 107-1 | 1206236 | 1220896 | 1211542 | 1212891 | 0.61 | cps |
| Silver | 109-1 | 1140560 | 1156886 | 1153443 | 1150296 | 0.75 | cps |
| Sodium | 23-2 | 6112900 | 6058846 | 6114096 | 6095281 | 0.52 | cps |
| Strontium | 86-1 | 7868314 | 8035980 | 7982669 | 7962321 | 1.08 | cps |
| Strontium | 88-1 | 69758394 | 69948912 | 69518261 | 69741856 | 0.31 | cps |
| Sulfur | 34-1 | 195402 | 194485 | 195183 | 195023 | 0.25 | cps |
| Terbium | 159-1 | 3771717 | 3780711 | 3837455 | 3796628 | 0.94 | cps |
| Terbium | 159-2 | 2603525 | 2506586 | 2550442 | 2553518 | 1.90 | cps |
| Thallium | 203-1 | 955002 | 963432 | 960205 | 959546 | 0.44 | cps |
| Thallium | 205-1 | 2513178 | 2544725 | 2539112 | 2532338 | 0.66 | cps |
| Tin | 118-1 | 869333 | 873820 | 876373 | 873175 | 0.41 | cps |
| Titanium | 47-1 | 1249638 | 1275347 | 1275418 | 1266801 | 1.17 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S5 | Instrumnet Name : | P7 |
| Client Sample ID : | S5 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:33:04 | DataFile Name : | 008CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 3345566 | 3381236 | 3401363 | 3376055 | 0.84 | cps |
| Vanadium | 51-2 | 321035 | 319989 | 322100 | 321042 | 0.33 | cps |
| Yttrium | 89-1 | 4622106 | 4555284 | 4579541 | 4585644 | 0.74 | cps |
| Yttrium | 89-2 | 1144226 | 1133497 | 1131423 | 1136382 | 0.60 | cps |
| Zinc | 66-2 | 627117 | 623394 | 623526 | 624679 | 0.34 | cps |
| Zirconium | 90-1 | 1648648 | 1674326 | 1633468 | 1652147 | 1.25 | cps |
| Zirconium | 91-1 | 368951 | 373874 | 372561 | 371795 | 0.69 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S6 | Instrumnet Name : | P7 |
| Client Sample ID : | S6 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:36:06 | DataFile Name : | 009CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 896692 | 890288 | 882588 | 889856 | 0.79 | cps |
| Antimony | 121-1 | 2055964 | 2028479 | 2071747 | 2052063 | 1.07 | cps |
| Arsenic | 75-2 | 88005 | 86611 | 87472 | 87363 | 0.81 | cps |
| Barium | 135-1 | 2779614 | 2808560 | 2796933 | 2795036 | 0.52 | cps |
| Barium | 137-1 | 4782780 | 4872307 | 4812776 | 4822621 | 0.94 | cps |
| Beryllium | 9-1 | 378937 | 381057 | 382168 | 380720 | 0.43 | cps |
| Bismuth | 209-1 | 2305384 | 2278233 | 2342971 | 2308863 | 1.41 | cps |
| Bismuth | 209-2 | 1890860 | 1878196 | 1891547 | 1886868 | 0.40 | cps |
| Bromine | 81-1 | 6081 | 6151 | 6361 | 6198 | 2.35 | cps |
| Bromine | 81-2 | 20 | 47 | 13 | 27 | 66.16 | cps |
| Cadmium | 108-1 | 37234 | 37037 | 37208 | 37160 | 0.29 | cps |
| Cadmium | 106-1 | 54060 | 55248 | 55198 | 54835 | 1.23 | cps |
| Cadmium | 111-1 | 493445 | 494415 | 496918 | 494926 | 0.36 | cps |
| Calcium | 43-1 | 575979 | 580177 | 577430 | 577862 | 0.37 | cps |
| Calcium | 44-1 | 8314214 | 8388130 | 8444391 | 8382245 | 0.78 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 700969 | 695318 | 698002 | 698096 | 0.40 | cps |
| Cobalt | 59-2 | 1033989 | 1034116 | 1036614 | 1034907 | 0.14 | cps |
| Copper | 63-2 | 7220506 | 7250457 | 7113522 | 7194828 | 1.00 | cps |
| Dysprosium | 156-1 | 57 | 60 | 47 | 54 | 12.74 | cps |
| Dysprosium | 156-2 | 163 | 70 | 110 | 114 | 40.92 | cps |
| Erbium | 164-1 | 13 | 37 | 40 | 30 | 48.44 | cps |
| Erbium | 164-2 | 10 | 30 | 13 | 18 | 60.28 | cps |
| Gadolinium | 160-1 | 27 | 23 | 20 | 23 | 14.29 | cps |
| Gadolinium | 160-2 | 133 | 110 | 113 | 119 | 10.62 | cps |
| Holmium | 165-1 | 3779373 | 3722299 | 3752990 | 3751554 | 0.76 | cps |
| Holmium | 165-2 | 2683899 | 2622402 | 2657213 | 2654504 | 1.16 | cps |
| Indium | 115-1 | 2725305 | 2707481 | 2681678 | 2704821 | 0.81 | cps |
| Indium | 115-2 | 865799 | 869799 | 866229 | 867276 | 0.25 | cps |
| Iron | 56-2 | 30994814 | 30823103 | 31066452 | 30961456 | 0.40 | cps |
| Iron | 57-2 | 810979 | 801995 | 801864 | 804946 | 0.65 | cps |
| Iron | 54-2 | 1729532 | 1693104 | 1717757 | 1713464 | 1.08 | cps |
| Krypton | 83-1 | 67 | 80 | 57 | 68 | 17.27 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S6 | Instrumnet Name : | P7 |
| Client Sample ID : | S6 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:36:06 | DataFile Name : | 009CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 8493342 | 8675118 | 8621872 | 8596777 | 1.09 | cps |
| Lead | 207-1 | 7537378 | 7525940 | 7525772 | 7529697 | 0.09 | cps |
| Lead | 208-1 | 34057467 | 34242782 | 34373484 | 34224578 | 0.46 | cps |
| Lithium | 6-1 | 728807 | 712029 | 721770 | 720869 | 1.17 | cps |
| Magnesium | 24-2 | 7062038 | 6944296 | 6921042 | 6975792 | 1.08 | cps |
| Manganese | 55-2 | 5322463 | 5384742 | 5374373 | 5360526 | 0.62 | cps |
| Molybdenum | 94-1 | 7117900 | 7216759 | 7192974 | 7175878 | 0.72 | cps |
| Molybdenum | 95-1 | 10581875 | 10461573 | 10551111 | 10531520 | 0.59 | cps |
| Molybdenum | 96-1 | 11432320 | 11626999 | 11512362 | 11523894 | 0.85 | cps |
| Molybdenum | 97-1 | 6516122 | 6637702 | 6600808 | 6584877 | 0.95 | cps |
| Molybdenum | 98-1 | 16843995 | 17172675 | 17250671 | 17089114 | 1.26 | cps |
| Neodymium | 150-1 | 190 | 210 | 197 | 199 | 5.12 | cps |
| Neodymium | 150-2 | 30 | 43 | 37 | 37 | 18.18 | cps |
| Nickel | 60-2 | 254589 | 256404 | 255707 | 255567 | 0.36 | cps |
| Phosphorus | 31-2 | 42185 | 42061 | 42723 | 42323 | 0.83 | cps |
| Potassium | 39-2 | 4287551 | 4287038 | 4264661 | 4279750 | 0.31 | cps |
| Rhodium | 103-1 | 2359785 | 2376646 | 2344854 | 2360428 | 0.67 | cps |
| Rhodium | 103-2 | 1328387 | 1336397 | 1339899 | 1334894 | 0.44 | cps |
| Scandium | 45-1 | 1413969 | 1408663 | 1413231 | 1411955 | 0.20 | cps |
| Scandium | 45-2 | 126045 | 126220 | 126865 | 126377 | 0.34 | cps |
| Selenium | 82-1 | 28451 | 27949 | 28022 | 28140 | 0.96 | cps |
| Selenium | 77-2 | 2600 | 2664 | 2567 | 2610 | 1.88 | cps |
| Selenium | 78-2 | 8673 | 9173 | 9123 | 8989 | 3.07 | cps |
| Silicon | 28-1 | 1134740 | 1148372 | 1148351 | 1143821 | 0.69 | cps |
| Silver | 107-1 | 2412569 | 2405310 | 2394213 | 2404031 | 0.38 | cps |
| Silver | 109-1 | 2278308 | 2314451 | 2273512 | 2288757 | 0.98 | cps |
| Sodium | 23-2 | 11963602 | 12029853 | 11787888 | 11927114 | 1.05 | cps |
| Strontium | 86-1 | 15600045 | 15600531 | 15840179 | 15680252 | 0.88 | cps |
| Strontium | 88-1 | 137180805 | 137268125 | 138503161 | 137650697 | 0.54 | cps |
| Sulfur | 34-1 | 261637 | 260901 | 260779 | 261105 | 0.18 | cps |
| Terbium | 159-1 | 3853059 | 3845004 | 3870503 | 3856189 | 0.34 | cps |
| Terbium | 159-2 | 2558460 | 2528661 | 2559837 | 2548986 | 0.69 | cps |
| Thallium | 203-1 | 2128417 | 2134035 | 2159064 | 2140505 | 0.76 | cps |
| Thallium | 205-1 | 5055436 | 5119872 | 5123916 | 5099741 | 0.75 | cps |
| Tin | 118-1 | 1802285 | 1772894 | 1787983 | 1787721 | 0.82 | cps |
| Titanium | 47-1 | 2458360 | 2424513 | 2434346 | 2439073 | 0.71 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S6 | Instrumnet Name : | P7 |
| Client Sample ID : | S6 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:36:06 | DataFile Name : | 009CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 6642263 | 6907187 | 6974559 | 6841336 | 2.57 | cps |
| Vanadium | 51-2 | 638956 | 630511 | 629508 | 632992 | 0.82 | cps |
| Yttrium | 89-1 | 4547378 | 4484843 | 4607385 | 4546535 | 1.35 | cps |
| Yttrium | 89-2 | 1136116 | 1146312 | 1144260 | 1142229 | 0.47 | cps |
| Zinc | 66-2 | 1212630 | 1210839 | 1214242 | 1212571 | 0.14 | cps |
| Zirconium | 90-1 | 3253043 | 3255197 | 3298412 | 3268884 | 0.78 | cps |
| Zirconium | 91-1 | 729613 | 739563 | 737842 | 735673 | 0.72 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S7 | Instrumnet Name : | P7 |
| Client Sample ID : | S7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:41:54 | DataFile Name : | 011CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1762891 | 1764159 | 1797236 | 1774762 | 1.10 | cps |
| Antimony | 121-1 | 4159095 | 4187330 | 4193961 | 4180129 | 0.44 | cps |
| Arsenic | 75-2 | 175743 | 175211 | 177945 | 176300 | 0.82 | cps |
| Barium | 135-1 | 5727964 | 5682491 | 5742667 | 5717707 | 0.55 | cps |
| Barium | 137-1 | 9841640 | 9902498 | 9906478 | 9883538 | 0.37 | cps |
| Beryllium | 9-1 | 748906 | 753276 | 758072 | 753418 | 0.61 | cps |
| Bismuth | 209-1 | 2376732 | 2416424 | 2362830 | 2385329 | 1.17 | cps |
| Bismuth | 209-2 | 1915011 | 1623963 | 1746604 | 1761860 | 8.29 | cps |
| Bromine | 81-1 | 6031 | 6001 | 5998 | 6010 | 0.31 | cps |
| Bromine | 81-2 | 67 | 27 | 37 | 43 | 48.03 | cps |
| Cadmium | 108-1 | 74946 | 74155 | 73840 | 74313 | 0.77 | cps |
| Cadmium | 106-1 | 107427 | 108669 | 107615 | 107904 | 0.62 | cps |
| Cadmium | 111-1 | 982514 | 992546 | 989035 | 988032 | 0.52 | cps |
| Calcium | 43-1 | 1168181 | 1177714 | 1176823 | 1174239 | 0.45 | cps |
| Calcium | 44-1 | 17065426 | 16799954 | 16877733 | 16914371 | 0.81 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1382713 | 1387065 | 1365727 | 1378502 | 0.82 | cps |
| Cobalt | 59-2 | 2048935 | 2098584 | 2068091 | 2071870 | 1.21 | cps |
| Copper | 63-2 | 14308519 | 14314635 | 14521301 | 14381485 | 0.84 | cps |
| Dysprosium | 156-1 | 100 | 120 | 100 | 107 | 10.83 | cps |
| Dysprosium | 156-2 | 277 | 197 | 267 | 247 | 17.67 | cps |
| Erbium | 164-1 | 73 | 70 | 47 | 63 | 22.94 | cps |
| Erbium | 164-2 | 30 | 30 | 30 | 30 | 0.00 | cps |
| Gadolinium | 160-1 | 40 | 50 | 47 | 46 | 11.18 | cps |
| Gadolinium | 160-2 | 187 | 130 | 173 | 163 | 18.14 | cps |
| Holmium | 165-1 | 3936300 | 3967601 | 3910717 | 3938206 | 0.72 | cps |
| Holmium | 165-2 | 2737904 | 2307874 | 2484500 | 2510093 | 8.61 | cps |
| Indium | 115-1 | 2705013 | 2735085 | 2720756 | 2720285 | 0.55 | cps |
| Indium | 115-2 | 874207 | 746357 | 810073 | 810212 | 7.89 | cps |
| Iron | 56-2 | 62847297 | 63476442 | 62663849 | 62995863 | 0.68 | cps |
| Iron | 57-2 | 1551326 | 1557781 | 1542293 | 1550467 | 0.50 | cps |
| Iron | 54-2 | 3453245 | 3483321 | 3494791 | 3477119 | 0.62 | cps |
| Krypton | 83-1 | 83 | 80 | 60 | 74 | 16.95 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S7 | Instrumnet Name : | P7 |
| Client Sample ID : | S7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:41:54 | DataFile Name : | 011CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 17485471 | 17621626 | 17767807 | 17624968 | 0.80 | cps |
| Lead | 207-1 | 15268056 | 15441669 | 15343634 | 15351120 | 0.57 | cps |
| Lead | 208-1 | 69523894 | 70655475 | 69902877 | 70027415 | 0.82 | cps |
| Lithium | 6-1 | 741151 | 743254 | 737004 | 740470 | 0.43 | cps |
| Magnesium | 24-2 | 14209428 | 14450715 | 14320976 | 14327040 | 0.84 | cps |
| Manganese | 55-2 | 10723348 | 10869853 | 11007026 | 10866742 | 1.31 | cps |
| Molybdenum | 94-1 | 14624688 | 14677104 | 14672729 | 14658174 | 0.20 | cps |
| Molybdenum | 95-1 | 21442938 | 21480521 | 21408995 | 21444151 | 0.17 | cps |
| Molybdenum | 96-1 | 23217269 | 23516820 | 23584093 | 23439394 | 0.83 | cps |
| Molybdenum | 97-1 | 13251360 | 13370200 | 13580963 | 13400841 | 1.25 | cps |
| Molybdenum | 98-1 | 34673026 | 35006374 | 34709908 | 34796436 | 0.53 | cps |
| Neodymium | 150-1 | 463 | 380 | 443 | 429 | 10.14 | cps |
| Neodymium | 150-2 | 97 | 90 | 77 | 88 | 11.60 | cps |
| Nickel | 60-2 | 508717 | 508086 | 510008 | 508937 | 0.19 | cps |
| Phosphorus | 31-2 | 85651 | 85423 | 86553 | 85876 | 0.70 | cps |
| Potassium | 39-2 | 8602664 | 8705416 | 8712179 | 8673420 | 0.71 | cps |
| Rhodium | 103-1 | 2378874 | 2400489 | 2365487 | 2381617 | 0.74 | cps |
| Rhodium | 103-2 | 1361493 | 1163211 | 1263696 | 1262800 | 7.85 | cps |
| Scandium | 45-1 | 1441697 | 1475624 | 1410256 | 1442525 | 2.27 | cps |
| Scandium | 45-2 | 131245 | 115260 | 120564 | 122356 | 6.65 | cps |
| Selenium | 82-1 | 55477 | 55455 | 55811 | 55581 | 0.36 | cps |
| Selenium | 77-2 | 5561 | 5194 | 5004 | 5253 | 5.39 | cps |
| Selenium | 78-2 | 17177 | 17681 | 17807 | 17555 | 1.90 | cps |
| Silicon | 28-1 | 2076272 | 2055354 | 2054701 | 2062109 | 0.60 | cps |
| Silver | 107-1 | 4747533 | 4770619 | 4817990 | 4778714 | 0.75 | cps |
| Silver | 109-1 | 4508011 | 4507697 | 4599875 | 4538528 | 1.17 | cps |
| Sodium | 23-2 | 24255604 | 24358876 | 24340902 | 24318461 | 0.23 | cps |
| Strontium | 86-1 | 31875636 | 32096529 | 32046390 | 32006185 | 0.36 | cps |
| Strontium | 88-1 | 277778143 | 280116369 | 280233062 | 279375858 | 0.50 | cps |
| Sulfur | 34-1 | 408534 | 405210 | 404134 | 405959 | 0.57 | cps |
| Terbium | 159-1 | 4019442 | 3989962 | 3980292 | 3996565 | 0.51 | cps |
| Terbium | 159-2 | 2634244 | 2252639 | 2466494 | 2451126 | 7.80 | cps |
| Thallium | 203-1 | 4414413 | 4331684 | 4423430 | 4389842 | 1.15 | cps |
| Thallium | 205-1 | 10398499 | 10343199 | 10510608 | 10417436 | 0.82 | cps |
| Tin | 118-1 | 3579005 | 3603777 | 3643278 | 3608687 | 0.90 | cps |
| Titanium | 47-1 | 4950242 | 4964042 | 4933949 | 4949411 | 0.30 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S7 | Instrumnet Name : | P7 |
| Client Sample ID : | S7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:41:54 | DataFile Name : | 011CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 14061719 | 14140213 | 14047060 | 14082997 | 0.36 | cps |
| Vanadium | 51-2 | 1292375 | 1304178 | 1299853 | 1298802 | 0.46 | cps |
| Yttrium | 89-1 | 4757820 | 4751837 | 4679098 | 4729585 | 0.93 | cps |
| Yttrium | 89-2 | 1179435 | 1008844 | 1101250 | 1096510 | 7.79 | cps |
| Zinc | 66-2 | 2406719 | 2410263 | 2428551 | 2415178 | 0.49 | cps |
| Zirconium | 90-1 | 6592260 | 6671217 | 6615257 | 6626245 | 0.61 | cps |
| Zirconium | 91-1 | 1462716 | 1462213 | 1483697 | 1469542 | 0.83 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S8 | Instrumnet Name : | P7 |
| Client Sample ID : | S8 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:44:46 | DataFile Name : | 012CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 8807305 | 8815639 | 8732529 | 8785158 | 0.52 | cps |
| Antimony | 121-1 | 3037 | 3374 | 3007 | 3139 | 6.49 | cps |
| Arsenic | 75-2 | 130 | 87 | 87 | 101 | 24.74 | cps |
| Barium | 135-1 | 2110 | 2474 | 2084 | 2223 | 9.81 | cps |
| Barium | 137-1 | 3567 | 4084 | 3514 | 3722 | 8.47 | cps |
| Beryllium | 9-1 | 507 | 433 | 457 | 466 | 8.05 | cps |
| Bismuth | 209-1 | 2068789 | 2070272 | 2074886 | 2071316 | 0.15 | cps |
| Bismuth | 209-2 | 1504699 | 1495788 | 1493963 | 1498150 | 0.38 | cps |
| Bromine | 81-1 | 6461 | 6271 | 6338 | 6357 | 1.52 | cps |
| Bromine | 81-2 | 33 | 27 | 43 | 34 | 24.35 | cps |
| Cadmium | 108-1 | 50 | 70 | 43 | 54 | 25.49 | cps |
| Cadmium | 106-1 | 1420 | 1593 | 1440 | 1485 | 6.39 | cps |
| Cadmium | 111-1 | 1136 | 1376 | 1164 | 1226 | 10.73 | cps |
| Calcium | 43-1 | 4959408 | 5057449 | 4977279 | 4998045 | 1.04 | cps |
| Calcium | 44-1 | 79093797 | 80179165 | 79617269 | 79630077 | 0.68 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 4434 | 4708 | 4421 | 4521 | 3.58 | cps |
| Cobalt | 59-2 | 5411 | 5374 | 5324 | 5370 | 0.81 | cps |
| Copper | 63-2 | 3340 | 3404 | 3180 | 3308 | 3.48 | cps |
| Dysprosium | 156-1 | 170 | 187 | 163 | 173 | 6.93 | cps |
| Dysprosium | 156-2 | 133 | 133 | 123 | 130 | 4.45 | cps |
| Erbium | 164-1 | 173 | 113 | 187 | 158 | 24.76 | cps |
| Erbium | 164-2 | 170 | 137 | 140 | 149 | 12.33 | cps |
| Gadolinium | 160-1 | 143 | 150 | 130 | 141 | 7.22 | cps |
| Gadolinium | 160-2 | 163 | 213 | 210 | 196 | 14.29 | cps |
| Holmium | 165-1 | 3669437 | 3676795 | 3635009 | 3660414 | 0.61 | cps |
| Holmium | 165-2 | 2528621 | 2533911 | 2544091 | 2535541 | 0.31 | cps |
| Indium | 115-1 | 2658910 | 2625665 | 2617207 | 2633927 | 0.84 | cps |
| Indium | 115-2 | 835078 | 836112 | 832982 | 834724 | 0.19 | cps |
| Iron | 56-2 | 296471356 | 296398822 | 291439989 | 294770056 | 0.98 | cps |
| Iron | 57-2 | 7264708 | 7234899 | 7243809 | 7247805 | 0.21 | cps |
| Iron | 54-2 | 15981271 | 16073431 | 16033391 | 16029365 | 0.29 | cps |
| Krypton | 83-1 | 83 | 83 | 77 | 81 | 4.74 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S8 | Instrumnet Name : | P7 |
| Client Sample ID : | S8 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:44:46 | DataFile Name : | 012CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 3410 | 3377 | 2747 | 3178 | 11.76 | cps |
| Lead | 207-1 | 2887 | 2940 | 2654 | 2827 | 5.39 | cps |
| Lead | 208-1 | 13309 | 13013 | 11419 | 12580 | 8.08 | cps |
| Lithium | 6-1 | 715984 | 726661 | 733380 | 725342 | 1.21 | cps |
| Magnesium | 24-2 | 74704657 | 74422006 | 74509681 | 74545448 | 0.19 | cps |
| Manganese | 55-2 | 5788 | 5785 | 5831 | 5801 | 0.45 | cps |
| Molybdenum | 94-1 | 3931 | 3737 | 3374 | 3681 | 7.68 | cps |
| Molybdenum | 95-1 | 3977 | 4135 | 3650 | 3921 | 6.30 | cps |
| Molybdenum | 96-1 | 7352 | 9218 | 6952 | 7840 | 15.43 | cps |
| Molybdenum | 97-1 | 2380 | 5589 | 2087 | 3352 | 57.96 | cps |
| Molybdenum | 98-1 | 5808 | 14705 | 5304 | 8606 | 61.45 | cps |
| Neodymium | 150-1 | 80 | 97 | 67 | 81 | 18.53 | cps |
| Neodymium | 150-2 | 53 | 37 | 47 | 46 | 18.41 | cps |
| Nickel | 60-2 | 1940 | 2020 | 1807 | 1922 | 5.61 | cps |
| Phosphorus | 31-2 | 133 | 167 | 127 | 142 | 15.07 | cps |
| Potassium | 39-2 | 42277371 | 41960583 | 42855379 | 42364444 | 1.07 | cps |
| Rhodium | 103-1 | 2151896 | 2210954 | 2167607 | 2176819 | 1.41 | cps |
| Rhodium | 103-2 | 1202678 | 1205261 | 1197436 | 1201792 | 0.33 | cps |
| Scandium | 45-1 | 1416739 | 1424120 | 1424600 | 1421820 | 0.31 | cps |
| Scandium | 45-2 | 125907 | 129192 | 127860 | 127653 | 1.29 | cps |
| Selenium | 82-1 | 150 | 178 | 221 | 183 | 19.48 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 87 | 73 | 110 | 90 | 20.62 | cps |
| Silicon | 28-1 | 201630 | 196819 | 195773 | 198074 | 1.58 | cps |
| Silver | 107-1 | 763 | 1989 | 470 | 1074 | 75.01 | cps |
| Silver | 109-1 | 557 | 1264 | 493 | 771 | 55.46 | cps |
| Sodium | 23-2 | 118858248 | 117910082 | 118329725 | 118366018 | 0.40 | cps |
| Strontium | 86-1 | 5318 | 5038 | 4627 | 4994 | 6.95 | cps |
| Strontium | 88-1 | 47262 | 43003 | 41649 | 43971 | 6.66 | cps |
| Sulfur | 34-1 | 106370 | 112396 | 110573 | 109780 | 2.82 | cps |
| Terbium | 159-1 | 3759324 | 3810379 | 3769351 | 3779685 | 0.72 | cps |
| Terbium | 159-2 | 2436691 | 2530238 | 2483277 | 2483402 | 1.88 | cps |
| Thallium | 203-1 | 513 | 480 | 400 | 464 | 12.54 | cps |
| Thallium | 205-1 | 1327 | 1190 | 913 | 1143 | 18.42 | cps |
| Tin | 118-1 | 1866 | 2216 | 2075 | 2052 | 8.56 | cps |
| Titanium | 47-1 | 647 | 650 | 630 | 642 | 1.67 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | S8 | Instrumnet Name : | P7 |
| Client Sample ID : | S8 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 16:44:46 | DataFile Name : | 012CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 790 | 830 | 563 | 728 | 19.76 | cps |
| Vanadium | 51-2 | 410 | 350 | 367 | 376 | 8.25 | cps |
| Yttrium | 89-1 | 4491364 | 4477279 | 4469780 | 4479474 | 0.24 | cps |
| Yttrium | 89-2 | 1110672 | 1118529 | 1115918 | 1115040 | 0.36 | cps |
| Zinc | 66-2 | 857 | 920 | 937 | 904 | 4.67 | cps |
| Zirconium | 90-1 | 4151 | 4234 | 3791 | 4058 | 5.81 | cps |
| Zirconium | 91-1 | 847 | 1020 | 890 | 919 | 9.82 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | ICV01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 17:03:58 | DataFile Name : | 013ICV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 46353 | 46781 | 46607 | 46580 | 0.46 | cps |
| Antimony | 121-1 | 828554 | 828963 | 831134 | 829550 | 0.17 | cps |
| Arsenic | 75-2 | 37554 | 36411 | 37050 | 37005 | 1.55 | cps |
| Barium | 135-1 | 109318 | 109017 | 109735 | 109357 | 0.33 | cps |
| Barium | 137-1 | 189130 | 189553 | 190379 | 189687 | 0.34 | cps |
| Beryllium | 9-1 | 81978 | 82403 | 82196 | 82192 | 0.26 | cps |
| Bismuth | 209-1 | 2474130 | 2459643 | 2434545 | 2456106 | 0.82 | cps |
| Bismuth | 209-2 | 1998339 | 1947509 | 1759090 | 1901646 | 6.63 | cps |
| Bromine | 81-1 | 6428 | 6375 | 6572 | 6458 | 1.58 | cps |
| Bromine | 81-2 | 50 | 23 | 53 | 42 | 38.95 | cps |
| Cadmium | 108-1 | 12115 | 11955 | 12102 | 12057 | 0.74 | cps |
| Cadmium | 106-1 | 19500 | 19453 | 19977 | 19643 | 1.48 | cps |
| Cadmium | 111-1 | 109233 | 110937 | 111094 | 110422 | 0.93 | cps |
| Calcium | 43-1 | 24259 | 23992 | 24847 | 24366 | 1.79 | cps |
| Calcium | 44-1 | 376235 | 379195 | 379587 | 378339 | 0.48 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 152778 | 151014 | 153388 | 152393 | 0.81 | cps |
| Cobalt | 59-2 | 228355 | 225011 | 226129 | 226498 | 0.75 | cps |
| Copper | 63-2 | 150245 | 149972 | 150003 | 150074 | 0.10 | cps |
| Dysprosium | 156-1 | 20 | 13 | 13 | 16 | 24.76 | cps |
| Dysprosium | 156-2 | 27 | 3 | 7 | 12 | 103.26 | cps |
| Erbium | 164-1 | 17 | 13 | 13 | 14 | 13.35 | cps |
| Erbium | 164-2 | 13 | 10 | 10 | 11 | 17.30 | cps |
| Gadolinium | 160-1 | 10 | 7 | 13 | 10 | 33.30 | cps |
| Gadolinium | 160-2 | 90 | 107 | 103 | 100 | 8.82 | cps |
| Holmium | 165-1 | 3912738 | 3847390 | 3918533 | 3892887 | 1.01 | cps |
| Holmium | 165-2 | 2682545 | 2676617 | 2409358 | 2589507 | 6.03 | cps |
| Indium | 115-1 | 2953595 | 2911351 | 2884917 | 2916621 | 1.19 | cps |
| Indium | 115-2 | 927849 | 917492 | 837896 | 894412 | 5.50 | cps |
| Iron | 56-2 | 2657213 | 2614033 | 2574609 | 2615285 | 1.58 | cps |
| Iron | 57-2 | 66965 | 64537 | 65847 | 65783 | 1.85 | cps |
| Iron | 54-2 | 156075 | 155025 | 156652 | 155917 | 0.53 | cps |
| Krypton | 83-1 | 67 | 43 | 57 | 56 | 21.08 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | ICV01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 17:03:58 | DataFile Name : | 013ICV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 696298 | 700261 | 703144 | 699901 | 0.49 | cps |
| Lead | 207-1 | 575481 | 581501 | 588154 | 581712 | 1.09 | cps |
| Lead | 208-1 | 2695789 | 2722466 | 2745788 | 2721347 | 0.92 | cps |
| Lithium | 6-1 | 788569 | 785932 | 792047 | 788849 | 0.39 | cps |
| Magnesium | 24-2 | 188685 | 188385 | 188317 | 188462 | 0.10 | cps |
| Manganese | 55-2 | 117984 | 117306 | 117897 | 117729 | 0.31 | cps |
| Molybdenum | 94-1 | 6981268 | 7108024 | 6910863 | 7000052 | 1.43 | cps |
| Molybdenum | 95-1 | 10036777 | 10043628 | 10069590 | 10049998 | 0.17 | cps |
| Molybdenum | 96-1 | 11075950 | 10935266 | 11001866 | 11004361 | 0.64 | cps |
| Molybdenum | 97-1 | 6340530 | 6234508 | 6322723 | 6299254 | 0.90 | cps |
| Molybdenum | 98-1 | 16242593 | 16433721 | 16116084 | 16264133 | 0.98 | cps |
| Neodymium | 150-1 | 10 | 13 | 10 | 11 | 17.30 | cps |
| Neodymium | 150-2 | 3 | 0 | 7 | 3 | 100.05 | cps |
| Nickel | 60-2 | 57446 | 56285 | 56914 | 56882 | 1.02 | cps |
| Phosphorus | 31-2 | 173 | 147 | 120 | 147 | 18.18 | cps |
| Potassium | 39-2 | 408868 | 405097 | 411249 | 408405 | 0.76 | cps |
| Rhodium | 103-1 | 2629399 | 2597642 | 2598502 | 2608515 | 0.69 | cps |
| Rhodium | 103-2 | 1462412 | 1439586 | 1318998 | 1406999 | 5.48 | cps |
| Scandium | 45-1 | 1552879 | 1549318 | 1536877 | 1546358 | 0.54 | cps |
| Scandium | 45-2 | 138035 | 133273 | 124447 | 131918 | 5.23 | cps |
| Selenium | 82-1 | 12015 | 12037 | 12103 | 12051 | 0.38 | cps |
| Selenium | 77-2 | 1120 | 1217 | 1067 | 1135 | 6.70 | cps |
| Selenium | 78-2 | 3904 | 3897 | 3934 | 3912 | 0.50 | cps |
| Silicon | 28-1 | 1273885 | 1281462 | 1282350 | 1279232 | 0.36 | cps |
| Silver | 107-1 | 246236 | 246909 | 247411 | 246852 | 0.24 | cps |
| Silver | 109-1 | 230803 | 233542 | 231584 | 231976 | 0.61 | cps |
| Sodium | 23-2 | 532500 | 526383 | 528467 | 529117 | 0.59 | cps |
| Strontium | 86-1 | 666495 | 668898 | 667847 | 667747 | 0.18 | cps |
| Strontium | 88-1 | 5864154 | 5934961 | 5909849 | 5902988 | 0.61 | cps |
| Sulfur | 34-1 | 116080 | 116678 | 114024 | 115594 | 1.20 | cps |
| Terbium | 159-1 | 3968162 | 4008138 | 3967261 | 3981187 | 0.59 | cps |
| Terbium | 159-2 | 2687759 | 2642281 | 2391570 | 2573870 | 6.20 | cps |
| Thallium | 203-1 | 847446 | 851547 | 863195 | 854063 | 0.96 | cps |
| Thallium | 205-1 | 2262471 | 2311910 | 2248520 | 2274300 | 1.46 | cps |
| Tin | 118-1 | 1997029 | 1991160 | 1978417 | 1988869 | 0.48 | cps |
| Titanium | 47-1 | 2385990 | 2411875 | 2390694 | 2396187 | 0.58 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | ICV01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 17:03:58 | DataFile Name : | 013ICV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 7376754 | 7398999 | 7431688 | 7402480 | 0.37 | cps |
| Vanadium | 51-2 | 132196 | 133975 | 131503 | 132558 | 0.96 | cps |
| Yttrium | 89-1 | 4931127 | 4889736 | 4831619 | 4884161 | 1.02 | cps |
| Yttrium | 89-2 | 1219057 | 1201550 | 1092717 | 1171108 | 5.84 | cps |
| Zinc | 66-2 | 51231 | 50966 | 51830 | 51342 | 0.86 | cps |
| Zirconium | 90-1 | 3494414 | 3483775 | 3491714 | 3489968 | 0.16 | cps |
| Zirconium | 91-1 | 770102 | 781262 | 780359 | 777241 | 0.80 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | LLICV | Instrumnet Name : | P7 |
| Client Sample ID : | LLICV | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 17:09:27 | DataFile Name : | 014LLCC.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1967 | 1970 | 1833 | 1923 | 4.05 | cps |
| Antimony | 121-1 | 8903 | 8899 | 9023 | 8942 | 0.79 | cps |
| Arsenic | 75-2 | 200 | 217 | 190 | 202 | 6.66 | cps |
| Barium | 135-1 | 11218 | 10921 | 11001 | 11047 | 1.39 | cps |
| Barium | 137-1 | 19066 | 19136 | 18956 | 19053 | 0.48 | cps |
| Beryllium | 9-1 | 993 | 833 | 927 | 918 | 8.76 | cps |
| Bismuth | 209-1 | 2485149 | 2497734 | 2505473 | 2496119 | 0.41 | cps |
| Bismuth | 209-2 | 2013249 | 1966667 | 1934298 | 1971404 | 2.01 | cps |
| Bromine | 81-1 | 6802 | 6431 | 6635 | 6623 | 2.80 | cps |
| Bromine | 81-2 | 17 | 30 | 30 | 26 | 30.11 | cps |
| Cadmium | 108-1 | 80 | 70 | 60 | 70 | 14.29 | cps |
| Cadmium | 106-1 | 1373 | 1477 | 1393 | 1415 | 3.88 | cps |
| Cadmium | 111-1 | 2095 | 2095 | 2020 | 2070 | 2.09 | cps |
| Calcium | 43-1 | 5895 | 6171 | 6041 | 6036 | 2.29 | cps |
| Calcium | 44-1 | 96514 | 97665 | 97279 | 97153 | 0.60 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 3207 | 3297 | 3380 | 3295 | 2.63 | cps |
| Cobalt | 59-2 | 2407 | 2630 | 2370 | 2469 | 5.70 | cps |
| Copper | 63-2 | 3814 | 3530 | 3704 | 3683 | 3.88 | cps |
| Dysprosium | 156-1 | 10 | 20 | 10 | 13 | 43.30 | cps |
| Dysprosium | 156-2 | 7 | 3 | 7 | 6 | 34.70 | cps |
| Erbium | 164-1 | 17 | 20 | 20 | 19 | 10.18 | cps |
| Erbium | 164-2 | 7 | 7 | 17 | 10 | 57.72 | cps |
| Gadolinium | 160-1 | 10 | 10 | 7 | 9 | 21.63 | cps |
| Gadolinium | 160-2 | 120 | 120 | 103 | 114 | 8.40 | cps |
| Holmium | 165-1 | 3951722 | 3909364 | 3888604 | 3916563 | 0.82 | cps |
| Holmium | 165-2 | 2724560 | 2698882 | 2640721 | 2688055 | 1.60 | cps |
| Indium | 115-1 | 2959734 | 3028373 | 2990184 | 2992764 | 1.15 | cps |
| Indium | 115-2 | 945570 | 940168 | 940703 | 942147 | 0.32 | cps |
| Iron | 56-2 | 78285 | 77173 | 78282 | 77914 | 0.82 | cps |
| Iron | 57-2 | 2257 | 2451 | 2258 | 2322 | 4.80 | cps |
| Iron | 54-2 | 4928 | 4908 | 4898 | 4911 | 0.31 | cps |
| Krypton | 83-1 | 63 | 80 | 90 | 78 | 17.32 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | LLICV | Instrumnet Name : | P7 |
| Client Sample ID : | LLICV | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 17:09:27 | DataFile Name : | 014LLCC.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 3501 | 3454 | 3637 | 3531 | 2.70 | cps |
| Lead | 207-1 | 3344 | 3200 | 3020 | 3188 | 5.08 | cps |
| Lead | 208-1 | 14390 | 14190 | 14176 | 14252 | 0.84 | cps |
| Lithium | 6-1 | 793112 | 799165 | 793049 | 795109 | 0.44 | cps |
| Magnesium | 24-2 | 86642 | 86129 | 87084 | 86618 | 0.55 | cps |
| Manganese | 55-2 | 1337 | 1453 | 1303 | 1365 | 5.77 | cps |
| Molybdenum | 94-1 | 8599 | 8843 | 8626 | 8689 | 1.54 | cps |
| Molybdenum | 95-1 | 10154 | 10631 | 10390 | 10392 | 2.30 | cps |
| Molybdenum | 96-1 | 11678 | 12022 | 11795 | 11832 | 1.48 | cps |
| Molybdenum | 97-1 | 6588 | 6405 | 6602 | 6532 | 1.68 | cps |
| Molybdenum | 98-1 | 17260 | 16262 | 16980 | 16834 | 3.06 | cps |
| Neodymium | 150-1 | 0 | 3 | 3 | 2 | 86.60 | cps |
| Neodymium | 150-2 | 3 | 0 | 3 | 2 | 86.60 | cps |
| Nickel | 60-2 | 593 | 633 | 657 | 628 | 5.10 | cps |
| Phosphorus | 31-2 | 253 | 243 | 230 | 242 | 4.83 | cps |
| Potassium | 39-2 | 130120 | 129663 | 130823 | 130202 | 0.45 | cps |
| Rhodium | 103-1 | 2631978 | 2672981 | 2594818 | 2633259 | 1.48 | cps |
| Rhodium | 103-2 | 1477223 | 1465035 | 1460693 | 1467651 | 0.58 | cps |
| Scandium | 45-1 | 1536424 | 1552830 | 1571608 | 1553621 | 1.13 | cps |
| Scandium | 45-2 | 136465 | 137911 | 135681 | 136686 | 0.83 | cps |
| Selenium | 82-1 | 418 | 409 | 440 | 422 | 3.73 | cps |
| Selenium | 77-2 | 10 | 27 | 30 | 22 | 48.22 | cps |
| Selenium | 78-2 | 237 | 190 | 173 | 200 | 16.41 | cps |
| Silicon | 28-1 | 197323 | 199348 | 199309 | 198660 | 0.58 | cps |
| Silver | 107-1 | 5008 | 4914 | 4918 | 4946 | 1.07 | cps |
| Silver | 109-1 | 4991 | 4737 | 4727 | 4819 | 3.10 | cps |
| Sodium | 23-2 | 146772 | 144870 | 144920 | 145521 | 0.74 | cps |
| Strontium | 86-1 | 1503 | 1657 | 1570 | 1577 | 4.88 | cps |
| Strontium | 88-1 | 12295 | 12572 | 12212 | 12360 | 1.53 | cps |
| Sulfur | 34-1 | 116873 | 115875 | 117635 | 116794 | 0.76 | cps |
| Terbium | 159-1 | 4034783 | 4024343 | 4021019 | 4026715 | 0.18 | cps |
| Terbium | 159-2 | 2598624 | 2655406 | 2571642 | 2608557 | 1.64 | cps |
| Thallium | 203-1 | 3931 | 4127 | 4194 | 4084 | 3.35 | cps |
| Thallium | 205-1 | 9697 | 9704 | 9857 | 9752 | 0.93 | cps |
| Tin | 118-1 | 19222 | 18615 | 18451 | 18763 | 2.17 | cps |
| Titanium | 47-1 | 2694 | 2880 | 2604 | 2726 | 5.18 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | LLICV | Instrumnet Name : | P7 |
| Client Sample ID : | LLICV | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 17:09:27 | DataFile Name : | 014LLCC.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 12249 | 12056 | 12156 | 12153 | 0.80 | cps |
| Vanadium | 51-2 | 6985 | 6825 | 6965 | 6925 | 1.26 | cps |
| Yttrium | 89-1 | 4919161 | 4851149 | 4935218 | 4901843 | 0.91 | cps |
| Yttrium | 89-2 | 1215330 | 1203689 | 1218181 | 1212400 | 0.63 | cps |
| Zinc | 66-2 | 1500 | 1560 | 1437 | 1499 | 4.11 | cps |
| Zirconium | 90-1 | 7645 | 7739 | 7855 | 7747 | 1.36 | cps |
| Zirconium | 91-1 | 1710 | 1667 | 1823 | 1733 | 4.67 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | ICB01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 17:17:04 | DataFile Name : | 015CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 63 | 63 | 73 | 67 | 8.66 | cps |
| Antimony | 121-1 | 70 | 107 | 100 | 92 | 21.18 | cps |
| Arsenic | 75-2 | 7 | 3 | 3 | 4 | 43.40 | cps |
| Barium | 135-1 | 17 | 7 | 27 | 17 | 59.99 | cps |
| Barium | 137-1 | 30 | 30 | 20 | 27 | 21.65 | cps |
| Beryllium | 9-1 | 97 | 83 | 63 | 81 | 20.69 | cps |
| Bismuth | 209-1 | 2388961 | 2398396 | 2409495 | 2398950 | 0.43 | cps |
| Bismuth | 209-2 | 2004805 | 1961289 | 1931459 | 1965851 | 1.88 | cps |
| Bromine | 81-1 | 6698 | 6455 | 6755 | 6636 | 2.40 | cps |
| Bromine | 81-2 | 20 | 30 | 43 | 31 | 37.62 | cps |
| Cadmium | 108-1 | 7 | 3 | 3 | 4 | 43.40 | cps |
| Cadmium | 106-1 | 1283 | 1360 | 1210 | 1285 | 5.84 | cps |
| Cadmium | 111-1 | 897 | 953 | 851 | 900 | 5.66 | cps |
| Calcium | 43-1 | 197 | 140 | 107 | 148 | 30.79 | cps |
| Calcium | 44-1 | 2747 | 2677 | 2507 | 2644 | 4.67 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 203 | 170 | 180 | 184 | 9.28 | cps |
| Cobalt | 59-2 | 27 | 33 | 7 | 22 | 62.43 | cps |
| Copper | 63-2 | 727 | 597 | 723 | 682 | 10.86 | cps |
| Dysprosium | 156-1 | 20 | 7 | 10 | 12 | 56.76 | cps |
| Dysprosium | 156-2 | 13 | 3 | 0 | 6 | 124.93 | cps |
| Erbium | 164-1 | 27 | 17 | 13 | 19 | 36.75 | cps |
| Erbium | 164-2 | 13 | 27 | 7 | 16 | 65.47 | cps |
| Gadolinium | 160-1 | 13 | 3 | 7 | 8 | 65.47 | cps |
| Gadolinium | 160-2 | 137 | 93 | 107 | 112 | 19.78 | cps |
| Holmium | 165-1 | 3804212 | 3772396 | 3826306 | 3800972 | 0.71 | cps |
| Holmium | 165-2 | 2665065 | 2669678 | 2578137 | 2637627 | 1.96 | cps |
| Indium | 115-1 | 2941388 | 2924900 | 2853637 | 2906642 | 1.60 | cps |
| Indium | 115-2 | 919825 | 928288 | 921071 | 923061 | 0.49 | cps |
| Iron | 56-2 | 5204 | 4858 | 5078 | 5046 | 3.48 | cps |
| Iron | 57-2 | 473 | 486 | 523 | 494 | 5.28 | cps |
| Iron | 54-2 | 860 | 803 | 833 | 832 | 3.41 | cps |
| Krypton | 83-1 | 80 | 43 | 77 | 67 | 30.42 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | ICB01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 17:17:04 | DataFile Name : | 015CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 263 | 290 | 180 | 244 | 23.48 | cps |
| Lead | 207-1 | 280 | 190 | 233 | 234 | 19.20 | cps |
| Lead | 208-1 | 1107 | 990 | 943 | 1013 | 8.30 | cps |
| Lithium | 6-1 | 779720 | 782883 | 773026 | 778543 | 0.65 | cps |
| Magnesium | 24-2 | 1327 | 1257 | 1247 | 1277 | 3.41 | cps |
| Manganese | 55-2 | 103 | 143 | 103 | 117 | 19.80 | cps |
| Molybdenum | 94-1 | 130 | 197 | 140 | 156 | 23.11 | cps |
| Molybdenum | 95-1 | 90 | 50 | 90 | 77 | 30.12 | cps |
| Molybdenum | 96-1 | 123 | 120 | 110 | 118 | 5.89 | cps |
| Molybdenum | 97-1 | 30 | 47 | 43 | 40 | 22.05 | cps |
| Molybdenum | 98-1 | 157 | 143 | 120 | 140 | 13.26 | cps |
| Neodymium | 150-1 | 0 | 3 | 0 | 1 | 173.21 | cps |
| Neodymium | 150-2 | 3 | 0 | 0 | 1 | 173.21 | cps |
| Nickel | 60-2 | 73 | 60 | 57 | 63 | 13.92 | cps |
| Phosphorus | 31-2 | 97 | 87 | 103 | 96 | 8.78 | cps |
| Potassium | 39-2 | 33674 | 33016 | 33056 | 33249 | 1.11 | cps |
| Rhodium | 103-1 | 2619082 | 2601730 | 2560342 | 2593718 | 1.16 | cps |
| Rhodium | 103-2 | 1452690 | 1450673 | 1424200 | 1442521 | 1.10 | cps |
| Scandium | 45-1 | 1521208 | 1505391 | 1513622 | 1513407 | 0.52 | cps |
| Scandium | 45-2 | 134029 | 135375 | 131108 | 133504 | 1.63 | cps |
| Selenium | 82-1 | 87 | 151 | 88 | 108 | 33.82 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 117 | 100 | 133 | 117 | 14.29 | cps |
| Silicon | 28-1 | 184368 | 184152 | 184459 | 184326 | 0.09 | cps |
| Silver | 107-1 | 90 | 50 | 70 | 70 | 28.57 | cps |
| Silver | 109-1 | 47 | 43 | 50 | 47 | 7.15 | cps |
| Sodium | 23-2 | 8649 | 8699 | 8763 | 8704 | 0.65 | cps |
| Strontium | 86-1 | 177 | 180 | 143 | 167 | 12.16 | cps |
| Strontium | 88-1 | 197 | 187 | 227 | 203 | 10.24 | cps |
| Sulfur | 34-1 | 121835 | 121992 | 122379 | 122068 | 0.23 | cps |
| Terbium | 159-1 | 3873883 | 3898030 | 3895495 | 3889136 | 0.34 | cps |
| Terbium | 159-2 | 2626982 | 2570252 | 2492252 | 2563162 | 2.64 | cps |
| Thallium | 203-1 | 113 | 53 | 73 | 80 | 38.19 | cps |
| Thallium | 205-1 | 230 | 207 | 170 | 202 | 14.96 | cps |
| Tin | 118-1 | 893 | 843 | 853 | 863 | 3.06 | cps |
| Titanium | 47-1 | 50 | 33 | 50 | 44 | 21.66 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | ICB01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 17:17:04 | DataFile Name : | 015CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 7 | 23 | 10 | 13 | 66.12 | cps |
| Vanadium | 51-2 | 0 | 7 | 7 | 4 | 86.60 | cps |
| Yttrium | 89-1 | 4770503 | 4816149 | 4725216 | 4770623 | 0.95 | cps |
| Yttrium | 89-2 | 1185793 | 1194740 | 1193022 | 1191185 | 0.40 | cps |
| Zinc | 66-2 | 103 | 123 | 93 | 107 | 14.32 | cps |
| Zirconium | 90-1 | 283 | 343 | 317 | 314 | 9.56 | cps |
| Zirconium | 91-1 | 57 | 57 | 50 | 54 | 7.07 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | ICSA01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSA01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 17:20:27 | DataFile Name : | 016ICSA.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 8180782 | 8104399 | 8002195 | 8095792 | 1.11 | cps |
| Antimony | 121-1 | 4657 | 4654 | 4744 | 4685 | 1.09 | cps |
| Arsenic | 75-2 | 90 | 63 | 87 | 80 | 18.17 | cps |
| Barium | 135-1 | 1493 | 1557 | 1663 | 1571 | 5.47 | cps |
| Barium | 137-1 | 2674 | 2634 | 2664 | 2657 | 0.78 | cps |
| Beryllium | 9-1 | 273 | 253 | 320 | 282 | 12.12 | cps |
| Bismuth | 209-1 | 2298370 | 2299212 | 2323834 | 2307139 | 0.63 | cps |
| Bismuth | 209-2 | 1846687 | 1870210 | 1896126 | 1871008 | 1.32 | cps |
| Bromine | 81-1 | 6368 | 6555 | 6558 | 6494 | 1.68 | cps |
| Bromine | 81-2 | 97 | 113 | 97 | 102 | 9.41 | cps |
| Cadmium | 108-1 | 640 | 693 | 617 | 650 | 6.05 | cps |
| Cadmium | 106-1 | 1393 | 1250 | 1167 | 1270 | 9.03 | cps |
| Cadmium | 111-1 | 1317 | 1136 | 1165 | 1206 | 8.07 | cps |
| Calcium | 43-1 | 1061364 | 1058124 | 1058885 | 1059457 | 0.16 | cps |
| Calcium | 44-1 | 15906372 | 15966077 | 15939818 | 15937423 | 0.19 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 28236 | 28113 | 28504 | 28284 | 0.71 | cps |
| Cobalt | 59-2 | 2524 | 2590 | 2654 | 2589 | 2.51 | cps |
| Copper | 63-2 | 11444 | 11571 | 11795 | 11603 | 1.53 | cps |
| Dysprosium | 156-1 | 60 | 10 | 7 | 26 | 116.90 | cps |
| Dysprosium | 156-2 | 20 | 3 | 33 | 19 | 79.59 | cps |
| Erbium | 164-1 | 23 | 50 | 17 | 30 | 58.79 | cps |
| Erbium | 164-2 | 13 | 30 | 23 | 22 | 37.76 | cps |
| Gadolinium | 160-1 | 20 | 43 | 7 | 23 | 79.53 | cps |
| Gadolinium | 160-2 | 120 | 120 | 130 | 123 | 4.68 | cps |
| Holmium | 165-1 | 3904407 | 3830843 | 3895943 | 3877065 | 1.04 | cps |
| Holmium | 165-2 | 2674119 | 2706183 | 2724446 | 2701583 | 0.94 | cps |
| Indium | 115-1 | 2808294 | 2795345 | 2751094 | 2784911 | 1.08 | cps |
| Indium | 115-2 | 881315 | 890774 | 892634 | 888241 | 0.68 | cps |
| Iron | 56-2 | 124185185 | 123053218 | 122841098 | 123359834 | 0.59 | cps |
| Iron | 57-2 | 3070488 | 3060229 | 3044710 | 3058476 | 0.42 | cps |
| Iron | 54-2 | 6791737 | 6662822 | 6690023 | 6714861 | 1.01 | cps |
| Krypton | 83-1 | 67 | 57 | 77 | 67 | 15.00 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | ICSA01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSA01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 17:20:27 | DataFile Name : | 016ICSA.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 14698 | 15242 | 14685 | 14875 | 2.14 | cps |
| Lead | 207-1 | 11388 | 11525 | 11688 | 11534 | 1.30 | cps |
| Lead | 208-1 | 54650 | 55674 | 55484 | 55269 | 0.99 | cps |
| Lithium | 6-1 | 746906 | 745739 | 745673 | 746106 | 0.09 | cps |
| Magnesium | 24-2 | 14176765 | 13983665 | 14015834 | 14058755 | 0.74 | cps |
| Manganese | 55-2 | 9210 | 8993 | 8569 | 8924 | 3.65 | cps |
| Molybdenum | 94-1 | 2120536 | 2131046 | 2161526 | 2137703 | 1.00 | cps |
| Molybdenum | 95-1 | 3671721 | 3716908 | 3771208 | 3719945 | 1.34 | cps |
| Molybdenum | 96-1 | 3961758 | 4008434 | 4007236 | 3992476 | 0.67 | cps |
| Molybdenum | 97-1 | 2311844 | 2360472 | 2317620 | 2329979 | 1.14 | cps |
| Molybdenum | 98-1 | 5988779 | 5980250 | 6058114 | 6009048 | 0.71 | cps |
| Neodymium | 150-1 | 10 | 20 | 20 | 17 | 34.64 | cps |
| Neodymium | 150-2 | 13 | 17 | 40 | 23 | 62.27 | cps |
| Nickel | 60-2 | 2817 | 2857 | 3037 | 2904 | 4.04 | cps |
| Phosphorus | 31-2 | 426735 | 422787 | 424032 | 424518 | 0.48 | cps |
| Potassium | 39-2 | 16857199 | 16767188 | 16654880 | 16759756 | 0.60 | cps |
| Rhodium | 103-1 | 2360610 | 2341731 | 2347170 | 2349837 | 0.41 | cps |
| Rhodium | 103-2 | 1325544 | 1341340 | 1346808 | 1337897 | 0.83 | cps |
| Scandium | 45-1 | 1468945 | 1456134 | 1406518 | 1443866 | 2.28 | cps |
| Scandium | 45-2 | 129894 | 130008 | 129511 | 129804 | 0.20 | cps |
| Selenium | 82-1 | 127 | 135 | 128 | 130 | 3.13 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 93 | 127 | 110 | 110 | 15.15 | cps |
| Silicon | 28-1 | 222699 | 224400 | 224513 | 223871 | 0.45 | cps |
| Silver | 107-1 | 337 | 403 | 470 | 403 | 16.53 | cps |
| Silver | 109-1 | 360 | 303 | 413 | 359 | 15.33 | cps |
| Sodium | 23-2 | 23761415 | 23529598 | 23587765 | 23626259 | 0.51 | cps |
| Strontium | 86-1 | 42271 | 43063 | 42936 | 42756 | 1.00 | cps |
| Strontium | 88-1 | 375985 | 379131 | 379592 | 378236 | 0.52 | cps |
| Sulfur | 34-1 | 1540224 | 1561530 | 1525990 | 1542581 | 1.16 | cps |
| Terbium | 159-1 | 3911850 | 3950193 | 3987502 | 3949848 | 0.96 | cps |
| Terbium | 159-2 | 2585574 | 2632216 | 2588109 | 2601966 | 1.01 | cps |
| Thallium | 203-1 | 727 | 693 | 667 | 696 | 4.32 | cps |
| Thallium | 205-1 | 1747 | 1743 | 1780 | 1757 | 1.15 | cps |
| Tin | 118-1 | 1415 | 1379 | 1426 | 1407 | 1.74 | cps |
| Titanium | 47-1 | 938192 | 934101 | 931634 | 934642 | 0.35 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | ICSA01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSA01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 17:20:27 | DataFile Name : | 016ICSA.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 180 | 227 | 247 | 218 | 15.71 | cps |
| Vanadium | 51-2 | 257 | 250 | 240 | 249 | 3.37 | cps |
| Yttrium | 89-1 | 4637414 | 4696997 | 4645320 | 4659910 | 0.69 | cps |
| Yttrium | 89-2 | 1164723 | 1172551 | 1176601 | 1171292 | 0.52 | cps |
| Zinc | 66-2 | 2830 | 2974 | 2887 | 2897 | 2.49 | cps |
| Zirconium | 90-1 | 553 | 533 | 483 | 523 | 6.89 | cps |
| Zirconium | 91-1 | 80 | 107 | 137 | 108 | 26.30 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSAB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 17:23:38 | DataFile Name : | 017ICSB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 8163651 | 8023603 | 8189702 | 8125652 | 1.10 | cps |
| Antimony | 121-1 | 86414 | 87397 | 85928 | 86580 | 0.86 | cps |
| Arsenic | 75-2 | 3587 | 3554 | 3537 | 3559 | 0.72 | cps |
| Barium | 135-1 | 23249 | 23486 | 23059 | 23265 | 0.92 | cps |
| Barium | 137-1 | 39491 | 40671 | 39719 | 39960 | 1.57 | cps |
| Beryllium | 9-1 | 16058 | 15791 | 15618 | 15823 | 1.40 | cps |
| Bismuth | 209-1 | 2383743 | 2399448 | 2331413 | 2371534 | 1.50 | cps |
| Bismuth | 209-2 | 1904914 | 1879331 | 1897996 | 1894080 | 0.70 | cps |
| Bromine | 81-1 | 6678 | 6438 | 7028 | 6715 | 4.42 | cps |
| Bromine | 81-2 | 183 | 127 | 143 | 151 | 19.27 | cps |
| Cadmium | 108-1 | 2230 | 2030 | 2210 | 2157 | 5.11 | cps |
| Cadmium | 106-1 | 4041 | 3901 | 3964 | 3968 | 1.77 | cps |
| Cadmium | 111-1 | 21532 | 21357 | 21665 | 21518 | 0.72 | cps |
| Calcium | 43-1 | 1075911 | 1076922 | 1084555 | 1079130 | 0.44 | cps |
| Calcium | 44-1 | 16098051 | 16189203 | 16085502 | 16124252 | 0.35 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 57265 | 56171 | 57268 | 56901 | 1.11 | cps |
| Cobalt | 59-2 | 44620 | 44422 | 43479 | 44174 | 1.38 | cps |
| Copper | 63-2 | 38760 | 38643 | 39171 | 38858 | 0.71 | cps |
| Dysprosium | 156-1 | 23 | 30 | 23 | 26 | 15.07 | cps |
| Dysprosium | 156-2 | 23 | 37 | 10 | 23 | 57.15 | cps |
| Erbium | 164-1 | 37 | 40 | 43 | 40 | 8.32 | cps |
| Erbium | 164-2 | 43 | 30 | 20 | 31 | 37.62 | cps |
| Gadolinium | 160-1 | 37 | 30 | 23 | 30 | 22.23 | cps |
| Gadolinium | 160-2 | 110 | 90 | 100 | 100 | 10.00 | cps |
| Holmium | 165-1 | 4018900 | 3935099 | 4016441 | 3990146 | 1.20 | cps |
| Holmium | 165-2 | 2684051 | 2741736 | 2725513 | 2717100 | 1.09 | cps |
| Indium | 115-1 | 2884232 | 2898717 | 2867835 | 2883595 | 0.54 | cps |
| Indium | 115-2 | 913340 | 903158 | 899543 | 905347 | 0.79 | cps |
| Iron | 56-2 | 123226355 | 125119848 | 124597818 | 124314674 | 0.79 | cps |
| Iron | 57-2 | 3065379 | 3118545 | 3031846 | 3071923 | 1.42 | cps |
| Iron | 54-2 | 6734187 | 6782503 | 6716676 | 6744455 | 0.51 | cps |
| Krypton | 83-1 | 67 | 83 | 90 | 80 | 15.02 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSAB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 17:23:38 | DataFile Name : | 017ICSB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 84017 | 84940 | 84447 | 84468 | 0.55 | cps |
| Lead | 207-1 | 70598 | 70585 | 70823 | 70669 | 0.19 | cps |
| Lead | 208-1 | 325847 | 327844 | 326332 | 326674 | 0.32 | cps |
| Lithium | 6-1 | 776300 | 772122 | 769076 | 772499 | 0.47 | cps |
| Magnesium | 24-2 | 14209350 | 13938445 | 13893863 | 14013886 | 1.22 | cps |
| Manganese | 55-2 | 31470 | 30194 | 30725 | 30796 | 2.08 | cps |
| Molybdenum | 94-1 | 2327703 | 2351554 | 2341939 | 2340399 | 0.51 | cps |
| Molybdenum | 95-1 | 3840472 | 3889068 | 3899935 | 3876492 | 0.82 | cps |
| Molybdenum | 96-1 | 4182549 | 4210745 | 4219000 | 4204098 | 0.45 | cps |
| Molybdenum | 97-1 | 2452347 | 2488469 | 2487353 | 2476057 | 0.83 | cps |
| Molybdenum | 98-1 | 6337344 | 6280105 | 6293762 | 6303737 | 0.47 | cps |
| Neodymium | 150-1 | 17 | 43 | 23 | 28 | 49.95 | cps |
| Neodymium | 150-2 | 10 | 13 | 13 | 12 | 15.73 | cps |
| Nickel | 60-2 | 13396 | 12799 | 13223 | 13139 | 2.34 | cps |
| Phosphorus | 31-2 | 430255 | 430331 | 430762 | 430449 | 0.06 | cps |
| Potassium | 39-2 | 16864758 | 16992224 | 16757403 | 16871461 | 0.70 | cps |
| Rhodium | 103-1 | 2450387 | 2475178 | 2422947 | 2449504 | 1.07 | cps |
| Rhodium | 103-2 | 1371051 | 1370624 | 1362174 | 1367949 | 0.37 | cps |
| Scandium | 45-1 | 1481188 | 1463872 | 1465663 | 1470241 | 0.65 | cps |
| Scandium | 45-2 | 131188 | 133128 | 132055 | 132124 | 0.74 | cps |
| Selenium | 82-1 | 1270 | 1281 | 1253 | 1268 | 1.10 | cps |
| Selenium | 77-2 | 137 | 113 | 113 | 121 | 11.13 | cps |
| Selenium | 78-2 | 377 | 460 | 453 | 430 | 10.77 | cps |
| Silicon | 28-1 | 331072 | 332771 | 333758 | 332534 | 0.41 | cps |
| Silver | 107-1 | 90154 | 90080 | 89738 | 89991 | 0.25 | cps |
| Silver | 109-1 | 85064 | 84498 | 85202 | 84921 | 0.44 | cps |
| Sodium | 23-2 | 24027875 | 23567718 | 24209048 | 23934880 | 1.38 | cps |
| Strontium | 86-1 | 107253 | 106468 | 107580 | 107100 | 0.53 | cps |
| Strontium | 88-1 | 941583 | 944427 | 941319 | 942443 | 0.18 | cps |
| Sulfur | 34-1 | 1561355 | 1570418 | 1571991 | 1567921 | 0.37 | cps |
| Terbium | 159-1 | 4079040 | 4001435 | 4095602 | 4058692 | 1.24 | cps |
| Terbium | 159-2 | 2684566 | 2648515 | 2647688 | 2660256 | 0.79 | cps |
| Thallium | 203-1 | 95451 | 96552 | 95421 | 95808 | 0.67 | cps |
| Thallium | 205-1 | 229392 | 230310 | 231430 | 230377 | 0.44 | cps |
| Tin | 118-1 | 181086 | 183175 | 184302 | 182854 | 0.89 | cps |
| Titanium | 47-1 | 970815 | 980187 | 979421 | 976808 | 0.53 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB01 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSAB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 17:23:38 | DataFile Name : | 017ICSB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 608208 | 620757 | 610533 | 613166 | 1.09 | cps |
| Vanadium | 51-2 | 25538 | 25335 | 25278 | 25384 | 0.54 | cps |
| Yttrium | 89-1 | 4776356 | 4833282 | 4737410 | 4782349 | 1.01 | cps |
| Yttrium | 89-2 | 1206674 | 1196761 | 1185611 | 1196349 | 0.88 | cps |
| Zinc | 66-2 | 7752 | 7602 | 7475 | 7610 | 1.82 | cps |
| Zirconium | 90-1 | 335130 | 338020 | 341177 | 338109 | 0.89 | cps |
| Zirconium | 91-1 | 75050 | 75932 | 75734 | 75572 | 0.61 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCV01 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:04:58 | DataFile Name : | 024CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 4468175 | 4391437 | 4425019 | 4428210 | 0.87 | cps |
| Antimony | 121-1 | 1988132 | 1969680 | 1991323 | 1983045 | 0.59 | cps |
| Arsenic | 75-2 | 83661 | 82377 | 83600 | 83212 | 0.87 | cps |
| Barium | 135-1 | 2753156 | 2772447 | 2696241 | 2740614 | 1.45 | cps |
| Barium | 137-1 | 4667845 | 4652884 | 4626517 | 4649082 | 0.45 | cps |
| Beryllium | 9-1 | 384691 | 390480 | 391841 | 389004 | 0.98 | cps |
| Bismuth | 209-1 | 2225213 | 2217615 | 2182849 | 2208559 | 1.02 | cps |
| Bismuth | 209-2 | 1593262 | 1608232 | 1517552 | 1573015 | 3.09 | cps |
| Bromine | 81-1 | 6318 | 6165 | 6168 | 6217 | 1.41 | cps |
| Bromine | 81-2 | 50 | 30 | 30 | 37 | 31.49 | cps |
| Cadmium | 108-1 | 34331 | 35086 | 34588 | 34668 | 1.11 | cps |
| Cadmium | 106-1 | 50548 | 51508 | 50839 | 50965 | 0.97 | cps |
| Cadmium | 111-1 | 455899 | 456710 | 459753 | 457454 | 0.44 | cps |
| Calcium | 43-1 | 2551837 | 2625037 | 2631007 | 2602627 | 1.69 | cps |
| Calcium | 44-1 | 40742266 | 41106762 | 41426524 | 41091851 | 0.83 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 687783 | 690837 | 692551 | 690390 | 0.35 | cps |
| Cobalt | 59-2 | 1091865 | 1098290 | 1100481 | 1096879 | 0.41 | cps |
| Copper | 63-2 | 7477945 | 7467194 | 7425325 | 7456821 | 0.37 | cps |
| Dysprosium | 156-1 | 157 | 140 | 117 | 138 | 14.58 | cps |
| Dysprosium | 156-2 | 123 | 160 | 170 | 151 | 16.26 | cps |
| Erbium | 164-1 | 117 | 117 | 120 | 118 | 1.63 | cps |
| Erbium | 164-2 | 67 | 60 | 63 | 63 | 5.27 | cps |
| Gadolinium | 160-1 | 77 | 100 | 97 | 91 | 13.85 | cps |
| Gadolinium | 160-2 | 197 | 187 | 147 | 177 | 14.98 | cps |
| Holmium | 165-1 | 3837306 | 3865881 | 3775789 | 3826325 | 1.20 | cps |
| Holmium | 165-2 | 2645239 | 2648251 | 2479258 | 2590916 | 3.73 | cps |
| Indium | 115-1 | 2787257 | 2719510 | 2726242 | 2744337 | 1.36 | cps |
| Indium | 115-2 | 855779 | 862531 | 821939 | 846750 | 2.57 | cps |
| Iron | 56-2 | 152338941 | 151900561 | 152284794 | 152174766 | 0.16 | cps |
| Iron | 57-2 | 3747046 | 3780960 | 3743328 | 3757111 | 0.55 | cps |
| Iron | 54-2 | 8284923 | 8146090 | 8233838 | 8221617 | 0.85 | cps |
| Krypton | 83-1 | 110 | 73 | 97 | 93 | 19.89 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCV01 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:04:58 | DataFile Name : | 024CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 8083897 | 8070194 | 8070110 | 8074733 | 0.10 | cps |
| Lead | 207-1 | 6982707 | 7141041 | 6958256 | 7027335 | 1.41 | cps |
| Lead | 208-1 | 31931359 | 32341509 | 31975068 | 32082646 | 0.70 | cps |
| Lithium | 6-1 | 780756 | 781074 | 777426 | 779752 | 0.26 | cps |
| Magnesium | 24-2 | 37006715 | 36917258 | 36782597 | 36902190 | 0.31 | cps |
| Manganese | 55-2 | 5273896 | 5258311 | 5237092 | 5256433 | 0.35 | cps |
| Molybdenum | 94-1 | 7097887 | 7102409 | 7162644 | 7120980 | 0.51 | cps |
| Molybdenum | 95-1 | 10325667 | 10404847 | 10410649 | 10380388 | 0.46 | cps |
| Molybdenum | 96-1 | 11281822 | 11515726 | 11395360 | 11397636 | 1.03 | cps |
| Molybdenum | 97-1 | 6458319 | 6539000 | 6560139 | 6519153 | 0.82 | cps |
| Molybdenum | 98-1 | 16720280 | 16729582 | 16762285 | 16737382 | 0.13 | cps |
| Neodymium | 150-1 | 253 | 303 | 237 | 264 | 13.12 | cps |
| Neodymium | 150-2 | 67 | 53 | 70 | 63 | 13.93 | cps |
| Nickel | 60-2 | 266569 | 265673 | 265188 | 265810 | 0.26 | cps |
| Phosphorus | 31-2 | 42609 | 42392 | 41793 | 42265 | 1.00 | cps |
| Potassium | 39-2 | 21223208 | 21219835 | 21374334 | 21272459 | 0.41 | cps |
| Rhodium | 103-1 | 2295219 | 2326993 | 2323765 | 2315326 | 0.76 | cps |
| Rhodium | 103-2 | 1291697 | 1286206 | 1244642 | 1274182 | 2.02 | cps |
| Scandium | 45-1 | 1507813 | 1524587 | 1480050 | 1504150 | 1.50 | cps |
| Scandium | 45-2 | 132069 | 131807 | 126126 | 130001 | 2.58 | cps |
| Selenium | 82-1 | 26546 | 26715 | 26347 | 26536 | 0.69 | cps |
| Selenium | 77-2 | 2457 | 2400 | 2384 | 2414 | 1.59 | cps |
| Selenium | 78-2 | 8382 | 8232 | 8329 | 8315 | 0.92 | cps |
| Silicon | 28-1 | 1200851 | 1229434 | 1242087 | 1224124 | 1.73 | cps |
| Silver | 107-1 | 2224715 | 2239705 | 2190128 | 2218183 | 1.15 | cps |
| Silver | 109-1 | 2107497 | 2118028 | 2114362 | 2113296 | 0.25 | cps |
| Sodium | 23-2 | 60842579 | 60171037 | 60491061 | 60501559 | 0.56 | cps |
| Strontium | 86-1 | 15461081 | 15455260 | 15708848 | 15541730 | 0.93 | cps |
| Strontium | 88-1 | 135235391 | 134143068 | 136680205 | 135352888 | 0.94 | cps |
| Sulfur | 34-1 | 261976 | 261718 | 263102 | 262265 | 0.28 | cps |
| Terbium | 159-1 | 3817364 | 3856214 | 3891552 | 3855043 | 0.96 | cps |
| Terbium | 159-2 | 2570102 | 2549917 | 2440897 | 2520305 | 2.76 | cps |
| Thallium | 203-1 | 2008222 | 1989575 | 2007697 | 2001831 | 0.53 | cps |
| Thallium | 205-1 | 4706325 | 4778704 | 4834989 | 4773339 | 1.35 | cps |
| Tin | 118-1 | 1753315 | 1734979 | 1784792 | 1757696 | 1.43 | cps |
| Titanium | 47-1 | 2461789 | 2523633 | 2485946 | 2490456 | 1.25 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCV01 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:04:58 | DataFile Name : | 024CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 6519793 | 6533054 | 6599891 | 6550913 | 0.66 | cps |
| Vanadium | 51-2 | 636479 | 631895 | 637909 | 635428 | 0.49 | cps |
| Yttrium | 89-1 | 4764520 | 4677370 | 4702605 | 4714832 | 0.95 | cps |
| Yttrium | 89-2 | 1153576 | 1168233 | 1115879 | 1145896 | 2.36 | cps |
| Zinc | 66-2 | 1236379 | 1241792 | 1237069 | 1238413 | 0.24 | cps |
| Zirconium | 90-1 | 3218748 | 3266865 | 3267202 | 3250938 | 0.86 | cps |
| Zirconium | 91-1 | 717923 | 730938 | 729659 | 726173 | 0.99 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCB01 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:07:52 | DataFile Name : | 025CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 187 | 230 | 237 | 218 | 12.47 | cps |
| Antimony | 121-1 | 1830 | 1747 | 1843 | 1807 | 2.90 | cps |
| Arsenic | 75-2 | 7 | 3 | 10 | 7 | 50.03 | cps |
| Barium | 135-1 | 123 | 90 | 120 | 111 | 16.52 | cps |
| Barium | 137-1 | 293 | 210 | 173 | 226 | 27.26 | cps |
| Beryllium | 9-1 | 510 | 427 | 340 | 426 | 19.97 | cps |
| Bismuth | 209-1 | 2492320 | 2502151 | 2539852 | 2511441 | 1.00 | cps |
| Bismuth | 209-2 | 2047635 | 2015857 | 1982947 | 2015479 | 1.60 | cps |
| Bromine | 81-1 | 6088 | 6408 | 6418 | 6305 | 2.98 | cps |
| Bromine | 81-2 | 47 | 37 | 23 | 36 | 32.93 | cps |
| Cadmium | 108-1 | 3 | 13 | 13 | 10 | 57.75 | cps |
| Cadmium | 106-1 | 1483 | 1393 | 1263 | 1380 | 8.02 | cps |
| Cadmium | 111-1 | 1076 | 993 | 885 | 985 | 9.73 | cps |
| Calcium | 43-1 | 367 | 237 | 200 | 268 | 32.71 | cps |
| Calcium | 44-1 | 8228 | 4287 | 3954 | 5490 | 43.30 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 180 | 177 | 160 | 172 | 6.22 | cps |
| Cobalt | 59-2 | 97 | 117 | 77 | 97 | 20.69 | cps |
| Copper | 63-2 | 1067 | 1087 | 1043 | 1066 | 2.04 | cps |
| Dysprosium | 156-1 | 7 | 7 | 3 | 6 | 34.70 | cps |
| Dysprosium | 156-2 | 0 | 0 | 3 | 1 | 173.21 | cps |
| Erbium | 164-1 | 13 | 20 | 27 | 20 | 33.35 | cps |
| Erbium | 164-2 | 13 | 27 | 10 | 17 | 52.93 | cps |
| Gadolinium | 160-1 | 3 | 3 | 0 | 2 | 86.60 | cps |
| Gadolinium | 160-2 | 107 | 110 | 100 | 106 | 4.82 | cps |
| Holmium | 165-1 | 3913272 | 3956259 | 3929437 | 3932989 | 0.55 | cps |
| Holmium | 165-2 | 2727115 | 2754985 | 2717945 | 2733348 | 0.71 | cps |
| Indium | 115-1 | 3060303 | 3021177 | 2977068 | 3019516 | 1.38 | cps |
| Indium | 115-2 | 962310 | 955631 | 952720 | 956887 | 0.51 | cps |
| Iron | 56-2 | 14687 | 15088 | 16593 | 15456 | 6.50 | cps |
| Iron | 57-2 | 662 | 742 | 956 | 786 | 19.31 | cps |
| Iron | 54-2 | 1437 | 1507 | 1473 | 1472 | 2.38 | cps |
| Krypton | 83-1 | 57 | 103 | 87 | 82 | 28.76 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCB01 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:07:52 | DataFile Name : | 025CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 1737 | 1137 | 953 | 1276 | 32.13 | cps |
| Lead | 207-1 | 2921 | 993 | 787 | 1567 | 75.12 | cps |
| Lead | 208-1 | 11636 | 4410 | 3944 | 6663 | 64.73 | cps |
| Lithium | 6-1 | 827050 | 821258 | 829974 | 826094 | 0.54 | cps |
| Magnesium | 24-2 | 2930 | 3237 | 3197 | 3121 | 5.34 | cps |
| Manganese | 55-2 | 463 | 427 | 420 | 437 | 5.34 | cps |
| Molybdenum | 94-1 | 990 | 857 | 873 | 907 | 8.01 | cps |
| Molybdenum | 95-1 | 940 | 680 | 683 | 768 | 19.43 | cps |
| Molybdenum | 96-1 | 1150 | 817 | 860 | 942 | 19.24 | cps |
| Molybdenum | 97-1 | 613 | 443 | 510 | 522 | 16.40 | cps |
| Molybdenum | 98-1 | 1503 | 1140 | 1163 | 1269 | 16.03 | cps |
| Neodymium | 150-1 | 3 | 0 | 3 | 2 | 86.60 | cps |
| Neodymium | 150-2 | 0 | 3 | 0 | 1 | 173.21 | cps |
| Nickel | 60-2 | 37 | 63 | 50 | 50 | 26.66 | cps |
| Phosphorus | 31-2 | 153 | 123 | 133 | 137 | 11.18 | cps |
| Potassium | 39-2 | 39214 | 38957 | 38415 | 38862 | 1.05 | cps |
| Rhodium | 103-1 | 2635610 | 2657506 | 2624258 | 2639125 | 0.64 | cps |
| Rhodium | 103-2 | 1505188 | 1487233 | 1473159 | 1488527 | 1.08 | cps |
| Scandium | 45-1 | 1537079 | 1572059 | 1545002 | 1551380 | 1.18 | cps |
| Scandium | 45-2 | 140275 | 140322 | 136629 | 139075 | 1.52 | cps |
| Selenium | 82-1 | 136 | 97 | 117 | 117 | 16.85 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 93 | 100 | 73 | 89 | 15.61 | cps |
| Silicon | 28-1 | 188544 | 189334 | 186678 | 188185 | 0.72 | cps |
| Silver | 107-1 | 487 | 330 | 317 | 378 | 25.02 | cps |
| Silver | 109-1 | 407 | 317 | 260 | 328 | 22.56 | cps |
| Sodium | 23-2 | 31556 | 30884 | 30266 | 30902 | 2.09 | cps |
| Strontium | 86-1 | 1074 | 660 | 647 | 793 | 30.59 | cps |
| Strontium | 88-1 | 9577 | 4281 | 3921 | 5926 | 53.44 | cps |
| Sulfur | 34-1 | 112080 | 113306 | 113131 | 112839 | 0.59 | cps |
| Terbium | 159-1 | 4042820 | 4088448 | 4093179 | 4074816 | 0.68 | cps |
| Terbium | 159-2 | 2715042 | 2688209 | 2647820 | 2683690 | 1.26 | cps |
| Thallium | 203-1 | 413 | 337 | 300 | 350 | 16.52 | cps |
| Thallium | 205-1 | 1117 | 720 | 737 | 858 | 26.16 | cps |
| Tin | 118-1 | 1135 | 1198 | 1341 | 1225 | 8.61 | cps |
| Titanium | 47-1 | 367 | 147 | 177 | 230 | 51.88 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCB01 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:07:52 | DataFile Name : | 025CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 1749 | 177 | 190 | 705 | 128.19 | cps |
| Vanadium | 51-2 | 23 | 13 | 43 | 27 | 57.29 | cps |
| Yttrium | 89-1 | 4880623 | 4940321 | 4956916 | 4925954 | 0.81 | cps |
| Yttrium | 89-2 | 1239080 | 1240555 | 1231625 | 1237087 | 0.39 | cps |
| Zinc | 66-2 | 230 | 243 | 217 | 230 | 5.80 | cps |
| Zirconium | 90-1 | 1403 | 1123 | 1163 | 1230 | 12.31 | cps |
| Zirconium | 91-1 | 247 | 280 | 287 | 271 | 7.90 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CRI | Instrumnet Name : | P7 |
| Client Sample ID : | CRI | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:11:51 | DataFile Name : | 026LLCC.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1957 | 1773 | 2030 | 1920 | 6.89 | cps |
| Antimony | 121-1 | 8869 | 9050 | 9176 | 9032 | 1.71 | cps |
| Arsenic | 75-2 | 220 | 197 | 237 | 218 | 9.23 | cps |
| Barium | 135-1 | 10671 | 11071 | 11235 | 10992 | 2.64 | cps |
| Barium | 137-1 | 18572 | 18732 | 19126 | 18810 | 1.52 | cps |
| Beryllium | 9-1 | 1057 | 1060 | 1190 | 1102 | 6.90 | cps |
| Bismuth | 209-1 | 2483842 | 2450926 | 2467095 | 2467288 | 0.67 | cps |
| Bismuth | 209-2 | 1989151 | 2044573 | 2040554 | 2024760 | 1.53 | cps |
| Bromine | 81-1 | 6492 | 6418 | 6735 | 6548 | 2.53 | cps |
| Bromine | 81-2 | 67 | 27 | 63 | 52 | 42.50 | cps |
| Cadmium | 108-1 | 80 | 90 | 103 | 91 | 12.85 | cps |
| Cadmium | 106-1 | 1633 | 1603 | 1470 | 1569 | 5.54 | cps |
| Cadmium | 111-1 | 2131 | 2116 | 2053 | 2100 | 1.96 | cps |
| Calcium | 43-1 | 6195 | 5925 | 5945 | 6021 | 2.50 | cps |
| Calcium | 44-1 | 97836 | 98719 | 97977 | 98177 | 0.48 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 3414 | 3474 | 3257 | 3382 | 3.31 | cps |
| Cobalt | 59-2 | 2420 | 2614 | 2517 | 2517 | 3.84 | cps |
| Copper | 63-2 | 3824 | 3784 | 4067 | 3892 | 3.94 | cps |
| Dysprosium | 156-1 | 7 | 10 | 10 | 9 | 21.63 | cps |
| Dysprosium | 156-2 | 7 | 0 | 0 | 2 | 173.21 | cps |
| Erbium | 164-1 | 27 | 3 | 17 | 16 | 75.27 | cps |
| Erbium | 164-2 | 13 | 3 | 10 | 9 | 57.30 | cps |
| Gadolinium | 160-1 | 7 | 13 | 10 | 10 | 33.30 | cps |
| Gadolinium | 160-2 | 143 | 147 | 120 | 137 | 10.63 | cps |
| Holmium | 165-1 | 3960109 | 3854500 | 3931134 | 3915248 | 1.39 | cps |
| Holmium | 165-2 | 2707403 | 2792348 | 2741526 | 2747093 | 1.56 | cps |
| Indium | 115-1 | 3035058 | 2954366 | 3007742 | 2999055 | 1.37 | cps |
| Indium | 115-2 | 952486 | 970846 | 953614 | 958982 | 1.07 | cps |
| Iron | 56-2 | 82233 | 81543 | 81482 | 81753 | 0.51 | cps |
| Iron | 57-2 | 2441 | 2564 | 2573 | 2526 | 2.93 | cps |
| Iron | 54-2 | 5298 | 5028 | 5214 | 5180 | 2.67 | cps |
| Krypton | 83-1 | 87 | 93 | 57 | 79 | 24.75 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CRI | Instrumnet Name : | P7 |
| Client Sample ID : | CRI | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:11:51 | DataFile Name : | 026LLCC.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 4021 | 3744 | 3894 | 3886 | 3.56 | cps |
| Lead | 207-1 | 3184 | 3234 | 3294 | 3237 | 1.70 | cps |
| Lead | 208-1 | 15197 | 14820 | 14710 | 14909 | 1.71 | cps |
| Lithium | 6-1 | 824578 | 792740 | 817915 | 811744 | 2.07 | cps |
| Magnesium | 24-2 | 87544 | 87279 | 88157 | 87660 | 0.51 | cps |
| Manganese | 55-2 | 1490 | 1433 | 1413 | 1446 | 2.75 | cps |
| Molybdenum | 94-1 | 8843 | 8903 | 8809 | 8852 | 0.53 | cps |
| Molybdenum | 95-1 | 10394 | 10047 | 10631 | 10357 | 2.83 | cps |
| Molybdenum | 96-1 | 11221 | 11671 | 11124 | 11339 | 2.57 | cps |
| Molybdenum | 97-1 | 6615 | 6301 | 6542 | 6486 | 2.53 | cps |
| Molybdenum | 98-1 | 16583 | 16513 | 17087 | 16727 | 1.87 | cps |
| Neodymium | 150-1 | 3 | 7 | 7 | 6 | 34.70 | cps |
| Neodymium | 150-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Nickel | 60-2 | 670 | 650 | 647 | 656 | 1.92 | cps |
| Phosphorus | 31-2 | 223 | 240 | 240 | 234 | 4.10 | cps |
| Potassium | 39-2 | 135705 | 133314 | 134750 | 134589 | 0.89 | cps |
| Rhodium | 103-1 | 2661875 | 2599379 | 2662892 | 2641382 | 1.38 | cps |
| Rhodium | 103-2 | 1477062 | 1512523 | 1492338 | 1493974 | 1.19 | cps |
| Scandium | 45-1 | 1581396 | 1535757 | 1540570 | 1552575 | 1.62 | cps |
| Scandium | 45-2 | 137685 | 140774 | 140524 | 139661 | 1.23 | cps |
| Selenium | 82-1 | 423 | 430 | 452 | 435 | 3.45 | cps |
| Selenium | 77-2 | 30 | 37 | 13 | 27 | 45.08 | cps |
| Selenium | 78-2 | 223 | 223 | 150 | 199 | 21.29 | cps |
| Silicon | 28-1 | 195504 | 197214 | 197079 | 196599 | 0.48 | cps |
| Silver | 107-1 | 4991 | 4991 | 5011 | 4998 | 0.23 | cps |
| Silver | 109-1 | 4694 | 4918 | 4888 | 4833 | 2.51 | cps |
| Sodium | 23-2 | 158203 | 155970 | 157809 | 157327 | 0.76 | cps |
| Strontium | 86-1 | 1650 | 1607 | 1500 | 1586 | 4.87 | cps |
| Strontium | 88-1 | 12545 | 12789 | 12555 | 12630 | 1.09 | cps |
| Sulfur | 34-1 | 117729 | 118469 | 117024 | 117741 | 0.61 | cps |
| Terbium | 159-1 | 4072412 | 3971204 | 4002036 | 4015217 | 1.29 | cps |
| Terbium | 159-2 | 2665696 | 2746718 | 2663987 | 2692134 | 1.76 | cps |
| Thallium | 203-1 | 4237 | 4184 | 4034 | 4152 | 2.54 | cps |
| Thallium | 205-1 | 9814 | 10030 | 9617 | 9820 | 2.11 | cps |
| Tin | 118-1 | 17824 | 19369 | 19185 | 18793 | 4.49 | cps |
| Titanium | 47-1 | 2687 | 2604 | 2560 | 2617 | 2.46 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CRI | Instrumnet Name : | P7 |
| Client Sample ID : | CRI | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:11:51 | DataFile Name : | 026LLCC.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 11965 | 11785 | 11862 | 11871 | 0.76 | cps |
| Vanadium | 51-2 | 6908 | 7045 | 6872 | 6942 | 1.32 | cps |
| Yttrium | 89-1 | 5022972 | 4777105 | 4897219 | 4899099 | 2.51 | cps |
| Yttrium | 89-2 | 1237387 | 1251953 | 1234968 | 1241436 | 0.74 | cps |
| Zinc | 66-2 | 1607 | 1413 | 1500 | 1507 | 6.43 | cps |
| Zirconium | 90-1 | 7675 | 7879 | 7695 | 7750 | 1.45 | cps |
| Zirconium | 91-1 | 1587 | 1813 | 1677 | 1692 | 6.74 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-02 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-TM1-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:25:28 | DataFile Name : | 027SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 246173 | 245655 | 245296 | 245708 | 0.18 | cps |
| Antimony | 121-1 | 3400763 | 3399178 | 3355023 | 3384988 | 0.77 | cps |
| Arsenic | 75-2 | 108610 | 105122 | 107700 | 107144 | 1.69 | cps |
| Barium | 135-1 | 691062 | 694557 | 706196 | 697272 | 1.14 | cps |
| Barium | 137-1 | 1192521 | 1202323 | 1209346 | 1201397 | 0.70 | cps |
| Beryllium | 9-1 | 250160 | 251386 | 253357 | 251635 | 0.64 | cps |
| Bismuth | 209-1 | 2448943 | 2490124 | 2509541 | 2482869 | 1.25 | cps |
| Bismuth | 209-2 | 2047832 | 1966967 | 1963604 | 1992801 | 2.39 | cps |
| Bromine | 81-1 | 6682 | 6562 | 6778 | 6674 | 1.63 | cps |
| Bromine | 81-2 | 27 | 17 | 37 | 27 | 37.50 | cps |
| Cadmium | 108-1 | 27276 | 27179 | 26621 | 27025 | 1.31 | cps |
| Cadmium | 106-1 | 37799 | 36740 | 37535 | 37358 | 1.48 | cps |
| Cadmium | 111-1 | 404967 | 407523 | 411586 | 408025 | 0.82 | cps |
| Calcium | 43-1 | 1997 | 2100 | 2177 | 2091 | 4.32 | cps |
| Calcium | 44-1 | 18508 | 18662 | 18952 | 18707 | 1.21 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 886885 | 887926 | 881404 | 885405 | 0.40 | cps |
| Cobalt | 59-2 | 425930 | 426237 | 424620 | 425596 | 0.20 | cps |
| Copper | 63-2 | 1072092 | 1082055 | 1075292 | 1076480 | 0.47 | cps |
| Dysprosium | 156-1 | 13 | 20 | 33 | 22 | 45.83 | cps |
| Dysprosium | 156-2 | 37 | 23 | 33 | 31 | 22.31 | cps |
| Erbium | 164-1 | 17 | 13 | 23 | 18 | 28.64 | cps |
| Erbium | 164-2 | 10 | 0 | 7 | 6 | 91.64 | cps |
| Gadolinium | 160-1 | 7 | 0 | 10 | 6 | 91.64 | cps |
| Gadolinium | 160-2 | 123 | 120 | 100 | 114 | 11.03 | cps |
| Holmium | 165-1 | 3945412 | 3926387 | 3975169 | 3948989 | 0.62 | cps |
| Holmium | 165-2 | 2709729 | 2707651 | 2748656 | 2722012 | 0.85 | cps |
| Indium | 115-1 | 3024193 | 3079892 | 3079428 | 3061171 | 1.05 | cps |
| Indium | 115-2 | 965389 | 953488 | 957009 | 958629 | 0.64 | cps |
| Iron | 56-2 | 1931977 | 1973078 | 1925962 | 1943672 | 1.32 | cps |
| Iron | 57-2 | 44249 | 43997 | 44530 | 44259 | 0.60 | cps |
| Iron | 54-2 | 139734 | 139987 | 140041 | 139921 | 0.12 | cps |
| Krypton | 83-1 | 100 | 67 | 100 | 89 | 21.65 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-02 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-TM1-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:25:28 | DataFile Name : | 027SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 3478395 | 3465464 | 3521092 | 3488317 | 0.83 | cps |
| Lead | 207-1 | 2947946 | 3000465 | 2990056 | 2979489 | 0.93 | cps |
| Lead | 208-1 | 13536705 | 13722037 | 13727691 | 13662144 | 0.80 | cps |
| Lithium | 6-1 | 810171 | 819097 | 819856 | 816374 | 0.66 | cps |
| Magnesium | 24-2 | 1667 | 1553 | 1620 | 1613 | 3.53 | cps |
| Manganese | 55-2 | 771291 | 775662 | 774469 | 773808 | 0.29 | cps |
| Molybdenum | 94-1 | 626799 | 629753 | 635221 | 630591 | 0.68 | cps |
| Molybdenum | 95-1 | 1099735 | 1105107 | 1107517 | 1104120 | 0.36 | cps |
| Molybdenum | 96-1 | 1170023 | 1187699 | 1190187 | 1182636 | 0.93 | cps |
| Molybdenum | 97-1 | 688815 | 692452 | 701449 | 694239 | 0.94 | cps |
| Molybdenum | 98-1 | 1784805 | 1781856 | 1789237 | 1785299 | 0.21 | cps |
| Neodymium | 150-1 | 43 | 70 | 47 | 53 | 27.24 | cps |
| Neodymium | 150-2 | 10 | 7 | 20 | 12 | 56.76 | cps |
| Nickel | 60-2 | 932315 | 932733 | 934465 | 933171 | 0.12 | cps |
| Phosphorus | 31-2 | 83 | 90 | 110 | 94 | 14.70 | cps |
| Potassium | 39-2 | 34533 | 34235 | 33844 | 34204 | 1.01 | cps |
| Rhodium | 103-1 | 2688175 | 2728528 | 2681771 | 2699491 | 0.94 | cps |
| Rhodium | 103-2 | 1499208 | 1481070 | 1492915 | 1491065 | 0.62 | cps |
| Scandium | 45-1 | 1585151 | 1589084 | 1588672 | 1587636 | 0.14 | cps |
| Scandium | 45-2 | 140426 | 139390 | 139410 | 139742 | 0.42 | cps |
| Selenium | 82-1 | 28671 | 29173 | 29187 | 29010 | 1.01 | cps |
| Selenium | 77-2 | 2874 | 2640 | 2804 | 2773 | 4.32 | cps |
| Selenium | 78-2 | 9223 | 9233 | 9049 | 9168 | 1.13 | cps |
| Silicon | 28-1 | 856207 | 859605 | 863309 | 859707 | 0.41 | cps |
| Silver | 107-1 | 2957434 | 2907465 | 2967586 | 2944161 | 1.09 | cps |
| Silver | 109-1 | 2788632 | 2829990 | 2843111 | 2820578 | 1.01 | cps |
| Sodium | 23-2 | 29816 | 30223 | 30383 | 30141 | 0.97 | cps |
| Strontium | 86-1 | 598586 | 606770 | 605353 | 603570 | 0.72 | cps |
| Strontium | 88-1 | 5292965 | 5245123 | 5339365 | 5292485 | 0.89 | cps |
| Sulfur | 34-1 | 117776 | 113417 | 113249 | 114814 | 2.24 | cps |
| Terbium | 159-1 | 3986695 | 4101817 | 4046237 | 4044916 | 1.42 | cps |
| Terbium | 159-2 | 2695213 | 2661565 | 2660438 | 2672405 | 0.74 | cps |
| Thallium | 203-1 | 1897895 | 1884082 | 1865658 | 1882545 | 0.86 | cps |
| Thallium | 205-1 | 4519931 | 4522864 | 4452435 | 4498410 | 0.89 | cps |
| Tin | 118-1 | 2055 | 2212 | 1928 | 2065 | 6.90 | cps |
| Titanium | 47-1 | 200 | 177 | 177 | 184 | 7.30 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-02 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-TM1-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:25:28 | DataFile Name : | 027SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 20 | 70 | 20 | 37 | 78.73 | cps |
| Vanadium | 51-2 | 1514856 | 1513770 | 1507717 | 1512114 | 0.25 | cps |
| Yttrium | 89-1 | 5006312 | 5046626 | 5017723 | 5023554 | 0.41 | cps |
| Yttrium | 89-2 | 1250977 | 1234790 | 1237524 | 1241097 | 0.70 | cps |
| Zinc | 66-2 | 168546 | 168168 | 168866 | 168527 | 0.21 | cps |
| Zirconium | 90-1 | 2340 | 2414 | 2560 | 2438 | 4.60 | cps |
| Zirconium | 91-1 | 787 | 807 | 750 | 781 | 3.68 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-04 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-SNTI-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:28:38 | DataFile Name : | 028SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 7295 | 7365 | 7158 | 7273 | 1.45 | cps |
| Antimony | 121-1 | 1590 | 1633 | 1667 | 1630 | 2.36 | cps |
| Arsenic | 75-2 | 10 | 3 | 13 | 9 | 57.30 | cps |
| Barium | 135-1 | 297 | 277 | 253 | 276 | 7.87 | cps |
| Barium | 137-1 | 450 | 497 | 353 | 433 | 16.87 | cps |
| Beryllium | 9-1 | 250 | 207 | 193 | 217 | 13.67 | cps |
| Bismuth | 209-1 | 2503115 | 2485483 | 2523601 | 2504066 | 0.76 | cps |
| Bismuth | 209-2 | 2061757 | 2062180 | 1964953 | 2029630 | 2.76 | cps |
| Bromine | 81-1 | 6665 | 6465 | 7075 | 6735 | 4.62 | cps |
| Bromine | 81-2 | 37 | 57 | 47 | 47 | 21.43 | cps |
| Cadmium | 108-1 | 13 | 13 | 20 | 16 | 24.76 | cps |
| Cadmium | 106-1 | 1523 | 1373 | 1313 | 1403 | 7.71 | cps |
| Cadmium | 111-1 | 1084 | 992 | 922 | 999 | 8.11 | cps |
| Calcium | 43-1 | 193 | 180 | 163 | 179 | 8.40 | cps |
| Calcium | 44-1 | 4337 | 4474 | 4284 | 4365 | 2.25 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 290 | 280 | 267 | 279 | 4.20 | cps |
| Cobalt | 59-2 | 113 | 117 | 120 | 117 | 2.86 | cps |
| Copper | 63-2 | 830 | 813 | 893 | 846 | 4.99 | cps |
| Dysprosium | 156-1 | 10 | 17 | 23 | 17 | 39.99 | cps |
| Dysprosium | 156-2 | 7 | 13 | 10 | 10 | 33.30 | cps |
| Erbium | 164-1 | 13 | 20 | 40 | 24 | 56.78 | cps |
| Erbium | 164-2 | 13 | 43 | 17 | 24 | 67.26 | cps |
| Gadolinium | 160-1 | 33 | 23 | 17 | 24 | 34.31 | cps |
| Gadolinium | 160-2 | 120 | 90 | 120 | 110 | 15.75 | cps |
| Holmium | 165-1 | 3967372 | 4091854 | 4086059 | 4048428 | 1.74 | cps |
| Holmium | 165-2 | 2774257 | 2765317 | 2708185 | 2749253 | 1.30 | cps |
| Indium | 115-1 | 2913333 | 2934045 | 2955342 | 2934240 | 0.72 | cps |
| Indium | 115-2 | 935044 | 931092 | 924870 | 930335 | 0.55 | cps |
| Iron | 56-2 | 7562 | 8026 | 7915 | 7834 | 3.09 | cps |
| Iron | 57-2 | 578 | 565 | 538 | 560 | 3.64 | cps |
| Iron | 54-2 | 1053 | 957 | 1090 | 1033 | 6.67 | cps |
| Krypton | 83-1 | 117 | 93 | 60 | 90 | 31.65 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-04 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-SNTI-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:28:38 | DataFile Name : | 028SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 783 | 813 | 837 | 811 | 3.30 | cps |
| Lead | 207-1 | 647 | 660 | 663 | 657 | 1.34 | cps |
| Lead | 208-1 | 3384 | 3220 | 2913 | 3172 | 7.52 | cps |
| Lithium | 6-1 | 828930 | 825847 | 834958 | 829911 | 0.56 | cps |
| Magnesium | 24-2 | 1753 | 1903 | 1853 | 1837 | 4.16 | cps |
| Manganese | 55-2 | 183 | 233 | 180 | 199 | 15.02 | cps |
| Molybdenum | 94-1 | 4604 | 4301 | 4674 | 4526 | 4.39 | cps |
| Molybdenum | 95-1 | 160 | 183 | 157 | 167 | 8.72 | cps |
| Molybdenum | 96-1 | 960 | 980 | 890 | 943 | 5.01 | cps |
| Molybdenum | 97-1 | 127 | 73 | 73 | 91 | 33.80 | cps |
| Molybdenum | 98-1 | 317 | 323 | 270 | 303 | 9.58 | cps |
| Neodymium | 150-1 | 10 | 7 | 7 | 8 | 24.71 | cps |
| Neodymium | 150-2 | 10 | 10 | 3 | 8 | 49.52 | cps |
| Nickel | 60-2 | 217 | 203 | 220 | 213 | 4.13 | cps |
| Phosphorus | 31-2 | 153 | 113 | 90 | 119 | 26.94 | cps |
| Potassium | 39-2 | 35030 | 35598 | 34686 | 35105 | 1.31 | cps |
| Rhodium | 103-1 | 2768566 | 2706825 | 2683508 | 2719633 | 1.62 | cps |
| Rhodium | 103-2 | 1524838 | 1513691 | 1514434 | 1517654 | 0.41 | cps |
| Scandium | 45-1 | 1574683 | 1598867 | 1614455 | 1596002 | 1.26 | cps |
| Scandium | 45-2 | 142257 | 140699 | 139421 | 140792 | 1.01 | cps |
| Selenium | 82-1 | 81 | 92 | 141 | 105 | 30.73 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 80 | 113 | 110 | 101 | 18.16 | cps |
| Silicon | 28-1 | 4013438 | 4087885 | 4055341 | 4052221 | 0.92 | cps |
| Silver | 107-1 | 663 | 507 | 373 | 514 | 28.22 | cps |
| Silver | 109-1 | 630 | 403 | 353 | 462 | 31.90 | cps |
| Sodium | 23-2 | 67139 | 66975 | 66533 | 66882 | 0.47 | cps |
| Strontium | 86-1 | 180 | 183 | 183 | 182 | 1.06 | cps |
| Strontium | 88-1 | 807 | 700 | 777 | 761 | 7.23 | cps |
| Sulfur | 34-1 | 108230 | 106380 | 107122 | 107244 | 0.87 | cps |
| Terbium | 159-1 | 3979447 | 4118566 | 4055231 | 4051081 | 1.72 | cps |
| Terbium | 159-2 | 2685036 | 2666127 | 2713558 | 2688240 | 0.89 | cps |
| Thallium | 203-1 | 367 | 397 | 353 | 372 | 5.96 | cps |
| Thallium | 205-1 | 930 | 810 | 783 | 841 | 9.29 | cps |
| Tin | 118-1 | 4714330 | 4770370 | 4721781 | 4735494 | 0.64 | cps |
| Titanium | 47-1 | 48080 | 48932 | 48604 | 48539 | 0.89 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-04 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-SNTI-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:28:38 | DataFile Name : | 028SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 30 | 40 | 53 | 41 | 28.47 | cps |
| Vanadium | 51-2 | 93 | 53 | 60 | 69 | 31.11 | cps |
| Yttrium | 89-1 | 5039372 | 5107188 | 5200240 | 5115600 | 1.58 | cps |
| Yttrium | 89-2 | 1256582 | 1255718 | 1249078 | 1253792 | 0.33 | cps |
| Zinc | 66-2 | 153 | 167 | 213 | 178 | 17.72 | cps |
| Zirconium | 90-1 | 11791 | 11735 | 11374 | 11634 | 1.94 | cps |
| Zirconium | 91-1 | 2560 | 2710 | 2510 | 2594 | 4.01 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-06 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-MIN2-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:32:00 | DataFile Name : | 029SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 60 | 63 | 80 | 68 | 15.81 | cps |
| Antimony | 121-1 | 1243 | 640 | 470 | 784 | 51.81 | cps |
| Arsenic | 75-2 | 30 | 20 | 13 | 21 | 39.75 | cps |
| Barium | 135-1 | 513 | 517 | 430 | 487 | 10.09 | cps |
| Barium | 137-1 | 753 | 793 | 700 | 749 | 6.25 | cps |
| Beryllium | 9-1 | 167 | 150 | 127 | 148 | 13.60 | cps |
| Bismuth | 209-1 | 3580600 | 3034619 | 3282552 | 3299257 | 8.29 | cps |
| Bismuth | 209-2 | 2642338 | 2577025 | 2561532 | 2593632 | 1.65 | cps |
| Bromine | 81-1 | 8249 | 8286 | 8539 | 8358 | 1.89 | cps |
| Bromine | 81-2 | 357 | 387 | 397 | 380 | 5.48 | cps |
| Cadmium | 108-1 | 3 | 3 | 17 | 8 | 99.04 | cps |
| Cadmium | 106-1 | 2013 | 1587 | 1873 | 1825 | 11.92 | cps |
| Cadmium | 111-1 | 1560 | 1182 | 1326 | 1356 | 14.09 | cps |
| Calcium | 43-1 | 1205409 | 1168890 | 1118193 | 1164164 | 3.76 | cps |
| Calcium | 44-1 | 17931600 | 17441827 | 16715542 | 17362989 | 3.52 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 83 | 87 | 120 | 97 | 20.98 | cps |
| Cobalt | 59-2 | 260 | 187 | 253 | 233 | 17.38 | cps |
| Copper | 63-2 | 897 | 893 | 853 | 881 | 2.74 | cps |
| Dysprosium | 156-1 | 7 | 20 | 10 | 12 | 56.76 | cps |
| Dysprosium | 156-2 | 10 | 3 | 0 | 4 | 114.60 | cps |
| Erbium | 164-1 | 27 | 23 | 13 | 21 | 32.88 | cps |
| Erbium | 164-2 | 23 | 13 | 17 | 18 | 28.64 | cps |
| Gadolinium | 160-1 | 20 | 30 | 7 | 19 | 61.96 | cps |
| Gadolinium | 160-2 | 150 | 173 | 170 | 164 | 7.68 | cps |
| Holmium | 165-1 | 5908920 | 4890822 | 5652198 | 5483980 | 9.66 | cps |
| Holmium | 165-2 | 3690997 | 3646256 | 3550865 | 3629373 | 1.97 | cps |
| Indium | 115-1 | 4409320 | 3724811 | 4280292 | 4138141 | 8.79 | cps |
| Indium | 115-2 | 1264589 | 1247710 | 1233904 | 1248734 | 1.23 | cps |
| Iron | 56-2 | 5968 | 6158 | 6038 | 6055 | 1.59 | cps |
| Iron | 57-2 | 16428 | 17030 | 16919 | 16793 | 1.91 | cps |
| Iron | 54-2 | 440 | 490 | 417 | 449 | 8.35 | cps |
| Krypton | 83-1 | 83 | 127 | 90 | 100 | 23.34 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-06 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-MIN2-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:32:00 | DataFile Name : | 029SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 6602 | 6058 | 5701 | 6120 | 7.41 | cps |
| Lead | 207-1 | 5618 | 5625 | 4944 | 5396 | 7.24 | cps |
| Lead | 208-1 | 25806 | 24919 | 21940 | 24222 | 8.36 | cps |
| Lithium | 6-1 | 1137249 | 958346 | 1050657 | 1048750 | 8.53 | cps |
| Magnesium | 24-2 | 6115550 | 6099024 | 6030745 | 6081773 | 0.74 | cps |
| Manganese | 55-2 | 337 | 290 | 323 | 317 | 7.59 | cps |
| Molybdenum | 94-1 | 1370 | 1340 | 1290 | 1333 | 3.03 | cps |
| Molybdenum | 95-1 | 2217 | 2150 | 2067 | 2145 | 3.51 | cps |
| Molybdenum | 96-1 | 2504 | 2450 | 2264 | 2406 | 5.24 | cps |
| Molybdenum | 97-1 | 1407 | 1390 | 1293 | 1363 | 4.49 | cps |
| Molybdenum | 98-1 | 3804 | 3554 | 3384 | 3580 | 5.90 | cps |
| Neodymium | 150-1 | 17 | 10 | 23 | 17 | 39.99 | cps |
| Neodymium | 150-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Nickel | 60-2 | 87 | 107 | 100 | 98 | 10.41 | cps |
| Phosphorus | 31-2 | 53 | 63 | 47 | 54 | 15.40 | cps |
| Potassium | 39-2 | 5515751 | 5480686 | 5460819 | 5485752 | 0.51 | cps |
| Rhodium | 103-1 | 3870795 | 3246387 | 3653799 | 3590327 | 8.83 | cps |
| Rhodium | 103-2 | 1988866 | 1945116 | 1919854 | 1951279 | 1.79 | cps |
| Scandium | 45-1 | 2393437 | 2003680 | 2259701 | 2218939 | 8.93 | cps |
| Scandium | 45-2 | 189219 | 186924 | 185561 | 187235 | 0.99 | cps |
| Selenium | 82-1 | 198 | 93 | 193 | 161 | 36.67 | cps |
| Selenium | 77-2 | 0 | 3 | 0 | 1 | 173.21 | cps |
| Selenium | 78-2 | 70 | 107 | 133 | 103 | 30.77 | cps |
| Silicon | 28-1 | 152928 | 150986 | 148444 | 150786 | 1.49 | cps |
| Silver | 107-1 | 183 | 143 | 163 | 163 | 12.24 | cps |
| Silver | 109-1 | 107 | 113 | 107 | 109 | 3.53 | cps |
| Sodium | 23-2 | 30117111 | 30163545 | 29886183 | 30055613 | 0.49 | cps |
| Strontium | 86-1 | 13850 | 13910 | 13046 | 13602 | 3.55 | cps |
| Strontium | 88-1 | 121265 | 118432 | 112385 | 117361 | 3.86 | cps |
| Sulfur | 34-1 | 110909 | 114753 | 119812 | 115158 | 3.88 | cps |
| Terbium | 159-1 | 5958280 | 5065208 | 5565015 | 5529501 | 8.09 | cps |
| Terbium | 159-2 | 3597598 | 3493198 | 3486682 | 3525826 | 1.77 | cps |
| Thallium | 203-1 | 3941 | 2324 | 1407 | 2557 | 50.17 | cps |
| Thallium | 205-1 | 10224 | 5545 | 3154 | 6308 | 57.02 | cps |
| Tin | 118-1 | 3458 | 2454 | 1799 | 2570 | 32.50 | cps |
| Titanium | 47-1 | 40 | 43 | 40 | 41 | 4.68 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-06 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-MIN2-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:32:00 | DataFile Name : | 029SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 13 | 10 | 10 | 11 | 17.30 | cps |
| Vanadium | 51-2 | 7 | 13 | 17 | 12 | 41.65 | cps |
| Yttrium | 89-1 | 7564063 | 6242101 | 6967100 | 6924421 | 9.56 | cps |
| Yttrium | 89-2 | 1647171 | 1623657 | 1617383 | 1629404 | 0.96 | cps |
| Zinc | 66-2 | 437 | 420 | 377 | 411 | 7.53 | cps |
| Zirconium | 90-1 | 160 | 183 | 193 | 179 | 9.56 | cps |
| Zirconium | 91-1 | 33 | 30 | 40 | 34 | 14.78 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-02 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-TM1-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:35:16 | DataFile Name : | 030SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 241256 | 238413 | 240846 | 240172 | 0.64 | cps |
| Antimony | 121-1 | 3269080 | 3350487 | 3318700 | 3312756 | 1.24 | cps |
| Arsenic | 75-2 | 105112 | 104273 | 105068 | 104818 | 0.45 | cps |
| Barium | 135-1 | 683662 | 689662 | 684162 | 685829 | 0.49 | cps |
| Barium | 137-1 | 1176221 | 1184836 | 1183728 | 1181595 | 0.40 | cps |
| Beryllium | 9-1 | 244254 | 246399 | 247300 | 245984 | 0.64 | cps |
| Bismuth | 209-1 | 2466857 | 2454361 | 2428296 | 2449838 | 0.80 | cps |
| Bismuth | 209-2 | 1966357 | 1972239 | 1957831 | 1965476 | 0.37 | cps |
| Bromine | 81-1 | 6718 | 7052 | 6968 | 6913 | 2.51 | cps |
| Bromine | 81-2 | 100 | 50 | 93 | 81 | 33.47 | cps |
| Cadmium | 108-1 | 26164 | 25973 | 26110 | 26082 | 0.38 | cps |
| Cadmium | 106-1 | 37258 | 37579 | 37141 | 37326 | 0.61 | cps |
| Cadmium | 111-1 | 399696 | 400669 | 402929 | 401098 | 0.41 | cps |
| Calcium | 43-1 | 2214 | 2017 | 2040 | 2090 | 5.14 | cps |
| Calcium | 44-1 | 17814 | 17734 | 17580 | 17709 | 0.67 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 859216 | 861112 | 863108 | 861146 | 0.23 | cps |
| Cobalt | 59-2 | 415279 | 415407 | 415413 | 415366 | 0.02 | cps |
| Copper | 63-2 | 1050880 | 1051681 | 1048497 | 1050353 | 0.16 | cps |
| Dysprosium | 156-1 | 30 | 17 | 13 | 20 | 44.10 | cps |
| Dysprosium | 156-2 | 17 | 30 | 20 | 22 | 31.22 | cps |
| Erbium | 164-1 | 7 | 23 | 13 | 14 | 58.06 | cps |
| Erbium | 164-2 | 10 | 7 | 3 | 7 | 50.03 | cps |
| Gadolinium | 160-1 | 0 | 20 | 7 | 9 | 114.55 | cps |
| Gadolinium | 160-2 | 97 | 93 | 110 | 100 | 8.82 | cps |
| Holmium | 165-1 | 3863689 | 3800628 | 3835380 | 3833232 | 0.82 | cps |
| Holmium | 165-2 | 2677703 | 2658088 | 2631037 | 2655609 | 0.88 | cps |
| Indium | 115-1 | 2942184 | 2913201 | 2889741 | 2915042 | 0.90 | cps |
| Indium | 115-2 | 926920 | 932376 | 921150 | 926816 | 0.61 | cps |
| Iron | 56-2 | 1908516 | 1884154 | 1870437 | 1887702 | 1.02 | cps |
| Iron | 57-2 | 43101 | 43584 | 43240 | 43309 | 0.57 | cps |
| Iron | 54-2 | 136599 | 136848 | 136935 | 136794 | 0.13 | cps |
| Krypton | 83-1 | 63 | 83 | 80 | 76 | 14.18 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-02 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-TM1-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:35:16 | DataFile Name : | 030SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 3458633 | 3533395 | 3528988 | 3507005 | 1.20 | cps |
| Lead | 207-1 | 2915149 | 2958384 | 2956936 | 2943490 | 0.83 | cps |
| Lead | 208-1 | 13485630 | 13705044 | 13702301 | 13630992 | 0.92 | cps |
| Lithium | 6-1 | 800392 | 786377 | 782820 | 789863 | 1.18 | cps |
| Magnesium | 24-2 | 1623 | 1510 | 1570 | 1568 | 3.62 | cps |
| Manganese | 55-2 | 758242 | 753165 | 754614 | 755340 | 0.35 | cps |
| Molybdenum | 94-1 | 610070 | 617189 | 615346 | 614202 | 0.60 | cps |
| Molybdenum | 95-1 | 1071914 | 1077157 | 1075609 | 1074893 | 0.25 | cps |
| Molybdenum | 96-1 | 1143990 | 1156284 | 1161553 | 1153942 | 0.78 | cps |
| Molybdenum | 97-1 | 673728 | 678293 | 681084 | 677702 | 0.55 | cps |
| Molybdenum | 98-1 | 1730661 | 1761191 | 1743124 | 1744992 | 0.88 | cps |
| Neodymium | 150-1 | 67 | 70 | 60 | 66 | 7.77 | cps |
| Neodymium | 150-2 | 10 | 7 | 10 | 9 | 21.63 | cps |
| Nickel | 60-2 | 906540 | 919364 | 911311 | 912405 | 0.71 | cps |
| Phosphorus | 31-2 | 133 | 100 | 117 | 117 | 14.28 | cps |
| Potassium | 39-2 | 34008 | 34880 | 34332 | 34407 | 1.28 | cps |
| Rhodium | 103-1 | 2570360 | 2547323 | 2541165 | 2552950 | 0.60 | cps |
| Rhodium | 103-2 | 1442858 | 1454000 | 1424313 | 1440390 | 1.04 | cps |
| Scandium | 45-1 | 1533902 | 1518413 | 1512053 | 1521456 | 0.74 | cps |
| Scandium | 45-2 | 134154 | 133821 | 132338 | 133438 | 0.72 | cps |
| Selenium | 82-1 | 28671 | 28830 | 28394 | 28632 | 0.77 | cps |
| Selenium | 77-2 | 2654 | 2654 | 2624 | 2644 | 0.66 | cps |
| Selenium | 78-2 | 9400 | 9410 | 9136 | 9315 | 1.67 | cps |
| Silicon | 28-1 | 823667 | 824895 | 823426 | 823996 | 0.10 | cps |
| Silver | 107-1 | 2841006 | 2879422 | 2848100 | 2856176 | 0.72 | cps |
| Silver | 109-1 | 2714989 | 2739642 | 2742136 | 2732256 | 0.55 | cps |
| Sodium | 23-2 | 30123 | 30757 | 30360 | 30413 | 1.05 | cps |
| Strontium | 86-1 | 584560 | 591531 | 589751 | 588614 | 0.62 | cps |
| Strontium | 88-1 | 5170877 | 5242590 | 5211187 | 5208218 | 0.69 | cps |
| Sulfur | 34-1 | 122792 | 116464 | 110718 | 116658 | 5.18 | cps |
| Terbium | 159-1 | 3945686 | 3919455 | 3872644 | 3912595 | 0.95 | cps |
| Terbium | 159-2 | 2657528 | 2680492 | 2592052 | 2643357 | 1.74 | cps |
| Thallium | 203-1 | 1864271 | 1876493 | 1877498 | 1872754 | 0.39 | cps |
| Thallium | 205-1 | 4438227 | 4464693 | 4517751 | 4473557 | 0.91 | cps |
| Tin | 118-1 | 2118 | 2129 | 2226 | 2157 | 2.76 | cps |
| Titanium | 47-1 | 130 | 177 | 143 | 150 | 16.02 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-02 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-TM1-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:35:16 | DataFile Name : | 030SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 10 | 7 | 13 | 10 | 33.30 | cps |
| Vanadium | 51-2 | 1452844 | 1444734 | 1464447 | 1454009 | 0.68 | cps |
| Yttrium | 89-1 | 4797548 | 4847237 | 4847954 | 4830913 | 0.60 | cps |
| Yttrium | 89-2 | 1195062 | 1200128 | 1190152 | 1195114 | 0.42 | cps |
| Zinc | 66-2 | 164653 | 164397 | 163072 | 164041 | 0.52 | cps |
| Zirconium | 90-1 | 2220 | 2124 | 2107 | 2150 | 2.85 | cps |
| Zirconium | 91-1 | 717 | 743 | 663 | 708 | 5.76 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-04 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-SNTI-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:38:28 | DataFile Name : | 031SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 6925 | 7025 | 7008 | 6986 | 0.77 | cps |
| Antimony | 121-1 | 1473 | 1513 | 1680 | 1556 | 7.05 | cps |
| Arsenic | 75-2 | 27 | 7 | 7 | 13 | 86.58 | cps |
| Barium | 135-1 | 267 | 240 | 213 | 240 | 11.11 | cps |
| Barium | 137-1 | 430 | 513 | 380 | 441 | 15.27 | cps |
| Beryllium | 9-1 | 293 | 247 | 183 | 241 | 22.90 | cps |
| Bismuth | 209-1 | 2383594 | 2386167 | 2423138 | 2397633 | 0.92 | cps |
| Bismuth | 209-2 | 1968770 | 1994386 | 1995433 | 1986196 | 0.76 | cps |
| Bromine | 81-1 | 6778 | 7155 | 7052 | 6995 | 2.78 | cps |
| Bromine | 81-2 | 53 | 50 | 73 | 59 | 21.43 | cps |
| Cadmium | 108-1 | 10 | 13 | 17 | 13 | 25.01 | cps |
| Cadmium | 106-1 | 1513 | 1410 | 1387 | 1437 | 4.69 | cps |
| Cadmium | 111-1 | 1076 | 1008 | 982 | 1022 | 4.72 | cps |
| Calcium | 43-1 | 153 | 217 | 167 | 179 | 18.66 | cps |
| Calcium | 44-1 | 4447 | 4344 | 4207 | 4333 | 2.78 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 213 | 303 | 293 | 270 | 18.27 | cps |
| Cobalt | 59-2 | 110 | 97 | 147 | 118 | 21.98 | cps |
| Copper | 63-2 | 833 | 867 | 940 | 880 | 6.20 | cps |
| Dysprosium | 156-1 | 7 | 17 | 13 | 12 | 41.65 | cps |
| Dysprosium | 156-2 | 0 | 7 | 0 | 2 | 173.21 | cps |
| Erbium | 164-1 | 27 | 33 | 27 | 29 | 13.31 | cps |
| Erbium | 164-2 | 3 | 27 | 23 | 18 | 71.00 | cps |
| Gadolinium | 160-1 | 7 | 13 | 23 | 14 | 58.06 | cps |
| Gadolinium | 160-2 | 137 | 137 | 83 | 119 | 25.90 | cps |
| Holmium | 165-1 | 3773159 | 3925796 | 3842148 | 3847034 | 1.99 | cps |
| Holmium | 165-2 | 2712684 | 2631742 | 2667791 | 2670739 | 1.52 | cps |
| Indium | 115-1 | 2875053 | 2854407 | 2877111 | 2868857 | 0.44 | cps |
| Indium | 115-2 | 894803 | 888362 | 895813 | 892992 | 0.45 | cps |
| Iron | 56-2 | 7135 | 7042 | 7078 | 7085 | 0.66 | cps |
| Iron | 57-2 | 602 | 599 | 558 | 586 | 4.18 | cps |
| Iron | 54-2 | 1013 | 973 | 1017 | 1001 | 2.41 | cps |
| Krypton | 83-1 | 43 | 93 | 103 | 80 | 40.18 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-04 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-SNTI-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:38:28 | DataFile Name : | 031SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 933 | 730 | 780 | 814 | 13.01 | cps |
| Lead | 207-1 | 743 | 680 | 660 | 694 | 6.26 | cps |
| Lead | 208-1 | 3480 | 2937 | 3094 | 3170 | 8.82 | cps |
| Lithium | 6-1 | 786874 | 788335 | 798049 | 791086 | 0.77 | cps |
| Magnesium | 24-2 | 1627 | 1643 | 1667 | 1646 | 1.22 | cps |
| Manganese | 55-2 | 157 | 200 | 223 | 193 | 17.50 | cps |
| Molybdenum | 94-1 | 4007 | 4147 | 4137 | 4097 | 1.91 | cps |
| Molybdenum | 95-1 | 193 | 160 | 90 | 148 | 35.69 | cps |
| Molybdenum | 96-1 | 913 | 850 | 957 | 907 | 5.92 | cps |
| Molybdenum | 97-1 | 90 | 87 | 80 | 86 | 5.95 | cps |
| Molybdenum | 98-1 | 247 | 217 | 233 | 232 | 6.47 | cps |
| Neodymium | 150-1 | 10 | 7 | 10 | 9 | 21.63 | cps |
| Neodymium | 150-2 | 7 | 3 | 7 | 6 | 34.70 | cps |
| Nickel | 60-2 | 243 | 213 | 170 | 209 | 17.65 | cps |
| Phosphorus | 31-2 | 97 | 143 | 103 | 114 | 22.06 | cps |
| Potassium | 39-2 | 34716 | 35164 | 34429 | 34770 | 1.07 | cps |
| Rhodium | 103-1 | 2602783 | 2607503 | 2626311 | 2612199 | 0.48 | cps |
| Rhodium | 103-2 | 1458183 | 1445874 | 1460080 | 1454712 | 0.53 | cps |
| Scandium | 45-1 | 1509163 | 1551334 | 1536507 | 1532335 | 1.40 | cps |
| Scandium | 45-2 | 135153 | 135160 | 134877 | 135063 | 0.12 | cps |
| Selenium | 82-1 | 165 | 134 | 111 | 137 | 19.75 | cps |
| Selenium | 77-2 | 3 | 7 | 0 | 3 | 100.05 | cps |
| Selenium | 78-2 | 137 | 127 | 97 | 120 | 17.35 | cps |
| Silicon | 28-1 | 3912542 | 3991627 | 3985815 | 3963328 | 1.11 | cps |
| Silver | 107-1 | 593 | 387 | 340 | 440 | 30.64 | cps |
| Silver | 109-1 | 520 | 340 | 290 | 383 | 31.56 | cps |
| Sodium | 23-2 | 68016 | 68803 | 68096 | 68305 | 0.63 | cps |
| Strontium | 86-1 | 210 | 207 | 193 | 203 | 4.34 | cps |
| Strontium | 88-1 | 783 | 753 | 663 | 733 | 8.52 | cps |
| Sulfur | 34-1 | 106921 | 108797 | 110257 | 108658 | 1.54 | cps |
| Terbium | 159-1 | 3942569 | 3909991 | 3932317 | 3928292 | 0.42 | cps |
| Terbium | 159-2 | 2655537 | 2620706 | 2595789 | 2624011 | 1.14 | cps |
| Thallium | 203-1 | 260 | 233 | 290 | 261 | 10.86 | cps |
| Thallium | 205-1 | 790 | 780 | 650 | 740 | 10.55 | cps |
| Tin | 118-1 | 4756018 | 4696965 | 4648832 | 4700605 | 1.14 | cps |
| Titanium | 47-1 | 46575 | 46819 | 47544 | 46979 | 1.07 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-04 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-SNTI-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:38:28 | DataFile Name : | 031SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 47 | 37 | 33 | 39 | 17.85 | cps |
| Vanadium | 51-2 | 67 | 73 | 80 | 73 | 9.09 | cps |
| Yttrium | 89-1 | 4783822 | 4907636 | 4837243 | 4842900 | 1.28 | cps |
| Yttrium | 89-2 | 1210378 | 1199312 | 1204403 | 1204698 | 0.46 | cps |
| Zinc | 66-2 | 180 | 150 | 170 | 167 | 9.17 | cps |
| Zirconium | 90-1 | 11241 | 10998 | 11461 | 11233 | 2.06 | cps |
| Zirconium | 91-1 | 2420 | 2570 | 2590 | 2527 | 3.68 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-06 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-MIN2-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:41:49 | DataFile Name : | 032SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 70 | 67 | 37 | 58 | 31.77 | cps |
| Antimony | 121-1 | 510 | 403 | 300 | 404 | 25.96 | cps |
| Arsenic | 75-2 | 10 | 10 | 13 | 11 | 17.30 | cps |
| Barium | 135-1 | 450 | 453 | 510 | 471 | 7.16 | cps |
| Barium | 137-1 | 777 | 657 | 890 | 774 | 15.07 | cps |
| Beryllium | 9-1 | 137 | 173 | 167 | 159 | 12.29 | cps |
| Bismuth | 209-1 | 3476561 | 3378724 | 3172269 | 3342518 | 4.65 | cps |
| Bismuth | 209-2 | 2523550 | 2565391 | 2496168 | 2528370 | 1.38 | cps |
| Bromine | 81-1 | 8216 | 8379 | 8102 | 8232 | 1.69 | cps |
| Bromine | 81-2 | 407 | 373 | 430 | 403 | 7.06 | cps |
| Cadmium | 108-1 | 7 | 17 | 0 | 8 | 107.84 | cps |
| Cadmium | 106-1 | 2117 | 1770 | 1867 | 1918 | 9.33 | cps |
| Cadmium | 111-1 | 1560 | 1271 | 1323 | 1385 | 11.14 | cps |
| Calcium | 43-1 | 1182564 | 1142926 | 1106556 | 1144016 | 3.32 | cps |
| Calcium | 44-1 | 17443650 | 17359090 | 16658444 | 17153728 | 2.51 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 130 | 123 | 107 | 120 | 10.01 | cps |
| Cobalt | 59-2 | 217 | 253 | 257 | 242 | 9.16 | cps |
| Copper | 63-2 | 870 | 800 | 973 | 881 | 9.90 | cps |
| Dysprosium | 156-1 | 27 | 10 | 7 | 14 | 74.18 | cps |
| Dysprosium | 156-2 | 3 | 0 | 0 | 1 | 173.21 | cps |
| Erbium | 164-1 | 23 | 27 | 20 | 23 | 14.29 | cps |
| Erbium | 164-2 | 20 | 23 | 13 | 19 | 26.96 | cps |
| Gadolinium | 160-1 | 27 | 13 | 10 | 17 | 52.93 | cps |
| Gadolinium | 160-2 | 130 | 113 | 163 | 136 | 18.78 | cps |
| Holmium | 165-1 | 5763774 | 5496568 | 5445517 | 5568620 | 3.07 | cps |
| Holmium | 165-2 | 3625020 | 3564438 | 3543659 | 3577706 | 1.18 | cps |
| Indium | 115-1 | 4330725 | 4129475 | 4115712 | 4191970 | 2.87 | cps |
| Indium | 115-2 | 1238518 | 1218446 | 1222974 | 1226646 | 0.86 | cps |
| Iron | 56-2 | 5578 | 5888 | 5598 | 5688 | 3.05 | cps |
| Iron | 57-2 | 16943 | 17073 | 17026 | 17014 | 0.39 | cps |
| Iron | 54-2 | 387 | 473 | 357 | 406 | 14.94 | cps |
| Krypton | 83-1 | 103 | 90 | 83 | 92 | 11.04 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-06 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-MIN2-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:41:49 | DataFile Name : | 032SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 3774 | 3430 | 3274 | 3493 | 7.32 | cps |
| Lead | 207-1 | 3147 | 2897 | 2700 | 2915 | 7.68 | cps |
| Lead | 208-1 | 14733 | 13196 | 12362 | 13430 | 8.96 | cps |
| Lithium | 6-1 | 1112954 | 1073939 | 1048052 | 1078315 | 3.03 | cps |
| Magnesium | 24-2 | 6117164 | 6039776 | 6073323 | 6076754 | 0.64 | cps |
| Manganese | 55-2 | 273 | 237 | 287 | 266 | 9.75 | cps |
| Molybdenum | 94-1 | 1440 | 1420 | 1277 | 1379 | 6.46 | cps |
| Molybdenum | 95-1 | 2214 | 2130 | 1847 | 2064 | 9.32 | cps |
| Molybdenum | 96-1 | 2320 | 2470 | 2030 | 2274 | 9.84 | cps |
| Molybdenum | 97-1 | 1427 | 1403 | 1317 | 1382 | 4.19 | cps |
| Molybdenum | 98-1 | 3847 | 3457 | 3344 | 3549 | 7.44 | cps |
| Neodymium | 150-1 | 0 | 17 | 10 | 9 | 94.38 | cps |
| Neodymium | 150-2 | 3 | 7 | 0 | 3 | 100.05 | cps |
| Nickel | 60-2 | 123 | 103 | 97 | 108 | 12.88 | cps |
| Phosphorus | 31-2 | 37 | 77 | 80 | 64 | 37.42 | cps |
| Potassium | 39-2 | 5471049 | 5430315 | 5395520 | 5432295 | 0.70 | cps |
| Rhodium | 103-1 | 3774193 | 3623902 | 3556143 | 3651413 | 3.06 | cps |
| Rhodium | 103-2 | 1915355 | 1901094 | 1900617 | 1905689 | 0.44 | cps |
| Scandium | 45-1 | 2337928 | 2252989 | 2166845 | 2252587 | 3.80 | cps |
| Scandium | 45-2 | 186000 | 183634 | 182111 | 183915 | 1.07 | cps |
| Selenium | 82-1 | 146 | 193 | 156 | 165 | 14.88 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 87 | 107 | 103 | 99 | 10.83 | cps |
| Silicon | 28-1 | 148770 | 148912 | 145725 | 147802 | 1.22 | cps |
| Silver | 107-1 | 130 | 133 | 123 | 129 | 3.95 | cps |
| Silver | 109-1 | 107 | 113 | 103 | 108 | 4.73 | cps |
| Sodium | 23-2 | 29753094 | 29953837 | 30100533 | 29935821 | 0.58 | cps |
| Strontium | 86-1 | 13737 | 13450 | 13123 | 13436 | 2.29 | cps |
| Strontium | 88-1 | 120905 | 115559 | 110867 | 115777 | 4.34 | cps |
| Sulfur | 34-1 | 108995 | 115237 | 118501 | 114244 | 4.23 | cps |
| Terbium | 159-1 | 5902963 | 5585087 | 5466848 | 5651633 | 3.99 | cps |
| Terbium | 159-2 | 3542337 | 3494963 | 3506173 | 3514491 | 0.70 | cps |
| Thallium | 203-1 | 1157 | 560 | 553 | 757 | 45.78 | cps |
| Thallium | 205-1 | 2624 | 1340 | 1193 | 1719 | 45.77 | cps |
| Tin | 118-1 | 1818 | 1577 | 1332 | 1575 | 15.41 | cps |
| Titanium | 47-1 | 47 | 27 | 37 | 37 | 27.27 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

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|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-06 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-MIN2-WP | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:41:49 | DataFile Name : | 032SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 23 | 10 | 13 | 16 | 44.60 | cps |
| Vanadium | 51-2 | 23 | 33 | 10 | 22 | 52.68 | cps |
| Yttrium | 89-1 | 7297851 | 7121985 | 6795912 | 7071916 | 3.60 | cps |
| Yttrium | 89-2 | 1623857 | 1555677 | 1591043 | 1590192 | 2.14 | cps |
| Zinc | 66-2 | 357 | 287 | 280 | 308 | 13.80 | cps |
| Zirconium | 90-1 | 240 | 113 | 203 | 186 | 35.13 | cps |
| Zirconium | 91-1 | 37 | 37 | 23 | 32 | 23.90 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-02DLX2 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-TM1-WPDL | Dilution Factor : | 2 |
| Date & Time Acquired : | 2024-10-17 18:45:08 | DataFile Name : | 033SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 120841 | 119547 | 120378 | 120255 | 0.55 | cps |
| Antimony | 121-1 | 1615341 | 1628661 | 1651698 | 1631900 | 1.13 | cps |
| Arsenic | 75-2 | 52683 | 51114 | 51884 | 51894 | 1.51 | cps |
| Barium | 135-1 | 334055 | 336632 | 336907 | 335865 | 0.47 | cps |
| Barium | 137-1 | 577198 | 586627 | 590643 | 584823 | 1.18 | cps |
| Beryllium | 9-1 | 121826 | 122910 | 122272 | 122336 | 0.45 | cps |
| Bismuth | 209-1 | 2410989 | 2361693 | 2360333 | 2377672 | 1.21 | cps |
| Bismuth | 209-2 | 2009605 | 1943677 | 1965567 | 1972950 | 1.70 | cps |
| Bromine | 81-1 | 6318 | 6545 | 6595 | 6486 | 2.27 | cps |
| Bromine | 81-2 | 80 | 67 | 57 | 68 | 17.27 | cps |
| Cadmium | 108-1 | 13149 | 12726 | 12912 | 12929 | 1.64 | cps |
| Cadmium | 106-1 | 18699 | 18919 | 18842 | 18820 | 0.59 | cps |
| Cadmium | 111-1 | 195938 | 199379 | 197988 | 197768 | 0.88 | cps |
| Calcium | 43-1 | 1177 | 1033 | 1127 | 1112 | 6.54 | cps |
| Calcium | 44-1 | 10817 | 10741 | 10507 | 10688 | 1.51 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 428229 | 434056 | 427440 | 429908 | 0.84 | cps |
| Cobalt | 59-2 | 204959 | 205808 | 204876 | 205214 | 0.25 | cps |
| Copper | 63-2 | 525825 | 519304 | 522836 | 522655 | 0.62 | cps |
| Dysprosium | 156-1 | 7 | 10 | 7 | 8 | 24.71 | cps |
| Dysprosium | 156-2 | 3 | 10 | 13 | 9 | 57.30 | cps |
| Erbium | 164-1 | 33 | 10 | 3 | 16 | 101.28 | cps |
| Erbium | 164-2 | 3 | 13 | 13 | 10 | 57.75 | cps |
| Gadolinium | 160-1 | 0 | 13 | 7 | 7 | 99.98 | cps |
| Gadolinium | 160-2 | 100 | 113 | 113 | 109 | 7.07 | cps |
| Holmium | 165-1 | 3781928 | 3823885 | 3768869 | 3791561 | 0.76 | cps |
| Holmium | 165-2 | 2694364 | 2626881 | 2660978 | 2660741 | 1.27 | cps |
| Indium | 115-1 | 2880349 | 2923958 | 2915695 | 2906667 | 0.80 | cps |
| Indium | 115-2 | 926952 | 914105 | 923278 | 921445 | 0.72 | cps |
| Iron | 56-2 | 990896 | 989849 | 986089 | 988945 | 0.26 | cps |
| Iron | 57-2 | 21593 | 21887 | 21684 | 21721 | 0.69 | cps |
| Iron | 54-2 | 68505 | 68287 | 69405 | 68732 | 0.86 | cps |
| Krypton | 83-1 | 103 | 77 | 63 | 81 | 25.11 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-02DLX2 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-TM1-WPDL | Dilution Factor : | 2 |
| Date & Time Acquired : | 2024-10-17 18:45:08 | DataFile Name : | 033SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 1517086 | 1540903 | 1556373 | 1538120 | 1.29 | cps |
| Lead | 207-1 | 1267866 | 1291229 | 1295892 | 1284996 | 1.17 | cps |
| Lead | 208-1 | 6226185 | 6352429 | 6379331 | 6319315 | 1.29 | cps |
| Lithium | 6-1 | 803771 | 790617 | 799827 | 798072 | 0.85 | cps |
| Magnesium | 24-2 | 1640 | 1493 | 1567 | 1567 | 4.68 | cps |
| Manganese | 55-2 | 375708 | 376247 | 379192 | 377049 | 0.50 | cps |
| Molybdenum | 94-1 | 304101 | 307081 | 307555 | 306246 | 0.61 | cps |
| Molybdenum | 95-1 | 530834 | 533633 | 534387 | 532951 | 0.35 | cps |
| Molybdenum | 96-1 | 569811 | 575749 | 572699 | 572753 | 0.52 | cps |
| Molybdenum | 97-1 | 331287 | 337566 | 336372 | 335075 | 1.00 | cps |
| Molybdenum | 98-1 | 859939 | 868506 | 872717 | 867054 | 0.75 | cps |
| Neodymium | 150-1 | 47 | 30 | 30 | 36 | 27.07 | cps |
| Neodymium | 150-2 | 10 | 3 | 3 | 6 | 69.34 | cps |
| Nickel | 60-2 | 455625 | 453720 | 452005 | 453784 | 0.40 | cps |
| Phosphorus | 31-2 | 117 | 77 | 103 | 99 | 20.59 | cps |
| Potassium | 39-2 | 34449 | 34225 | 33911 | 34195 | 0.79 | cps |
| Rhodium | 103-1 | 2522971 | 2548973 | 2573220 | 2548388 | 0.99 | cps |
| Rhodium | 103-2 | 1448303 | 1419648 | 1445267 | 1437739 | 1.09 | cps |
| Scandium | 45-1 | 1491482 | 1512001 | 1523643 | 1509042 | 1.08 | cps |
| Scandium | 45-2 | 133212 | 131501 | 134225 | 132979 | 1.04 | cps |
| Selenium | 82-1 | 14127 | 14092 | 14279 | 14166 | 0.70 | cps |
| Selenium | 77-2 | 1407 | 1187 | 1193 | 1262 | 9.91 | cps |
| Selenium | 78-2 | 4394 | 4424 | 4431 | 4416 | 0.44 | cps |
| Silicon | 28-1 | 503892 | 503802 | 503730 | 503808 | 0.02 | cps |
| Silver | 107-1 | 1382890 | 1393138 | 1387941 | 1387990 | 0.37 | cps |
| Silver | 109-1 | 1318334 | 1322700 | 1323274 | 1321436 | 0.20 | cps |
| Sodium | 23-2 | 26803 | 26246 | 26206 | 26418 | 1.26 | cps |
| Strontium | 86-1 | 292252 | 293350 | 293701 | 293101 | 0.26 | cps |
| Strontium | 88-1 | 2592761 | 2585682 | 2600427 | 2592956 | 0.28 | cps |
| Sulfur | 34-1 | 122869 | 118229 | 117003 | 119367 | 2.59 | cps |
| Terbium | 159-1 | 3882295 | 3887740 | 3933688 | 3901241 | 0.72 | cps |
| Terbium | 159-2 | 2611662 | 2556920 | 2648984 | 2605856 | 1.78 | cps |
| Thallium | 203-1 | 820303 | 827684 | 833513 | 827166 | 0.80 | cps |
| Thallium | 205-1 | 2195038 | 2205719 | 2183861 | 2194873 | 0.50 | cps |
| Tin | 118-1 | 1655 | 1714 | 1737 | 1702 | 2.47 | cps |
| Titanium | 47-1 | 127 | 130 | 117 | 124 | 5.57 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-02DLX2 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-TM1-WPDL | Dilution Factor : | 2 |
| Date & Time Acquired : | 2024-10-17 18:45:08 | DataFile Name : | 033SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 23 | 7 | 23 | 18 | 54.11 | cps |
| Vanadium | 51-2 | 734925 | 740835 | 748137 | 741299 | 0.89 | cps |
| Yttrium | 89-1 | 4851785 | 4796048 | 4757853 | 4801895 | 0.98 | cps |
| Yttrium | 89-2 | 1189261 | 1182319 | 1191795 | 1187792 | 0.41 | cps |
| Zinc | 66-2 | 82047 | 80964 | 81075 | 81362 | 0.73 | cps |
| Zirconium | 90-1 | 1257 | 1333 | 1297 | 1296 | 2.96 | cps |
| Zirconium | 91-1 | 363 | 407 | 410 | 393 | 6.62 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-04DLX2 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-SNTI-WPDL | Dilution Factor : | 2 |
| Date & Time Acquired : | 2024-10-17 18:48:27 | DataFile Name : | 034SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 3764 | 3720 | 3510 | 3665 | 3.70 | cps |
| Antimony | 121-1 | 1010 | 963 | 1180 | 1051 | 10.85 | cps |
| Arsenic | 75-2 | 0 | 17 | 13 | 10 | 88.20 | cps |
| Barium | 135-1 | 150 | 167 | 157 | 158 | 5.32 | cps |
| Barium | 137-1 | 320 | 297 | 313 | 310 | 3.88 | cps |
| Beryllium | 9-1 | 193 | 143 | 123 | 153 | 23.52 | cps |
| Bismuth | 209-1 | 2415385 | 2366990 | 2420516 | 2400963 | 1.23 | cps |
| Bismuth | 209-2 | 1982754 | 1950970 | 2008252 | 1980659 | 1.45 | cps |
| Bromine | 81-1 | 6642 | 6375 | 6568 | 6528 | 2.11 | cps |
| Bromine | 81-2 | 50 | 67 | 70 | 62 | 17.22 | cps |
| Cadmium | 108-1 | 7 | 13 | 10 | 10 | 33.30 | cps |
| Cadmium | 106-1 | 1447 | 1417 | 1313 | 1392 | 5.02 | cps |
| Cadmium | 111-1 | 1021 | 999 | 926 | 982 | 5.10 | cps |
| Calcium | 43-1 | 237 | 153 | 200 | 197 | 21.24 | cps |
| Calcium | 44-1 | 4164 | 4081 | 3817 | 4021 | 4.50 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 327 | 197 | 250 | 258 | 25.35 | cps |
| Cobalt | 59-2 | 110 | 103 | 93 | 102 | 8.21 | cps |
| Copper | 63-2 | 847 | 747 | 803 | 799 | 6.28 | cps |
| Dysprosium | 156-1 | 20 | 13 | 27 | 20 | 33.35 | cps |
| Dysprosium | 156-2 | 7 | 3 | 0 | 3 | 100.05 | cps |
| Erbium | 164-1 | 30 | 10 | 17 | 19 | 53.91 | cps |
| Erbium | 164-2 | 23 | 3 | 13 | 13 | 75.02 | cps |
| Gadolinium | 160-1 | 13 | 20 | 7 | 13 | 49.99 | cps |
| Gadolinium | 160-2 | 87 | 127 | 97 | 103 | 20.14 | cps |
| Holmium | 165-1 | 3856826 | 3821846 | 3860620 | 3846430 | 0.56 | cps |
| Holmium | 165-2 | 2681535 | 2659822 | 2669525 | 2670294 | 0.41 | cps |
| Indium | 115-1 | 2896970 | 2922435 | 3005657 | 2941687 | 1.93 | cps |
| Indium | 115-2 | 928750 | 924130 | 917650 | 923510 | 0.60 | cps |
| Iron | 56-2 | 6001 | 5901 | 5921 | 5941 | 0.89 | cps |
| Iron | 57-2 | 525 | 575 | 599 | 566 | 6.64 | cps |
| Iron | 54-2 | 923 | 873 | 940 | 912 | 3.80 | cps |
| Krypton | 83-1 | 80 | 57 | 67 | 68 | 17.27 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-04DLX2 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-SNTI-WPDL | Dilution Factor : | 2 |
| Date & Time Acquired : | 2024-10-17 18:48:27 | DataFile Name : | 034SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 563 | 597 | 537 | 566 | 5.32 | cps |
| Lead | 207-1 | 510 | 450 | 487 | 482 | 6.27 | cps |
| Lead | 208-1 | 2490 | 2210 | 2170 | 2290 | 7.61 | cps |
| Lithium | 6-1 | 799762 | 793770 | 799552 | 797695 | 0.43 | cps |
| Magnesium | 24-2 | 1493 | 1593 | 1547 | 1545 | 3.24 | cps |
| Manganese | 55-2 | 183 | 183 | 160 | 176 | 7.68 | cps |
| Molybdenum | 94-1 | 2267 | 2107 | 2154 | 2176 | 3.78 | cps |
| Molybdenum | 95-1 | 83 | 137 | 133 | 118 | 25.37 | cps |
| Molybdenum | 96-1 | 513 | 470 | 413 | 466 | 10.77 | cps |
| Molybdenum | 97-1 | 80 | 87 | 90 | 86 | 5.95 | cps |
| Molybdenum | 98-1 | 210 | 153 | 233 | 199 | 20.68 | cps |
| Neodymium | 150-1 | 3 | 3 | 7 | 4 | 43.40 | cps |
| Neodymium | 150-2 | 3 | 10 | 0 | 4 | 114.60 | cps |
| Nickel | 60-2 | 143 | 83 | 113 | 113 | 26.48 | cps |
| Phosphorus | 31-2 | 113 | 80 | 87 | 93 | 18.90 | cps |
| Potassium | 39-2 | 34379 | 34372 | 34028 | 34260 | 0.59 | cps |
| Rhodium | 103-1 | 2633996 | 2635312 | 2651225 | 2640177 | 0.36 | cps |
| Rhodium | 103-2 | 1469260 | 1462845 | 1470465 | 1467523 | 0.28 | cps |
| Scandium | 45-1 | 1540082 | 1524012 | 1542378 | 1535490 | 0.65 | cps |
| Scandium | 45-2 | 136179 | 135802 | 134675 | 135552 | 0.58 | cps |
| Selenium | 82-1 | 103 | 93 | 116 | 104 | 11.28 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 90 | 97 | 93 | 93 | 3.57 | cps |
| Silicon | 28-1 | 2076032 | 2059354 | 2082085 | 2072490 | 0.57 | cps |
| Silver | 107-1 | 347 | 357 | 257 | 320 | 17.21 | cps |
| Silver | 109-1 | 410 | 257 | 237 | 301 | 31.49 | cps |
| Sodium | 23-2 | 41262 | 41255 | 41897 | 41471 | 0.89 | cps |
| Strontium | 86-1 | 213 | 183 | 233 | 210 | 11.98 | cps |
| Strontium | 88-1 | 477 | 483 | 480 | 480 | 0.69 | cps |
| Sulfur | 34-1 | 109747 | 107471 | 106011 | 107743 | 1.75 | cps |
| Terbium | 159-1 | 3932448 | 3977663 | 4059024 | 3989712 | 1.61 | cps |
| Terbium | 159-2 | 2646994 | 2675441 | 2614002 | 2645479 | 1.16 | cps |
| Thallium | 203-1 | 187 | 183 | 153 | 174 | 10.52 | cps |
| Thallium | 205-1 | 467 | 500 | 420 | 462 | 8.69 | cps |
| Tin | 118-1 | 2313159 | 2405372 | 2359437 | 2359322 | 1.95 | cps |
| Titanium | 47-1 | 23198 | 23201 | 23422 | 23274 | 0.55 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-04DLX2 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-SNTI-WPDL | Dilution Factor : | 2 |
| Date & Time Acquired : | 2024-10-17 18:48:27 | DataFile Name : | 034SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 23 | 23 | 7 | 18 | 54.11 | cps |
| Vanadium | 51-2 | 73 | 63 | 57 | 64 | 13.01 | cps |
| Yttrium | 89-1 | 4856953 | 4829451 | 4817241 | 4834548 | 0.42 | cps |
| Yttrium | 89-2 | 1230589 | 1216638 | 1209328 | 1218851 | 0.89 | cps |
| Zinc | 66-2 | 143 | 143 | 130 | 139 | 5.55 | cps |
| Zirconium | 90-1 | 5594 | 5721 | 5878 | 5731 | 2.48 | cps |
| Zirconium | 91-1 | 1277 | 1323 | 1250 | 1283 | 2.89 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-06DLX5 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-MIN2-WPDL | Dilution Factor : | 5 |
| Date & Time Acquired : | 2024-10-17 18:51:49 | DataFile Name : | 035SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 200 | 160 | 200 | 187 | 12.37 | cps |
| Antimony | 121-1 | 293 | 260 | 343 | 299 | 14.03 | cps |
| Arsenic | 75-2 | 0 | 7 | 7 | 4 | 86.60 | cps |
| Barium | 135-1 | 90 | 117 | 103 | 103 | 12.90 | cps |
| Barium | 137-1 | 183 | 213 | 207 | 201 | 7.83 | cps |
| Beryllium | 9-1 | 167 | 140 | 160 | 156 | 8.92 | cps |
| Bismuth | 209-1 | 2501894 | 2538138 | 2473538 | 2504523 | 1.29 | cps |
| Bismuth | 209-2 | 2003060 | 1993138 | 1985062 | 1993753 | 0.45 | cps |
| Bromine | 81-1 | 7312 | 7509 | 6868 | 7230 | 4.54 | cps |
| Bromine | 81-2 | 143 | 103 | 113 | 120 | 17.35 | cps |
| Cadmium | 108-1 | 0 | 3 | 10 | 4 | 114.60 | cps |
| Cadmium | 106-1 | 1420 | 1593 | 1223 | 1412 | 13.11 | cps |
| Cadmium | 111-1 | 997 | 1120 | 856 | 991 | 13.31 | cps |
| Calcium | 43-1 | 162243 | 161461 | 160960 | 161555 | 0.40 | cps |
| Calcium | 44-1 | 2409219 | 2428549 | 2441706 | 2426492 | 0.67 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 153 | 150 | 187 | 163 | 12.41 | cps |
| Cobalt | 59-2 | 60 | 67 | 47 | 58 | 17.62 | cps |
| Copper | 63-2 | 530 | 617 | 597 | 581 | 7.81 | cps |
| Dysprosium | 156-1 | 13 | 7 | 7 | 9 | 43.25 | cps |
| Dysprosium | 156-2 | 3 | 7 | 0 | 3 | 100.05 | cps |
| Erbium | 164-1 | 13 | 10 | 10 | 11 | 17.30 | cps |
| Erbium | 164-2 | 7 | 3 | 10 | 7 | 50.03 | cps |
| Gadolinium | 160-1 | 10 | 23 | 7 | 13 | 66.12 | cps |
| Gadolinium | 160-2 | 137 | 140 | 93 | 123 | 21.11 | cps |
| Holmium | 165-1 | 4018690 | 4030147 | 3965485 | 4004774 | 0.86 | cps |
| Holmium | 165-2 | 2756205 | 2776869 | 2709062 | 2747379 | 1.27 | cps |
| Indium | 115-1 | 3091543 | 3075746 | 3054219 | 3073836 | 0.61 | cps |
| Indium | 115-2 | 962208 | 964398 | 945273 | 957293 | 1.09 | cps |
| Iron | 56-2 | 5241 | 5204 | 5081 | 5175 | 1.62 | cps |
| Iron | 57-2 | 3089 | 2926 | 2950 | 2988 | 2.96 | cps |
| Iron | 54-2 | 670 | 837 | 717 | 741 | 11.60 | cps |
| Krypton | 83-1 | 83 | 97 | 67 | 82 | 18.28 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-06DLX5 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-MIN2-WPDL | Dilution Factor : | 5 |
| Date & Time Acquired : | 2024-10-17 18:51:49 | DataFile Name : | 035SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 533 | 383 | 360 | 426 | 22.10 | cps |
| Lead | 207-1 | 423 | 377 | 387 | 396 | 6.21 | cps |
| Lead | 208-1 | 1993 | 1727 | 1680 | 1800 | 9.39 | cps |
| Lithium | 6-1 | 822219 | 816328 | 811309 | 816619 | 0.67 | cps |
| Magnesium | 24-2 | 933147 | 929646 | 924059 | 928951 | 0.49 | cps |
| Manganese | 55-2 | 137 | 137 | 113 | 129 | 10.45 | cps |
| Molybdenum | 94-1 | 273 | 307 | 303 | 294 | 6.23 | cps |
| Molybdenum | 95-1 | 350 | 373 | 350 | 358 | 3.76 | cps |
| Molybdenum | 96-1 | 397 | 447 | 457 | 433 | 7.42 | cps |
| Molybdenum | 97-1 | 187 | 263 | 270 | 240 | 19.29 | cps |
| Molybdenum | 98-1 | 587 | 617 | 563 | 589 | 4.54 | cps |
| Neodymium | 150-1 | 7 | 7 | 10 | 8 | 24.71 | cps |
| Neodymium | 150-2 | 0 | 3 | 3 | 2 | 86.60 | cps |
| Nickel | 60-2 | 47 | 70 | 63 | 60 | 20.03 | cps |
| Phosphorus | 31-2 | 100 | 103 | 103 | 102 | 1.88 | cps |
| Potassium | 39-2 | 892622 | 887332 | 883148 | 887701 | 0.53 | cps |
| Rhodium | 103-1 | 2688455 | 2699789 | 2650032 | 2679426 | 0.97 | cps |
| Rhodium | 103-2 | 1481748 | 1496825 | 1477380 | 1485317 | 0.69 | cps |
| Scandium | 45-1 | 1607386 | 1602013 | 1579633 | 1596344 | 0.92 | cps |
| Scandium | 45-2 | 140252 | 139310 | 138109 | 139224 | 0.77 | cps |
| Selenium | 82-1 | 123 | 86 | 96 | 102 | 18.67 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 93 | 127 | 110 | 110 | 15.15 | cps |
| Silicon | 28-1 | 171450 | 169695 | 172411 | 171186 | 0.80 | cps |
| Silver | 107-1 | 110 | 97 | 70 | 92 | 22.08 | cps |
| Silver | 109-1 | 73 | 87 | 57 | 72 | 20.81 | cps |
| Sodium | 23-2 | 4403768 | 4414135 | 4389703 | 4402535 | 0.28 | cps |
| Strontium | 86-1 | 2174 | 2060 | 2044 | 2092 | 3.38 | cps |
| Strontium | 88-1 | 16753 | 16373 | 16259 | 16462 | 1.57 | cps |
| Sulfur | 34-1 | 112695 | 114716 | 115694 | 114368 | 1.34 | cps |
| Terbium | 159-1 | 4159988 | 4138263 | 4107994 | 4135415 | 0.63 | cps |
| Terbium | 159-2 | 2716375 | 2695401 | 2649003 | 2686926 | 1.28 | cps |
| Thallium | 203-1 | 150 | 160 | 120 | 143 | 14.52 | cps |
| Thallium | 205-1 | 333 | 340 | 317 | 330 | 3.64 | cps |
| Tin | 118-1 | 1287 | 1330 | 1437 | 1351 | 5.71 | cps |
| Titanium | 47-1 | 40 | 53 | 80 | 58 | 35.25 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3847-06DLX5 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-MIN2-WPDL | Dilution Factor : | 5 |
| Date & Time Acquired : | 2024-10-17 18:51:49 | DataFile Name : | 035SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 3 | 10 | 3 | 6 | 69.34 | cps |
| Vanadium | 51-2 | 10 | 20 | 13 | 14 | 35.26 | cps |
| Yttrium | 89-1 | 5083306 | 5065814 | 5060043 | 5069721 | 0.24 | cps |
| Yttrium | 89-2 | 1247721 | 1244827 | 1229377 | 1240642 | 0.79 | cps |
| Zinc | 66-2 | 90 | 133 | 70 | 98 | 33.11 | cps |
| Zirconium | 90-1 | 217 | 197 | 157 | 190 | 16.08 | cps |
| Zirconium | 91-1 | 23 | 50 | 30 | 34 | 40.30 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCV02 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:55:08 | DataFile Name : | 036CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 4258921 | 4293810 | 4304473 | 4285734 | 0.56 | cps |
| Antimony | 121-1 | 1901929 | 1943002 | 1965068 | 1936666 | 1.65 | cps |
| Arsenic | 75-2 | 82796 | 82041 | 81864 | 82234 | 0.60 | cps |
| Barium | 135-1 | 2665213 | 2653274 | 2717632 | 2678706 | 1.28 | cps |
| Barium | 137-1 | 4538833 | 4578502 | 4618742 | 4578692 | 0.87 | cps |
| Beryllium | 9-1 | 367265 | 368254 | 373075 | 369531 | 0.84 | cps |
| Bismuth | 209-1 | 2181523 | 2168332 | 2156435 | 2168763 | 0.58 | cps |
| Bismuth | 209-2 | 1573392 | 1575058 | 1586034 | 1578161 | 0.44 | cps |
| Bromine | 81-1 | 6318 | 6415 | 5945 | 6226 | 3.99 | cps |
| Bromine | 81-2 | 43 | 47 | 37 | 42 | 12.06 | cps |
| Cadmium | 108-1 | 33786 | 34444 | 34180 | 34137 | 0.97 | cps |
| Cadmium | 106-1 | 49410 | 50223 | 49675 | 49769 | 0.83 | cps |
| Cadmium | 111-1 | 440319 | 448868 | 449870 | 446352 | 1.18 | cps |
| Calcium | 43-1 | 2499790 | 2495616 | 2545542 | 2513650 | 1.10 | cps |
| Calcium | 44-1 | 39194408 | 39573685 | 39633943 | 39467345 | 0.60 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 680421 | 667779 | 670339 | 672846 | 0.99 | cps |
| Cobalt | 59-2 | 1076685 | 1075319 | 1065284 | 1072429 | 0.58 | cps |
| Copper | 63-2 | 7400722 | 7213588 | 7314473 | 7309594 | 1.28 | cps |
| Dysprosium | 156-1 | 157 | 133 | 147 | 146 | 8.04 | cps |
| Dysprosium | 156-2 | 157 | 157 | 183 | 166 | 9.30 | cps |
| Erbium | 164-1 | 120 | 103 | 120 | 114 | 8.41 | cps |
| Erbium | 164-2 | 70 | 73 | 97 | 80 | 18.17 | cps |
| Gadolinium | 160-1 | 87 | 77 | 80 | 81 | 6.28 | cps |
| Gadolinium | 160-2 | 123 | 183 | 183 | 163 | 21.21 | cps |
| Holmium | 165-1 | 3828422 | 3691073 | 3736901 | 3752132 | 1.86 | cps |
| Holmium | 165-2 | 2615253 | 2568186 | 2577203 | 2586881 | 0.97 | cps |
| Indium | 115-1 | 2709938 | 2667243 | 2670507 | 2682563 | 0.89 | cps |
| Indium | 115-2 | 842411 | 840112 | 841692 | 841405 | 0.14 | cps |
| Iron | 56-2 | 148313384 | 148532891 | 148408191 | 148418156 | 0.07 | cps |
| Iron | 57-2 | 3697361 | 3695358 | 3697731 | 3696817 | 0.03 | cps |
| Iron | 54-2 | 8096404 | 8060532 | 8110978 | 8089305 | 0.32 | cps |
| Krypton | 83-1 | 53 | 77 | 90 | 73 | 25.31 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCV02 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:55:08 | DataFile Name : | 036CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 7720386 | 7841793 | 7917202 | 7826461 | 1.27 | cps |
| Lead | 207-1 | 6711312 | 6867756 | 6914077 | 6831048 | 1.56 | cps |
| Lead | 208-1 | 30623618 | 31252509 | 31711158 | 31195762 | 1.75 | cps |
| Lithium | 6-1 | 753234 | 742368 | 736345 | 743982 | 1.15 | cps |
| Magnesium | 24-2 | 36060128 | 35951614 | 36065321 | 36025688 | 0.18 | cps |
| Manganese | 55-2 | 5146567 | 5165046 | 5178341 | 5163318 | 0.31 | cps |
| Molybdenum | 94-1 | 6947886 | 6940051 | 6961811 | 6949916 | 0.16 | cps |
| Molybdenum | 95-1 | 10153441 | 10240078 | 10091487 | 10161669 | 0.73 | cps |
| Molybdenum | 96-1 | 10999372 | 11255858 | 11108462 | 11121231 | 1.16 | cps |
| Molybdenum | 97-1 | 6324643 | 6416928 | 6426119 | 6389230 | 0.88 | cps |
| Molybdenum | 98-1 | 16335100 | 16507444 | 16545948 | 16462831 | 0.68 | cps |
| Neodymium | 150-1 | 263 | 263 | 260 | 262 | 0.74 | cps |
| Neodymium | 150-2 | 80 | 93 | 93 | 89 | 8.66 | cps |
| Nickel | 60-2 | 260580 | 260265 | 258560 | 259802 | 0.42 | cps |
| Phosphorus | 31-2 | 41743 | 41001 | 40580 | 41108 | 1.43 | cps |
| Potassium | 39-2 | 20736696 | 20773017 | 20815437 | 20775050 | 0.19 | cps |
| Rhodium | 103-1 | 2345521 | 2323208 | 2238295 | 2302341 | 2.46 | cps |
| Rhodium | 103-2 | 1262458 | 1282568 | 1269933 | 1271653 | 0.80 | cps |
| Scandium | 45-1 | 1490002 | 1458761 | 1402578 | 1450447 | 3.05 | cps |
| Scandium | 45-2 | 128917 | 129494 | 128214 | 128875 | 0.50 | cps |
| Selenium | 82-1 | 25225 | 25843 | 25788 | 25619 | 1.34 | cps |
| Selenium | 77-2 | 2360 | 2307 | 2424 | 2364 | 2.47 | cps |
| Selenium | 78-2 | 8232 | 8139 | 8206 | 8192 | 0.59 | cps |
| Silicon | 28-1 | 1135013 | 1142316 | 1155513 | 1144281 | 0.91 | cps |
| Silver | 107-1 | 2141322 | 2145462 | 2176003 | 2154262 | 0.88 | cps |
| Silver | 109-1 | 2047768 | 2101271 | 2057787 | 2068942 | 1.37 | cps |
| Sodium | 23-2 | 58688136 | 58608074 | 57647721 | 58314644 | 0.99 | cps |
| Strontium | 86-1 | 14996733 | 15060326 | 15362226 | 15139762 | 1.29 | cps |
| Strontium | 88-1 | 131086291 | 132858035 | 133253525 | 132399284 | 0.87 | cps |
| Sulfur | 34-1 | 253746 | 256715 | 256186 | 255549 | 0.62 | cps |
| Terbium | 159-1 | 3899194 | 3822471 | 3791790 | 3837818 | 1.44 | cps |
| Terbium | 159-2 | 2558895 | 2550574 | 2538237 | 2549235 | 0.41 | cps |
| Thallium | 203-1 | 1886339 | 1958768 | 1975862 | 1940323 | 2.45 | cps |
| Thallium | 205-1 | 4627639 | 4629881 | 4728957 | 4662159 | 1.24 | cps |
| Tin | 118-1 | 1725129 | 1723220 | 1729762 | 1726037 | 0.19 | cps |
| Titanium | 47-1 | 2407327 | 2410444 | 2422034 | 2413268 | 0.32 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCV02 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:55:08 | DataFile Name : | 036CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 6299175 | 6454416 | 6442738 | 6398776 | 1.35 | cps |
| Vanadium | 51-2 | 620081 | 616092 | 616705 | 617626 | 0.35 | cps |
| Yttrium | 89-1 | 4694030 | 4651531 | 4640967 | 4662176 | 0.60 | cps |
| Yttrium | 89-2 | 1137748 | 1142996 | 1131986 | 1137577 | 0.48 | cps |
| Zinc | 66-2 | 1212561 | 1210857 | 1206034 | 1209817 | 0.28 | cps |
| Zirconium | 90-1 | 3124636 | 3175099 | 3194625 | 3164787 | 1.14 | cps |
| Zirconium | 91-1 | 701564 | 705997 | 707558 | 705040 | 0.44 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCB02 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:58:04 | DataFile Name : | 037CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 170 | 213 | 163 | 182 | 14.90 | cps |
| Antimony | 121-1 | 1493 | 1450 | 1807 | 1583 | 12.29 | cps |
| Arsenic | 75-2 | 13 | 20 | 13 | 16 | 24.76 | cps |
| Barium | 135-1 | 170 | 110 | 77 | 119 | 39.78 | cps |
| Barium | 137-1 | 303 | 170 | 190 | 221 | 32.52 | cps |
| Beryllium | 9-1 | 310 | 300 | 233 | 281 | 14.83 | cps |
| Bismuth | 209-1 | 2396857 | 2427638 | 2460395 | 2428297 | 1.31 | cps |
| Bismuth | 209-2 | 1967148 | 1658240 | 1986908 | 1870765 | 9.85 | cps |
| Bromine | 81-1 | 6558 | 6845 | 6325 | 6576 | 3.96 | cps |
| Bromine | 81-2 | 30 | 30 | 27 | 29 | 6.65 | cps |
| Cadmium | 108-1 | 10 | 3 | 10 | 8 | 49.52 | cps |
| Cadmium | 106-1 | 1487 | 1280 | 1550 | 1439 | 9.81 | cps |
| Cadmium | 111-1 | 1050 | 930 | 1118 | 1033 | 9.20 | cps |
| Calcium | 43-1 | 227 | 237 | 200 | 221 | 8.57 | cps |
| Calcium | 44-1 | 4721 | 4024 | 3671 | 4138 | 12.91 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 253 | 203 | 203 | 220 | 13.12 | cps |
| Cobalt | 59-2 | 97 | 97 | 103 | 99 | 3.89 | cps |
| Copper | 63-2 | 917 | 930 | 1053 | 967 | 7.80 | cps |
| Dysprosium | 156-1 | 0 | 0 | 17 | 6 | 173.21 | cps |
| Dysprosium | 156-2 | 0 | 0 | 3 | 1 | 173.21 | cps |
| Erbium | 164-1 | 7 | 13 | 3 | 8 | 65.47 | cps |
| Erbium | 164-2 | 13 | 7 | 33 | 18 | 78.05 | cps |
| Gadolinium | 160-1 | 13 | 7 | 13 | 11 | 34.61 | cps |
| Gadolinium | 160-2 | 117 | 97 | 133 | 116 | 15.89 | cps |
| Holmium | 165-1 | 3841061 | 3921564 | 3792946 | 3851857 | 1.69 | cps |
| Holmium | 165-2 | 2688607 | 2280469 | 2679476 | 2549517 | 9.14 | cps |
| Indium | 115-1 | 2906286 | 2997859 | 2885156 | 2929767 | 2.04 | cps |
| Indium | 115-2 | 925445 | 785238 | 929733 | 880139 | 9.34 | cps |
| Iron | 56-2 | 11221 | 10701 | 11314 | 11079 | 2.99 | cps |
| Iron | 57-2 | 645 | 575 | 648 | 623 | 6.64 | cps |
| Iron | 54-2 | 1110 | 1090 | 1200 | 1133 | 5.17 | cps |
| Krypton | 83-1 | 47 | 53 | 73 | 58 | 24.02 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCB02 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:58:04 | DataFile Name : | 037CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 977 | 903 | 730 | 870 | 14.56 | cps |
| Lead | 207-1 | 793 | 693 | 660 | 716 | 9.70 | cps |
| Lead | 208-1 | 4037 | 3377 | 3117 | 3510 | 13.51 | cps |
| Lithium | 6-1 | 786376 | 800725 | 787983 | 791695 | 0.99 | cps |
| Magnesium | 24-2 | 2547 | 2524 | 2694 | 2588 | 3.56 | cps |
| Manganese | 55-2 | 300 | 290 | 317 | 302 | 4.46 | cps |
| Molybdenum | 94-1 | 963 | 767 | 717 | 816 | 15.99 | cps |
| Molybdenum | 95-1 | 917 | 813 | 643 | 791 | 17.45 | cps |
| Molybdenum | 96-1 | 1113 | 860 | 843 | 939 | 16.12 | cps |
| Molybdenum | 97-1 | 483 | 470 | 400 | 451 | 9.92 | cps |
| Molybdenum | 98-1 | 1413 | 1217 | 997 | 1209 | 17.24 | cps |
| Neodymium | 150-1 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Neodymium | 150-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Nickel | 60-2 | 60 | 43 | 40 | 48 | 22.43 | cps |
| Phosphorus | 31-2 | 107 | 107 | 83 | 99 | 13.63 | cps |
| Potassium | 39-2 | 36397 | 36006 | 36360 | 36254 | 0.60 | cps |
| Rhodium | 103-1 | 2559272 | 2579097 | 2544920 | 2561096 | 0.67 | cps |
| Rhodium | 103-2 | 1430102 | 1223627 | 1454850 | 1369527 | 9.27 | cps |
| Scandium | 45-1 | 1504021 | 1552429 | 1527207 | 1527886 | 1.58 | cps |
| Scandium | 45-2 | 133572 | 113342 | 136743 | 127886 | 9.93 | cps |
| Selenium | 82-1 | 99 | 117 | 97 | 104 | 10.56 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 123 | 107 | 90 | 107 | 15.63 | cps |
| Silicon | 28-1 | 174162 | 175917 | 176521 | 175533 | 0.70 | cps |
| Silver | 107-1 | 407 | 330 | 253 | 330 | 23.23 | cps |
| Silver | 109-1 | 270 | 233 | 187 | 230 | 18.16 | cps |
| Sodium | 23-2 | 22406 | 22286 | 21992 | 22228 | 0.96 | cps |
| Strontium | 86-1 | 950 | 687 | 560 | 732 | 27.17 | cps |
| Strontium | 88-1 | 6902 | 5084 | 4181 | 5389 | 25.72 | cps |
| Sulfur | 34-1 | 115952 | 116332 | 115573 | 115952 | 0.33 | cps |
| Terbium | 159-1 | 3860758 | 3957816 | 3923623 | 3914066 | 1.26 | cps |
| Terbium | 159-2 | 2589029 | 2210691 | 2645247 | 2481656 | 9.52 | cps |
| Thallium | 203-1 | 330 | 333 | 283 | 316 | 8.86 | cps |
| Thallium | 205-1 | 827 | 713 | 550 | 697 | 19.96 | cps |
| Tin | 118-1 | 1118 | 1394 | 1378 | 1297 | 11.95 | cps |
| Titanium | 47-1 | 227 | 160 | 160 | 182 | 21.12 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCB02 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 18:58:04 | DataFile Name : | 037CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 343 | 280 | 177 | 267 | 31.55 | cps |
| Vanadium | 51-2 | 23 | 17 | 37 | 26 | 39.85 | cps |
| Yttrium | 89-1 | 4762597 | 4891953 | 4804313 | 4819621 | 1.37 | cps |
| Yttrium | 89-2 | 1194942 | 1006632 | 1196013 | 1132529 | 9.63 | cps |
| Zinc | 66-2 | 183 | 157 | 157 | 166 | 9.30 | cps |
| Zirconium | 90-1 | 907 | 873 | 823 | 868 | 4.83 | cps |
| Zirconium | 91-1 | 200 | 213 | 203 | 206 | 3.38 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-02DLX2 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-TM1-WPDL | Dilution Factor : | 2 |
| Date & Time Acquired : | 2024-10-17 19:01:26 | DataFile Name : | 038SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 120817 | 121842 | 120511 | 121057 | 0.58 | cps |
| Antimony | 121-1 | 1648356 | 1671927 | 1674773 | 1665019 | 0.87 | cps |
| Arsenic | 75-2 | 53506 | 52867 | 52934 | 53102 | 0.66 | cps |
| Barium | 135-1 | 343582 | 344824 | 347351 | 345252 | 0.56 | cps |
| Barium | 137-1 | 593074 | 599528 | 602181 | 598261 | 0.78 | cps |
| Beryllium | 9-1 | 121880 | 123828 | 124973 | 123560 | 1.27 | cps |
| Bismuth | 209-1 | 2475032 | 2504573 | 2488838 | 2489481 | 0.59 | cps |
| Bismuth | 209-2 | 2036381 | 1968359 | 2040996 | 2015245 | 2.02 | cps |
| Bromine | 81-1 | 6518 | 6582 | 6358 | 6486 | 1.78 | cps |
| Bromine | 81-2 | 30 | 47 | 43 | 40 | 22.05 | cps |
| Cadmium | 108-1 | 13179 | 13516 | 13280 | 13325 | 1.30 | cps |
| Cadmium | 106-1 | 19630 | 19443 | 19847 | 19640 | 1.03 | cps |
| Cadmium | 111-1 | 202984 | 204911 | 205035 | 204310 | 0.56 | cps |
| Calcium | 43-1 | 1567 | 1140 | 1213 | 1307 | 17.47 | cps |
| Calcium | 44-1 | 16733 | 10664 | 10344 | 12580 | 28.62 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 437686 | 441637 | 438308 | 439210 | 0.48 | cps |
| Cobalt | 59-2 | 210038 | 207805 | 207319 | 208387 | 0.70 | cps |
| Copper | 63-2 | 531798 | 532032 | 527804 | 530544 | 0.45 | cps |
| Dysprosium | 156-1 | 7 | 13 | 20 | 13 | 49.99 | cps |
| Dysprosium | 156-2 | 23 | 7 | 10 | 13 | 66.12 | cps |
| Erbium | 164-1 | 17 | 27 | 17 | 20 | 28.86 | cps |
| Erbium | 164-2 | 13 | 7 | 10 | 10 | 33.30 | cps |
| Gadolinium | 160-1 | 7 | 10 | 13 | 10 | 33.30 | cps |
| Gadolinium | 160-2 | 113 | 127 | 127 | 122 | 6.30 | cps |
| Holmium | 165-1 | 3916360 | 3896077 | 3858008 | 3890148 | 0.76 | cps |
| Holmium | 165-2 | 2728106 | 2633240 | 2774829 | 2712059 | 2.66 | cps |
| Indium | 115-1 | 2994935 | 2973596 | 3000369 | 2989633 | 0.47 | cps |
| Indium | 115-2 | 953588 | 922347 | 969116 | 948350 | 2.51 | cps |
| Iron | 56-2 | 1009810 | 1018560 | 1000406 | 1009592 | 0.90 | cps |
| Iron | 57-2 | 22732 | 21650 | 21380 | 21921 | 3.26 | cps |
| Iron | 54-2 | 69868 | 69536 | 68093 | 69166 | 1.36 | cps |
| Krypton | 83-1 | 97 | 60 | 87 | 81 | 23.37 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-02DLX2 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-TM1-WPDL | Dilution Factor : | 2 |
| Date & Time Acquired : | 2024-10-17 19:01:26 | DataFile Name : | 038SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 1564096 | 1580186 | 1573104 | 1572462 | 0.51 | cps |
| Lead | 207-1 | 1311967 | 1318882 | 1323541 | 1318130 | 0.44 | cps |
| Lead | 208-1 | 6476199 | 6559155 | 6458198 | 6497851 | 0.83 | cps |
| Lithium | 6-1 | 809898 | 808704 | 809032 | 809211 | 0.08 | cps |
| Magnesium | 24-2 | 1603 | 1653 | 1430 | 1562 | 7.50 | cps |
| Manganese | 55-2 | 379833 | 383406 | 382753 | 381997 | 0.50 | cps |
| Molybdenum | 94-1 | 307019 | 313114 | 314007 | 311380 | 1.22 | cps |
| Molybdenum | 95-1 | 541279 | 548345 | 545597 | 545074 | 0.65 | cps |
| Molybdenum | 96-1 | 583070 | 589558 | 584969 | 585865 | 0.57 | cps |
| Molybdenum | 97-1 | 343363 | 346667 | 345459 | 345163 | 0.48 | cps |
| Molybdenum | 98-1 | 869406 | 885937 | 880630 | 878658 | 0.96 | cps |
| Neodymium | 150-1 | 30 | 27 | 23 | 27 | 12.51 | cps |
| Neodymium | 150-2 | 3 | 3 | 7 | 4 | 43.40 | cps |
| Nickel | 60-2 | 460275 | 463020 | 460651 | 461315 | 0.32 | cps |
| Phosphorus | 31-2 | 160 | 150 | 127 | 146 | 11.75 | cps |
| Potassium | 39-2 | 34710 | 33861 | 34182 | 34251 | 1.25 | cps |
| Rhodium | 103-1 | 2637294 | 2645856 | 2627662 | 2636937 | 0.35 | cps |
| Rhodium | 103-2 | 1484677 | 1446729 | 1504939 | 1478781 | 2.00 | cps |
| Scandium | 45-1 | 1554716 | 1557452 | 1537129 | 1549766 | 0.71 | cps |
| Scandium | 45-2 | 137925 | 132646 | 139421 | 136664 | 2.60 | cps |
| Selenium | 82-1 | 14299 | 14578 | 14163 | 14347 | 1.47 | cps |
| Selenium | 77-2 | 1263 | 1463 | 1453 | 1393 | 8.09 | cps |
| Selenium | 78-2 | 4517 | 4781 | 4627 | 4642 | 2.85 | cps |
| Silicon | 28-1 | 500415 | 508142 | 508477 | 505678 | 0.90 | cps |
| Silver | 107-1 | 1409726 | 1427204 | 1427514 | 1421481 | 0.72 | cps |
| Silver | 109-1 | 1338378 | 1356561 | 1350218 | 1348386 | 0.68 | cps |
| Sodium | 23-2 | 23445 | 23104 | 22697 | 23082 | 1.62 | cps |
| Strontium | 86-1 | 297436 | 302319 | 299751 | 299836 | 0.81 | cps |
| Strontium | 88-1 | 2610995 | 2663417 | 2677189 | 2650534 | 1.32 | cps |
| Sulfur | 34-1 | 114478 | 111997 | 109794 | 112090 | 2.09 | cps |
| Terbium | 159-1 | 4044228 | 3999369 | 3992798 | 4012132 | 0.70 | cps |
| Terbium | 159-2 | 2648289 | 2619479 | 2723040 | 2663603 | 2.01 | cps |
| Thallium | 203-1 | 841663 | 852635 | 845438 | 846578 | 0.66 | cps |
| Thallium | 205-1 | 2249382 | 2265733 | 2219169 | 2244761 | 1.05 | cps |
| Tin | 118-1 | 1559 | 1529 | 1625 | 1571 | 3.13 | cps |
| Titanium | 47-1 | 397 | 157 | 140 | 231 | 62.15 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-02DLX2 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-TM1-WPDL | Dilution Factor : | 2 |
| Date & Time Acquired : | 2024-10-17 19:01:26 | DataFile Name : | 038SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 57 | 27 | 37 | 40 | 38.18 | cps |
| Vanadium | 51-2 | 748044 | 758489 | 754867 | 753800 | 0.70 | cps |
| Yttrium | 89-1 | 4941462 | 4874705 | 4965328 | 4927165 | 0.95 | cps |
| Yttrium | 89-2 | 1238420 | 1197825 | 1259298 | 1231848 | 2.54 | cps |
| Zinc | 66-2 | 83371 | 84128 | 83039 | 83513 | 0.67 | cps |
| Zirconium | 90-1 | 1767 | 1717 | 1703 | 1729 | 1.93 | cps |
| Zirconium | 91-1 | 457 | 433 | 503 | 464 | 7.67 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-04DLX2 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-SNTI-WPDL | Dilution Factor : | 2 |
| Date & Time Acquired : | 2024-10-17 19:04:46 | DataFile Name : | 039SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 3530 | 3514 | 3590 | 3545 | 1.14 | cps |
| Antimony | 121-1 | 1020 | 1043 | 1130 | 1064 | 5.45 | cps |
| Arsenic | 75-2 | 7 | 23 | 3 | 11 | 96.43 | cps |
| Barium | 135-1 | 160 | 200 | 167 | 176 | 12.21 | cps |
| Barium | 137-1 | 243 | 303 | 300 | 282 | 11.95 | cps |
| Beryllium | 9-1 | 207 | 187 | 140 | 178 | 19.24 | cps |
| Bismuth | 209-1 | 2438584 | 2456093 | 2437831 | 2444169 | 0.42 | cps |
| Bismuth | 209-2 | 1964791 | 1971889 | 1994910 | 1977197 | 0.80 | cps |
| Bromine | 81-1 | 6391 | 6101 | 6565 | 6353 | 3.69 | cps |
| Bromine | 81-2 | 37 | 60 | 80 | 59 | 36.83 | cps |
| Cadmium | 108-1 | 3 | 10 | 0 | 4 | 114.60 | cps |
| Cadmium | 106-1 | 1393 | 1353 | 1323 | 1357 | 2.59 | cps |
| Cadmium | 111-1 | 993 | 957 | 940 | 963 | 2.82 | cps |
| Calcium | 43-1 | 170 | 177 | 217 | 188 | 13.44 | cps |
| Calcium | 44-1 | 3997 | 4081 | 3931 | 4003 | 1.88 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 243 | 253 | 217 | 238 | 7.97 | cps |
| Cobalt | 59-2 | 97 | 80 | 90 | 89 | 9.44 | cps |
| Copper | 63-2 | 660 | 707 | 860 | 742 | 14.10 | cps |
| Dysprosium | 156-1 | 10 | 3 | 7 | 7 | 50.03 | cps |
| Dysprosium | 156-2 | 13 | 7 | 10 | 10 | 33.30 | cps |
| Erbium | 164-1 | 20 | 30 | 27 | 26 | 19.92 | cps |
| Erbium | 164-2 | 27 | 13 | 17 | 19 | 36.75 | cps |
| Gadolinium | 160-1 | 30 | 13 | 20 | 21 | 39.75 | cps |
| Gadolinium | 160-2 | 127 | 117 | 113 | 119 | 5.84 | cps |
| Holmium | 165-1 | 3867730 | 3861115 | 3854348 | 3861064 | 0.17 | cps |
| Holmium | 165-2 | 2686282 | 2691028 | 2660814 | 2679375 | 0.61 | cps |
| Indium | 115-1 | 3045615 | 2916425 | 2973709 | 2978583 | 2.17 | cps |
| Indium | 115-2 | 927411 | 924033 | 930247 | 927230 | 0.34 | cps |
| Iron | 56-2 | 6428 | 6712 | 6618 | 6586 | 2.19 | cps |
| Iron | 57-2 | 515 | 542 | 612 | 556 | 8.98 | cps |
| Iron | 54-2 | 840 | 910 | 957 | 902 | 6.51 | cps |
| Krypton | 83-1 | 87 | 80 | 83 | 83 | 4.00 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-04DLX2 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-SNTI-WPDL | Dilution Factor : | 2 |
| Date & Time Acquired : | 2024-10-17 19:04:46 | DataFile Name : | 039SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 637 | 643 | 700 | 660 | 5.27 | cps |
| Lead | 207-1 | 583 | 483 | 480 | 516 | 11.39 | cps |
| Lead | 208-1 | 2527 | 2397 | 2507 | 2477 | 2.83 | cps |
| Lithium | 6-1 | 813702 | 811467 | 809869 | 811679 | 0.24 | cps |
| Magnesium | 24-2 | 1600 | 1503 | 1613 | 1572 | 3.82 | cps |
| Manganese | 55-2 | 143 | 180 | 167 | 163 | 11.36 | cps |
| Molybdenum | 94-1 | 2347 | 2194 | 2257 | 2266 | 3.40 | cps |
| Molybdenum | 95-1 | 177 | 137 | 150 | 154 | 13.19 | cps |
| Molybdenum | 96-1 | 500 | 580 | 563 | 548 | 7.71 | cps |
| Molybdenum | 97-1 | 83 | 70 | 87 | 80 | 11.02 | cps |
| Molybdenum | 98-1 | 197 | 260 | 227 | 228 | 13.91 | cps |
| Neodymium | 150-1 | 7 | 7 | 17 | 10 | 57.72 | cps |
| Neodymium | 150-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Nickel | 60-2 | 137 | 150 | 103 | 130 | 18.49 | cps |
| Phosphorus | 31-2 | 137 | 93 | 110 | 113 | 19.29 | cps |
| Potassium | 39-2 | 34055 | 34476 | 34122 | 34217 | 0.66 | cps |
| Rhodium | 103-1 | 2623679 | 2630732 | 2656313 | 2636908 | 0.65 | cps |
| Rhodium | 103-2 | 1485815 | 1467494 | 1469566 | 1474291 | 0.68 | cps |
| Scandium | 45-1 | 1557959 | 1527710 | 1575035 | 1553568 | 1.54 | cps |
| Scandium | 45-2 | 138560 | 134732 | 136639 | 136644 | 1.40 | cps |
| Selenium | 82-1 | 95 | 129 | 107 | 110 | 15.58 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 117 | 107 | 127 | 117 | 8.57 | cps |
| Silicon | 28-1 | 2084951 | 2106323 | 2116535 | 2102603 | 0.77 | cps |
| Silver | 107-1 | 400 | 333 | 273 | 336 | 18.88 | cps |
| Silver | 109-1 | 400 | 240 | 230 | 290 | 32.89 | cps |
| Sodium | 23-2 | 41148 | 41078 | 40483 | 40903 | 0.89 | cps |
| Strontium | 86-1 | 203 | 180 | 180 | 188 | 7.18 | cps |
| Strontium | 88-1 | 800 | 613 | 630 | 681 | 15.17 | cps |
| Sulfur | 34-1 | 108035 | 108874 | 108294 | 108401 | 0.40 | cps |
| Terbium | 159-1 | 4116294 | 3953648 | 4087415 | 4052452 | 2.14 | cps |
| Terbium | 159-2 | 2714253 | 2605196 | 2683271 | 2667573 | 2.11 | cps |
| Thallium | 203-1 | 280 | 187 | 203 | 223 | 22.29 | cps |
| Thallium | 205-1 | 573 | 513 | 503 | 530 | 7.14 | cps |
| Tin | 118-1 | 2407344 | 2370769 | 2454692 | 2410935 | 1.75 | cps |
| Titanium | 47-1 | 23889 | 24300 | 24540 | 24243 | 1.36 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-04DLX2 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-SNTI-WPDL | Dilution Factor : | 2 |
| Date & Time Acquired : | 2024-10-17 19:04:46 | DataFile Name : | 039SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 23 | 13 | 3 | 13 | 75.02 | cps |
| Vanadium | 51-2 | 53 | 37 | 60 | 50 | 24.03 | cps |
| Yttrium | 89-1 | 4918183 | 5020478 | 4962394 | 4967018 | 1.03 | cps |
| Yttrium | 89-2 | 1224617 | 1229491 | 1228881 | 1227663 | 0.22 | cps |
| Zinc | 66-2 | 133 | 170 | 170 | 158 | 13.41 | cps |
| Zirconium | 90-1 | 6128 | 6048 | 6168 | 6115 | 1.00 | cps |
| Zirconium | 91-1 | 1257 | 1360 | 1310 | 1309 | 3.95 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-06DLX2 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-MIN2-WPDL | Dilution Factor : | 2 |
| Date & Time Acquired : | 2024-10-17 19:08:06 | DataFile Name : | 040SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 150 | 100 | 120 | 123 | 20.40 | cps |
| Antimony | 121-1 | 317 | 313 | 357 | 329 | 7.33 | cps |
| Arsenic | 75-2 | 7 | 3 | 7 | 6 | 34.70 | cps |
| Barium | 135-1 | 197 | 177 | 173 | 182 | 6.92 | cps |
| Barium | 137-1 | 283 | 343 | 337 | 321 | 10.24 | cps |
| Beryllium | 9-1 | 167 | 123 | 103 | 131 | 24.69 | cps |
| Bismuth | 209-1 | 2766373 | 2621979 | 2618004 | 2668785 | 3.17 | cps |
| Bismuth | 209-2 | 2124863 | 2127954 | 2117489 | 2123435 | 0.25 | cps |
| Bromine | 81-1 | 7132 | 7315 | 7312 | 7253 | 1.45 | cps |
| Bromine | 81-2 | 257 | 210 | 237 | 234 | 9.99 | cps |
| Cadmium | 108-1 | 7 | 3 | 17 | 9 | 78.08 | cps |
| Cadmium | 106-1 | 1537 | 1533 | 1503 | 1525 | 1.20 | cps |
| Cadmium | 111-1 | 1091 | 1101 | 1041 | 1078 | 3.00 | cps |
| Calcium | 43-1 | 436368 | 437473 | 430045 | 434629 | 0.92 | cps |
| Calcium | 44-1 | 6585636 | 6489419 | 6561903 | 6545652 | 0.77 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 170 | 160 | 123 | 151 | 16.26 | cps |
| Cobalt | 59-2 | 73 | 93 | 110 | 92 | 19.91 | cps |
| Copper | 63-2 | 687 | 687 | 663 | 679 | 1.98 | cps |
| Dysprosium | 156-1 | 10 | 10 | 13 | 11 | 17.30 | cps |
| Dysprosium | 156-2 | 3 | 10 | 7 | 7 | 50.03 | cps |
| Erbium | 164-1 | 13 | 13 | 13 | 13 | 0.00 | cps |
| Erbium | 164-2 | 10 | 23 | 10 | 14 | 53.28 | cps |
| Gadolinium | 160-1 | 10 | 10 | 7 | 9 | 21.63 | cps |
| Gadolinium | 160-2 | 130 | 110 | 130 | 123 | 9.36 | cps |
| Holmium | 165-1 | 4473362 | 4277089 | 4321391 | 4357281 | 2.36 | cps |
| Holmium | 165-2 | 2973561 | 2958387 | 2964201 | 2965383 | 0.26 | cps |
| Indium | 115-1 | 3390775 | 3313891 | 3285817 | 3330161 | 1.63 | cps |
| Indium | 115-2 | 1016173 | 1017551 | 1003498 | 1012407 | 0.77 | cps |
| Iron | 56-2 | 5905 | 5588 | 5731 | 5741 | 2.76 | cps |
| Iron | 57-2 | 6824 | 6743 | 7467 | 7011 | 5.66 | cps |
| Iron | 54-2 | 683 | 673 | 673 | 677 | 0.85 | cps |
| Krypton | 83-1 | 63 | 97 | 73 | 78 | 22.00 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-06DLX2 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-MIN2-WPDL | Dilution Factor : | 2 |
| Date & Time Acquired : | 2024-10-17 19:08:06 | DataFile Name : | 040SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 967 | 910 | 843 | 907 | 6.81 | cps |
| Lead | 207-1 | 863 | 733 | 683 | 760 | 12.23 | cps |
| Lead | 208-1 | 3510 | 3464 | 3344 | 3439 | 2.50 | cps |
| Lithium | 6-1 | 920551 | 905081 | 895400 | 907011 | 1.40 | cps |
| Magnesium | 24-2 | 2392739 | 2373675 | 2314896 | 2360437 | 1.72 | cps |
| Manganese | 55-2 | 210 | 190 | 197 | 199 | 5.12 | cps |
| Molybdenum | 94-1 | 593 | 547 | 580 | 573 | 4.19 | cps |
| Molybdenum | 95-1 | 950 | 917 | 803 | 890 | 8.64 | cps |
| Molybdenum | 96-1 | 1063 | 1013 | 1033 | 1037 | 2.43 | cps |
| Molybdenum | 97-1 | 603 | 573 | 700 | 626 | 10.58 | cps |
| Molybdenum | 98-1 | 1460 | 1550 | 1513 | 1508 | 3.00 | cps |
| Neodymium | 150-1 | 20 | 0 | 7 | 9 | 114.55 | cps |
| Neodymium | 150-2 | 0 | 3 | 3 | 2 | 86.60 | cps |
| Nickel | 60-2 | 87 | 83 | 90 | 87 | 3.85 | cps |
| Phosphorus | 31-2 | 117 | 123 | 107 | 116 | 7.26 | cps |
| Potassium | 39-2 | 2174785 | 2145200 | 2138897 | 2152960 | 0.89 | cps |
| Rhodium | 103-1 | 2918225 | 2865818 | 2846238 | 2876760 | 1.29 | cps |
| Rhodium | 103-2 | 1594213 | 1573773 | 1554147 | 1574045 | 1.27 | cps |
| Scandium | 45-1 | 1804527 | 1745472 | 1714935 | 1754978 | 2.60 | cps |
| Scandium | 45-2 | 149657 | 150744 | 149516 | 149972 | 0.45 | cps |
| Selenium | 82-1 | 147 | 116 | 128 | 130 | 11.95 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 117 | 97 | 90 | 101 | 13.73 | cps |
| Silicon | 28-1 | 162790 | 163400 | 163910 | 163367 | 0.34 | cps |
| Silver | 107-1 | 83 | 100 | 90 | 91 | 9.21 | cps |
| Silver | 109-1 | 73 | 87 | 63 | 74 | 15.73 | cps |
| Sodium | 23-2 | 11520721 | 11617754 | 11532870 | 11557115 | 0.46 | cps |
| Strontium | 86-1 | 5358 | 5261 | 5134 | 5251 | 2.13 | cps |
| Strontium | 88-1 | 44969 | 44343 | 44337 | 44550 | 0.81 | cps |
| Sulfur | 34-1 | 109451 | 114539 | 118965 | 114318 | 4.16 | cps |
| Terbium | 159-1 | 4576875 | 4480549 | 4372337 | 4476587 | 2.29 | cps |
| Terbium | 159-2 | 2885349 | 2916763 | 2903638 | 2901916 | 0.54 | cps |
| Thallium | 203-1 | 300 | 253 | 203 | 252 | 19.17 | cps |
| Thallium | 205-1 | 713 | 517 | 390 | 540 | 30.17 | cps |
| Tin | 118-1 | 1112 | 1179 | 1262 | 1185 | 6.34 | cps |
| Titanium | 47-1 | 37 | 53 | 87 | 59 | 43.23 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | P3846-06DLX2 | Instrumnet Name : | P7 |
| Client Sample ID : | PT-MIN2-WPDL | Dilution Factor : | 2 |
| Date & Time Acquired : | 2024-10-17 19:08:06 | DataFile Name : | 040SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 17 | 17 | 10 | 14 | 26.66 | cps |
| Vanadium | 51-2 | 10 | 17 | 17 | 14 | 26.66 | cps |
| Yttrium | 89-1 | 5585277 | 5441640 | 5448226 | 5491714 | 1.48 | cps |
| Yttrium | 89-2 | 1324808 | 1336926 | 1311669 | 1324468 | 0.95 | cps |
| Zinc | 66-2 | 160 | 167 | 187 | 171 | 8.11 | cps |
| Zirconium | 90-1 | 173 | 170 | 140 | 161 | 11.40 | cps |
| Zirconium | 91-1 | 30 | 17 | 47 | 31 | 48.31 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | PB164203BL | Instrumnet Name : | P7 |
| Client Sample ID : | PB164203BL | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:16:39 | DataFile Name : | 041CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 60 | 73 | 63 | 66 | 10.58 | cps |
| Antimony | 121-1 | 137 | 153 | 180 | 157 | 13.95 | cps |
| Arsenic | 75-2 | 0 | 3 | 7 | 3 | 100.05 | cps |
| Barium | 135-1 | 13 | 3 | 17 | 11 | 62.48 | cps |
| Barium | 137-1 | 27 | 23 | 50 | 33 | 43.59 | cps |
| Beryllium | 9-1 | 100 | 133 | 113 | 116 | 14.52 | cps |
| Bismuth | 209-1 | 2479236 | 2454958 | 2444651 | 2459615 | 0.72 | cps |
| Bismuth | 209-2 | 1970454 | 1989468 | 1980928 | 1980283 | 0.48 | cps |
| Bromine | 81-1 | 6918 | 6898 | 6775 | 6864 | 1.13 | cps |
| Bromine | 81-2 | 27 | 37 | 40 | 34 | 20.14 | cps |
| Cadmium | 108-1 | 0 | 7 | 3 | 3 | 100.05 | cps |
| Cadmium | 106-1 | 1313 | 1173 | 1310 | 1266 | 6.31 | cps |
| Cadmium | 111-1 | 926 | 817 | 915 | 886 | 6.79 | cps |
| Calcium | 43-1 | 130 | 160 | 143 | 144 | 10.41 | cps |
| Calcium | 44-1 | 2764 | 2627 | 2447 | 2613 | 6.08 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 153 | 160 | 170 | 161 | 5.20 | cps |
| Cobalt | 59-2 | 23 | 7 | 30 | 20 | 60.08 | cps |
| Copper | 63-2 | 663 | 563 | 580 | 602 | 8.90 | cps |
| Dysprosium | 156-1 | 10 | 3 | 17 | 10 | 66.70 | cps |
| Dysprosium | 156-2 | 7 | 0 | 7 | 4 | 86.60 | cps |
| Erbium | 164-1 | 30 | 37 | 17 | 28 | 36.66 | cps |
| Erbium | 164-2 | 10 | 13 | 17 | 13 | 25.01 | cps |
| Gadolinium | 160-1 | 20 | 10 | 17 | 16 | 32.73 | cps |
| Gadolinium | 160-2 | 127 | 97 | 127 | 117 | 14.85 | cps |
| Holmium | 165-1 | 3886069 | 3875717 | 3871733 | 3877840 | 0.19 | cps |
| Holmium | 165-2 | 2683975 | 2686129 | 2639349 | 2669818 | 0.99 | cps |
| Indium | 115-1 | 2997549 | 3018852 | 2939524 | 2985308 | 1.38 | cps |
| Indium | 115-2 | 933666 | 930727 | 922462 | 928952 | 0.63 | cps |
| Iron | 56-2 | 4981 | 4774 | 4731 | 4829 | 2.77 | cps |
| Iron | 57-2 | 476 | 460 | 493 | 476 | 3.46 | cps |
| Iron | 54-2 | 720 | 823 | 937 | 827 | 13.11 | cps |
| Krypton | 83-1 | 97 | 110 | 70 | 92 | 22.08 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | PB164203BL | Instrumnet Name : | P7 |
| Client Sample ID : | PB164203BL | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:16:39 | DataFile Name : | 041CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 320 | 363 | 243 | 309 | 19.67 | cps |
| Lead | 207-1 | 267 | 237 | 247 | 250 | 6.11 | cps |
| Lead | 208-1 | 1163 | 1197 | 1057 | 1139 | 6.42 | cps |
| Lithium | 6-1 | 781832 | 787640 | 783732 | 784401 | 0.38 | cps |
| Magnesium | 24-2 | 1453 | 1567 | 1560 | 1527 | 4.17 | cps |
| Manganese | 55-2 | 73 | 67 | 80 | 73 | 9.09 | cps |
| Molybdenum | 94-1 | 110 | 90 | 117 | 106 | 13.15 | cps |
| Molybdenum | 95-1 | 30 | 63 | 63 | 52 | 36.85 | cps |
| Molybdenum | 96-1 | 70 | 67 | 67 | 68 | 2.84 | cps |
| Molybdenum | 97-1 | 27 | 20 | 40 | 29 | 35.25 | cps |
| Molybdenum | 98-1 | 80 | 103 | 70 | 84 | 20.26 | cps |
| Neodymium | 150-1 | 3 | 3 | 0 | 2 | 86.60 | cps |
| Neodymium | 150-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Nickel | 60-2 | 60 | 33 | 43 | 46 | 29.58 | cps |
| Phosphorus | 31-2 | 127 | 113 | 83 | 108 | 20.60 | cps |
| Potassium | 39-2 | 33353 | 33908 | 33614 | 33625 | 0.82 | cps |
| Rhodium | 103-1 | 2640259 | 2660436 | 2625469 | 2642055 | 0.66 | cps |
| Rhodium | 103-2 | 1463634 | 1451891 | 1446619 | 1454048 | 0.60 | cps |
| Scandium | 45-1 | 1562465 | 1521367 | 1540922 | 1541585 | 1.33 | cps |
| Scandium | 45-2 | 137396 | 134090 | 134235 | 135240 | 1.38 | cps |
| Selenium | 82-1 | 70 | 78 | 129 | 92 | 34.67 | cps |
| Selenium | 77-2 | 0 | 7 | 0 | 2 | 173.21 | cps |
| Selenium | 78-2 | 83 | 93 | 67 | 81 | 16.60 | cps |
| Silicon | 28-1 | 173405 | 171626 | 177262 | 174097 | 1.66 | cps |
| Silver | 107-1 | 83 | 60 | 83 | 76 | 17.83 | cps |
| Silver | 109-1 | 43 | 40 | 47 | 43 | 7.70 | cps |
| Sodium | 23-2 | 11628 | 11665 | 11735 | 11676 | 0.46 | cps |
| Strontium | 86-1 | 110 | 167 | 100 | 126 | 28.64 | cps |
| Strontium | 88-1 | 167 | 127 | 137 | 143 | 14.52 | cps |
| Sulfur | 34-1 | 120961 | 122059 | 120988 | 121336 | 0.52 | cps |
| Terbium | 159-1 | 3979072 | 3992291 | 3893599 | 3954987 | 1.35 | cps |
| Terbium | 159-2 | 2617739 | 2620537 | 2605121 | 2614466 | 0.31 | cps |
| Thallium | 203-1 | 140 | 103 | 110 | 118 | 16.58 | cps |
| Thallium | 205-1 | 310 | 243 | 260 | 271 | 12.80 | cps |
| Tin | 118-1 | 870 | 900 | 997 | 922 | 7.18 | cps |
| Titanium | 47-1 | 40 | 60 | 50 | 50 | 20.00 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | PB164203BL | Instrumnet Name : | P7 |
| Client Sample ID : | PB164203BL | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:16:39 | DataFile Name : | 041CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 7 | 7 | 7 | 7 | 0.00 | cps |
| Vanadium | 51-2 | 0 | 17 | 10 | 9 | 94.38 | cps |
| Yttrium | 89-1 | 4880966 | 4912347 | 4838906 | 4877406 | 0.76 | cps |
| Yttrium | 89-2 | 1205972 | 1206300 | 1190697 | 1200990 | 0.74 | cps |
| Zinc | 66-2 | 77 | 60 | 100 | 79 | 25.47 | cps |
| Zirconium | 90-1 | 203 | 170 | 327 | 233 | 35.37 | cps |
| Zirconium | 91-1 | 80 | 43 | 57 | 60 | 30.93 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | PB164203BS | Instrumnet Name : | P7 |
| Client Sample ID : | PB164203BS | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:20:02 | DataFile Name : | 042LCS6.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 924246 | 916800 | 920880 | 920642 | 0.41 | cps |
| Antimony | 121-1 | 2128795 | 2162759 | 2143491 | 2145015 | 0.79 | cps |
| Arsenic | 75-2 | 91060 | 90571 | 91268 | 90966 | 0.39 | cps |
| Barium | 135-1 | 2919699 | 2914024 | 2889243 | 2907655 | 0.56 | cps |
| Barium | 137-1 | 4926753 | 4965077 | 4969425 | 4953752 | 0.47 | cps |
| Beryllium | 9-1 | 391489 | 394794 | 392662 | 392982 | 0.43 | cps |
| Bismuth | 209-1 | 2324065 | 1934665 | 2384213 | 2214314 | 11.02 | cps |
| Bismuth | 209-2 | 1893864 | 1903757 | 1897451 | 1898358 | 0.26 | cps |
| Bromine | 81-1 | 6421 | 6131 | 6361 | 6305 | 2.43 | cps |
| Bromine | 81-2 | 43 | 37 | 40 | 40 | 8.32 | cps |
| Cadmium | 108-1 | 37351 | 38221 | 37866 | 37813 | 1.16 | cps |
| Cadmium | 106-1 | 54933 | 55455 | 55619 | 55336 | 0.65 | cps |
| Cadmium | 111-1 | 504478 | 510927 | 507239 | 507548 | 0.64 | cps |
| Calcium | 43-1 | 604877 | 611917 | 602945 | 606580 | 0.78 | cps |
| Calcium | 44-1 | 8885630 | 8867623 | 8842472 | 8865242 | 0.24 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 730768 | 728726 | 726645 | 728713 | 0.28 | cps |
| Cobalt | 59-2 | 1086549 | 1080471 | 1083023 | 1083348 | 0.28 | cps |
| Copper | 63-2 | 7608277 | 7606133 | 7564177 | 7592862 | 0.33 | cps |
| Dysprosium | 156-1 | 90 | 47 | 47 | 61 | 40.93 | cps |
| Dysprosium | 156-2 | 147 | 110 | 173 | 143 | 22.19 | cps |
| Erbium | 164-1 | 30 | 40 | 33 | 34 | 14.78 | cps |
| Erbium | 164-2 | 33 | 40 | 33 | 36 | 10.83 | cps |
| Gadolinium | 160-1 | 37 | 23 | 17 | 26 | 39.85 | cps |
| Gadolinium | 160-2 | 117 | 167 | 140 | 141 | 17.73 | cps |
| Holmium | 165-1 | 3849925 | 3242102 | 3971242 | 3687756 | 10.59 | cps |
| Holmium | 165-2 | 2684109 | 2703915 | 2680963 | 2689662 | 0.46 | cps |
| Indium | 115-1 | 2847039 | 2328273 | 2883910 | 2686407 | 11.57 | cps |
| Indium | 115-2 | 896802 | 895126 | 892859 | 894929 | 0.22 | cps |
| Iron | 56-2 | 32594286 | 32570660 | 32521450 | 32562132 | 0.11 | cps |
| Iron | 57-2 | 836305 | 834354 | 834960 | 835206 | 0.12 | cps |
| Iron | 54-2 | 1799011 | 1780240 | 1835171 | 1804807 | 1.55 | cps |
| Krypton | 83-1 | 83 | 50 | 73 | 69 | 24.83 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | PB164203BS | Instrumnet Name : | P7 |
| Client Sample ID : | PB164203BS | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:20:02 | DataFile Name : | 042LCS6.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 8624400 | 8802248 | 8774717 | 8733788 | 1.10 | cps |
| Lead | 207-1 | 7472316 | 7606387 | 7674430 | 7584378 | 1.36 | cps |
| Lead | 208-1 | 34149615 | 34713979 | 34881099 | 34581564 | 1.11 | cps |
| Lithium | 6-1 | 767820 | 644879 | 779228 | 730643 | 10.20 | cps |
| Magnesium | 24-2 | 7341973 | 7400220 | 7341388 | 7361194 | 0.46 | cps |
| Manganese | 55-2 | 5631616 | 5576812 | 5569089 | 5592506 | 0.61 | cps |
| Molybdenum | 94-1 | 7492536 | 7626785 | 7418474 | 7512599 | 1.41 | cps |
| Molybdenum | 95-1 | 10871978 | 10995461 | 10916166 | 10927868 | 0.57 | cps |
| Molybdenum | 96-1 | 11910106 | 12300351 | 11895647 | 12035368 | 1.91 | cps |
| Molybdenum | 97-1 | 6833300 | 7051957 | 6876234 | 6920497 | 1.67 | cps |
| Molybdenum | 98-1 | 17742278 | 17958023 | 17662211 | 17787504 | 0.86 | cps |
| Neodymium | 150-1 | 230 | 270 | 183 | 228 | 19.04 | cps |
| Neodymium | 150-2 | 37 | 53 | 33 | 41 | 26.06 | cps |
| Nickel | 60-2 | 265841 | 266790 | 265200 | 265943 | 0.30 | cps |
| Phosphorus | 31-2 | 44495 | 44184 | 44782 | 44487 | 0.67 | cps |
| Potassium | 39-2 | 4526961 | 4448787 | 4489818 | 4488522 | 0.87 | cps |
| Rhodium | 103-1 | 2510374 | 2041948 | 2548446 | 2366923 | 11.92 | cps |
| Rhodium | 103-2 | 1397874 | 1386910 | 1389006 | 1391263 | 0.42 | cps |
| Scandium | 45-1 | 1523303 | 1228358 | 1517805 | 1423155 | 11.86 | cps |
| Scandium | 45-2 | 132553 | 131521 | 132815 | 132297 | 0.52 | cps |
| Selenium | 82-1 | 29087 | 28928 | 29306 | 29107 | 0.65 | cps |
| Selenium | 77-2 | 2787 | 2697 | 2660 | 2715 | 2.40 | cps |
| Selenium | 78-2 | 9256 | 9350 | 8933 | 9180 | 2.38 | cps |
| Silicon | 28-1 | 1202520 | 1217461 | 1215042 | 1211674 | 0.66 | cps |
| Silver | 107-1 | 2488794 | 2500844 | 2499259 | 2496299 | 0.26 | cps |
| Silver | 109-1 | 2424539 | 2410300 | 2392920 | 2409253 | 0.66 | cps |
| Sodium | 23-2 | 12505555 | 12510537 | 12488949 | 12501681 | 0.09 | cps |
| Strontium | 86-1 | 16388839 | 16330479 | 16379865 | 16366394 | 0.19 | cps |
| Strontium | 88-1 | 142580258 | 142480348 | 142849455 | 142636687 | 0.13 | cps |
| Sulfur | 34-1 | 268969 | 266333 | 264949 | 266750 | 0.77 | cps |
| Terbium | 159-1 | 3906160 | 3293561 | 3990394 | 3730038 | 10.20 | cps |
| Terbium | 159-2 | 2628742 | 2626283 | 2595507 | 2616844 | 0.71 | cps |
| Thallium | 203-1 | 2130629 | 2155010 | 2200026 | 2161888 | 1.63 | cps |
| Thallium | 205-1 | 5087308 | 5165575 | 5183471 | 5145451 | 0.99 | cps |
| Tin | 118-1 | 1832303 | 1864622 | 1818679 | 1838535 | 1.28 | cps |
| Titanium | 47-1 | 2606487 | 2610723 | 2584952 | 2600721 | 0.53 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | PB164203BS | Instrumnet Name : | P7 |
| Client Sample ID : | PB164203BS | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:20:02 | DataFile Name : | 042LCS6.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 6826636 | 6839363 | 6825012 | 6830337 | 0.12 | cps |
| Vanadium | 51-2 | 665663 | 662406 | 656905 | 661658 | 0.67 | cps |
| Yttrium | 89-1 | 4827739 | 3918316 | 4855551 | 4533869 | 11.76 | cps |
| Yttrium | 89-2 | 1198620 | 1178885 | 1190889 | 1189465 | 0.84 | cps |
| Zinc | 66-2 | 1264252 | 1252576 | 1259721 | 1258850 | 0.47 | cps |
| Zirconium | 90-1 | 3330956 | 3396670 | 3393118 | 3373581 | 1.10 | cps |
| Zirconium | 91-1 | 751577 | 767891 | 753345 | 757604 | 1.18 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | PB164204BL | Instrumnet Name : | P7 |
| Client Sample ID : | PB164204BL | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:22:59 | DataFile Name : | 043CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 73 | 100 | 87 | 87 | 15.39 | cps |
| Antimony | 121-1 | 1367 | 1243 | 1483 | 1365 | 8.80 | cps |
| Arsenic | 75-2 | 7 | 17 | 7 | 10 | 57.72 | cps |
| Barium | 135-1 | 147 | 87 | 80 | 104 | 35.16 | cps |
| Barium | 137-1 | 173 | 143 | 97 | 138 | 28.04 | cps |
| Beryllium | 9-1 | 280 | 227 | 190 | 232 | 19.49 | cps |
| Bismuth | 209-1 | 2432858 | 2427871 | 2479921 | 2446883 | 1.17 | cps |
| Bismuth | 209-2 | 1961207 | 1994994 | 1960792 | 1972331 | 1.00 | cps |
| Bromine | 81-1 | 6635 | 6328 | 6368 | 6444 | 2.59 | cps |
| Bromine | 81-2 | 33 | 47 | 23 | 34 | 34.00 | cps |
| Cadmium | 108-1 | 7 | 3 | 13 | 8 | 65.47 | cps |
| Cadmium | 106-1 | 1503 | 1320 | 1337 | 1387 | 7.31 | cps |
| Cadmium | 111-1 | 1061 | 942 | 956 | 986 | 6.60 | cps |
| Calcium | 43-1 | 137 | 163 | 140 | 147 | 9.91 | cps |
| Calcium | 44-1 | 2937 | 2740 | 2810 | 2829 | 3.52 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 210 | 223 | 243 | 226 | 7.44 | cps |
| Cobalt | 59-2 | 70 | 40 | 53 | 54 | 27.61 | cps |
| Copper | 63-2 | 837 | 820 | 710 | 789 | 8.73 | cps |
| Dysprosium | 156-1 | 0 | 3 | 0 | 1 | 173.21 | cps |
| Dysprosium | 156-2 | 3 | 0 | 3 | 2 | 86.60 | cps |
| Erbium | 164-1 | 13 | 7 | 20 | 13 | 49.99 | cps |
| Erbium | 164-2 | 23 | 10 | 3 | 12 | 83.33 | cps |
| Gadolinium | 160-1 | 3 | 3 | 10 | 6 | 69.34 | cps |
| Gadolinium | 160-2 | 123 | 97 | 140 | 120 | 18.21 | cps |
| Holmium | 165-1 | 3912433 | 3887251 | 3876995 | 3892226 | 0.47 | cps |
| Holmium | 165-2 | 2691562 | 2673681 | 2677322 | 2680855 | 0.35 | cps |
| Indium | 115-1 | 2967191 | 2937278 | 2945540 | 2950003 | 0.52 | cps |
| Indium | 115-2 | 928507 | 928529 | 929374 | 928803 | 0.05 | cps |
| Iron | 56-2 | 5574 | 5835 | 5938 | 5782 | 3.24 | cps |
| Iron | 57-2 | 522 | 476 | 549 | 516 | 7.17 | cps |
| Iron | 54-2 | 970 | 880 | 850 | 900 | 6.94 | cps |
| Krypton | 83-1 | 60 | 67 | 50 | 59 | 14.25 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | PB164204BL | Instrumnet Name : | P7 |
| Client Sample ID : | PB164204BL | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:22:59 | DataFile Name : | 043CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 927 | 780 | 727 | 811 | 12.77 | cps |
| Lead | 207-1 | 890 | 570 | 520 | 660 | 30.42 | cps |
| Lead | 208-1 | 3744 | 3037 | 2873 | 3218 | 14.37 | cps |
| Lithium | 6-1 | 777560 | 772342 | 775326 | 775076 | 0.34 | cps |
| Magnesium | 24-2 | 1537 | 1497 | 1450 | 1495 | 2.90 | cps |
| Manganese | 55-2 | 227 | 297 | 283 | 269 | 13.82 | cps |
| Molybdenum | 94-1 | 800 | 730 | 707 | 746 | 6.52 | cps |
| Molybdenum | 95-1 | 833 | 677 | 590 | 700 | 17.62 | cps |
| Molybdenum | 96-1 | 933 | 743 | 817 | 831 | 11.53 | cps |
| Molybdenum | 97-1 | 503 | 337 | 357 | 399 | 22.81 | cps |
| Molybdenum | 98-1 | 1237 | 990 | 1003 | 1077 | 12.89 | cps |
| Neodymium | 150-1 | 7 | 3 | 0 | 3 | 100.05 | cps |
| Neodymium | 150-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Nickel | 60-2 | 73 | 50 | 63 | 62 | 18.81 | cps |
| Phosphorus | 31-2 | 93 | 127 | 120 | 113 | 15.57 | cps |
| Potassium | 39-2 | 33357 | 33460 | 33594 | 33470 | 0.36 | cps |
| Rhodium | 103-1 | 2580887 | 2577939 | 2602678 | 2587168 | 0.52 | cps |
| Rhodium | 103-2 | 1452463 | 1446869 | 1436168 | 1445166 | 0.57 | cps |
| Scandium | 45-1 | 1483580 | 1501675 | 1514493 | 1499916 | 1.04 | cps |
| Scandium | 45-2 | 134820 | 133905 | 133387 | 134037 | 0.54 | cps |
| Selenium | 82-1 | 117 | 122 | 138 | 125 | 8.71 | cps |
| Selenium | 77-2 | 0 | 0 | 7 | 2 | 173.21 | cps |
| Selenium | 78-2 | 97 | 83 | 97 | 92 | 8.35 | cps |
| Silicon | 28-1 | 178202 | 176911 | 176760 | 177291 | 0.45 | cps |
| Silver | 107-1 | 433 | 347 | 277 | 352 | 22.28 | cps |
| Silver | 109-1 | 363 | 270 | 280 | 304 | 16.83 | cps |
| Sodium | 23-2 | 13002 | 12875 | 12405 | 12761 | 2.47 | cps |
| Strontium | 86-1 | 763 | 497 | 473 | 578 | 27.89 | cps |
| Strontium | 88-1 | 5775 | 3754 | 2934 | 4154 | 35.20 | cps |
| Sulfur | 34-1 | 113088 | 110677 | 111006 | 111590 | 1.17 | cps |
| Terbium | 159-1 | 4010129 | 3950174 | 3940992 | 3967098 | 0.95 | cps |
| Terbium | 159-2 | 2626358 | 2634991 | 2603037 | 2621462 | 0.63 | cps |
| Thallium | 203-1 | 207 | 243 | 250 | 233 | 10.00 | cps |
| Thallium | 205-1 | 690 | 510 | 437 | 546 | 23.90 | cps |
| Tin | 118-1 | 1058 | 1044 | 1077 | 1060 | 1.57 | cps |
| Titanium | 47-1 | 200 | 157 | 150 | 169 | 16.07 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | PB164204BL | Instrumnet Name : | P7 |
| Client Sample ID : | PB164204BL | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:22:59 | DataFile Name : | 043CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 243 | 193 | 150 | 196 | 23.89 | cps |
| Vanadium | 51-2 | 7 | 20 | 20 | 16 | 49.47 | cps |
| Yttrium | 89-1 | 4825001 | 4804134 | 4811095 | 4813410 | 0.22 | cps |
| Yttrium | 89-2 | 1191922 | 1201707 | 1199805 | 1197811 | 0.43 | cps |
| Zinc | 66-2 | 157 | 173 | 163 | 164 | 5.10 | cps |
| Zirconium | 90-1 | 883 | 723 | 753 | 787 | 10.81 | cps |
| Zirconium | 91-1 | 223 | 157 | 190 | 190 | 17.54 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | PB164204BS | Instrumnet Name : | P7 |
| Client Sample ID : | PB164204BS | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:26:21 | DataFile Name : | 044DLCW.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 932532 | 933150 | 925618 | 930433 | 0.45 | cps |
| Antimony | 121-1 | 2170531 | 2176239 | 2168578 | 2171783 | 0.18 | cps |
| Arsenic | 75-2 | 90661 | 91741 | 91305 | 91236 | 0.60 | cps |
| Barium | 135-1 | 2959055 | 2951980 | 2949529 | 2953521 | 0.17 | cps |
| Barium | 137-1 | 5021328 | 5074319 | 5016022 | 5037223 | 0.64 | cps |
| Beryllium | 9-1 | 396110 | 392791 | 394745 | 394549 | 0.42 | cps |
| Bismuth | 209-1 | 2332442 | 2419872 | 2364176 | 2372164 | 1.87 | cps |
| Bismuth | 209-2 | 1902274 | 1873810 | 1937508 | 1904530 | 1.68 | cps |
| Bromine | 81-1 | 6288 | 6125 | 6221 | 6211 | 1.32 | cps |
| Bromine | 81-2 | 40 | 23 | 33 | 32 | 26.04 | cps |
| Cadmium | 108-1 | 38260 | 38404 | 38133 | 38266 | 0.35 | cps |
| Cadmium | 106-1 | 55833 | 55342 | 55516 | 55564 | 0.45 | cps |
| Cadmium | 111-1 | 511483 | 512696 | 511592 | 511924 | 0.13 | cps |
| Calcium | 43-1 | 613359 | 612368 | 610927 | 612218 | 0.20 | cps |
| Calcium | 44-1 | 9065003 | 8952764 | 8992627 | 9003465 | 0.63 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 738584 | 741565 | 738961 | 739703 | 0.22 | cps |
| Cobalt | 59-2 | 1090060 | 1094926 | 1092429 | 1092472 | 0.22 | cps |
| Copper | 63-2 | 7644170 | 7673617 | 7673042 | 7663609 | 0.22 | cps |
| Dysprosium | 156-1 | 63 | 53 | 70 | 62 | 13.48 | cps |
| Dysprosium | 156-2 | 130 | 140 | 117 | 129 | 9.08 | cps |
| Erbium | 164-1 | 30 | 47 | 40 | 39 | 21.57 | cps |
| Erbium | 164-2 | 27 | 40 | 43 | 37 | 24.04 | cps |
| Gadolinium | 160-1 | 40 | 43 | 30 | 38 | 18.36 | cps |
| Gadolinium | 160-2 | 117 | 147 | 123 | 129 | 12.22 | cps |
| Holmium | 165-1 | 3853814 | 4007938 | 3890129 | 3917294 | 2.06 | cps |
| Holmium | 165-2 | 2675797 | 2633172 | 2683498 | 2664156 | 1.02 | cps |
| Indium | 115-1 | 2851434 | 2965794 | 2863505 | 2893578 | 2.17 | cps |
| Indium | 115-2 | 886894 | 881855 | 901680 | 890143 | 1.16 | cps |
| Iron | 56-2 | 33120918 | 33074046 | 33032181 | 33075715 | 0.13 | cps |
| Iron | 57-2 | 851342 | 848711 | 840745 | 846933 | 0.65 | cps |
| Iron | 54-2 | 1835296 | 1831274 | 1792974 | 1819848 | 1.28 | cps |
| Krypton | 83-1 | 77 | 80 | 67 | 74 | 9.32 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | PB164204BS | Instrumnet Name : | P7 |
| Client Sample ID : | PB164204BS | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:26:21 | DataFile Name : | 044DLCW.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 8791909 | 8830616 | 8899173 | 8840566 | 0.61 | cps |
| Lead | 207-1 | 7657073 | 7653757 | 7712901 | 7674577 | 0.43 | cps |
| Lead | 208-1 | 35042802 | 35229931 | 35359931 | 35210888 | 0.45 | cps |
| Lithium | 6-1 | 766405 | 784502 | 771626 | 774177 | 1.20 | cps |
| Magnesium | 24-2 | 7387129 | 7441093 | 7334556 | 7387593 | 0.72 | cps |
| Manganese | 55-2 | 5740125 | 5611666 | 5660372 | 5670721 | 1.14 | cps |
| Molybdenum | 94-1 | 7692212 | 7657882 | 7546764 | 7632286 | 1.00 | cps |
| Molybdenum | 95-1 | 11129170 | 11104077 | 11052449 | 11095232 | 0.35 | cps |
| Molybdenum | 96-1 | 12216010 | 12177113 | 12118571 | 12170565 | 0.40 | cps |
| Molybdenum | 97-1 | 6993892 | 6995057 | 7005593 | 6998181 | 0.09 | cps |
| Molybdenum | 98-1 | 18114590 | 18127638 | 17924268 | 18055499 | 0.63 | cps |
| Neodymium | 150-1 | 250 | 260 | 233 | 248 | 5.44 | cps |
| Neodymium | 150-2 | 30 | 50 | 47 | 42 | 25.38 | cps |
| Nickel | 60-2 | 269933 | 269094 | 269171 | 269399 | 0.17 | cps |
| Phosphorus | 31-2 | 45147 | 44932 | 44628 | 44902 | 0.58 | cps |
| Potassium | 39-2 | 4468276 | 4499130 | 4507215 | 4491541 | 0.46 | cps |
| Rhodium | 103-1 | 2465701 | 2558693 | 2484337 | 2502910 | 1.97 | cps |
| Rhodium | 103-2 | 1387729 | 1365060 | 1401768 | 1384852 | 1.34 | cps |
| Scandium | 45-1 | 1475347 | 1500037 | 1507290 | 1494225 | 1.12 | cps |
| Scandium | 45-2 | 131232 | 129942 | 133556 | 131576 | 1.39 | cps |
| Selenium | 82-1 | 29070 | 29222 | 29061 | 29118 | 0.31 | cps |
| Selenium | 77-2 | 2814 | 2720 | 2517 | 2684 | 5.65 | cps |
| Selenium | 78-2 | 9250 | 9160 | 8859 | 9090 | 2.25 | cps |
| Silicon | 28-1 | 1210988 | 1210916 | 1236835 | 1219579 | 1.23 | cps |
| Silver | 107-1 | 2477610 | 2532590 | 2480429 | 2496876 | 1.24 | cps |
| Silver | 109-1 | 2423715 | 2362576 | 2406172 | 2397488 | 1.31 | cps |
| Sodium | 23-2 | 12529975 | 12618998 | 12570244 | 12573072 | 0.35 | cps |
| Strontium | 86-1 | 16774865 | 16544109 | 16588495 | 16635823 | 0.74 | cps |
| Strontium | 88-1 | 146450804 | 145446018 | 146579128 | 146158650 | 0.42 | cps |
| Sulfur | 34-1 | 264182 | 260756 | 261583 | 262174 | 0.68 | cps |
| Terbium | 159-1 | 3968932 | 4052358 | 3971091 | 3997461 | 1.19 | cps |
| Terbium | 159-2 | 2603577 | 2581443 | 2674130 | 2619717 | 1.85 | cps |
| Thallium | 203-1 | 2178999 | 2225681 | 2179200 | 2194627 | 1.23 | cps |
| Thallium | 205-1 | 5245036 | 5314230 | 5235376 | 5264881 | 0.82 | cps |
| Tin | 118-1 | 1855623 | 1904349 | 1854135 | 1871369 | 1.53 | cps |
| Titanium | 47-1 | 2639881 | 2605977 | 2620612 | 2622157 | 0.65 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | PB164204BS | Instrumnet Name : | P7 |
| Client Sample ID : | PB164204BS | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:26:21 | DataFile Name : | 044DLCW.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 6863046 | 6948469 | 6875567 | 6895694 | 0.67 | cps |
| Vanadium | 51-2 | 673514 | 673356 | 667450 | 671440 | 0.51 | cps |
| Yttrium | 89-1 | 4808112 | 4909836 | 4795706 | 4837885 | 1.29 | cps |
| Yttrium | 89-2 | 1182672 | 1176877 | 1196170 | 1185240 | 0.84 | cps |
| Zinc | 66-2 | 1272238 | 1269249 | 1272357 | 1271281 | 0.14 | cps |
| Zirconium | 90-1 | 3454735 | 3456197 | 3427044 | 3445992 | 0.48 | cps |
| Zirconium | 91-1 | 772017 | 772512 | 765426 | 769985 | 0.51 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCV03 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:29:17 | DataFile Name : | 045CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 4427470 | 4413539 | 4386222 | 4409077 | 0.48 | cps |
| Antimony | 121-1 | 2016716 | 1998896 | 2035107 | 2016907 | 0.90 | cps |
| Arsenic | 75-2 | 84954 | 84757 | 83637 | 84449 | 0.84 | cps |
| Barium | 135-1 | 2801484 | 2809075 | 2766735 | 2792432 | 0.81 | cps |
| Barium | 137-1 | 4766031 | 4771504 | 4829469 | 4789001 | 0.73 | cps |
| Beryllium | 9-1 | 374972 | 376400 | 379907 | 377093 | 0.67 | cps |
| Bismuth | 209-1 | 2158895 | 2249095 | 2208920 | 2205637 | 2.05 | cps |
| Bismuth | 209-2 | 1578160 | 1600087 | 1598156 | 1592134 | 0.76 | cps |
| Bromine | 81-1 | 6165 | 6385 | 6605 | 6385 | 3.45 | cps |
| Bromine | 81-2 | 30 | 43 | 47 | 40 | 22.05 | cps |
| Cadmium | 108-1 | 34728 | 35366 | 35066 | 35053 | 0.91 | cps |
| Cadmium | 106-1 | 50942 | 51555 | 51936 | 51477 | 0.97 | cps |
| Cadmium | 111-1 | 461122 | 463987 | 463568 | 462892 | 0.33 | cps |
| Calcium | 43-1 | 2599655 | 2594117 | 2650850 | 2614874 | 1.20 | cps |
| Calcium | 44-1 | 40987905 | 40948623 | 41356254 | 41097594 | 0.55 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 693483 | 697573 | 688518 | 693191 | 0.65 | cps |
| Cobalt | 59-2 | 1093337 | 1095858 | 1082863 | 1090686 | 0.63 | cps |
| Copper | 63-2 | 7505841 | 7434838 | 7352510 | 7431063 | 1.03 | cps |
| Dysprosium | 156-1 | 160 | 107 | 110 | 126 | 23.79 | cps |
| Dysprosium | 156-2 | 180 | 157 | 203 | 180 | 12.96 | cps |
| Erbium | 164-1 | 147 | 107 | 150 | 134 | 17.93 | cps |
| Erbium | 164-2 | 80 | 87 | 80 | 82 | 4.68 | cps |
| Gadolinium | 160-1 | 80 | 97 | 83 | 87 | 10.18 | cps |
| Gadolinium | 160-2 | 180 | 150 | 133 | 154 | 15.31 | cps |
| Holmium | 165-1 | 3865118 | 3802325 | 3807815 | 3825086 | 0.91 | cps |
| Holmium | 165-2 | 2606717 | 2615424 | 2604501 | 2608881 | 0.22 | cps |
| Indium | 115-1 | 2686724 | 2754321 | 2704393 | 2715146 | 1.29 | cps |
| Indium | 115-2 | 842107 | 854393 | 856641 | 851047 | 0.92 | cps |
| Iron | 56-2 | 155065494 | 154374784 | 152576768 | 154005682 | 0.83 | cps |
| Iron | 57-2 | 3793777 | 3783496 | 3779106 | 3785460 | 0.20 | cps |
| Iron | 54-2 | 8380005 | 8415832 | 8351070 | 8382302 | 0.39 | cps |
| Krypton | 83-1 | 70 | 67 | 83 | 73 | 12.02 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCV03 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:29:17 | DataFile Name : | 045CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 8120912 | 8248022 | 8227133 | 8198689 | 0.83 | cps |
| Lead | 207-1 | 7065001 | 7188998 | 7160455 | 7138152 | 0.91 | cps |
| Lead | 208-1 | 32271548 | 32953010 | 32752676 | 32659078 | 1.07 | cps |
| Lithium | 6-1 | 742639 | 746695 | 740398 | 743244 | 0.43 | cps |
| Magnesium | 24-2 | 36875953 | 36666474 | 36787895 | 36776774 | 0.29 | cps |
| Manganese | 55-2 | 5302807 | 5364313 | 5267566 | 5311562 | 0.92 | cps |
| Molybdenum | 94-1 | 7265584 | 7301137 | 7273664 | 7280128 | 0.26 | cps |
| Molybdenum | 95-1 | 10658958 | 10670824 | 10663990 | 10664591 | 0.06 | cps |
| Molybdenum | 96-1 | 11595111 | 11623175 | 11584082 | 11600789 | 0.17 | cps |
| Molybdenum | 97-1 | 6654820 | 6608062 | 6688629 | 6650504 | 0.61 | cps |
| Molybdenum | 98-1 | 17216784 | 17180892 | 17115222 | 17170966 | 0.30 | cps |
| Neodymium | 150-1 | 247 | 273 | 337 | 286 | 16.19 | cps |
| Neodymium | 150-2 | 90 | 53 | 67 | 70 | 26.51 | cps |
| Nickel | 60-2 | 266261 | 261913 | 261673 | 263282 | 0.98 | cps |
| Phosphorus | 31-2 | 41677 | 42352 | 40981 | 41670 | 1.64 | cps |
| Potassium | 39-2 | 21571216 | 21464104 | 21458057 | 21497792 | 0.30 | cps |
| Rhodium | 103-1 | 2315501 | 2353118 | 2309290 | 2325970 | 1.02 | cps |
| Rhodium | 103-2 | 1274412 | 1296128 | 1288887 | 1286476 | 0.86 | cps |
| Scandium | 45-1 | 1480063 | 1443367 | 1447359 | 1456930 | 1.38 | cps |
| Scandium | 45-2 | 128593 | 129877 | 130237 | 129569 | 0.67 | cps |
| Selenium | 82-1 | 26054 | 26539 | 26496 | 26363 | 1.02 | cps |
| Selenium | 77-2 | 2430 | 2617 | 2617 | 2555 | 4.22 | cps |
| Selenium | 78-2 | 8249 | 8529 | 8036 | 8271 | 2.99 | cps |
| Silicon | 28-1 | 1163663 | 1156166 | 1194979 | 1171603 | 1.76 | cps |
| Silver | 107-1 | 2262821 | 2244490 | 2248422 | 2251911 | 0.43 | cps |
| Silver | 109-1 | 2184877 | 2155895 | 2145726 | 2162166 | 0.94 | cps |
| Sodium | 23-2 | 60454231 | 59587079 | 59939782 | 59993697 | 0.73 | cps |
| Strontium | 86-1 | 15644281 | 15709200 | 15579781 | 15644420 | 0.41 | cps |
| Strontium | 88-1 | 137592891 | 138872928 | 136518601 | 137661474 | 0.86 | cps |
| Sulfur | 34-1 | 255458 | 255224 | 258793 | 256492 | 0.78 | cps |
| Terbium | 159-1 | 3871723 | 3901898 | 3886238 | 3886620 | 0.39 | cps |
| Terbium | 159-2 | 2550837 | 2585912 | 2554235 | 2563661 | 0.75 | cps |
| Thallium | 203-1 | 2015726 | 2068301 | 2027643 | 2037223 | 1.35 | cps |
| Thallium | 205-1 | 4785284 | 4916085 | 4908478 | 4869949 | 1.51 | cps |
| Tin | 118-1 | 1731099 | 1756591 | 1754134 | 1747275 | 0.80 | cps |
| Titanium | 47-1 | 2453628 | 2461704 | 2487872 | 2467735 | 0.73 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCV03 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:29:17 | DataFile Name : | 045CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 6628612 | 6794153 | 6674890 | 6699219 | 1.27 | cps |
| Vanadium | 51-2 | 638439 | 638386 | 637054 | 637960 | 0.12 | cps |
| Yttrium | 89-1 | 4711474 | 4674745 | 4630078 | 4672099 | 0.87 | cps |
| Yttrium | 89-2 | 1142402 | 1155791 | 1155692 | 1151295 | 0.67 | cps |
| Zinc | 66-2 | 1230800 | 1222412 | 1220873 | 1224695 | 0.44 | cps |
| Zirconium | 90-1 | 3285041 | 3305194 | 3277086 | 3289107 | 0.44 | cps |
| Zirconium | 91-1 | 732611 | 736910 | 735537 | 735019 | 0.30 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCB03 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:35:42 | DataFile Name : | 046CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 190 | 173 | 277 | 213 | 26.00 | cps |
| Antimony | 121-1 | 577 | 760 | 853 | 730 | 19.28 | cps |
| Arsenic | 75-2 | 3 | 30 | 13 | 16 | 86.63 | cps |
| Barium | 135-1 | 43 | 43 | 43 | 43 | 0.00 | cps |
| Barium | 137-1 | 107 | 57 | 100 | 88 | 30.93 | cps |
| Beryllium | 9-1 | 227 | 243 | 193 | 221 | 11.51 | cps |
| Bismuth | 209-1 | 2422975 | 2476760 | 2408990 | 2436242 | 1.47 | cps |
| Bismuth | 209-2 | 2017885 | 1958658 | 1989416 | 1988653 | 1.49 | cps |
| Bromine | 81-1 | 6738 | 6718 | 6845 | 6767 | 1.01 | cps |
| Bromine | 81-2 | 40 | 27 | 53 | 40 | 33.33 | cps |
| Cadmium | 108-1 | 0 | 3 | 0 | 1 | 173.21 | cps |
| Cadmium | 106-1 | 1267 | 1280 | 1413 | 1320 | 6.14 | cps |
| Cadmium | 111-1 | 897 | 900 | 1006 | 934 | 6.65 | cps |
| Calcium | 43-1 | 197 | 167 | 157 | 173 | 12.01 | cps |
| Calcium | 44-1 | 2970 | 2787 | 3074 | 2944 | 4.93 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 210 | 163 | 177 | 183 | 13.11 | cps |
| Cobalt | 59-2 | 53 | 87 | 77 | 72 | 23.69 | cps |
| Copper | 63-2 | 747 | 923 | 933 | 868 | 12.10 | cps |
| Dysprosium | 156-1 | 3 | 3 | 13 | 7 | 86.65 | cps |
| Dysprosium | 156-2 | 0 | 0 | 3 | 1 | 173.21 | cps |
| Erbium | 164-1 | 27 | 23 | 13 | 21 | 32.88 | cps |
| Erbium | 164-2 | 7 | 13 | 0 | 7 | 99.98 | cps |
| Gadolinium | 160-1 | 7 | 10 | 10 | 9 | 21.63 | cps |
| Gadolinium | 160-2 | 140 | 107 | 113 | 120 | 14.70 | cps |
| Holmium | 165-1 | 3905875 | 3847447 | 3849220 | 3867514 | 0.86 | cps |
| Holmium | 165-2 | 2690151 | 2638853 | 2708795 | 2679266 | 1.35 | cps |
| Indium | 115-1 | 2922291 | 2972646 | 2919734 | 2938223 | 1.02 | cps |
| Indium | 115-2 | 924963 | 919649 | 921131 | 921914 | 0.30 | cps |
| Iron | 56-2 | 9700 | 10327 | 10937 | 10321 | 6.00 | cps |
| Iron | 57-2 | 643 | 699 | 716 | 686 | 5.57 | cps |
| Iron | 54-2 | 1130 | 1107 | 1257 | 1165 | 6.93 | cps |
| Krypton | 83-1 | 63 | 67 | 73 | 68 | 7.51 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCB03 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:35:42 | DataFile Name : | 046CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 560 | 593 | 583 | 579 | 2.95 | cps |
| Lead | 207-1 | 557 | 490 | 537 | 528 | 6.48 | cps |
| Lead | 208-1 | 2323 | 2343 | 2383 | 2350 | 1.30 | cps |
| Lithium | 6-1 | 776082 | 776848 | 776875 | 776602 | 0.06 | cps |
| Magnesium | 24-2 | 2264 | 2347 | 2474 | 2361 | 4.48 | cps |
| Manganese | 55-2 | 270 | 327 | 263 | 287 | 12.14 | cps |
| Molybdenum | 94-1 | 430 | 400 | 413 | 414 | 3.63 | cps |
| Molybdenum | 95-1 | 247 | 227 | 370 | 281 | 27.62 | cps |
| Molybdenum | 96-1 | 323 | 303 | 407 | 344 | 15.91 | cps |
| Molybdenum | 97-1 | 177 | 147 | 173 | 166 | 9.93 | cps |
| Molybdenum | 98-1 | 430 | 373 | 507 | 437 | 15.32 | cps |
| Neodymium | 150-1 | 0 | 3 | 0 | 1 | 173.21 | cps |
| Neodymium | 150-2 | 0 | 0 | 3 | 1 | 173.21 | cps |
| Nickel | 60-2 | 90 | 60 | 53 | 68 | 28.82 | cps |
| Phosphorus | 31-2 | 90 | 130 | 160 | 127 | 27.73 | cps |
| Potassium | 39-2 | 33914 | 34446 | 34058 | 34139 | 0.80 | cps |
| Rhodium | 103-1 | 2653804 | 2611503 | 2609380 | 2624896 | 0.95 | cps |
| Rhodium | 103-2 | 1453221 | 1437025 | 1438891 | 1443046 | 0.61 | cps |
| Scandium | 45-1 | 1513574 | 1501668 | 1519451 | 1511565 | 0.60 | cps |
| Scandium | 45-2 | 134877 | 131857 | 133781 | 133505 | 1.14 | cps |
| Selenium | 82-1 | 111 | 130 | 134 | 125 | 9.92 | cps |
| Selenium | 77-2 | 3 | 0 | 0 | 1 | 173.21 | cps |
| Selenium | 78-2 | 80 | 80 | 67 | 76 | 10.19 | cps |
| Silicon | 28-1 | 170274 | 173120 | 172599 | 171997 | 0.88 | cps |
| Silver | 107-1 | 157 | 200 | 173 | 177 | 12.37 | cps |
| Silver | 109-1 | 160 | 123 | 183 | 156 | 19.44 | cps |
| Sodium | 23-2 | 16142 | 16569 | 16626 | 16446 | 1.61 | cps |
| Strontium | 86-1 | 317 | 273 | 280 | 290 | 8.04 | cps |
| Strontium | 88-1 | 1617 | 1443 | 2007 | 1689 | 17.08 | cps |
| Sulfur | 34-1 | 114518 | 117054 | 116607 | 116060 | 1.17 | cps |
| Terbium | 159-1 | 3965064 | 3917765 | 3983428 | 3955419 | 0.86 | cps |
| Terbium | 159-2 | 2656889 | 2619598 | 2588409 | 2621632 | 1.31 | cps |
| Thallium | 203-1 | 187 | 193 | 183 | 188 | 2.71 | cps |
| Thallium | 205-1 | 560 | 393 | 433 | 462 | 18.82 | cps |
| Tin | 118-1 | 880 | 1037 | 990 | 969 | 8.30 | cps |
| Titanium | 47-1 | 70 | 93 | 110 | 91 | 22.05 | cps |

Reviewed By:Mohan
On:10/24/2024 4:11:21 AM
Inst Id :P7
LB :LB132993

| | | | |
|---|---|---|---|
| LB Number : | LB132993 | Operator : | Jaswal |
| Lab Sample ID : | CCB03 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-10-17 19:35:42 | DataFile Name : | 046CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 53 | 50 | 87 | 63 | 32.02 | cps |
| Vanadium | 51-2 | 20 | 33 | 30 | 28 | 24.98 | cps |
| Yttrium | 89-1 | 4838417 | 4787294 | 4812872 | 4812861 | 0.53 | cps |
| Yttrium | 89-2 | 1200321 | 1185773 | 1186101 | 1190732 | 0.70 | cps |
| Zinc | 66-2 | 120 | 137 | 170 | 142 | 17.90 | cps |
| Zirconium | 90-1 | 733 | 757 | 827 | 772 | 6.29 | cps |
| Zirconium | 91-1 | 123 | 153 | 147 | 141 | 11.16 | cps |

Alliance TECHNICAL GROUP

# Water Metals Preparation Sheet

PB164204

**SOP ID :** M200.8-Trace Elements-22

**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:** 10/17/2024 **Time :** 11:00 **Temp :** 95 °C

**End Digest Date:** 10/17/2024 **Time :** 14:10 **Temp :** 95 °C

**Digestion tube ID:** M5595

**Block thermometer ID:** MET-DIG. #1

**Dig Technician Signature:** JSP

**Supervisor Signature:**

**Temp :** 1. 95°C 2. N/A

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| Spike Sol 1 | 0.50 | MP82855 |
| Spike Sol 2 | 1.00 | MP82856 |
| Spike Sol 3 | 1.00 | MP82857 |
| Spike Sol 4 | 1.00 | MP82858 |
| Spike Sol 5 | 0.50 | MP82859 |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| 1:1 HNO3 | 1.00 | MP81119 |
| 1:1 HCL | 0.50 | MP82127 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

HOT BLOCK #1 CELL #50

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 10/17/24 14:20 | JSP / Met dig | Metals lab |
| | Preparation Group | Analysis Group |

| Lab Sample ID | Client Sample ID | pH | Initial Vol (ml) | Final Vol (ml) | Color Before | Color After | Clarity Before | Clarity After | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| P3846-02 | PT-TM1-WP | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 6 |
| P3846-04 | PT-SNTI-WP | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 7 |
| P3846-06 | PT-MIN2-WP | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 8 |
| PB164204BL | PBW204 | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 9 |
| PB164204BS | LCS204 | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | MP82855,MP82856,MP82857,M | 10 |

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** PB164204 **WorkList ID :** 184539 **Department :** Digestion **Date :** 10-17-2024 10:24:11

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P3846-02 | PT-TM1-WP | Water | Metals Group3 | Cool 4 deg C | CHEM02 | QA Of | 09/03/2024 | 200.8 |
| P3846-04 | PT-SNTI-WP | Water | Metals Group4 | Cool 4 deg C | CHEM02 | QA Of | 09/03/2024 | 200.8 |
| P3846-06 | PT-MIN2-WP | Water | Metals Group5 | Cool 4 deg C | CHEM02 | QA Of | 09/03/2024 | 200.8 |



**Date/Time** 10/17/24 10:30
**Raw Sample Received by:** jsp CMet Dig
**Raw Sample Relinquished by:** Metals Geol



**Date/Time** 10/17/24 11:30
**Raw Sample Received by:** Metals Geol
**Raw Sample Relinquished by:** jsp CMet Dig

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**Instrument ID:** P7

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132993

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 10/24/2024 4:10:34 AM |
| Supervise By | Mohan | Supervise On | 10/24/2024 4:11:21 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP82568,MP82577,MP82576,MP82574,MP82573,MP82572,MP82571,MP82570,MP82569 |
| ICV Standard | MP82578 |
| CCV Standard | MP82579 |
| ICSA Standard | MP82580,MP82581 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP82587,MP82586 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | TUNE | TUNE | TUNE | 10/17/24 10:48 | | Jaswal | OK |
| 2 | S0 | S0 | CAL1 | 10/17/24 16:19 | | Jaswal | OK |
| 3 | S2 | S2 | CAL3 | 10/17/24 16:23 | | Jaswal | OK |
| 4 | S3 | S3 | CAL4 | 10/17/24 16:26 | | Jaswal | OK |
| 5 | S4 | S4 | CAL5 | 10/17/24 16:29 | | Jaswal | OK |
| 6 | S5 | S5 | CAL6 | 10/17/24 16:33 | | Jaswal | OK |
| 7 | S6 | S6 | CAL7 | 10/17/24 16:36 | | Jaswal | OK |
| 8 | S7 | S7 | CAL8 | 10/17/24 16:41 | | Jaswal | OK |
| 9 | S8 | S8 | CAL9 | 10/17/24 16:44 | | Jaswal | OK |
| 10 | ICV01 | ICV01 | ICV | 10/17/24 17:03 | | Jaswal | OK |
| 11 | LLICV | LLICV | LLICV | 10/17/24 17:09 | | Jaswal | OK |
| 12 | ICB01 | ICB01 | ICB | 10/17/24 17:17 | | Jaswal | OK |
| 13 | ICSA01 | ICSA01 | ICSA | 10/17/24 17:20 | | Jaswal | OK |
| 14 | ICSAB01 | ICSAB01 | ICSAB | 10/17/24 17:23 | | Jaswal | OK |
| 15 | CCV01 | CCV01 | CCV | 10/17/24 18:04 | | Jaswal | OK |
| 16 | CCB01 | CCB01 | CCB | 10/17/24 18:07 | | Jaswal | OK |
| 17 | CRI | CRI | CRDL | 10/17/24 18:11 | | Jaswal | OK |
| 18 | P3847-02 | PT-TM1-WP | SAM | 10/17/24 18:25 | Ni,V High | Jaswal | Dilution |

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**Instrument ID:** P7

## Daily Analysis Runlog For Sequence/QCBatch ID # LB132993

| | | | |
|---|---|---|---|
| Review By | jaswal | Review On | 10/24/2024 4:10:34 AM |
| Supervise By | Mohan | Supervise On | 10/24/2024 4:11:21 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP82568,MP82577,MP82576,MP82574,MP82573,MP82572,MP82571,MP82570,MP82569 |
| ICV Standard | MP82578 |
| CCV Standard | MP82579 |
| ICSA Standard | MP82580,MP82581 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP82587,MP82586 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | P3847-04 | PT-SNTI-WP | SAM | 10/17/24 18:28 | Sn High | Jaswal | Dilution |
| 20 | P3847-06 | PT-MIN2-WP | SAM | 10/17/24 18:32 | INT_STD 45Sc(1&2) Fail | Jaswal | Dilution |
| 21 | P3846-02 | PT-TM1-WP | SAM | 10/17/24 18:35 | Ni,V High | Jaswal | Dilution |
| 22 | P3846-04 | PT-SNTI-WP | SAM | 10/17/24 18:38 | Sn High | Jaswal | Dilution |
| 23 | P3846-06 | PT-MIN2-WP | SAM | 10/17/24 18:41 | INT_STD 45Sc(1&2) Fail | Jaswal | Dilution |
| 24 | P3847-02DL | PT-TM1-WPDL | SAM | 10/17/24 18:45 | 2X for Ni,V | Jaswal | Confirms |
| 25 | P3847-04DL | PT-SNTI-WPDL | SAM | 10/17/24 18:48 | 2X For Sn | Jaswal | Confirms |
| 26 | P3847-06DL | PT-MIN2-WPDL | SAM | 10/17/24 18:51 | 5X For INT_STD 45Sc(1&2) | Jaswal | Confirms |
| 27 | CCV02 | CCV02 | CCV | 10/17/24 18:55 | | Jaswal | OK |
| 28 | CCB02 | CCB02 | CCB | 10/17/24 18:58 | | Jaswal | OK |
| 29 | P3846-02DL | PT-TM1-WPDL | SAM | 10/17/24 19:01 | 2X for Ni,V | Jaswal | Confirms |
| 30 | P3846-04DL | PT-SNTI-WPDL | SAM | 10/17/24 19:04 | 2X For Sn | Jaswal | Confirms |
| 31 | P3846-06DL | PT-MIN2-WPDL | SAM | 10/17/24 19:08 | 2X For INT_STD 45Sc(1&2) | Jaswal | Confirms |
| 32 | PB164203BL | PB164203BL | MB | 10/17/24 19:16 | | Jaswal | OK |
| 33 | PB164203BS | PB164203BS | LCS | 10/17/24 19:20 | | Jaswal | OK |
| 34 | PB164204BL | PB164204BL | MB | 10/17/24 19:22 | | Jaswal | OK |
| 35 | PB164204BS | PB164204BS | LCS | 10/17/24 19:26 | | Jaswal | OK |
| 36 | CCV03 | CCV03 | CCV | 10/17/24 19:29 | | Jaswal | OK |
| 37 | CCB03 | CCB03 | CCB | 10/17/24 19:35 | | Jaswal | OK |

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# Prep Standard - Chemical Standard Summary

**Order ID :** P3846

**Test :** Metals Group3,Metals Group4,Metals Group5

**Prepbatch ID :** PB164204,

**Sequence ID/Qc Batch ID:** LB132993,LB132993,LB132993,

**Standard ID :**
MP81119,MP82127,MP82568,MP82569,MP82570,MP82571,MP82572,MP82573,MP82574,MP82575,MP82576,MP82577,MP82578,MP82579,MP82580,MP82581,MP82585,MP82586,MP82587,MP82855,MP82856,MP82857,MP82858,MP82859,

**Chemical ID :**
M5192,M5288,M5295,M5304,M5390,M5473,M5476,M5496,M5498,M5513,M5515,M5519,M5658,M5697,M5698,M5739,M5751,M5768,M5769,M5798,M5799,M5800,M5801,M5802,M5806,M5815,M5817,M5818,M5819,M5873,M5874,M5935,M5961,M5962,M5976,M5978,M5981,M5982,M5983,M6021,M6023,M6025,M6028,M6030,M6033,M6037,M6040,M6055,W2606,W3112,

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 169 | 1:1HNO3 | MP81119 | 06/21/2024 | 04/24/2025 | Al-Terek Isaac | METALS_SCALE_2 (M SC-2) | METALS_PIPETTE_1 (ICP A) | Sarabjit Jaswal 06/21/2024 |

**FROM** 1250.00000ml of M5935 + 1250.00000ml of W2606 = Final Quantity: 2500.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 170 | 1:1HCL | MP82127 | 09/03/2024 | 02/08/2025 | Janvi Patel | None | None | Sarabjit Jaswal 09/03/2024 |

**FROM** 1250.00000ml of M6040 + 1250.00000ml of W3112 = 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 |
|---|---|---|---|---|---|---|---|---|
| 1122 | ICPMS CALIB BLANK(S0/ICB/CCB) | MP82568 | 09/28/2024 | 10/31/2024 | Sarabjit Jaswal | None | None | Mohan Bera 09/30/2024 |

**FROM** 25.00000ml of M6040 + 4925.00000ml of W3112 + 50.00000ml of M6037 = Final Quantity: 5000.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 2902 | S8 ICPMS | MP82569 | 09/28/2024 | 10/31/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 09/30/2024 |

**FROM** 1.00000ml of M6033 + 2.50000ml of M5288 + 2.50000ml of M5515 + 5.00000ml of M5498 + 5.00000ml of M5768 + 5.00000ml of M5806 + 79.00000ml of MP82568 = 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 |
|---|---|---|---|---|---|---|---|---|
| 3947 | S7(SFAM,6020,200.8) | MP82570 | 09/28/2024 | 10/31/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 09/30/2024 |

**FROM** 1.00000ml of M5818 + 1.00000ml of M5981 + 1.00000ml of M5983 + 1.90000ml of M6033 + 10.00000ml of M5976 + 10.00000ml of M5978 + 10.00000ml of M6037 + 2.00000ml of M5815 + 2.00000ml of M5817 + 2.50000ml of M5476 + 4.00000ml of M5390 + 4.00000ml of M6025 + 4.90000ml of M5515 + 4.90000ml of M5519 + 5.00000ml of M6040 + 50.00000ml of M5304 + 829.10000ml of W3112 + 9.00000ml of M5697 + 9.00000ml of M5698 + 9.00000ml of M5819 + 9.90000ml of M5498 + 9.90000ml of M5768 + 9.90000ml of M5806 = Final Quantity: 1000.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3948 | S6(SFAM,6020,200.8) | MP82571 | 09/28/2024 | 10/31/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 09/30/2024 |

**FROM** 0.50000ml of M6040 + 1.00000ml of M6037 + 88.50000ml of W3112 + 25.00000ml of MP82570 = 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 |
|---|---|---|---|---|---|---|---|---|
| 3949 | S5(SFAM,6020,200.8) | MP82572 | 09/28/2024 | 10/31/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 09/30/2024 |

**FROM** 0.50000ml of M6040 + 1.00000ml of M6037 + 73.50000ml of W3112 + 25.00000ml of MP82570 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3954 | S4(SFAM,6020,200.8) | MP82573 | 09/28/2024 | 10/31/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 09/30/2024 |

**FROM** 0.50000ml of M6040 + 1.00000ml of M6037 + 88.50000ml of W3112 + 12.50000ml of MP82570 = 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 |
|---|---|---|---|---|---|---|---|---|
| 3951 | S3(SFAM, 6020,200.8) | MP82574 | 09/28/2024 | 10/31/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 09/30/2024 |

**FROM** 0.50000ml of M6040 + 1.00000ml of M6037 + 88.50000ml of W3112 + 10.00000ml of MP82571 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3955 | S2CONC(SFAM,6020,200.8) | MP82575 | 09/28/2024 | 10/31/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 09/30/2024 |

**FROM** 0.05000ml of M5698 + 0.05000ml of M5798 + 0.05000ml of M5800 + 0.05000ml of M5801 + 0.05000ml of M5961 + 0.05000ml of M5981 + 0.05000ml of M5982 + 0.05000ml of M5983 + 0.05000ml of M6023 + 0.05000ml of M6025 + 0.05000ml of M6028 + 0.05000ml of M6030 + 0.10000ml of M5658 + 0.10000ml of M5697 + 0.10000ml of M5802 + 0.10000ml of M6033 + 0.25000ml of M5515 + 0.25000ml of M5799 + 0.25000ml of M5819 + 0.25000ml of M5962 + 0.25000ml of M5976 + 0.25000ml of M5978 + 0.25000ml of M6021 + 0.50000ml of M5390 + 0.50000ml of M5818 + 1.25000ml of M5815 + 1.25000ml of M5817 + 2.50000ml of M5498 + 2.50000ml of M5519 + 2.50000ml of M5769 + 2.50000ml of M5806 + 2.50000ml of M6040 + 226.25000ml of W3112 + 5.00000ml of M6037 = 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 |
|---|---|---|---|---|---|---|---|---|
| 3956 | S2(SFAM,6020,200.8) | MP82576 | 09/28/2024 | 10/31/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 09/30/2024 |

**FROM** 0.50000ml of M6040 + 1.00000ml of M6037 + 88.50000ml of W3112 + 0.50000ml of MP82575 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3957 | S1(SFAM,6020,200.8) | MP82577 | 09/28/2024 | 10/31/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 09/30/2024 |

**FROM** 0.50000ml of M6040 + 1.00000ml of M6037 + 88.50000ml of W3112 + 10.00000ml of MP82576 = 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 |
|---|---|---|---|---|---|---|---|---|
| 3958 | ICV(SFAM) | MP82578 | 09/28/2024 | 10/31/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 09/30/2024 |

**FROM** 2.00000ml of M5295 + 98.00000ml of MP82568 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3961 | CCV | MP82579 | 09/28/2024 | 10/31/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 09/30/2024 |

**FROM** 0.20000ml of M5513 + 0.50000ml of M5799 + 0.50000ml of M5818 + 0.50000ml of M5981 + 0.50000ml of M5983 + 1.00000ml of M5815 + 1.00000ml of M5817 + 1.25000ml of M5473 + 10.00000ml of M6037 + 12.45000ml of M5515 + 12.45000ml of M5519 + 2.00000ml of M5390 + 24.95000ml of M5498 + 24.95000ml of M5769 + 24.95000ml of M5806 + 25.00000ml of M5304 + 4.50000ml of M5697 + 4.50000ml of M5698 + 4.50000ml of M5819 + 4.95000ml of M6033 + 5.00000ml of M5976 + 5.00000ml of M5978 + 5.00000ml of M6040 + 824.35000ml of W3112 = Final Quantity: 1000.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1142 | ICSA ICPMS | MP82580 | 09/28/2024 | 10/31/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 09/30/2024 |

**FROM** 10.00000ml of M5873 + 90.00000ml of MP82568 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1143 | ICSAB ICPMS | MP82581 | 09/28/2024 | 10/31/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 09/30/2024 |

**FROM** 10.00000ml of M5873 + 10.00000ml of M5874 + 80.00000ml of MP82568 = 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 |
|---|---|---|---|---|---|---|---|---|
| 3962 | MG 10PPM FOR TUNE | MP82585 | 09/28/2024 | 10/31/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 09/30/2024 |

**FROM** 0.01000ml of M5768 + 9.99000ml of MP82568 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3894 | TUNE 200PPB | MP82586 | 09/28/2024 | 10/31/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 09/30/2024 |

**FROM** 2.00000ml of M6055 + 2.00000ml of MP82585 + 96.00000ml of MP82568 = 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 |
|---|---|---|---|---|---|---|---|---|
| 3903 | ISS 3PPM | MP82587 | 09/28/2024 | 10/31/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 09/30/2024 |

**FROM** 5.00000ml of M6037 + 75.00000ml of M5739 + 170.00000ml of MP82568 = Final Quantity: 250.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3880 | M&B SPIKE-1 | MP82855 | 10/17/2024 | 11/01/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 10/21/2024 |

**FROM** 5.00000ml of M5658 + 5.00000ml of M5798 + 5.00000ml of M5800 + 5.00000ml of M5802 + 5.00000ml of M5961 + 5.00000ml of M5962 + 5.00000ml of M5981 + 5.00000ml of M5982 + 5.00000ml of M5983 + 5.00000ml of M6021 + 5.00000ml of M6023 + 5.00000ml of M6028 + 5.00000ml of M6030 + 20.00000ml of MP82568 = Final Quantity: 50.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3881 | M&B SPIKE-2 | MP82856 | 10/17/2024 | 11/01/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 10/21/2024 |

**FROM** 10.00000ml of M5976 + 12.50000ml of M5390 + 12.50000ml of M5515 + 12.50000ml of M5519 + 2.50000ml of M5799 + 2.50000ml of M5818 + 5.00000ml of M5496 + 11.87500ml of MP82568 = Final Quantity: 50.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3882 | M&B SPIKE-3 | MP82857 | 10/17/2024 | 11/01/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 10/21/2024 |

**FROM** 0.62500ml of M5513 + 12.50000ml of M5698 + 12.50000ml of M5751 + 12.50000ml of M5819 + 11.87500ml of MP82568 = Final Quantity: 50.000 ml

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Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3900 | M&B SPIKE-4 | MP82858 | 10/17/2024 | 11/01/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 10/21/2024 |

**FROM** 6.25000ml of M5498 + 6.25000ml of M5769 + 6.25000ml of M5806 + 6.25000ml of MP82568 = Final Quantity: 25.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 4025 | M&B SPIKE-5 | MP82859 | 10/17/2024 | 11/01/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 10/21/2024 |

**FROM** 15.00000ml of M5192 + 15.00000ml of M5978 + 20.00000ml of MP82568 = Final Quantity: 50.000 ml

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57042 / Mo, 1000 PPM, 125 ml | 051722 | 05/17/2025 | 07/01/2022 / bin | 06/17/2022 / jaswal | M5192 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58119 / K, 10000 PPM, 500 ml | 071122 | 07/11/2025 | 09/01/2022 / jaswal | 07/21/2022 / jaswal | M5288 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| EPA | ICV-1 / ICV ( ICP/ICPMS ) STOCK SOLN | ICV-1014 | 02/05/2025 | 08/07/2024 / jaswal | 02/20/2020 / bin | M5295 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | 6020CAL-1 / Calibration Standard Method 6020 | S2-MEB711244 | 10/20/2026 | 08/07/2024 / jaswal | 04/01/2022 / jaswal | M5304 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57056 / Ba, 1000 PPM, 125 ml | 072122 | 07/21/2025 | 08/07/2024 / jaswal | 09/18/2022 / bin | M5390 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57138 / Sr, 10000 PPM, 125 ml | 082922 | 08/29/2025 | 03/16/2023 / jaswal | 03/16/2023 / jaswal | M5473 |

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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. | 57138 / Sr, 10000 PPM, 125 ml | 082922 | 08/09/2025 | 07/29/2024 / jaswal | 03/16/2023 / jaswal | M5476 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58113 / Al, 10000 PPM, 500 ml | 011623 | 01/16/2026 | 08/15/2023 / jaswal | 03/17/2023 / bin | M5496 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58120 / Ca, 10000 PPM, 500 ml | 031523 | 03/15/2026 | 08/15/2023 / jaswal | 03/17/2023 / bin | M5498 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57182 / Pb, 10000 PPM, 125 ml | 061522 | 06/15/2025 | 03/19/2023 / bin | 03/17/2023 / bin | M5513 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58126 / Fe, 10000 PPM, 500 ml | 092122 | 09/21/2025 | 08/01/2024 / Jaswal | 03/17/2023 / bin | M5515 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57119 / Potassium (K) 10,000PPM | 120822 | 12/08/2025 | 01/08/2024 / bin | 03/17/2023 / bin | M5519 |

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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. | 58024 / Chromium, Cr, 500 ml, 1000 PPM | 060523 | 06/05/2026 | 08/28/2023 / jaswal | 08/25/2023 / jaswal | M5658 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58029 / Cu, 1000 PPM, 500 ml | 102523 | 10/25/2026 | 04/03/2024 / jaswal | 10/27/2023 / jaswal | M5697 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58025 / Mn, 1000 PPM, 500 ml | 102623 | 10/26/2026 | 04/18/2024 / jaswal | 10/27/2023 / jaswal | M5698 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | 6020ISS / 6020ISS, 10 ug/ml, Bi, Ho, In, 6Li, Rh, Sc, TB, Y | T2-MEB709511 | 09/03/2026 | 08/07/2024 / jaswal | 04/11/2022 / jaswal | M5739 |

| 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. | 58112 / Mg, 10000 PPM, 500 ml | 091823 | 09/18/2026 | 01/08/2024 / bin | 01/03/2024 / bin | M5768 |

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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 | 091823 | 09/18/2026 | 05/24/2024 / Jaswal | 01/03/2024 / bin | M5769 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57004 / Be, 1000 PPM, 125 ml | 102523 | 10/25/2026 | 02/09/2024 / bin | 02/09/2024 / bin | M5798 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57050 / Sn, 1000 PPM, 125 ml | 071123 | 07/11/2026 | 02/09/2024 / bin | 02/09/2024 / bin | M5799 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57027 / CO, 1000 PPM, 125 ml | 091923 | 09/19/2026 | 05/31/2024 / bin | 02/09/2024 / bin | M5800 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57033 / As, 1000 PPM, 125 ml | 111323 | 11/13/2026 | 02/09/2024 / bin | 02/09/2024 / bin | M5801 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57051 / Sb, 1000 PPM, 125 ml | 120523 | 12/05/2026 | 08/07/2024 / jaswal | 01/03/2024 / jaswal | M5802 |

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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. | 58111 / Na, 10000 PPM, 500 ml | 122223 | 12/22/2026 | 08/01/2024 / Jaswal | 01/03/2024 / jaswal | M5806 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57115 / P, 10000 PPM, 125 ml | 041723 | 04/17/2026 | 05/21/2024 / Jaswal | 02/09/2024 / jaswal | M5815 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57116 / S, 10000 PPM, 125 ml | 071123 | 07/11/2026 | 03/01/2024 / jaswal | 02/09/2024 / jaswal | M5817 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57014 / Si, 1000 PPM, 125 ml | 122023 | 12/20/2026 | 03/06/2024 / jaswal | 02/09/2024 / jaswal | M5818 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58030 / Zinc, Zn, 500 ml, 1000 PPM | 111623 | 11/16/2026 | 03/20/2024 / jaswal | 02/09/2024 / jaswal | M5819 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| EPA | PART A / ICSA ( ICPMS ) STOCK SOLN | CP-MS ICSA-0803 | 04/30/2025 | 04/17/2024 / jaswal | 07/14/2022 / jaswal | M5873 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| EPA | PART B / ICSB (ICPMS) STOCK SOLUTION | CP-MS ICSB-0803 | 04/30/2025 | 04/17/2024 / jaswal | 07/14/2022 / jaswal | M5874 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L) | 24D1062002 | 12/08/2024 | 06/21/2024 / Al-Terek | 06/07/2024 / Al-Terek | M5935 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57028 / Ni, 1000 PPM, 125 ml | 041124 | 04/11/2027 | 07/02/2024 / Jaswal | 06/11/2024 / Jaswal | M5961 |

| 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 # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | CGMO1-1 / MOLYBDENUM 125mL 1000ug/mL | T2-MO720876 | 07/17/2027 | 08/07/2024 / jaswal | 02/22/2024 / Jaswal | M5976 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | CGTI1-1 / TITANIUM 125mL 1000ug/mL | T2-TI719972 | 06/17/2027 | 08/07/2024 / jaswal | 02/22/2024 / Jaswal | M5978 |

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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. | 57092 / U, 1000 PPM, 125 ml | 060724 | 06/07/2027 | 07/29/2024 / Jaswal | 06/11/2024 / Jaswal | M5981 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57038 / Sr, 1000 PPM, 125 ml | 031524 | 03/15/2027 | 07/01/2024 / Jaswal | 06/11/2024 / Jaswal | M5982 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57040 / Zr, 1000 PPM, 125 ml | 071423 | 07/14/2026 | 07/29/2024 / Jaswal | 06/11/2024 / Jaswal | M5983 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57023 / V, 1000 PPM, 125 ml | 062424 | 06/24/2027 | 09/28/2024 / jaswal | 08/05/2024 / Jaswal | M6021 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57081 / Tl, 1000 PPM, 125 ml | 0624724 | 06/27/2027 | 08/05/2024 / kareem | 08/05/2024 / Jaswal | M6023 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57082 / Pb, 1000 PPM, 125 ml | 061224 | 06/12/2027 | 08/05/2024 / Jaswal | 08/05/2024 / Jaswal | M6025 |

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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. | 57048 / Cd, 1000 PPM, 125 ml | 070124 | 07/01/2027 | 08/05/2024 / kareem | 01/25/2019 / 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. | 58113 / Al, 10000 PPM, 500 ml | 011623 | 01/16/2026 | 08/07/2024 / Jaswal | 01/03/2024 / Jaswal | M6033 |

| 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 | 02/02/2025 | 08/24/2024 / Janvi | 08/01/2024 / Janvi | M6037 |

| 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) | 24D1562005 | 02/08/2025 | 08/09/2024 / Janvi | 08/01/2024 / Janvi | M6040 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | IV-STOCK-12 / ICP-MS TUNING SOLUTION, 125mL | U2-MEB734294 | 06/21/2028 | 08/21/2024 / Jaswal | 08/19/2024 / Jaswal | M6055 |

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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 | DIW / DI Water | Daily Lab-Certified | 10/24/2024 | 10/24/2019 / apatel | 10/24/2019 / apatel | W2606 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | DIW / DI Water | Daily Lab-Certified | 07/03/2029 | 07/03/2024 / Iwona | 07/03/2024 / Iwona | W3112 |

**Absolute Standards, Inc.**
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***Certified Reference Material CRM***

M6028

R 8/5/24

ANAB ISO 17034 Accredited
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## 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

**Weight shown below was diluted to (mL):** 2000.07 ± 0.100 Flask Uncertainty

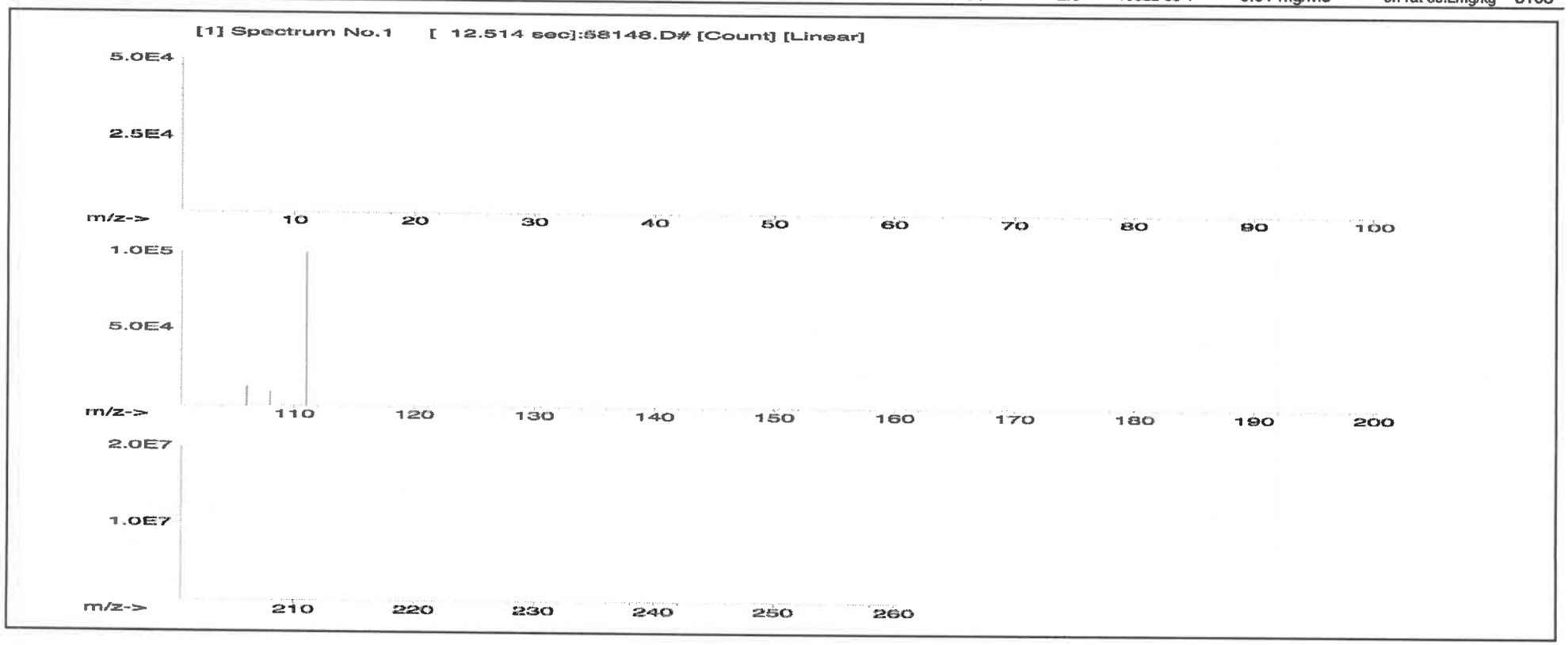
| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 24002546 | Nitric Acid | |
| 2% | 40.0 (mL) | Nitric Acid | |

5E-05 Balance 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 |



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**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | T | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

**Absolute Standards, Inc.**
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***Certified Reference Material CRM***

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R: 8/5/24

CERTIFIED WEIGHT REPORT:

**Part Number:** 57182
**Lot Number:** 110923
**Description:** Lead (Pb)

**Expiration Date:** 110926
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB

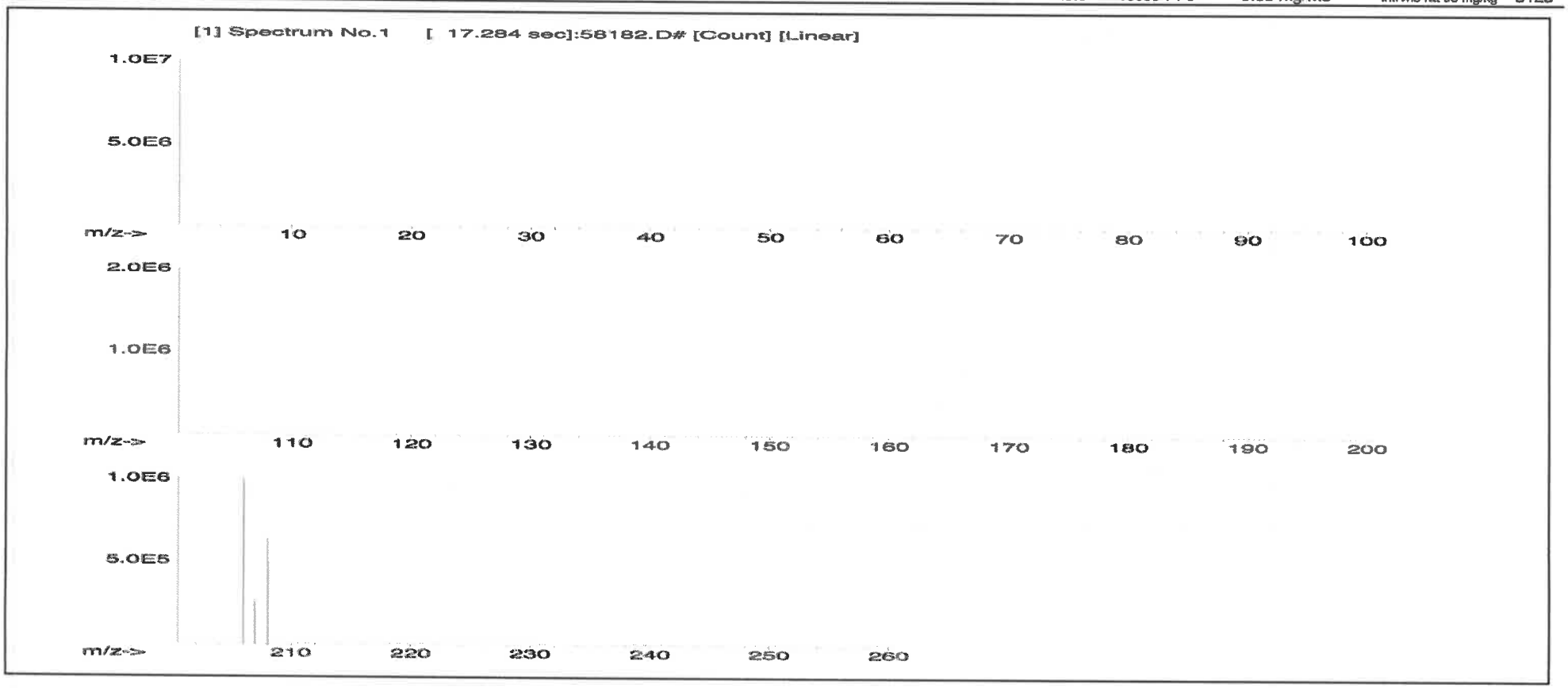
**Weight shown below was diluted to (mL):** 2000.02 0.058 Flask Uncertainty

| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 24002546 | Nitric Acid | |
| 2% | 40.0 (mL) | Nitric Acid | |

5E-05 Balance Uncertainty

| | | |
|---|---|---|
| Formulated By: | Lawence Barry | 110923 |
| Reviewed By: | Pedro L. Rentas | 110923 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Lead(II) nitrate (Pb) | IN029 | PBD122016A1 | 10000 | 99.999 | 0.10 | 62.5 | 32.0006 | 32.0040 | **10001.1** | **20.0** | 10099-74-8 | 0.05 mg/m3 | intrvns-rat 93 mg/kg | 3128 |



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*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 | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | T | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5192 R: 06/17/22

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CERTIFIED WEIGHT REPORT:

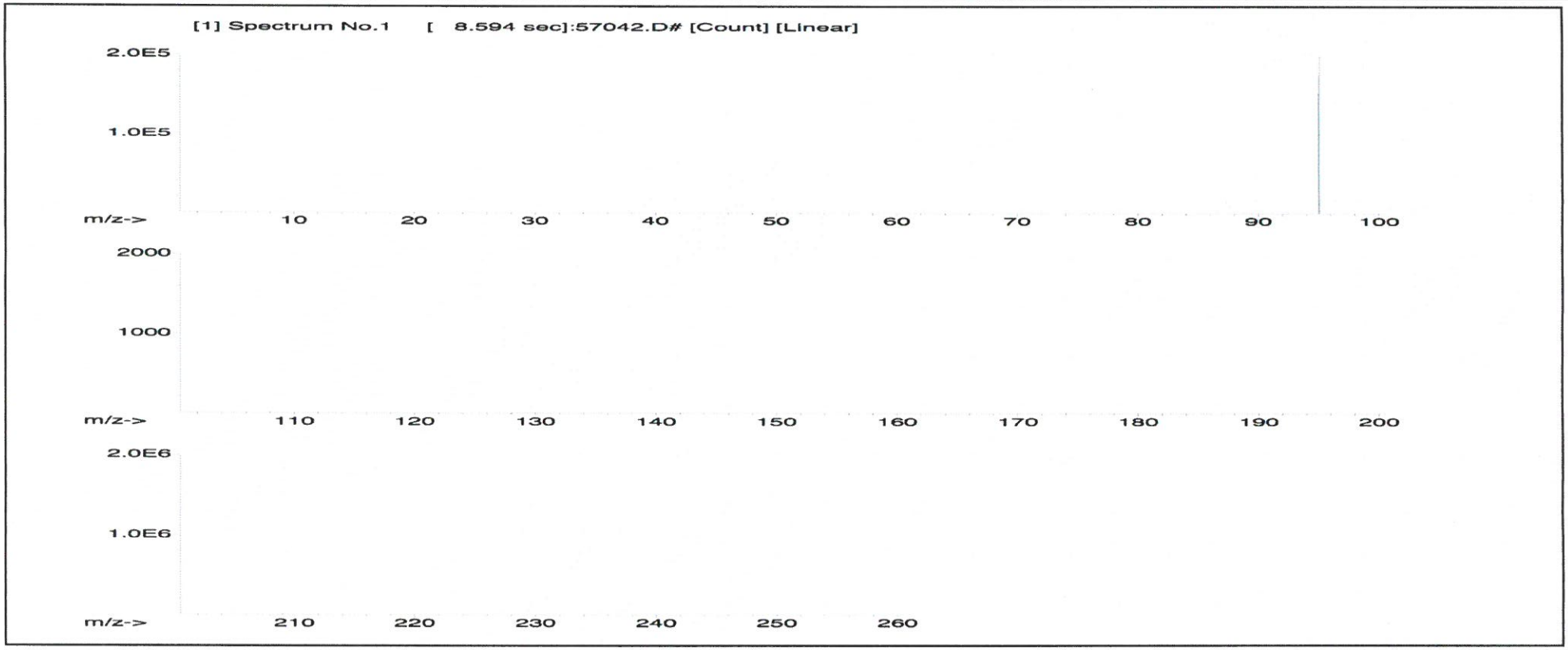
**Part Number:** 57042
**Lot Number:** 051722
**Description:** Molybdenum (Mo)
**Expiration Date:** 051725
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB
**Volume shown below was diluted to (mL):** 3000.41

| Lot # | Solvent: | | |
|---|---|---|---|
| MKBQ8597V | Ammonium hydroxide | | |
| 0.5% | 15.0 (mL) | Ammonium hydroxide | |
| | 5E-05 | Balance Uncertainty | |
| | 0.058 | Flask Uncertainty | |

Formulated By: Lawrence Barry 051722

Reviewed By: Pedro L. Rentas 051722

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Ammonium molybdate (Mo) | 58142 | 022222 | 0.1000 | 300.0 | 0.084 | 1000 | 10001.0 | **1000.0** | **2.1** | 13106-76-8 | 5 mg(Mo)/m3 | orl-rat 333 mg/kg | 3134 |



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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 | T | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

**Part Number:** 58119
**Lot Number:** 071122
**Description:** Potassium (K)

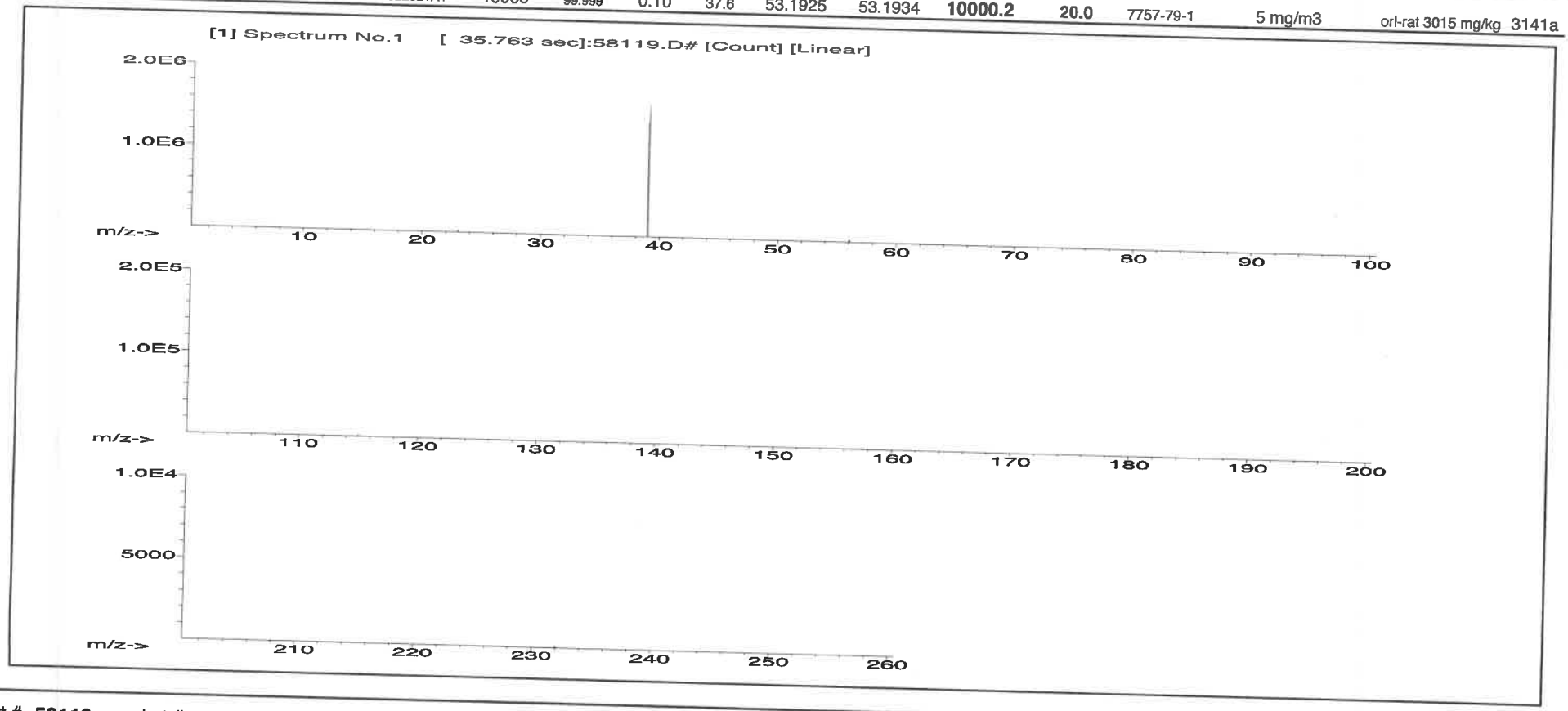
**Expiration Date:** 071125
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 2000.02

| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 20510011 | Nitric Acid | |
| 2% | 40.0 (mL) | Nitric Acid | |

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

Formulated By: Lawrence Barry 071122
Reviewed By: Pedro L. Rentas 071122

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Potassium nitrate (K) | IN034 | KD022021A1 | 10000 | 99.999 | 0.10 | 37.6 | 53.1925 | 53.1934 | **10000.2** | **20.0** | 7757-79-1 | 5 mg/m3 | orl-rat 3015 mg/kg | 3141a |



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | T | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

**Certified by:**

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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R : 4/20/21

## QATS LABORATORY INORGANIC REFERENCE MATERIAL
## INITIAL CALIBRATION VERIFICATION SOLUTIONS
## (ICV1, ICV5, AND ICV6)

**NOTE:** These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

***APPLICATION:*** For use with the CLP SFAM01.0 SOW and revisions.

***CAUTION:*** Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Metals in Dilute Acidic or
Cyanide in Basic Aqueous Solutions
**HAZARDOUS MATERIAL**

Safety Data Sheets
Available Upon Request

M5291
M5292
M5293
M5294
M5295

### (A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.**

### (B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

**QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY**
**APTIM Federal Services, LLC**
**2700 Chandler Avenue - Building C**
**Las Vegas, NV 89120**

### (C) *ANALYSIS OF SAMPLES*

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

**ICV1-1014** For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.

**ICV1-1014** For ICP-MS analysis, use a 50-fold dilution by pipetting 2 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

**ICV5-0415** For the cold vapor analysis of mercury by AA, use a 100-fold dilution by pipetting 1 mL of the ICV5 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

**ICV6-0400** For the analysis of cyanide, use a 100-fold dilution by pipetting 1 mL of the ICV6 concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

**NOTE:** USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

## (D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

| ICV1-1014 | | |
|---|---|---|
| **Element** | **Concentration (µg/L) (after 10-fold dilution)** | **Concentration (µg/L) (after 50-fold dilution)** |
| **Al** | 2500 | 500 |
| **Sb** | 1000 | 200 |
| **As** | 1000 | 200 |
| **Ba** | 520 | 100 |
| **Be** | 510 | 100 |
| **Cd** | 510 | 100 |
| **Ca** | 10000 | 2000 |
| **Cr** | 520 | 100 |
| **Co** | 520 | 100 |
| **Cu** | 510 | 100 |
| **Fe** | 10000 | 2000 |
| **Pb** | 1000 | 200 |
| **Mg** | 6000 | 1200 |
| **Mn** | 520 | 100 |
| **Ni** | 530 | 110 |
| **K** | 9900 | 2000 |
| **Se** | 1000 | 200 |
| **Ag** | 250 | 50 |
| **Na** | 10000 | 2000 |
| **Tl** | 1000 | 210 |
| **V** | 500 | 100 |
| **Zn** | 1000 | 200 |

| ICV5-0415 | | ICV6-0400 | |
|---|---|---|---|
| **Element** | **Concentration (µg/L) (after 100-fold dilution)** | **Analyte** | **Concentration (µg/L) (after 100-fold dilution)** |
| **Hg** | 4.0 | **$CN^-$** | 99 |

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: | 6020CAL-1 |
| Lot Number: | S2-MEB711244 |
| Matrix: | 5% (v/v) HNO3<br>tr. HF |
| Value / Analyte(s): | 20 µg/mL ea: |

| | |
|---|---|
| Silver, | Aluminum, |
| Arsenic, | Barium, |
| Beryllium, | Calcium, |
| Cadmium, | Cobalt, |
| Chromium, | Copper, |
| Iron, | Potassium, |
| Magnesium, | Manganese, |
| Sodium, | Nickel, |
| Lead, | Antimony, |
| Selenium, | Thallium, |
| Vanadium, | Zinc |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|---|---|---|---|
| **Aluminum, Al** | **20.01 ± 0.08 µg/mL** | **Antimony, Sb** | **20.01 ± 0.12 µg/mL** |
| **Arsenic, As** | **20.01 ± 0.18 µg/mL** | **Barium, Ba** | **20.01 ± 0.11 µg/mL** |
| **Beryllium, Be** | **20.01 ± 0.14 µg/mL** | **Cadmium, Cd** | **20.01 ± 0.11 µg/mL** |
| **Calcium, Ca** | **20.01 ± 0.10 µg/mL** | **Chromium, Cr** | **20.01 ± 0.16 µg/mL** |
| **Cobalt, Co** | **20.01 ± 0.11 µg/mL** | **Copper, Cu** | **20.01 ± 0.10 µg/mL** |
| **Iron, Fe** | **20.01 ± 0.09 µg/mL** | **Lead, Pb** | **20.01 ± 0.11 µg/mL** |
| **Magnesium, Mg** | **19.99 ± 0.10 µg/mL** | **Manganese, Mn** | **20.01 ± 0.10 µg/mL** |
| **Nickel, Ni** | **20.01 ± 0.11 µg/mL** | **Potassium, K** | **20.01 ± 0.10 µg/mL** |
| **Selenium, Se** | **20.02 ± 0.14 µg/mL** | **Silver, Ag** | **20.02 ± 0.09 µg/mL** |
| **Sodium, Na** | **20.01 ± 0.10 µg/mL** | **Thallium, Tl** | **20.01 ± 0.13 µg/mL** |
| **Vanadium, V** | **20.01 ± 0.11 µg/mL** | **Zinc, Zn** | **20.01 ± 0.11 µg/mL** |

**Density:** 1.026 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 |
| As | ICP Assay | 3103a | 100818 |
| 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 |
| 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 |
| Fe | Calculated | | See Sec. 4.2 |
| 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 |
| Pb | ICP Assay | 3128 | 101026 |
| Pb | EDTA | 928 | 928 |
| Se | ICP Assay | 3149 | 100901 |
| Se | Calculated | | See Sec. 4.2 |
| Tl | ICP Assay | 3158 | 151215 |
| Tl | Calculated | | See Sec. 4.2 |
| 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:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

**Characterization of CRM/RM by One Method**

**Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:**

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

$X_a$ = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

**HF Note:** This standard should not be prepared or stored in glass.

**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

October 20, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

### 11.2 Lot Expiration Date

- **October 20, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

### 11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Michael Booth
Director, Quality Control



**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director



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R: 09/08/22 (BA)

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M5387 . M5389 . M5390 . M5391 . M5392

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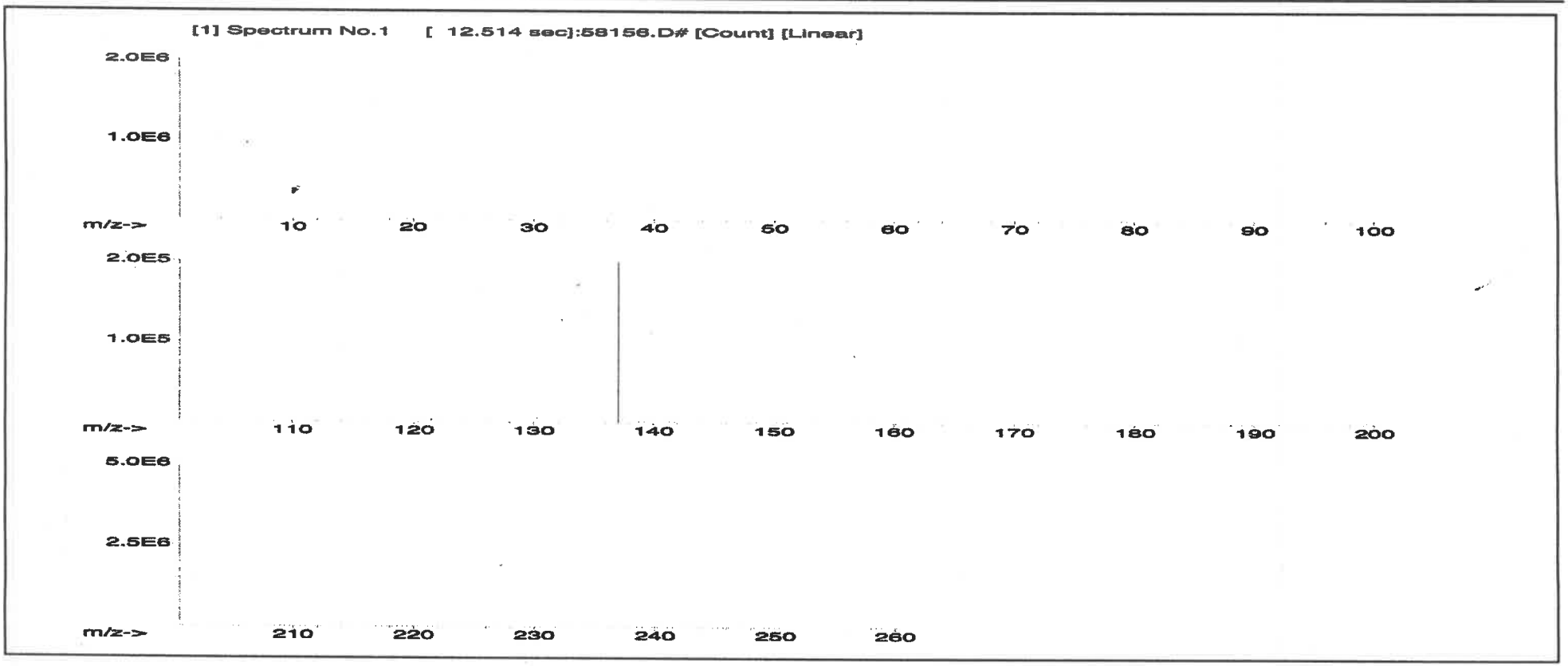
## CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **57056** | | **Lot #** | | |
| **Lot Number:** | **072122** | **Solvent:** | 20510011 | Nitric Acid | |
| **Description:** | **Barium (Ba)** | 2% | 40.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 072125 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | | |

Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 072122 |
| Reviewed By: | Pedro L. Rentas | 072122 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Barium nitrate (Ba) | IN023 | BAD022019A1 | 1000 | 99.999 | 0.10 | 52.3 | 3.82417 | 3.82426 | **1000.0** | **2.0** | 10022-31-8 | 0.5 mg/m3 | orl-rat 355 mg/kg | 3104a |



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | T | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5497 - M5498 R: 03/17/23 (BP)

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## CERTIFIED WEIGHT REPORT:

**Part Number:** 58120
**Lot Number:** 031523
**Description:** Calcium (Ca)

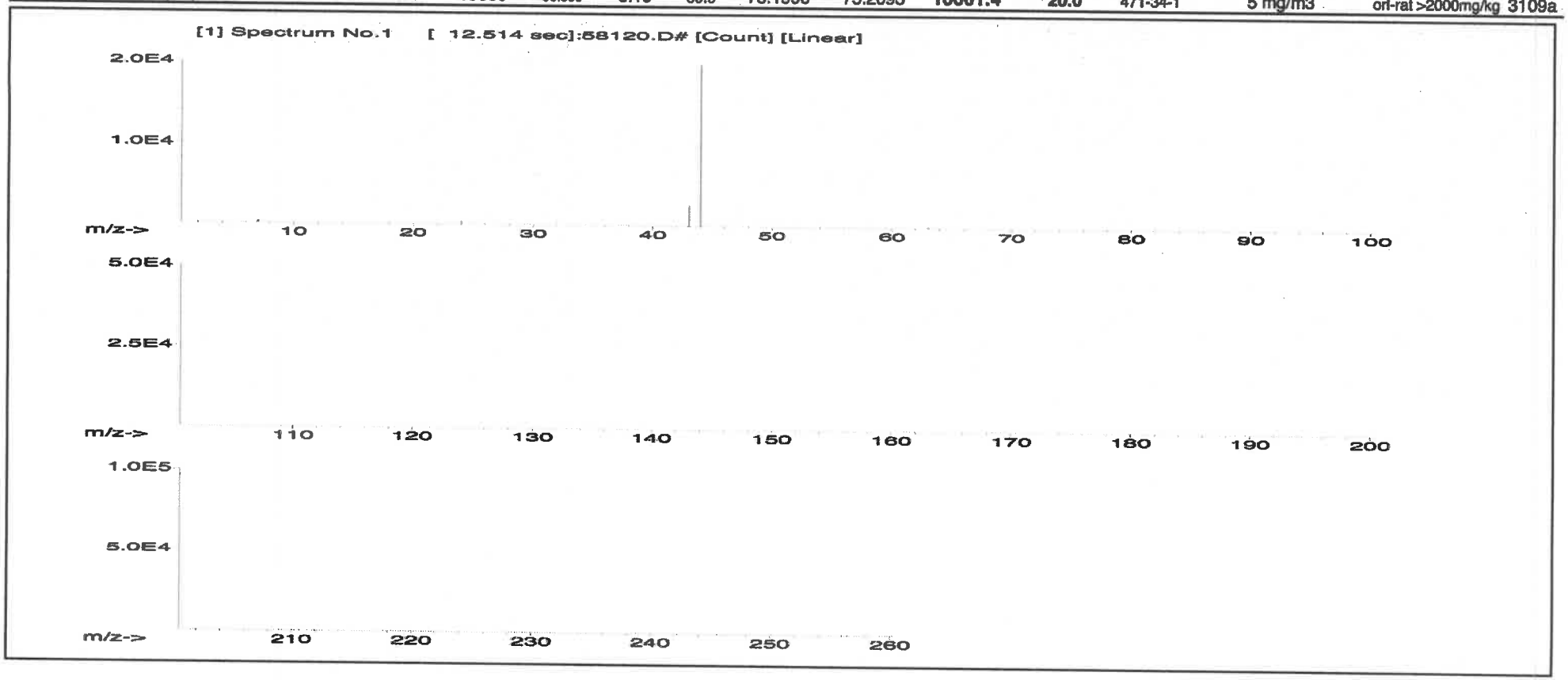
**Expiration Date:** 031526
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 3000.41

| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 21110221 | Nitric Acid | |
| 2% | 60.0 (mL) | Nitric Acid | |
| | 5E-05 | Balance Uncertainty | |
| | 0.058 | Flask Uncertainty | |

Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 031523 |
| Reviewed By: | Pedro L. Rentas | 031523 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Calcium carbonate (Ca) | IN014 | CAD072022A1 | 10000 | 99.999 | 0.10 | 39.9 | 75.1990 | 75.2093 | **10001.4** | **20.0** | 471-34-1 | 5 mg/m3 | orl-rat >2000mg/kg | 3109a |



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | T | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M 5513 R: 03/17/23 BF

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## CERTIFIED WEIGHT REPORT:

**Part Number:** 57182
**Lot Number:** 061522
**Description:** Lead (Pb)

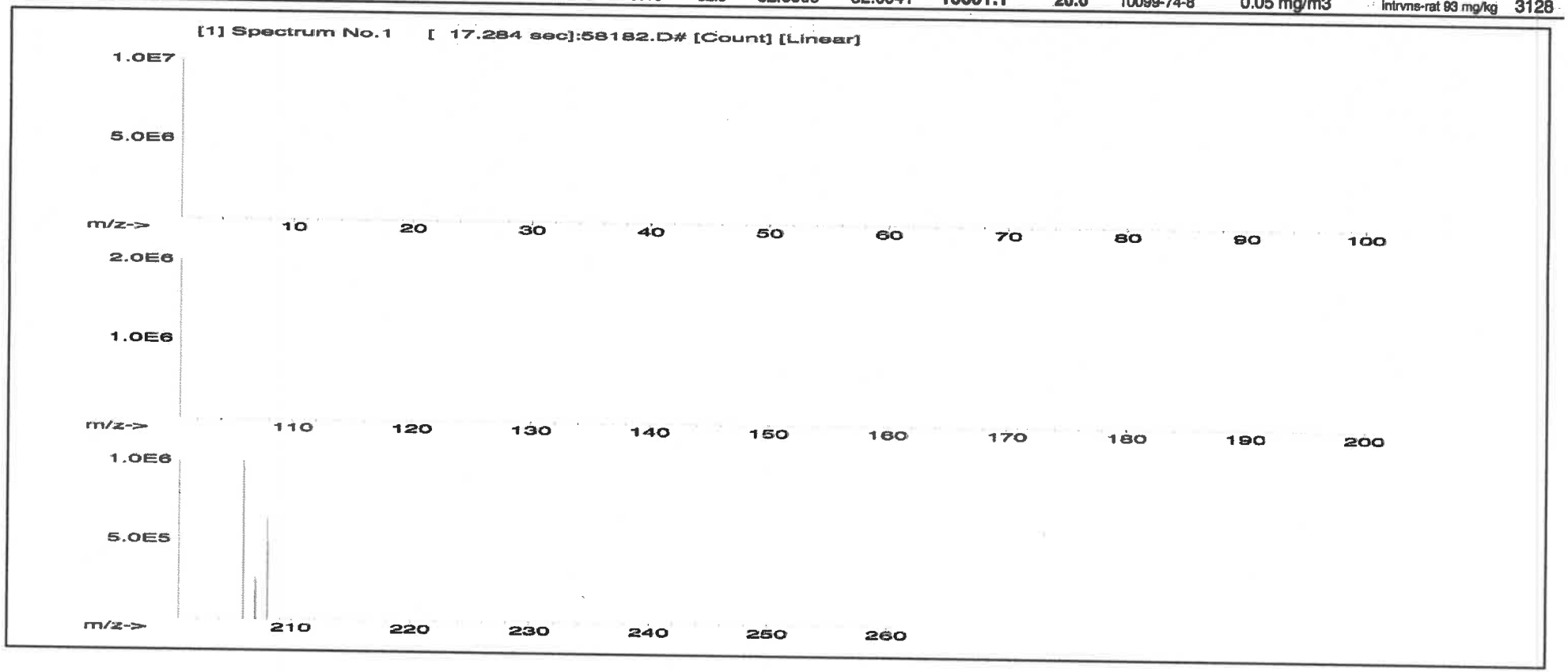
**Expiration Date:** 061525
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 2000.02

| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 20510011 | Nitric Acid | |
| 2% | 40.0 (mL) | Nitric Acid | |
| | 5E-05 | Balance Uncertainty | |
| | 0.058 | Flask Uncertainty | |

Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 061522 |
| Reviewed By: | Pedro L. Rentas | 061522 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Lead(II) nitrate (Pb) | IN029 | PBD122016A1 | 10000 | 99.999 | 0.10 | 62.5 | 32.0006 | 32.0041 | **10001.1** | **20.0** | 10099-74-8 | 0.05 mg/m3 | Intrvns-rat 93 mg/kg | 3128 |



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | T | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

Certified by:

**Homogeneity: No heterogeneity was observed in the preparation of this standard.**

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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MS514 - MS515 R: 03/17/22

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## CERTIFIED WEIGHT REPORT:

**Part Number:** 58126
**Lot Number:** 092122
**Description:** Iron (Fe)

**Expiration Date:** 092125
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB

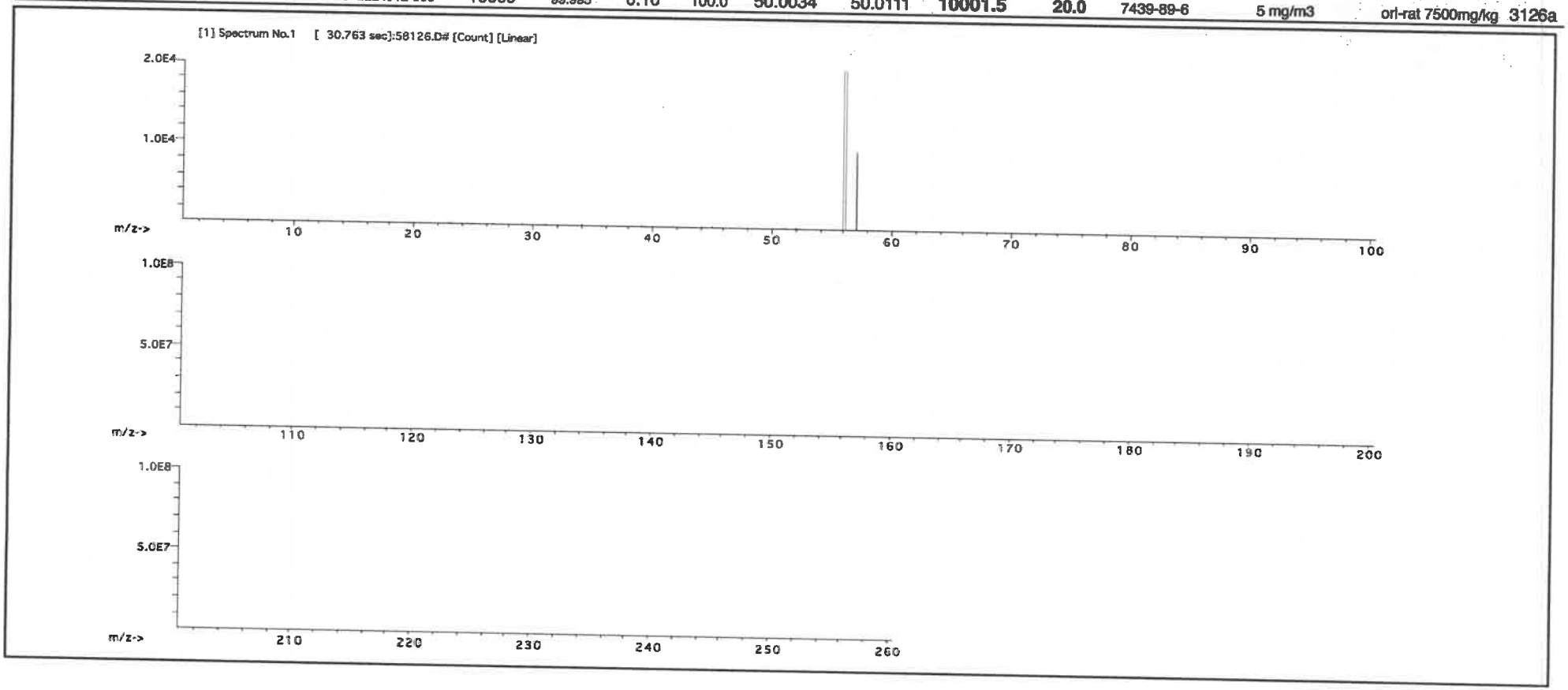
**Weight shown below was diluted to (mL):** 5000.1 | 0.12 Flask Uncertainty | 5E-05 Balance Uncertainty

| | Lot # | |
|---|---|---|
| **Solvent:** | 20510011 | Nitric Acid |
| 7.0% | 350.0 (mL) | Nitric Acid |

Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 092122 |
| Reviewed By: | Pedro L. Rentas | 092122 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Iron (Fe) | IN346 | 2224912-500 | 10000 | 99.995 | 0.10 | 100.0 | 50.0034 | 50.0111 | **10001.5** | **20.0** | 7439-89-6 | 5 mg/m3 | orl-rat 7500mg/kg | 3126a |



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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 | <0.10 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.10 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.05 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.10 | Ge | <0.10 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.05 |
| B | <0.02 | Cu | <0.10 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M519. M520 BH R:03/17/23

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CERTIFIED WEIGHT REPORT:

**Part Number:** 58119
**Lot Number:** 120822
**Description:** Potassium (K)

**Expiration Date:** 120825
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 3000.4 0.06 Flask Uncertainty

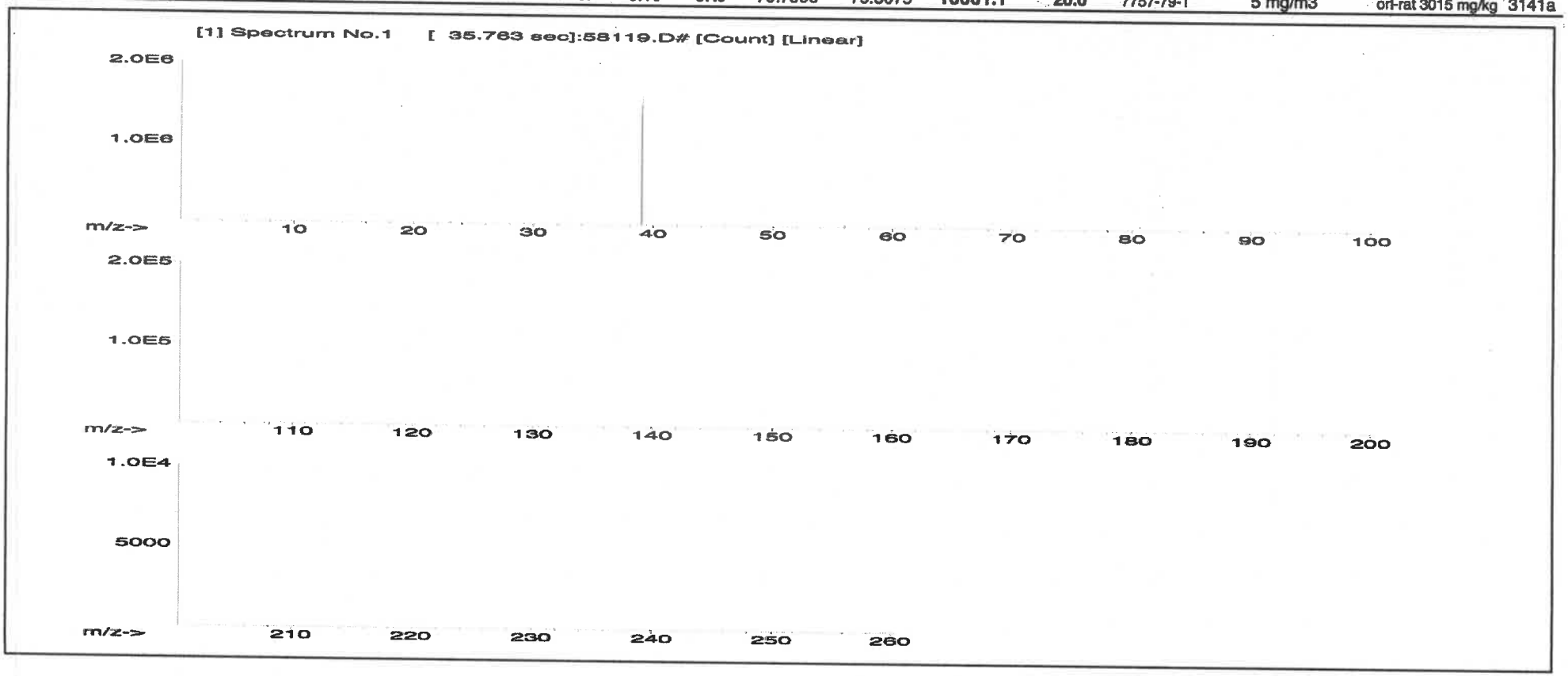
| | | Lot # | |
|---|---|---|---|
| **Solvent:** | 20510011 | | Nitric Acid |
| | 2% | 60.0 (mL) | Nitric Acid |

5E-05 Balance Uncertainty

Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 120822 |
| Reviewed By: | Pedro L. Rentas | 120822 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Potassium nitrate (K) | IN034 | KD022021A1 | 10000 | 99.999 | 0.10 | 37.6 | 79.7990 | 79.8075 | **10001.1** | **20.0** | 7757-79-1 | 5 mg/m3 | orl-rat 3015 mg/kg | 3141a |



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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:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

**Certified by:**

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5658 R ! 8/25/23

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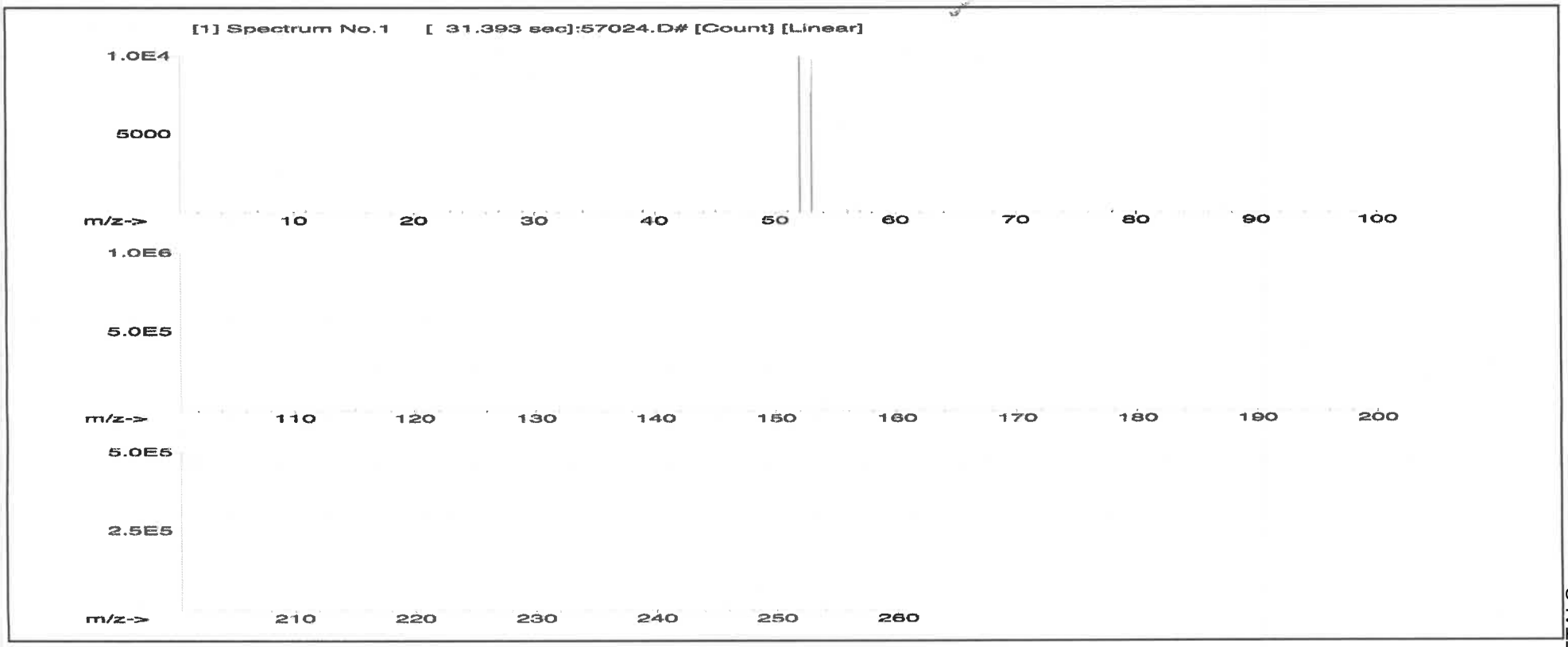


CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | |
|---|---|---|---|---|
| **Part Number:** | **58024** | 21110221 | Nitric Acid | |
| **Lot Number:** | **060523** | | | |
| **Description:** | **Chromium (Cr)** | | | |
| | | 2.0% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 060526 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Volume shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | |

| | | |
|---|---|---|
| Formulated By: | Lawrence Barry | 060523 |
| Reviewed By: | Pedro L. Rentas | 060523 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Chromium(III) nitrate nonahydrate (Cr) | 58124 | 071122 | 0.1000 | 200.0 | 0.084 | 1000 | 10000.1 | **1000.0** | **2.2** | 7789-02-8 | 0.5 mg(Cr)/m3 | orl-rat 3250 mg/kg | 3112a |



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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:

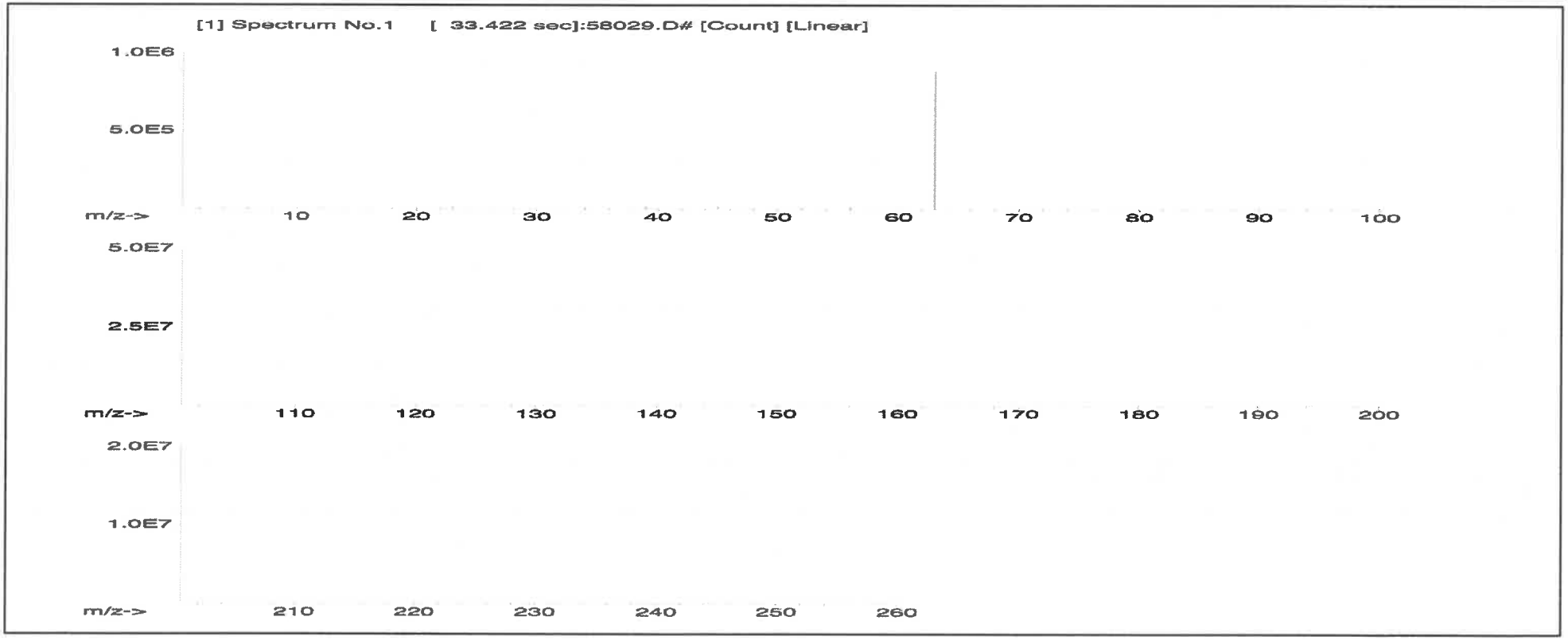
| | | Lot # | Solvent: |
|---|---|---|---|
| **Part Number:** | **58029** | 24002546 | Nitric Acid |
| **Lot Number:** | **102523** | | |
| **Description:** | **Copper (Cu)** | | |

| | | | | |
|---|---|---|---|---|
| | | 2.0% | 40.0 (mL) | Nitric Acid |

| | | |
|---|---|---|
| **Expiration Date:** | 102526 | |
| **Recommended Storage:** | Ambient (20 °C) | |
| **Nominal Concentration (µg/mL):** | **1000** | |
| **NIST Test Number:** | 6UTB | 5E-05 Balance Uncertainty |
| **Volume shown below was diluted to (mL):** | 2000.02 | 0.058 Flask Uncertainty |

| Formulated By: | Benson Chan | 102523 |
|---|---|---|
| Reviewed By: | Pedro L. Rentas | 102523 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Copper(II) nitrate trihydrate (Cu) | 58129 | 100223 | 0.1000 | 200.0 | 0.084 | 1000 | 10000.1 | **1000.0** | **2.2** | 10031-43-3 | 1 mg/m3 | orl-rat 794 mg/kg | 3114 |



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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:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

**Certified by:**

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* 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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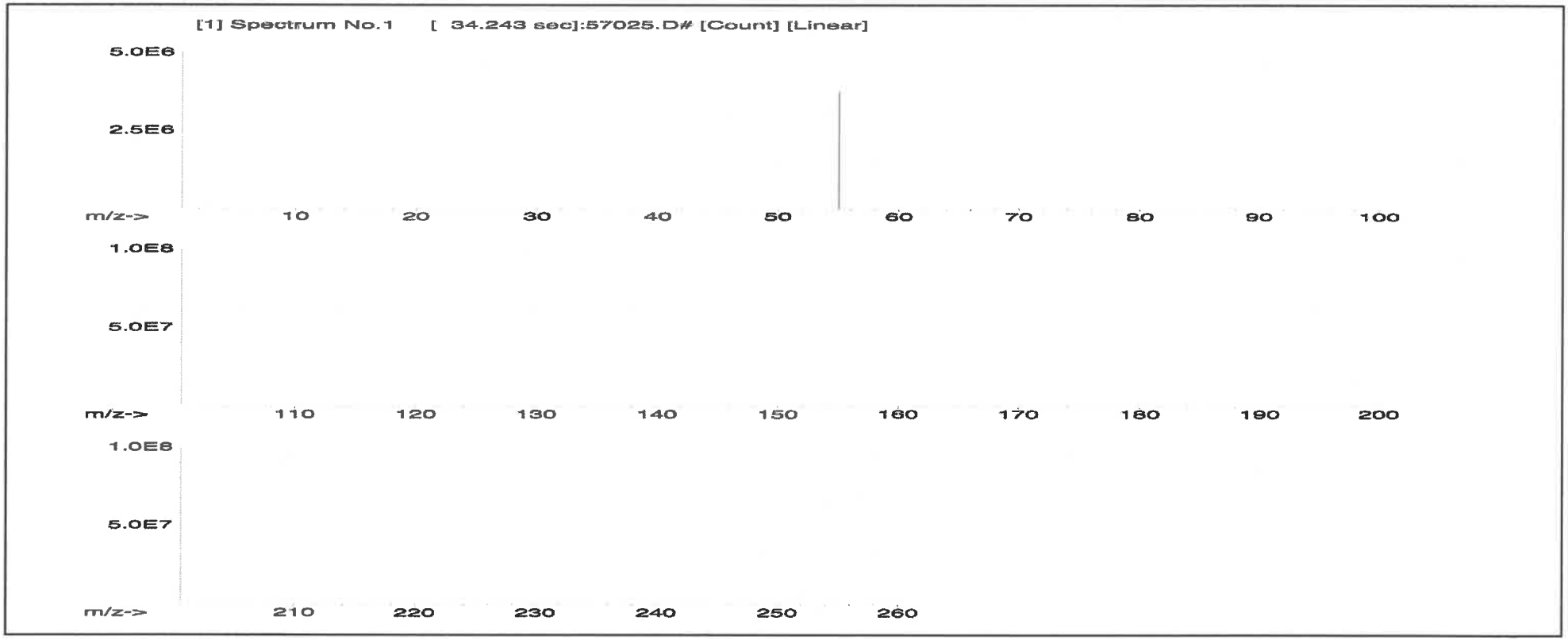
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CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: |
|---|---|---|---|
| **Part Number:** | **58025** | 24002546 | Nitric Acid |
| **Lot Number:** | **102623** | | |
| **Description:** | **Manganese (Mn)** | | |
| | | 2.0% | 60.0 (mL) Nitric Acid |
| **Expiration Date:** | 102626 | | |
| **Recommended Storage:** | Ambient (20 °C) | | |
| **Nominal Concentration (µg/mL):** | **1000** | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty |
| **Volume shown below was diluted to (mL):** | 3000.41 | 0.058 | Flask Uncertainty |

| | |
|---|---|
| Formulated By: | Benson Chan 102623 |
| Reviewed By: | Pedro L. Rentas 102623 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Manganese(II) nitrate tetrahydrate (Mn) | 58125 | 071123 | 0.1000 | 300.0 | 0.084 | 1000 | 10000.1 | **1000.0** | **2.1** | 20694-39-7 | 5 mg/m3 | orl-rat >300mg/kg | 3132 |



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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 | 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 balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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* 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).



art # **58025** Lot # **102623**

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R: 8/25/23 M5751

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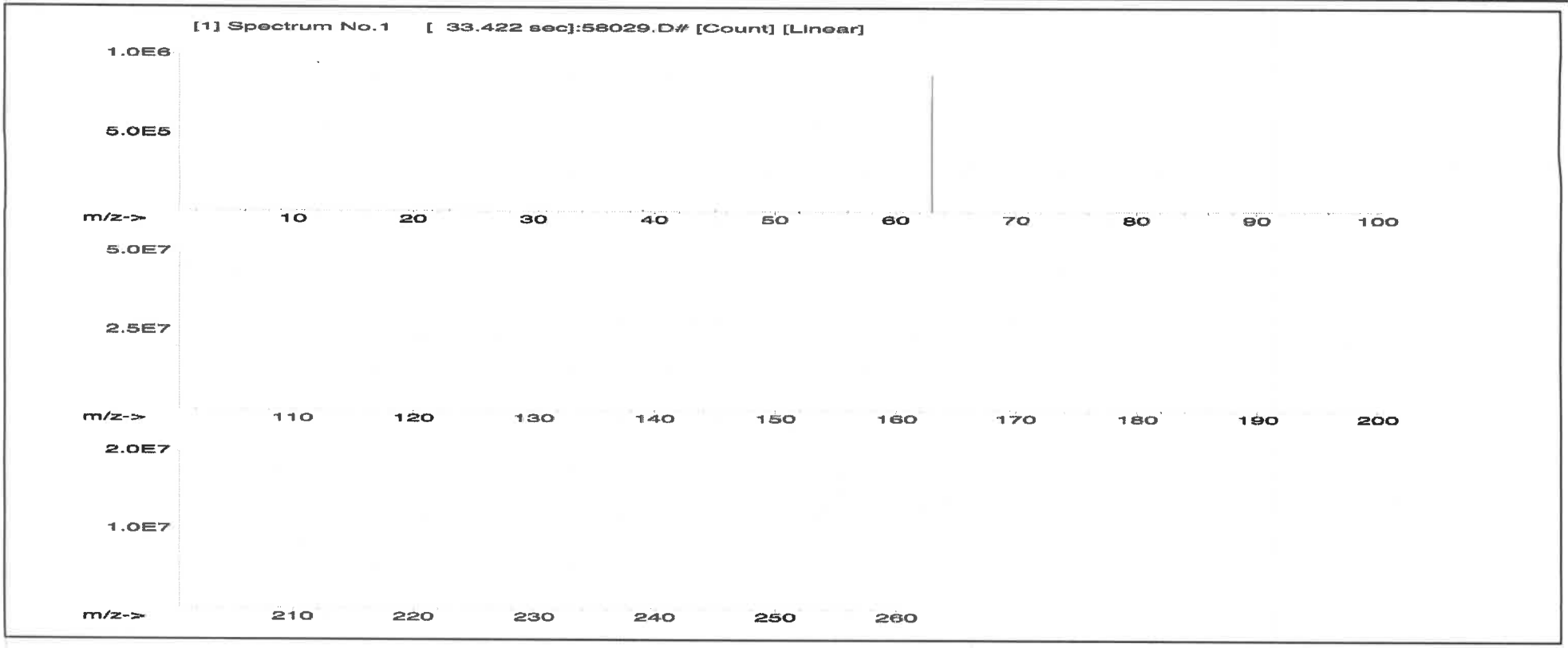


CERTIFIED WEIGHT REPORT:

| | | | | | | |
|---|---|---|---|---|---|---|
| **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.
* All standard containers are meticulously cleaned prior to use.
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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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M5768 M5769 BP R:1/3/24

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## CERTIFIED WEIGHT REPORT:

**Part Number:** 58112
**Lot Number:** 091823
**Description:** Magnesium (Mg)

**Expiration Date:** 091826
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB

**Weight shown below was diluted to (mL):** 2000.02 ± 0.058 Flask Uncertainty

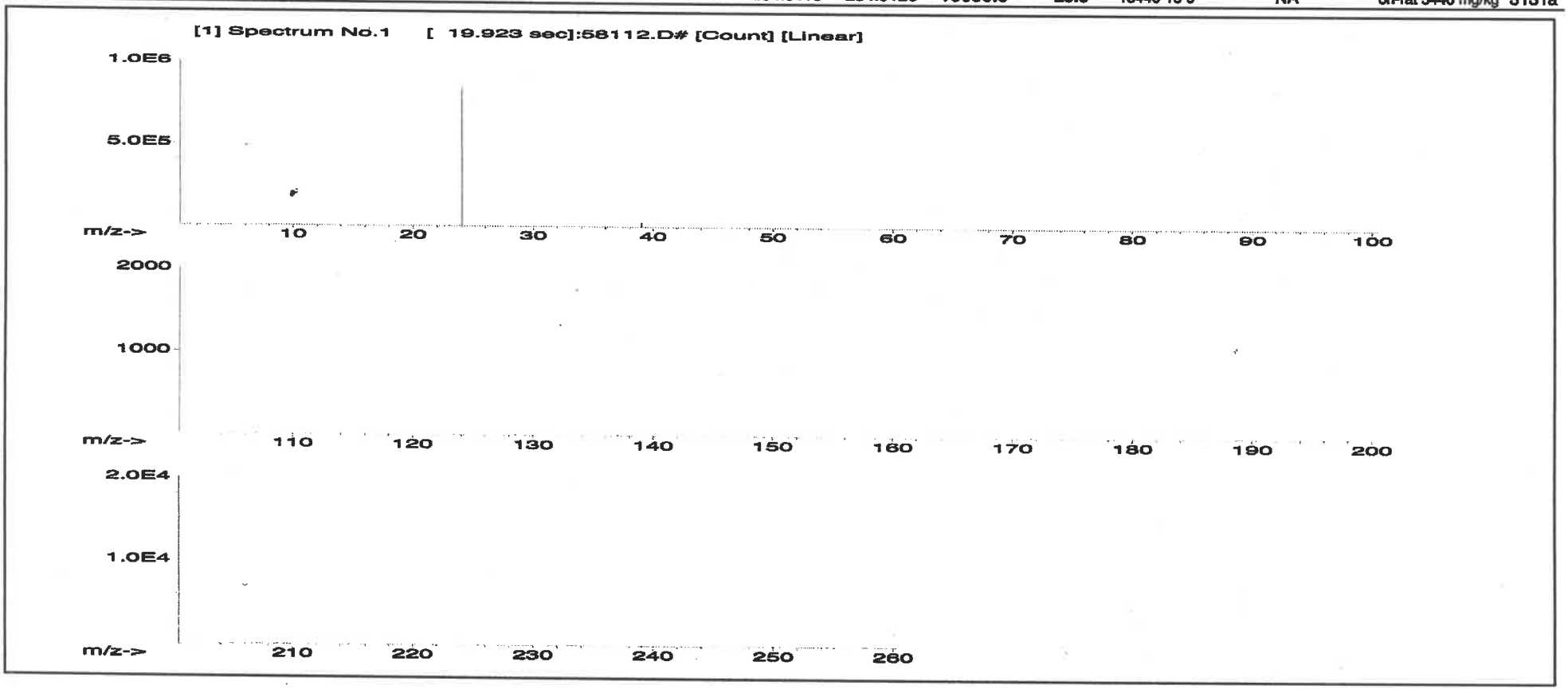
| | | Lot # | | |
|---|---|---|---|---|
| **Solvent:** | 24002546 | Nitric Acid | | |
| | 2% | 40.0 (mL) | Nitric Acid | |

5E-05 Balance Uncertainty

M5768, M5769 BP R: 1/3/24

Formulated By: Lawrence Barry 091823
Reviewed By: Pedro L. Rentas 091823

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Magnesium nitrate hexahydrate (Mg) | IN030 | MGD052023A1 | 10000 | 99.999 | 0.10 | 8.51 | 234.9118 | 234.9126 | **10000.0** | **20.0** | 13446-18-9 | NA | ori-rat 5440 mg/kg | 3131a |



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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.
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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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M5768 M5769 BP R:1/3/24

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## CERTIFIED WEIGHT REPORT:

**Part Number:** 58112
**Lot Number:** 091823
**Description:** Magnesium (Mg)

**Expiration Date:** 091826
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB

**Weight shown below was diluted to (mL):** 2000.02 ± 0.058 Flask Uncertainty

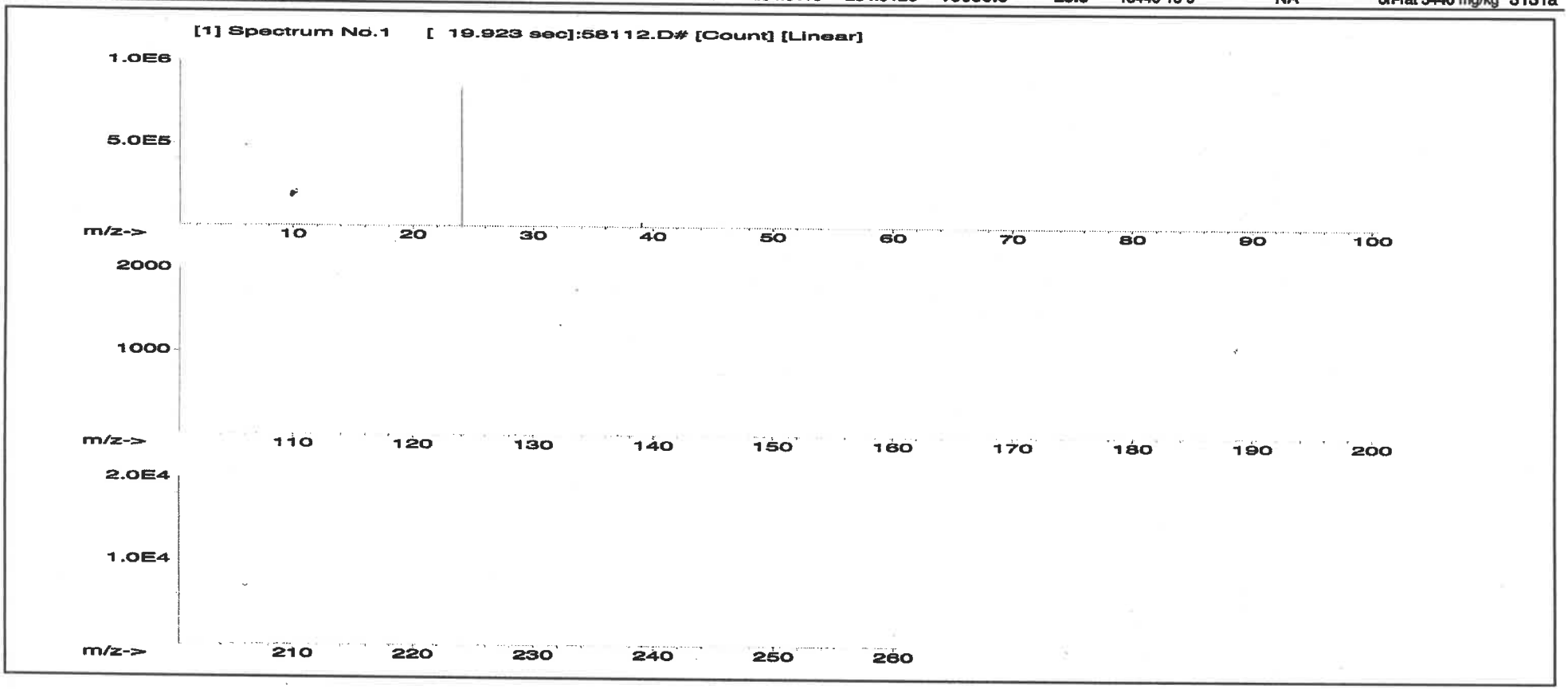
| | | Lot # | | |
|---|---|---|---|---|
| **Solvent:** | 24002546 | Nitric Acid | | |
| | 2% | 40.0 (mL) | Nitric Acid | |

5E-05 Balance Uncertainty

M5768, M5769 BP R: 1/3/24

Formulated By: Lawrence Barry 091823
Reviewed By: Pedro L. Rentas 091823

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Magnesium nitrate hexahydrate (Mg) | IN030 | MGD052023A1 | 10000 | 99.999 | 0.10 | 8.51 | 234.9118 | 234.9126 | **10000.0** | **20.0** | 13446-18-9 | NA | ori-rat 5440 mg/kg | 3131a |



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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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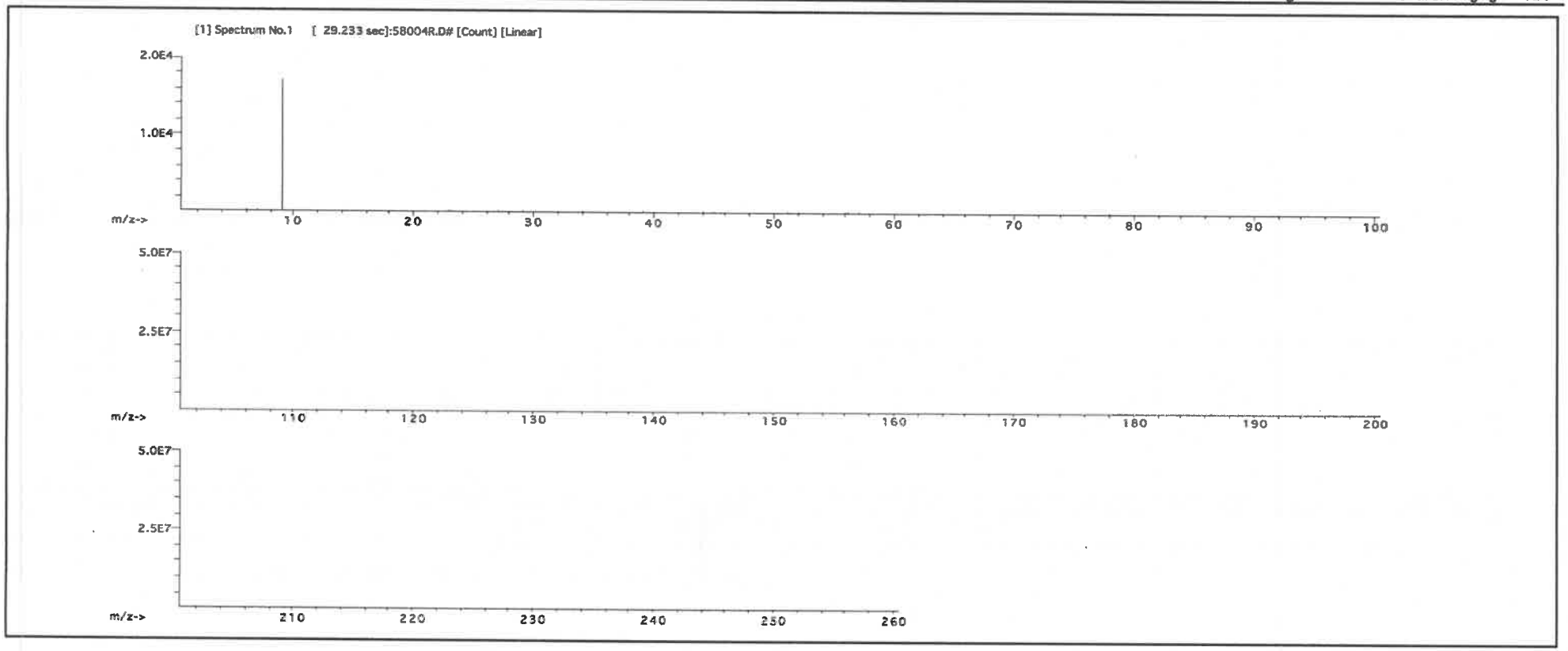
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CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | |
|---|---|---|---|---|
| **Part Number:** | **57004** | | | |
| **Lot Number:** | **102523** | 24002546 | Nitric Acid | |
| **Description:** | **Beryllium (Be)** | | | |
| | | 2.0% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 102526 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Volume shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | |

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 102523 |
| Reviewed By: | Pedro L. Rentas | 102523 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Beryllium nitrate (Be) | 58104 | 091423 | 0.1000 | 200.0 | 0.084 | 1000 | 10001.5 | **1000.0** | **2.2** | 13597-99-4 | 0.2ug/m3 | intrvns-rat 3.16mg/kg | NA |



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | T | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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CERTIFIED WEIGHT REPORT:

**Part Number:** 57050
**Lot Number:** 071123
**Description:** Tin (Sn)

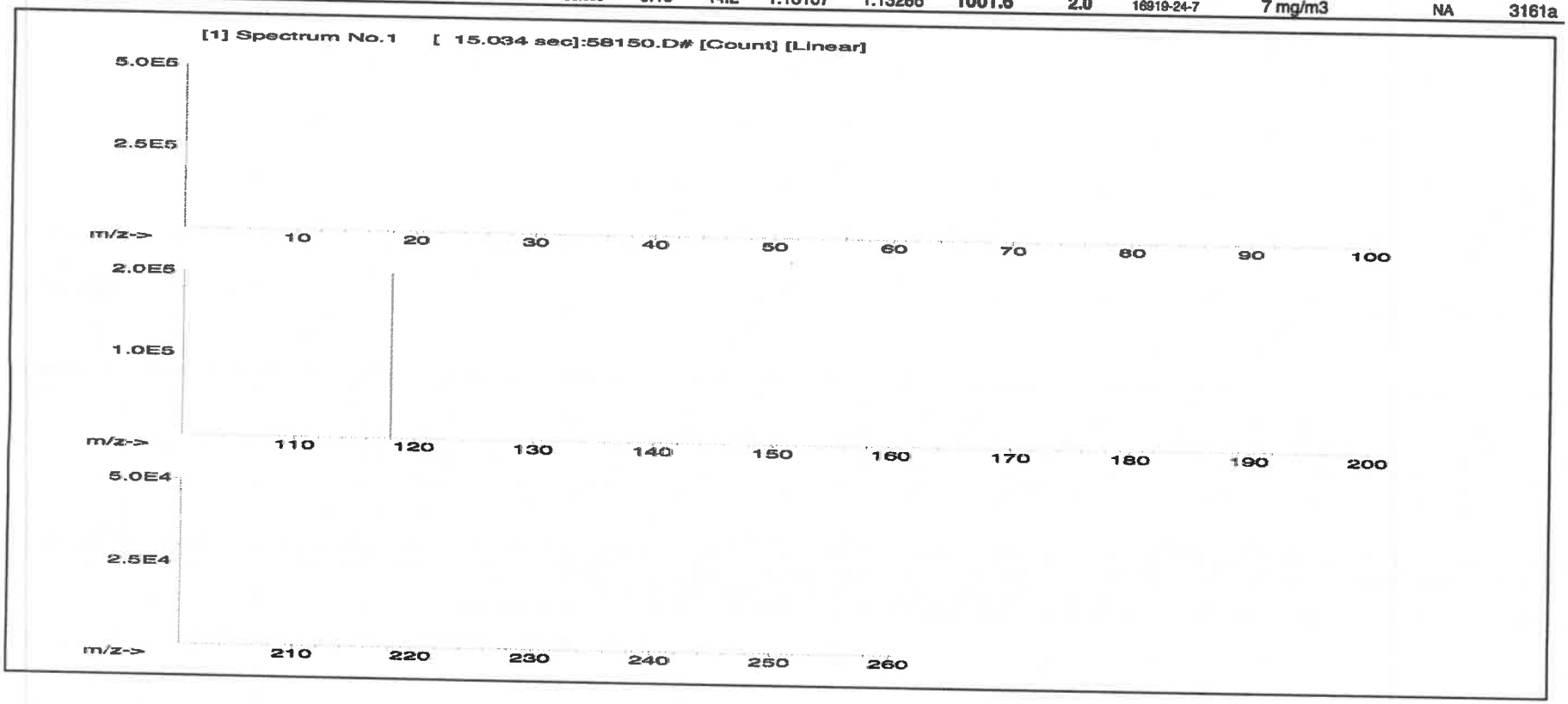
**Expiration Date:** 071126
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 499.93

| | 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:

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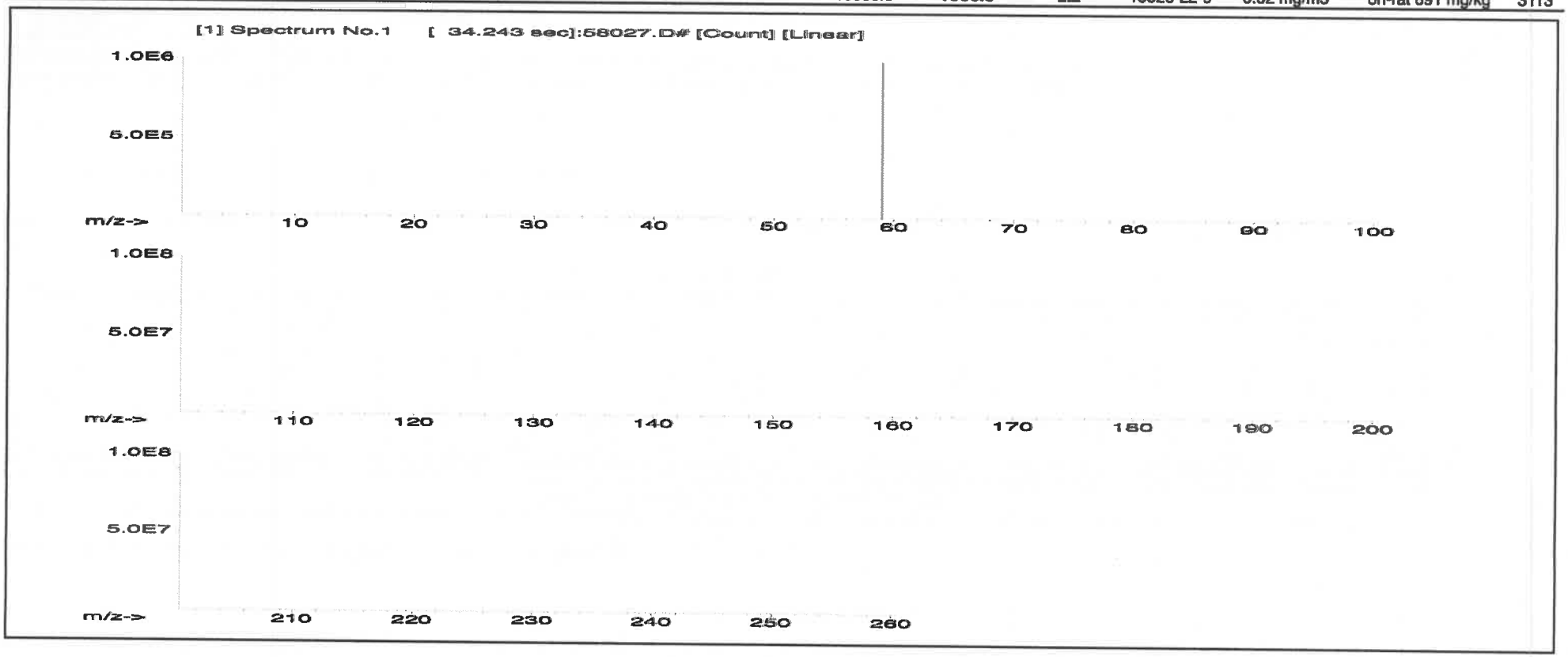
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CERTIFIED WEIGHT REPORT:

| | | 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:**

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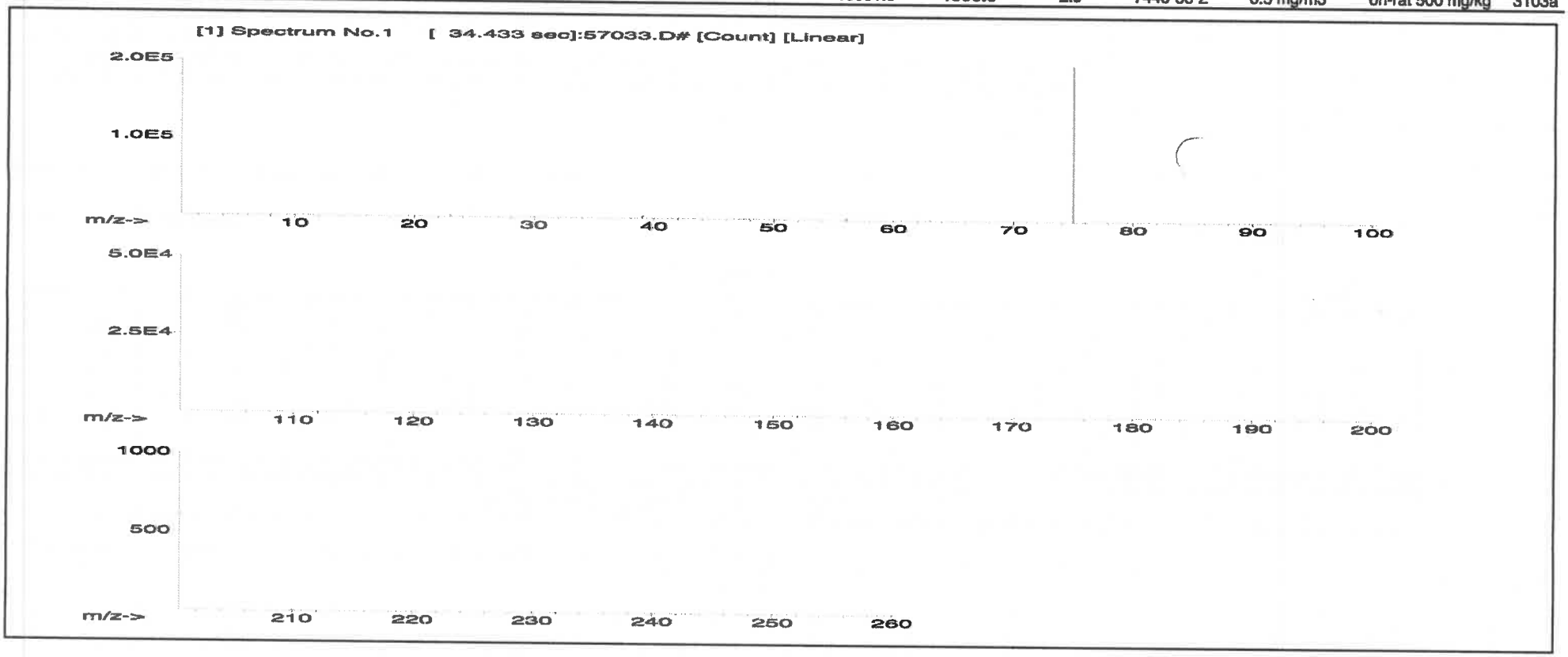
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CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | | |
|---|---|---|---|---|---|
| **Part Number:** | **57033** | 24002546 | Nitric Acid | | |
| **Lot Number:** | **111323** | | | | |
| **Description:** | **Arsenic (As)** | 2.0% | 80.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 111326 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Volume shown below was diluted to (mL):** | 4000.0 | 0.06 | Flask Uncertainty | | |

| | | |
|---|---|---|
| Formulated By: | Lawrence Barry | 111323 |
| Reviewed By: | Pedro L. Rentas | 111323 |

| 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.

* 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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R1 02/09/24. M5815

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CERTIFIED WEIGHT REPORT:

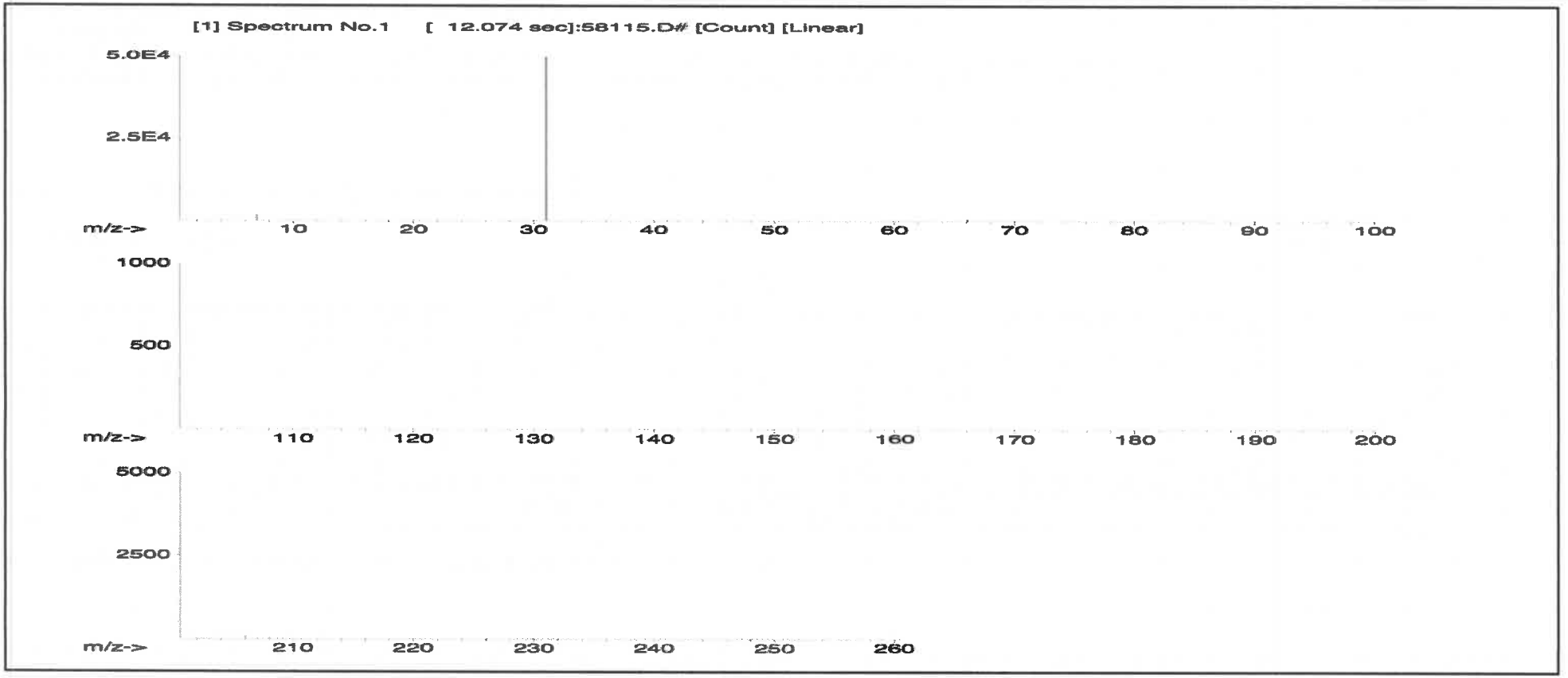
**Part Number:** 57115
**Lot Number:** 041723
**Description:** Phosphorous (P)

**Expiration Date:** 041726
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 2000.02 0.058 Flask Uncertainty

| | | Lot # | |
|---|---|---|---|
| **Solvent:** | 21110221 | | Nitric Acid |
| | 2% | 40.0 (mL) | Nitric Acid |
| | | 5E-05 | Balance Uncertainty |

| | | |
|---|---|---|
| Formulated By: | Lawrence Barry | 041723 |
| Reviewed By: | Pedro L. Rentas | 041723 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Ammonium dihydrogen phosphate (P) | IN008 | PV082019A1 | 10000 | 99.999 | 0.10 | 27.5 | 72.7287 | 72.7289 | **10000.0** | **20.0** | 7722-76-1 | 5 mg/m3 | orl-rat >2000mg/kg | 3186 |



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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 | T | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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CERTIFIED WEIGHT REPORT:

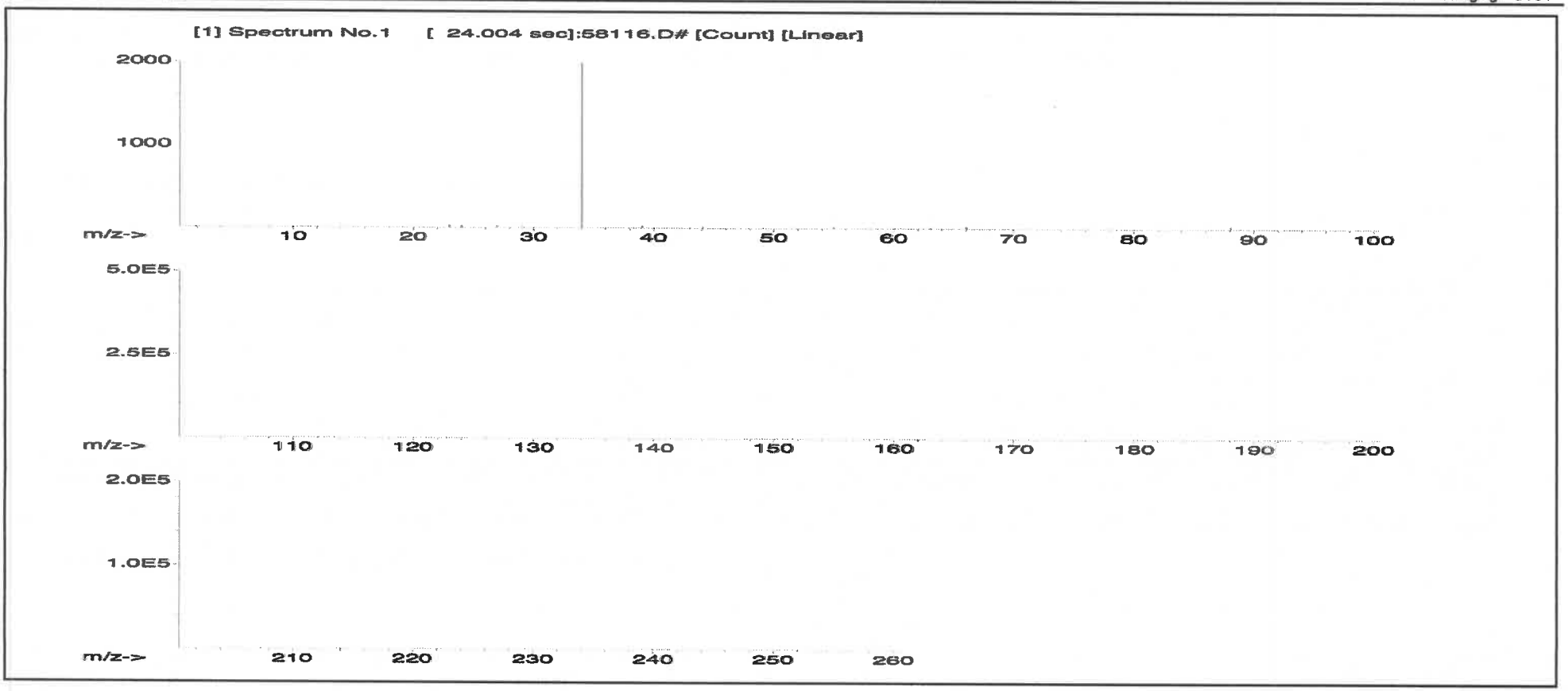
**Part Number:** 57116
**Lot Number:** 071123
**Description:** Sulfur (S)

**Lot #**
**Solvent:** 071123 ASTM Type 1 Water

**Expiration Date:** 071126
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB 5E-05 Balance Uncertainty
**Weight shown below was diluted to (mL):** 1999.48 0.058 Flask Uncertainty

| | | |
|---|---|---|
| Formulated By: | Lawrence Barry | 071123 |
| Reviewed By: | Pedro L. Rentas | 071123 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Ammonium sulfate (S) | IN117 | SLBR7225V | 10000 | 99.9 | 0.10 | 24.3 | 82.4675 | 82.4682 | **10000.1** | **20.0** | 7783-20-2 | NA | ori-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.
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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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## CERTIFIED WEIGHT REPORT:

**Part Number:** 57014
**Lot Number:** 122023
**Description:** Silicon (Si)

**Expiration Date:** 122026
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 1999.48 0.058 Flask Uncertainty

**Solvent:** 24002546 Nitric Acid

2% 40.0 (mL) Nitric Acid

5E-05 Balance Uncertainty

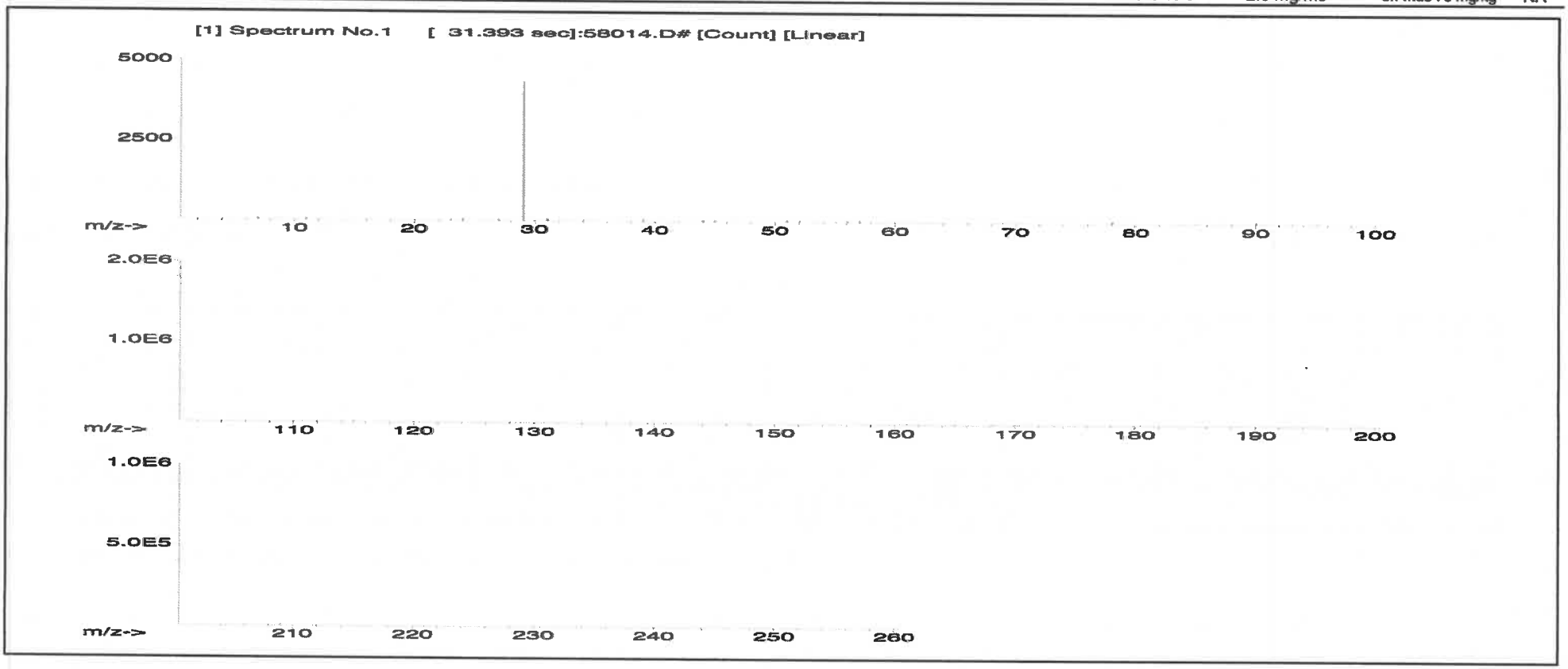
Aleah O'Brady

Formulated By: Aleah O'Brady 122023

Pedro Rentas

Reviewed By: Pedro L. Rentas 122023

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Ammonium hexafluorosilicate (Si) | IN009 | SID082022A1 | 1000 | 99.999 | 0.10 | 14.4 | 13.8854 | 13.8855 | **1000.0** | **2.0** | 16919-19-0 | 2.5 mg/m3 | orl-mus 70 mg/kg | NA |



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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 | T | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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CERTIFIED WEIGHT REPORT:

**Part Number:** 58030
**Lot Number:** 111623
**Description:** Zinc (Zn)

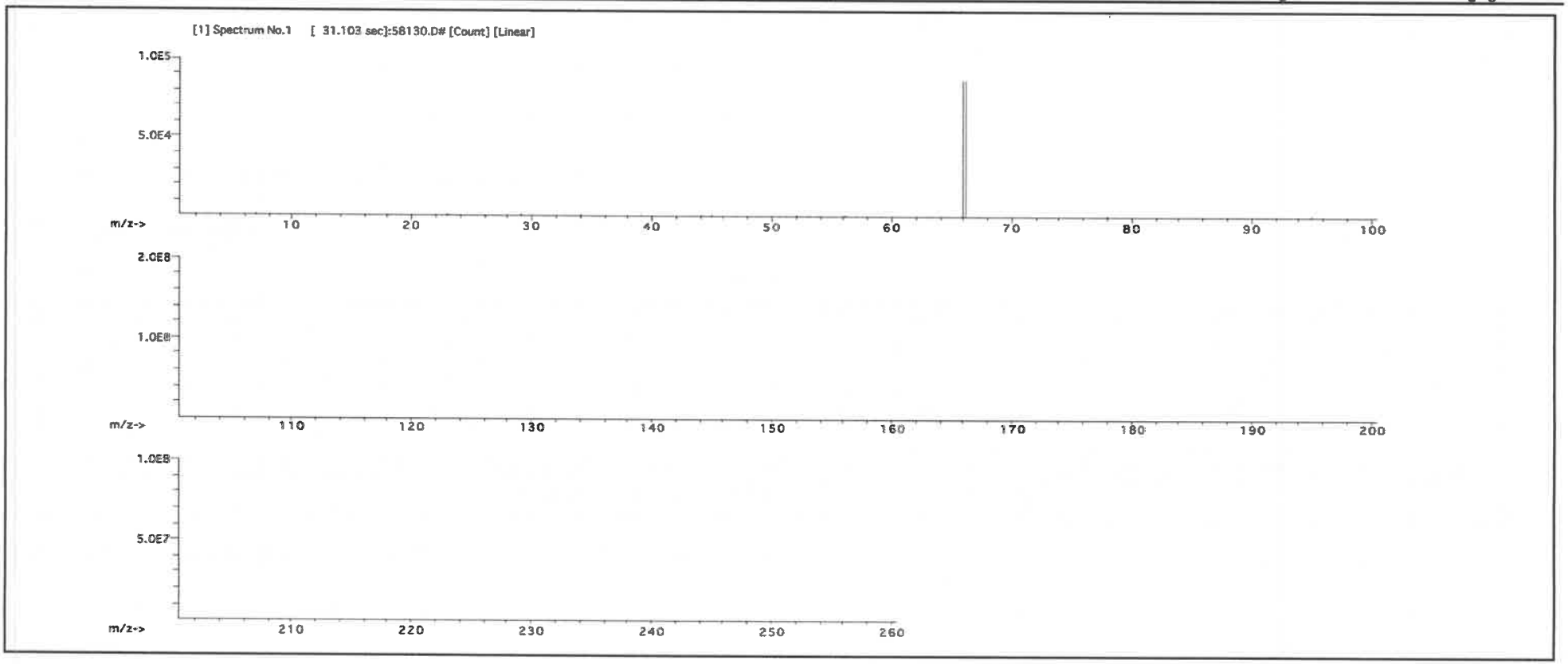
**Expiration Date:** 111626
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB

**Weight shown below was diluted to (mL):** 3000.4 ± 0.06 Flask Uncertainty

| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 24002546 | Nitric Acid | |
| 2% | 60.0 (mL) | Nitric Acid | |
| | 5E-05 | Balance Uncertainty | |

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 111623 |
| Reviewed By: | Pedro L. Rentas | 111623 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Zinc nitrate hexahydrate (Zn) | IN016 | ZNE032021A1 | 1000 | 99.999 | 0.10 | 24.3 | 12.3475 | 12.3502 | **1000.2** | **2.0** | 10196-18-6 | 1 mg/m3 | orl-rat 1190mg/kg | 3168 |



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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:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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CERTIFIED WEIGHT REPORT:

**Part Number:** 57028
**Lot Number:** 041124
**Description:** Nickel (Ni)
**Expiration Date:** 041127
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB

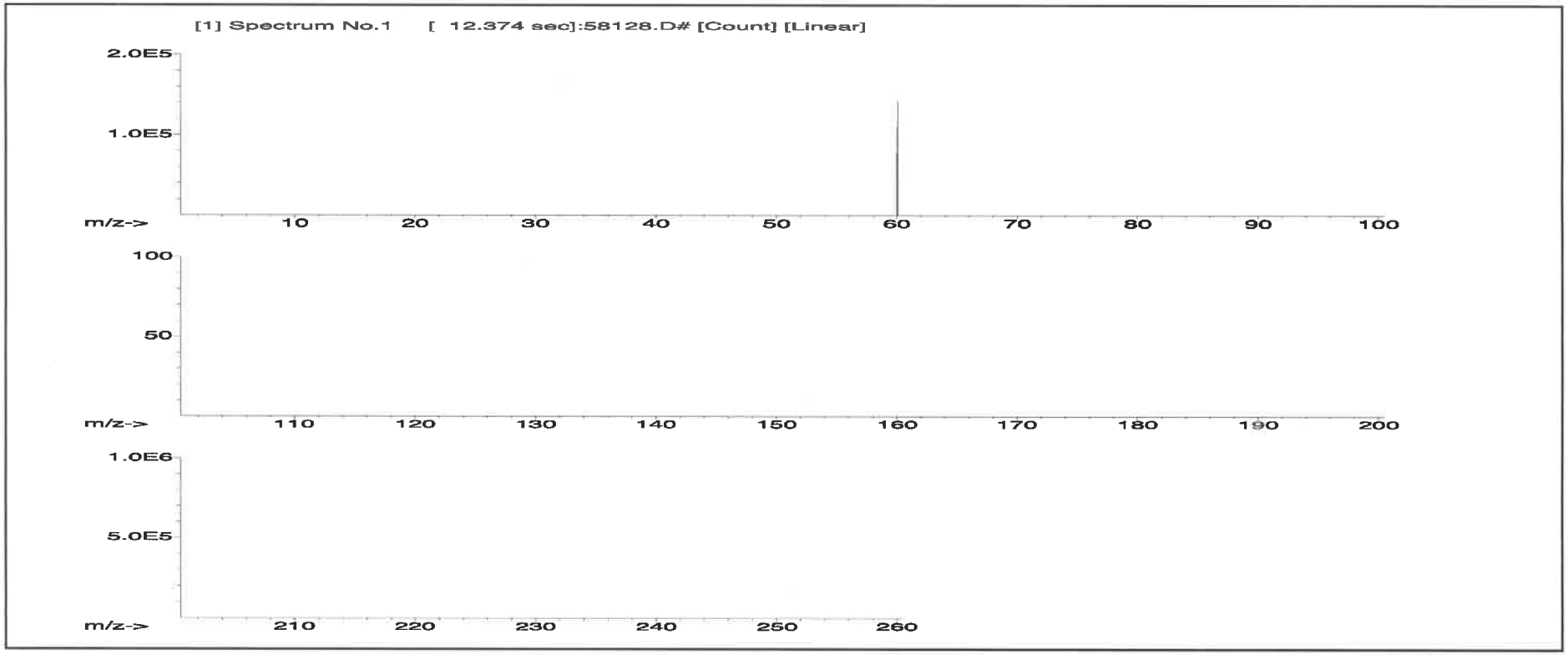
**Weight shown below was diluted to (mL):** 249.85 ± 0.002 Flask Uncertainty

| | Lot # | | ± |
|---|---|---|---|
| **Solvent:** | 24002546 | Nitric Acid | 5E-05 Balance Uncertainty |
| 2% | 5.0 (mL) | Nitric Acid | |

Formulated By: Brian Geddes 041124

Reviewed By: Pedro L. Rentas 041124

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Nickel(II) nitrate hexahydrate (Ni) | IN033 | NIM052023A1 | 1000 | 99.999 | 0.10 | 20.2 | 1.2369 | 1.2369 | **1000.0** | **2.0** | 13478-00-7 | 1 mg/m3 | orl-rat 1620 mg/kg | 3136 |



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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 | T | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

M5962 R! 06/14/24.

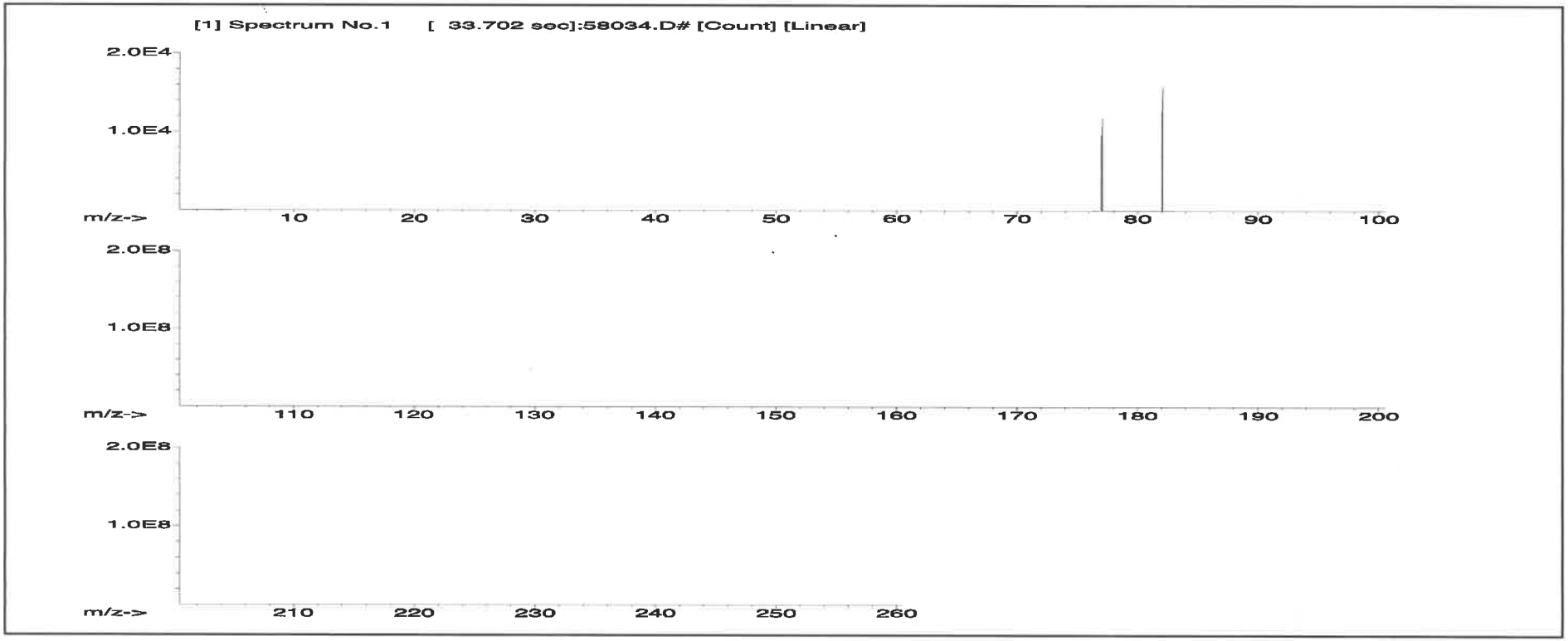
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | |
|---|---|---|---|---|
| **Part Number:** | **57034** | 24002546 | Nitric Acid | |
| **Lot Number:** | **060624** | | | |
| **Description:** | **Selenium (Se)** | | | |
| | | 2.0% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 060627 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Volume shown below was diluted to (mL):** | 2000.07 | 0.100 | Flask Uncertainty | |

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 060624 |
| Reviewed By: | Pedro L. Rentas | 060624 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Selenium (Se) | 58134 | 071223 | 0.1000 | 200.0 | 0.084 | 1000 | 10002.5 | **1000.0** | **2.2** | 7782-49-2 | 0.2 mg/m3 | orl-rat 6700 mg/kg | 3149 |



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***Certified Reference Material CRM***

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AR-1539 Certificate Number
https://Absolutestandards.com



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | T | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

**Certified by:**

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES
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# Certificate of Analysis

M5976, M5977
R: 02/22/24

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## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Single Analyte Custom Grade Solution |
| Catalog Number: | CGMO1 |
| Lot Number: | T2-MO720876 |
| Matrix: | H2O<br>tr. NH4OH |
| Value / Analyte(s): | 1 000 µg/mL ea:<br>Molybdenum |
| Starting Material: | Ammonium Molybdate |
| Starting Material Lot#: | 2361 |
| Starting Material Purity: | 99.9893% |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 998 ± 7 µg/mL

**Density:** 1.000 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

**Assay Method #1** **998 ± 4 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### Characterization of CRM/RM by Two or More Methods

**Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:**

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

$X_i$ = mean of Assay Method i with standard uncertainty $u_{char\ i}$

$w_i$ = the weighting factors for each method calculated using the inverse square of the variance.

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

**Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:**

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

$X_a$ = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M | Ag | < | 0.000590 | M | Eu | < | 0.000300 | M | Na | | 0.000879 | M | Se | < | 0.008000 | M | Zn | | 0.000598 |
| M | Al | | 0.000563 | M | Fe | < | 0.006500 | M | Nb | < | 0.029000 | i | Si | < | | M | Zr | < | 0.001800 |
| M | As | < | 0.002100 | M | Ga | < | 0.000300 | i | Nd | < | | M | Sm | < | 0.000300 | | | | |
| M | Au | < | 0.000300 | M | Gd | < | 0.000300 | M | Ni | < | 0.008000 | M | Sn | < | 0.008900 | | | | |
| M | B | < | 0.003300 | M | Ge | < | 0.000300 | M | Os | < | 0.000590 | M | Sr | | 0.000175 | | | | |
| M | Ba | | 0.001689 | M | Hf | < | 0.001800 | i | P | < | | M | Ta | < | 0.004200 | | | | |
| M | Be | < | 0.000890 | M | Hg | < | 0.003300 | M | Pb | < | 0.000300 | M | Tb | < | 0.000300 | | | | |
| M | Bi | < | 0.000890 | M | Ho | < | 0.000300 | M | Pd | < | 0.001800 | M | Te | < | 0.021000 | | | | |
| O | Ca | | 0.006334 | M | In | < | 0.032000 | M | Pr | < | 0.013000 | M | Th | < | 0.000300 | | | | |
| O | Cd | < | 0.026000 | M | Ir | < | 0.000300 | M | Pt | < | 0.000300 | O | Tl | < | 0.032000 | | | | |
| M | Ce | < | 0.008300 | M | K | | 0.130213 | M | Rb | | 0.004575 | M | Tl | | 0.001266 | | | | |
| M | Co | | 0.000598 | M | La | < | 0.000300 | M | Re | < | 0.000300 | M | Tm | < | 0.000300 | | | | |
| M | Cr | | 0.000527 | O | Li | | 0.000059 | M | Rh | < | 0.000300 | M | U | < | 0.005300 | | | | |
| M | Cs | | 0.000527 | M | Lu | < | 0.000300 | M | Ru | < | 0.079000 | M | V | < | 0.000890 | | | | |
| M | Cu | | 0.002252 | M | Mg | | 0.000563 | i | S | < | | M | W | | 0.087982 | | | | |
| M | Dy | < | 0.000300 | M | Mn | < | 0.005900 | M | Sb | | 0.001513 | M | Y | < | 0.000300 | | | | |
| M | Er | < | 0.000300 | s | Mo | < | | M | Sc | < | 0.001200 | M | Yb | < | 0.000300 | | | | |

M - Checked by ICP-MS  O - Checked by ICP-OES  i - Spectral Interference
n - Not Checked For  s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution -** 95.94 +6 6,7,8,9 [MoO4]-2(chemical form as received)

**Chemical Compatibility -**Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

**Stability -** 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

**Mo Containing Samples (Preparation and Solution) -**Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl ).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| **Technique/Line** | **Estimated D.L.** | **Order** | **Interferences** (underlined indicates severe) |
|---|---|---|---|
| ICP-MS 95 amu | 3 ppt | n/a | 40Ar39K16O,79Br16O,190Os2+,190Pt2+ |
| ICP-OES 202.030 nm | 0.008 / 0.0002 µg/mL | 1 | Os, Hf |
| ICP-OES 203.844 nm | 0.012 / 0.002 µg/mL | 1 | |
| ICP-OES 204.598 nm | 0.012 / 0.001 µg/mL | 1 | Ir, Ta |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

**- July 17, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Prepared By:**

Uyen Truong
Supervisor, Product Documentation



**Certificate Approved By:**

Michael Booth
Director, Technical



**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director



M5978, M5979



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# Certificate of Analysis

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## 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: | Single Analyte Custom Grade Solution |
| Catalog Number: | CGTI1 |
| Lot Number: | T2-TI719972 |
| Matrix: | 2% (v/v) HNO3<br>tr. HF |
| Value / Analyte(s): | 1 000 µg/mL ea:<br>Titanium |
| Starting Material: | Ti Metal |
| Starting Material Lot#: | 2094 |
| Starting Material Purity: | 99.9975% |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 1002 ± 5 µg/mL

**Density:** 1.012 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

**Assay Method #1** **1002 ± 4 µg/mL**
ICP Assay NIST SRM 3162a Lot Number: 130925

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

**Characterization of CRM/RM by Two or More Methods**

**Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:**

$X_{CRM/RM} = \Sigma(w_i)(\bar{x}_i)$

$\bar{x}_i$ = mean of Assay Method i with standard uncertainty $u_{char\ i}$

$w_i$ = the weighting factors for each method calculated using the inverse square of the variance

$w_i = (1/u_{char\ i}^2) / (\Sigma(1/u_{char\ i}^2))$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = (\Sigma(w_i)^2\ (u_{char\ i})^2)^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

**Characterization of CRM/RM by One Method**

**Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:**

$X_{CRM/RM} = (\bar{x}_a)\ (u_{char\ a})$

$\bar{x}_a$ = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M | Ag | < | 0.000536 | M | Eu | < | 0.000268 | O | Na | < | 0.032670 | M | Se | | 0.001204 | O | Zn | < | 0.003267 |
| O | Al | | 0.000872 | O | Fe | | 0.003225 | O | Nb | < | 0.043560 | O | Si | | 0.004735 | O | Zr | < | 0.043560 |
| M | As | < | 0.008586 | M | Ga | < | 0.000268 | M | Nd | < | 0.000268 | M | Sm | < | 0.000268 | | | | |
| M | Au | < | 0.004577 | M | Gd | < | 0.000268 | O | Ni | < | 0.010890 | M | Sn | | 0.000096 | | | | |
| O | B | < | 0.008929 | M | Ge | < | 0.002146 | M | Os | < | 0.000269 | O | Sr | | 0.000096 | | | | |
| M | Ba | < | 0.002683 | M | Hf | | 0.002161 | O | P | < | 0.054450 | M | Ta | | 0.010560 | | | | |
| M | Be | < | 0.005366 | M | Hg | < | 0.003231 | M | Pb | < | 0.001073 | M | Tb | < | 0.000268 | | | | |
| M | Bi | < | 0.001609 | M | Ho | < | 0.000268 | M | Pd | < | 0.000268 | M | Te | < | 0.001341 | | | | |
| O | Ca | | 0.000676 | M | In | < | 0.002683 | M | Pr | < | 0.000268 | M | Th | < | 0.053663 | | | | |
| M | Cd | < | 0.000268 | M | Ir | < | 0.000269 | M | Pt | < | 0.000536 | s | Ti | < | | | | | |
| M | Ce | < | 0.000268 | M | K | | 0.001172 | M | Rb | < | 0.000268 | M | Tl | < | 0.000268 | | | | |
| M | Co | < | 0.004293 | M | La | < | 0.000268 | M | Re | < | 0.000268 | M | Tm | < | 0.000268 | | | | |
| M | Cr | | 0.000752 | O | Li | < | 0.027225 | M | Rh | < | 0.000268 | M | U | < | 0.000268 | | | | |
| M | Cs | < | 0.000268 | M | Lu | < | 0.000268 | M | Ru | < | 0.000269 | M | V | < | 0.019855 | | | | |
| O | Cu | < | 0.010890 | O | Mg | < | 0.005445 | i | S | < | | M | W | | 0.000473 | | | | |
| M | Dy | < | 0.000268 | O | Mn | < | 0.003267 | M | Sb | < | 0.006976 | M | Y | < | 0.002146 | | | | |
| M | Er | < | 0.000268 | M | Mo | | 0.000774 | O | Sc | < | 0.004900 | M | Yb | < | 0.000536 | | | | |

M - Checked by ICP-MS  O - Checked by ICP-OES  i - Spectral Interference
n - Not Checked For  s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution -** 47.87 +4 6 Ti(F)6-2

**Chemical Compatibility -** Soluble in concentrated HCl, HF, H3PO4 H2SO4 and HNO3. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

**Stability -** 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)6-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 chemically stable for years in 2-5% HNO3 / trace HF in an LDPE container.

**Ti Containing Samples (Preparation and Solution) -** Metal (Soluble in H2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H2O / HF / H2SO4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores ( fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H2O / HF / H2SO4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|---|---|---|---|
| ICP-MS 48 amu | 14 ppt | N/A | 32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)] |
| ICP-OES 323.452 nm | 0.0054 / 0.00092 µg/mL | 1 | Ce, Ar, Ni |
| ICP-OES 334.941 nm | 0.0038 / 0.000028 µg/mL | 1 | Nb, Ta, Cr, U |
| ICP-OES 336.121 nm | 0.0053 / 0.000034 µg/mL | 1 | W, Mo, Co |

**HF Note:** This standard should not be prepared or stored in glass.

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

**10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"**

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

June 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

**- June 17, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Thomas Kozikowski
Manager, Quality Control

**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

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H5981 R:6/11/24

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## CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | | |
|---|---|---|---|---|---|
| **Part Number:** | **57092** | 24002546 | Nitric Acid | | |
| **Lot Number:** | **060724** | | | | |
| **Description:** | **Uranium (U)** | 2.0% | 40.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 060727 | | | | |
| **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 | | |

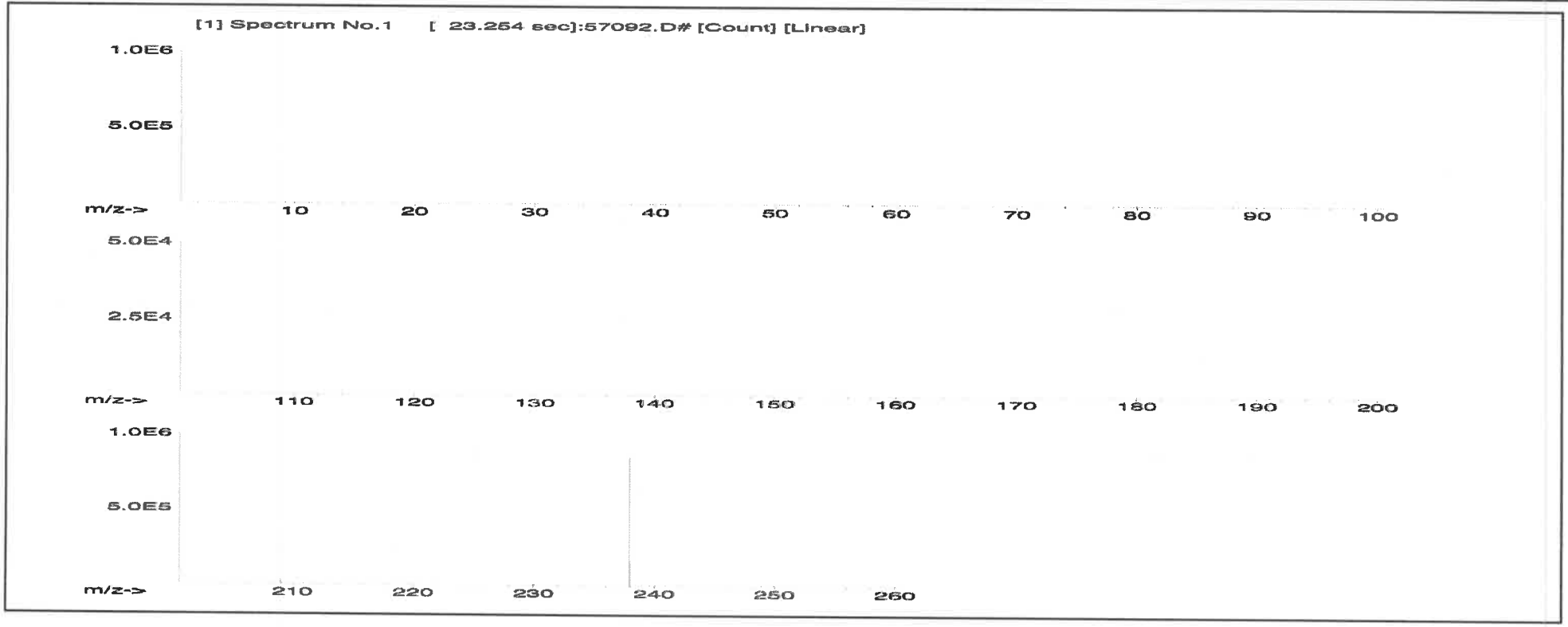
Giovanni Esposito

| Formulated By: | Giovanni Esposito | 060724 |
|---|---|---|

Pedro Rentas

| Reviewed By: | Pedro L. Rentas | 060724 |
|---|---|---|

| 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. Uranyl nitrate hexahydrate (U) | 58192 | 041524 | 0.1000 | 200.0 | 0.084 | 1000 | 10001.5 | **1000.0** | **2.2** | 13520-83-7 | 0.05 mg/m3 | orl-rat 1040 mg/kg | 3164 |



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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 | T |
| 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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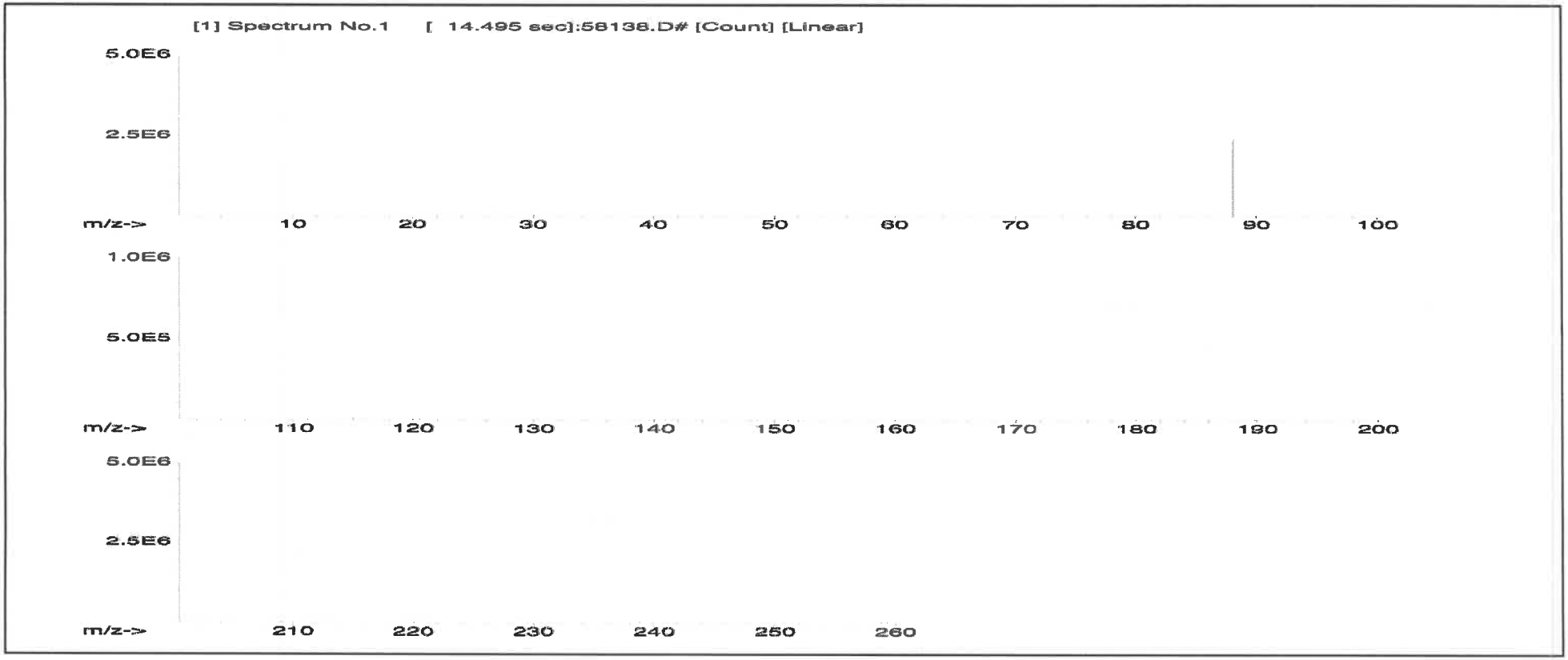
45982 R: 6/11/24

CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **57038** | | | **Lot #** | |
| **Lot Number:** | **031524** | | **Solvent:** | 24002546 | Nitric Acid |
| **Description:** | **Strontium (Sr)** | | 2% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 031527 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 Balance Uncertainty | | | |
| **Weight shown below was diluted to (mL):** | 2000.07 | 0.100 Flask Uncertainty | | | |

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 031524 |
| Reviewed By: | Pedro L. Rentas | 031524 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Strontium nitrate (Sr) | IN017 | SRZ022018A1 | 1000 | 99.997 | 0.10 | 41.2 | 4.85470 | 4.85502 | **1000.1** | **2.0** | 10042-76-9 | NA | orl-rat >2000mg/kg | 3153a |



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | T | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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M5983 R: 6/11/24

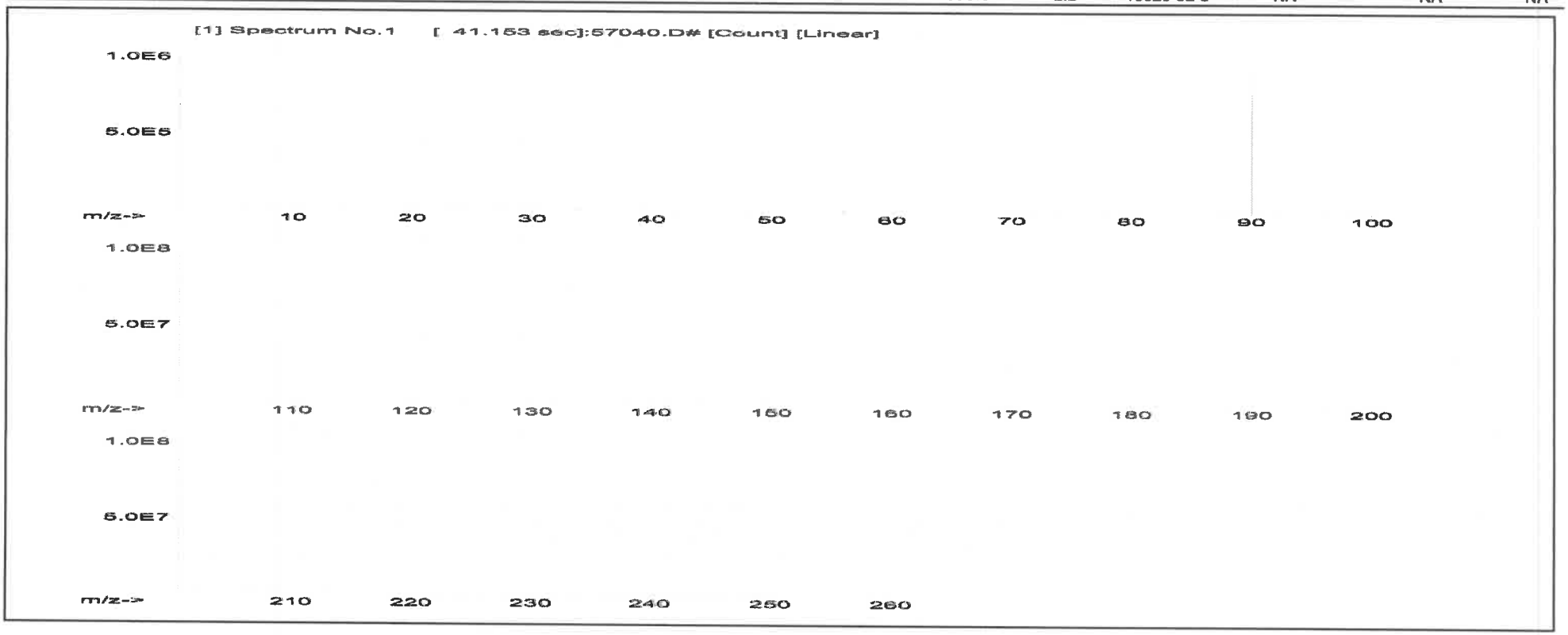
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AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | |
|---|---|---|---|---|
| **Part Number:** | **57040** | 21110221 | Nitric Acid | |
| **Lot Number:** | **071423** | | | |
| **Description:** | **Zirconium (Zr)** | | | |
| | | 2.0% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 071426 | | | |
| **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 | 071423 |
| Reviewed By: | Pedro L. Rentas | 071423 |

| 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. Zirconyl chloride octahydrate (Zr) | 58140 | 070621 | 0.1000 | 200.0 | 0.084 | 1000 | 10000.3 | **1000.0** | **2.2** | 13520-92-8 | NA | NA | 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 | <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 | T |

(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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R: 01/03/24 M6033

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CERTIFIED WEIGHT REPORT:

| | | | | |
|---|---|---|---|---|
| **Part Number:** | **58113** | | **Lot #** | |
| **Lot Number:** | **011623** | **Solvent:** | 20510011 | Nitric Acid |
| **Description:** | **Aluminum (Al)** | 2% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 011626 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **10000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Weight shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | |

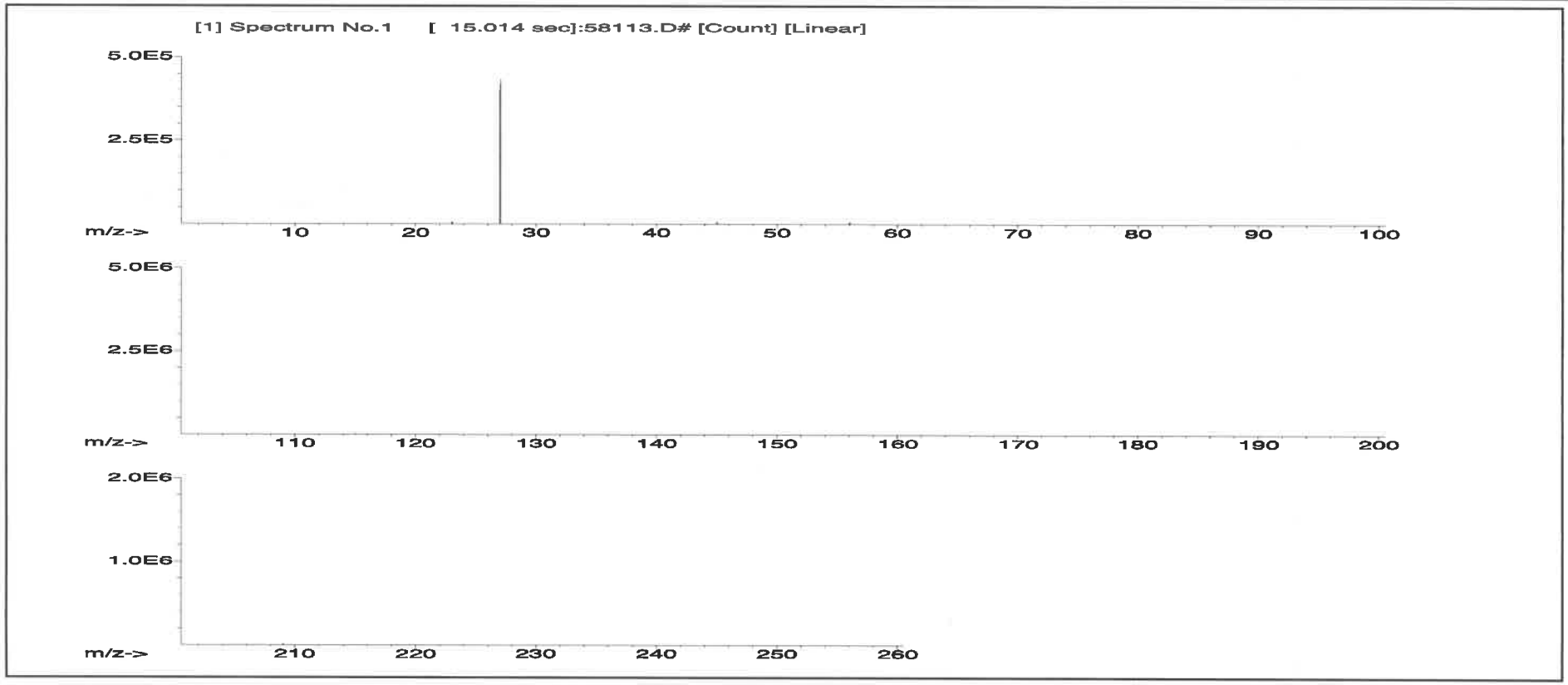
Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 011623 |

Pedro Rentas

| | | |
|---|---|---|
| Reviewed By: | Pedro L. Rentas | 011623 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Aluminum nitrate nonahydrate (Al) | IN022 | ALM112021A1 | 10000 | 99.999 | 0.10 | 7.30 | 273.9779 | 274.0078 | **10001.1** | **20.0** | 7784-27-2 | 2 mg/m3 | orl-rat 3671 mg/kg | 3101a |



Nitric Acid 69%
CMOS

Recv date: 1.1.—08/01/2023

M6034, M6037
M6035, M6038,
M6036,

avantor™ | J.T.Baker®

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

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Received — 08/01/2024
paper
M6039
M6040

Material No.: 9530-33
Batch No.: 24D1562005
Manufactured Date: 2024-03-18
Retest Date: 2029-03-17
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| ACS - Assay (as HCl) (by acid-base titrn) | 36.5 - 38.0 % | 37.6 % |
| ACS - Color (APHA) | ≤ 10 | 5 |
| ACS - Residue after Ignition | ≤ 3 ppm | < 1 ppm |
| ACS - Specific Gravity at 60°/60°F | 1.185 - 1.192 | 1.192 |
| 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 | < 5.0 ppb |
| Arsenic and Antimony (as As) | ≤ 5.0 ppb | < 3.0 ppb |
| Trace Impurities - Barium (Ba) | ≤ 1.0 ppb | < 1.0 ppb |
| Trace Impurities - Beryllium (Be) | ≤ 1.0 ppb | < 1.0 ppb |
| Trace Impurities - Bismuth (Bi) | ≤ 10.0 ppb | < 10.0 ppb |
| Trace Impurities - Boron (B) | ≤ 20.0 ppb | 2.2 ppb |
| Trace Impurities - Cadmium (Cd) | ≤ 1.0 ppb | < 1.0 ppb |
| Trace Impurities - Calcium (Ca) | ≤ 50.0 ppb | 31.0 ppb |
| Trace Impurities - Chromium (Cr) | ≤ 1.0 ppb | 0.5 ppb |
| Trace Impurities - Cobalt (Co) | ≤ 1.0 ppb | 0.2 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 | < 0.2 ppb |
| Heavy Metals (as Pb) | ≤ 100 ppb | < 50 ppb |
| Trace Impurities - Iron (Fe) | ≤ 15 ppb | 3 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.: 24D1562005

| Test | Specification | Result |
|---|---|---|
| Trace Impurities – Lead (Pb) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities – Lithium (Li) | ≤ 1.0 ppb | < 0.1 ppb |
| Trace Impurities – Magnesium (Mg) | ≤ 10.0 ppb | 2.2 ppb |
| Trace Impurities – Manganese (Mn) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities – Mercury (Hg) | ≤ 0.5 ppb | < 0.1 ppb |
| Trace Impurities – Molybdenum (Mo) | ≤ 10.0 ppb | < 5.0 ppb |
| Trace Impurities – Nickel (Ni) | ≤ 4.0 ppb | 0.2 ppb |
| Trace Impurities – Niobium (Nb) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities – Potassium (K) | ≤ 9.0 ppb | < 1.0 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 | < 0.3 ppb |
| Trace Impurities – Sodium (Na) | ≤ 100.0 ppb | 2.0 ppb |
| Trace Impurities – Strontium (Sr) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities – Tantalum (Ta) | ≤ 1.0 ppb | < 0.9 ppb |
| Trace Impurities – Thallium (Tl) | ≤ 5.0 ppb | < 2.0 ppb |
| Trace Impurities – Tin (Sn) | ≤ 5.0 ppb | < 0.4 ppb |
| Trace Impurities – Titanium (Ti) | ≤ 1.0 ppb | 0.2 ppb |
| Trace Impurities – Vanadium (V) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities – Zinc (Zn) | ≤ 5.0 ppb | < 0.2 ppb |
| Trace Impurities – Zirconium (Zr) | ≤ 1.0 ppb | < 0.1 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.: 24D1562005

| 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

Jamie Croak
Director Quality Operations, Bioscience Production

INORGANIC VENTURES™
Refine your results. Redefine your industry.

# Certificate of Analysis

R 18/19/24, M60055

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: | IV-STOCK-12 |
| Lot Number: | U2-MEB734294 |
| Matrix: | 5% (v/v) HNO3 |
| Value / Analyte(s): | 10 µg/mL ea: |

Barium, Beryllium,
Bismuth, Cerium,
Cobalt, Indium,
Lithium, Nickel,
Lead, Uranium

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|---|---|---|---|
| Barium, Ba | 10.01 ± 0.04 µg/mL | Beryllium, Be | 10.01 ± 0.05 µg/mL |
| Bismuth, Bi | 10.01 ± 0.06 µg/mL | Cerium, Ce | 10.01 ± 0.04 µg/mL |
| Cobalt, Co | 10.01 ± 0.05 µg/mL | Indium, In | 10.01 ± 0.04 µg/mL |
| Lead, Pb | 10.00 ± 0.04 µg/mL | Lithium, Li | 10.01 ± 0.04 µg/mL |
| Nickel, Ni | 10.01 ± 0.04 µg/mL | Uranium, U | 10.01 ± 0.05 µg/mL |

**Density:** 1.025 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---|---|---|---|
| Ba | ICP Assay | 3104a | 140909 |
| Ba | Calculated | | See Sec. 4.2 |
| Ba | Gravimetric | | See Sec. 4.2 |
| Be | ICP Assay | 3105a | 090514 |
| Be | Calculated | | See Sec. 4.2 |
| Bi | ICP Assay | 3106 | 180815 |
| Ce | ICP Assay | 3110 | 160830 |
| Ce | EDTA | 928 | 928 |
| Ce | Calculated | | See Sec. 4.2 |
| Co | ICP Assay | 3113 | 190630 |
| Co | EDTA | 928 | 928 |
| Co | Calculated | | See Sec. 4.2 |
| In | ICP Assay | 3124a | 110516 |
| In | EDTA | 928 | 928 |
| In | Calculated | | See Sec. 4.2 |
| Li | ICP Assay | 3129a | 100714 |
| Li | Calculated | | See Sec. 4.2 |
| Li | Gravimetric | | See Sec. 4.2 |
| Ni | ICP Assay | 3136 | 120619 |
| Ni | EDTA | 928 | 928 |
| Ni | Calculated | | See Sec. 4.2 |
| Pb | ICP Assay | 3128 | 101026 |
| Pb | EDTA | 928 | 928 |
| Pb | Calculated | | See Sec. 4.2 |
| U | ICP Assay | traceable to 3164 | R2-U689597 |
| U | 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

**Certified Abundance:**

**IV's Certified Abundance**

| Isotope | Atom % |
|---|---|
| Uranium 238U | 99.8 ± 0.1 |
| Uranium 235U | 0.19 ± 0.05 |

## 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 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**

**- June 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



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

R: 01/03/24 M5806, M5807

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

## CERTIFIED WEIGHT REPORT:

**Part Number:** 58111
**Lot Number:** 122223
**Description:** Sodium (Na)

**Expiration Date:** 122226
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB

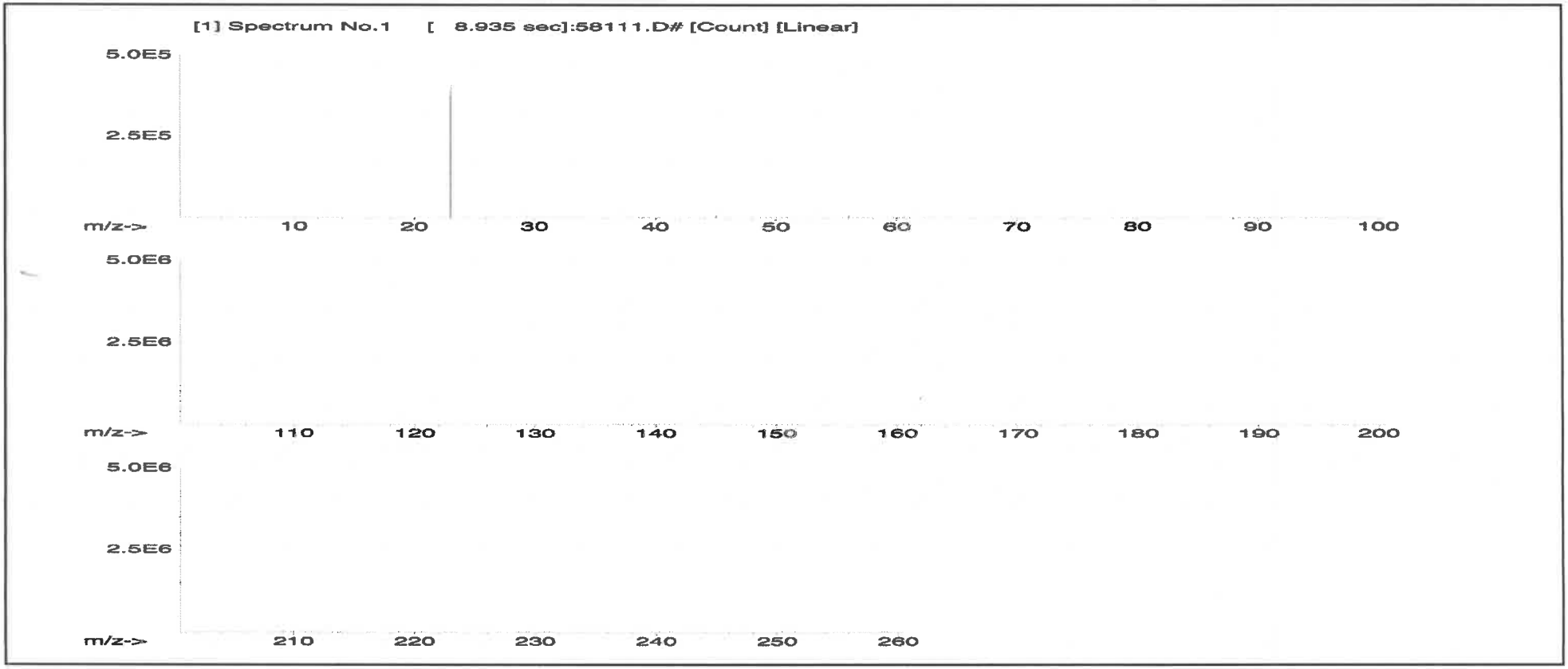
**Weight shown below was diluted to (mL):** 3000.4 | 0.06 Flask Uncertainty

| | Lot # | |
|---|---|---|
| **Solvent:** | 24002546 | Nitric Acid |
| 2% | 60.0 (mL) | Nitric Acid |
| | 5E-05 | Balance Uncertainty |

Aleah O'Brady
Formulated By: Aleah O'Brady 122223

Reviewed By: Pedro L. Rentas 122223

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Sodium nitrate (Na) | IN036 | NAV012015I1 | 10000 | 99.999 | 0.10 | 26.9 | 111.5406 | 111.5479 | **10000.7** | **20.0** | 7631-99-4 | 5 mg/m3 | orl-rat 3430 mg/kg | 3152a |



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | T | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

**Certified by:**

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

INORGANIC VENTURES™
Refine your results. Redefine your industry.

A: 4/11/22

# Certificate of Analysis

M5738, M5739, M5740, M5741, M5742, M5743

300 Technology Drive
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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: | 6020ISS |
| Lot Number: | S2-MEB709511 |
| Matrix: | 7% (v/v) HNO3 |
| Value / Analyte(s): | 10 µg/mL ea: |

Bismuth, Holmium,
Indium, 6-Lithium,
Rhodium, Scandium,
Terbium, Yttrium

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|---|---|---|---|
| 6-Lithium, Li6 | 10.00 ± 0.03 µg/mL | Bismuth, Bi | 10.00 ± 0.05 µg/mL |
| Holmium, Ho | 10.00 ± 0.05 µg/mL | Indium, In | 10.00 ± 0.04 µg/mL |
| Rhodium, Rh | 10.00 ± 0.07 µg/mL | Scandium, Sc | 10.00 ± 0.04 µg/mL |
| Terbium, Tb | 10.00 ± 0.04 µg/mL | Yttrium, Y | 10.00 ± 0.04 µg/mL |

**Density:** 1.035 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---|---|---|---|
| Bi | ICP Assay | 3106 | 180815 |
| Bi | Calculated | | See Sec. 4.2 |
| Ho | ICP Assay | 3123a | 090408 |
| Ho | EDTA | 928 | 928 |
| In | ICP Assay | 3124a | 110516 |
| In | EDTA | 928 | 928 |
| In | Calculated | | See Sec. 4.2 |
| Li6 | Gravimetric | | See Sec. 4.2 |
| Rh | ICP Assay | 3144 | 070619 |
| Sc | ICP Assay | 3148a | 100701 |
| Sc | EDTA | 928 | 928 |
| Tb | ICP Assay | 3157a | 100518 |
| Tb | EDTA | 928 | 928 |
| Tb | Calculated | | See Sec. 4.2 |
| Y | ICP Assay | 3167a | 120314 |
| Y | EDTA | 928 | 928 |
| Y | Calculated | | See Sec. 4.2 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

**Characterization of CRM/RM by Two or More Methods**

**Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:**

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

$X_i$ = mean of Assay Method i with standard uncertainty $u_{char\ i}$

$w_i$ = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$**

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

**Characterization of CRM/RM by One Method**

**Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:**

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

$X_a$ = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$**

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

**Certified Abundance:**

**IV's Certified Abundance**

| Isotope | Atom % |
|---|---|
| Lithium Li6 | 95.6 ± 0.3 |
| Lithium Li7 | 4.4 ± 0.1 |

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

September 03, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

**- September 03, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Michael Booth
Director, Quality Control



**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director



# QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)

**NOTE:** These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

***APPLICATION:*** For use with the CLP SFAM01.0 SOW and revisions.

***CAUTION:*** Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
**HAZARDOUS MATERIAL**

Safety Data Sheets
Available Upon Request

## (A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of an 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-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

***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 the Contracting Officer, Ross Miller at miller.ross@epa.gov. If directed by Ross Miller, 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*

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for the ICP-MS ICS 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:



*The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.*

**ICSA-0803, Inferferents:** Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v $HNO_3$. Analyze this solution by ICP-MS.

**ICSB-0803, Analytes, mixed with ICSA-0803, 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 1% v/v $HNO_3$. Analyze this ICSAB solution by ICP-MS.

## (D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS 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-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803**

ICSA: M5873

ICSB: M5874

| Element | CRQL | Part A (µg/L) | Lower Limit (µg/L) | Upper Limit (µg/L) | Part A +Part B (µg/L) | Lower Limit (µg/L) | Upper Limit (µg/L) |
|---|---|---|---|---|---|---|---|
| Al | 20.0 | [100000] | | | [100000] | | |
| Sb | 2.0 | (1.5) | -2.5 | 5.5 | (22.0) | 18.0 | 26.0 |
| As | 1.0 | (0.1) | -1.9 | 2.1 | 19.0 | 16.2 | 21.9 |
| Ba | 10.0 | (1.2) | -18.8 | 21.2 | (22.0) | 2.0 | 42.0 |
| Be | 1.0 | (0) | -2.0 | 2.0 | 19.0 | 16.2 | 21.9 |
| Cd | 1.0 | (0.7) | -1.3 | 2.7 | 20.0 | 17.0 | 23.0 |
| Ca | 500 | [100000] | | | [100000] | | |
| C | | [200000] | | | [200000] | | |
| Cl | | [1000000] | | | [1000000] | | |
| Cr | 2.0 | (21.0) | 17.0 | 25.0 | 40.0 | 34.0 | 46.0 |
| Co | 1.0 | (1.0) | -1.0 | 3.0 | 20.0 | 17.0 | 23.0 |
| Cu | 2.0 | (8.0) | 4.0 | 12.0 | (25.0) | 21.0 | 29.0 |
| Fe | 200 | [100000] | | | [100000] | | |
| Pb | 1.0 | (4.0) | 2.0 | 6.0 | 25.0 | 21.3 | 28.8 |
| Mg | 500 | [100000] | | | [100000] | | |
| Mn | 1.0 | (7.0) | 5.0 | 9.0 | 27.0 | 23.0 | 31.1 |
| Mo | | [2000] | | | [2000] | | |
| Ni | 1.0 | (6.0) | 4.0 | 8.0 | 24.0 | 20.4 | 27.6 |
| P | | [100000] | | | [100000] | | |
| K | 500 | [100000] | | | [100000] | | |
| Se | 5.0 | (0.3) | -9.7 | 10.3 | (19.0) | 9.0 | 29.0 |
| Ag | 1.0 | (0) | -2.0 | 2.0 | 18.0 | 15.3 | 20.7 |
| Na | 500 | [100000] | | | [100000] | | |
| S | | [100000] | | | [100000] | | |
| Tl | 1.0 | (0) | -2.0 | 2.0 | 21.0 | 17.9 | 24.2 |
| Ti | | [2000] | | | [2000] | | |
| V | 5.0 | (0.5) | -9.5 | 10.5 | (19.0) | 9.0 | 29.0 |
| Zn | 5.0 | (11.0) | 1.0 | 21.0 | (29.0) | 19.0 | 39.0 |

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

# QATS LABORATORY INORGANIC REFERENCE MATERIAL INTERFERENCE CHECK SAMPLE SET FOR ICP-MS (ICSA WITH ICSB)

**NOTE:** These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

***APPLICATION:*** For use with the CLP SFAM01.0 SOW and revisions.

***CAUTION:*** Read instructions carefully before opening bottle(s) and proceeding with the analyses.

Contains Heavy Metals
**HAZARDOUS MATERIAL**

Safety Data Sheets
Available Upon Request

## (A) *SAMPLE DESCRIPTION*

Enclosed is a set of one (1) or more bottles of an 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-0803" and for the ICSAB mixture use "ICSA-0803+ICSB-0803".**

***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 the Contracting Officer, Ross Miller at miller.ross@epa.gov. If directed by Ross Miller, return the chain of custody record with appropriate annotations and signatures to the address provided below.

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**Las Vegas, NV 89120**

## (C) *ANALYSIS OF SAMPLES*

This interference check sample set is to be used to verify elemental isobaric correction factors of inductively coupled plasma-mass spectrometers (ICP-MS). This reference material set consists of two (2) concentrated solutions. The ICSA solution contains several interferent elements and species; for a complete listing refer to the CLP SOW. The ICSB solution contains the analytes: Ag, As, Sb, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Tl, Se, V, and Zn. This instruction sheet provides the nominal values for the ICP-MS ICS 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:



*The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.*

**ICSA-0803, Inferferents:** Pipet 10 mL of the ICSA solution into a 100 mL volumetric flask and dilute to volume with 1% v/v $HNO_3$. Analyze this solution by ICP-MS.

**ICSB-0803, Analytes, mixed with ICSA-0803, 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 1% v/v $HNO_3$. Analyze this ICSAB solution by ICP-MS.

## (D) *"CERTIFIED VALUE" CONCENTRATIONS OF QATS ICP-MS 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-MS ICSA-0803, AND ICSA-0803 MIXED WITH ICSB-0803**

ICSA: M5873

ICSB: M5874

| Element | CRQL | Part A (µg/L) | Lower Limit (µg/L) | Upper Limit (µg/L) | Part A +Part B (µg/L) | Lower Limit (µg/L) | Upper Limit (µg/L) |
|---|---|---|---|---|---|---|---|
| Al | 20.0 | [100000] | | | [100000] | | |
| Sb | 2.0 | (1.5) | -2.5 | 5.5 | (22.0) | 18.0 | 26.0 |
| As | 1.0 | (0.1) | -1.9 | 2.1 | 19.0 | 16.2 | 21.9 |
| Ba | 10.0 | (1.2) | -18.8 | 21.2 | (22.0) | 2.0 | 42.0 |
| Be | 1.0 | (0) | -2.0 | 2.0 | 19.0 | 16.2 | 21.9 |
| Cd | 1.0 | (0.7) | -1.3 | 2.7 | 20.0 | 17.0 | 23.0 |
| Ca | 500 | [100000] | | | [100000] | | |
| C | | [200000] | | | [200000] | | |
| Cl | | [1000000] | | | [1000000] | | |
| Cr | 2.0 | (21.0) | 17.0 | 25.0 | 40.0 | 34.0 | 46.0 |
| Co | 1.0 | (1.0) | -1.0 | 3.0 | 20.0 | 17.0 | 23.0 |
| Cu | 2.0 | (8.0) | 4.0 | 12.0 | (25.0) | 21.0 | 29.0 |
| Fe | 200 | [100000] | | | [100000] | | |
| Pb | 1.0 | (4.0) | 2.0 | 6.0 | 25.0 | 21.3 | 28.8 |
| Mg | 500 | [100000] | | | [100000] | | |
| Mn | 1.0 | (7.0) | 5.0 | 9.0 | 27.0 | 23.0 | 31.1 |
| Mo | | [2000] | | | [2000] | | |
| Ni | 1.0 | (6.0) | 4.0 | 8.0 | 24.0 | 20.4 | 27.6 |
| P | | [100000] | | | [100000] | | |
| K | 500 | [100000] | | | [100000] | | |
| Se | 5.0 | (0.3) | -9.7 | 10.3 | (19.0) | 9.0 | 29.0 |
| Ag | 1.0 | (0) | -2.0 | 2.0 | 18.0 | 15.3 | 20.7 |
| Na | 500 | [100000] | | | [100000] | | |
| S | | [100000] | | | [100000] | | |
| Tl | 1.0 | (0) | -2.0 | 2.0 | 21.0 | 17.9 | 24.2 |
| Ti | | [2000] | | | [2000] | | |
| V | 5.0 | (0.5) | -9.5 | 10.5 | (19.0) | 9.0 | 29.0 |
| Zn | 5.0 | (11.0) | 1.0 | 21.0 | (29.0) | 19.0 | 39.0 |

[ ] Indicates analytes that do not require ICP-MS determination in the ICS.
The acceptance ranges for all analytes in parentheses in the above table were determined using the listed certified value ± 2 times the associated CLP SOW CRQL. The acceptance ranges for all other analytes were determined using the certified value ± 15 percent of the listed certified value.

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R: 01/03/24 M5802, M5803

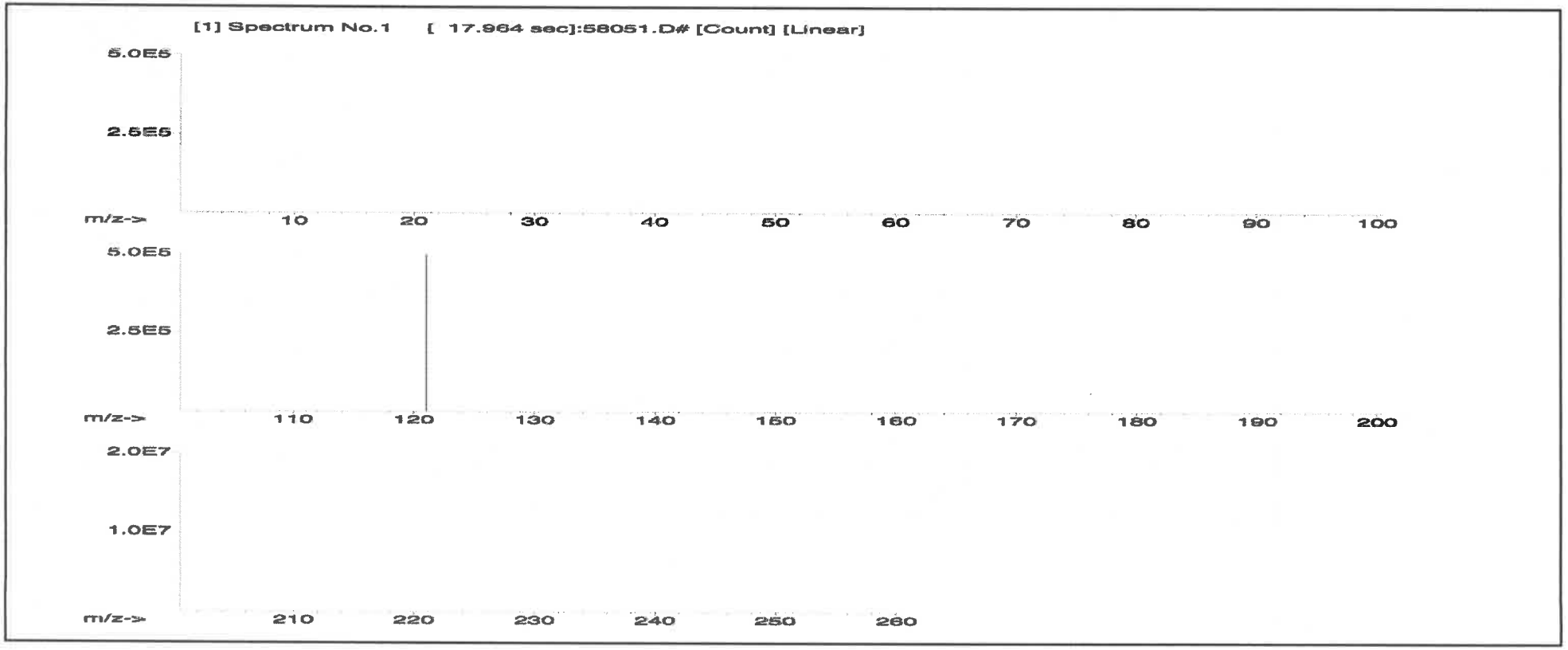


CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | | |
|---|---|---|---|---|---|
| **Part Number:** | **57051** | 24002546 | Nitric Acid | | |
| **Lot Number:** | **120523** | | | | |
| **Description:** | **Antimony (Sb)** | | | | |
| | | 2.0% | 60.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 120526 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Volume shown below was diluted to (mL):** | 3000.41 | 0.058 | Flask Uncertainty | | |

| | | |
|---|---|---|
| Formulated By: | Lawrence Barry | 120523 |
| Reviewed By: | Pedro L. Rentas | 120523 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Antimony (Sb) | 58151 | 100923 | 0.1000 | 300.0 | 0.084 | 1000 | 10001.4 | **1000.0** | 2.1 | 7440-36-0 | 0.5 mg/m3 | orl-rat 7000 mg/kg | 3102a |



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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).

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***Certified Reference Material CRM***

M6030

R: 8/5/24

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CERTIFIED WEIGHT REPORT:

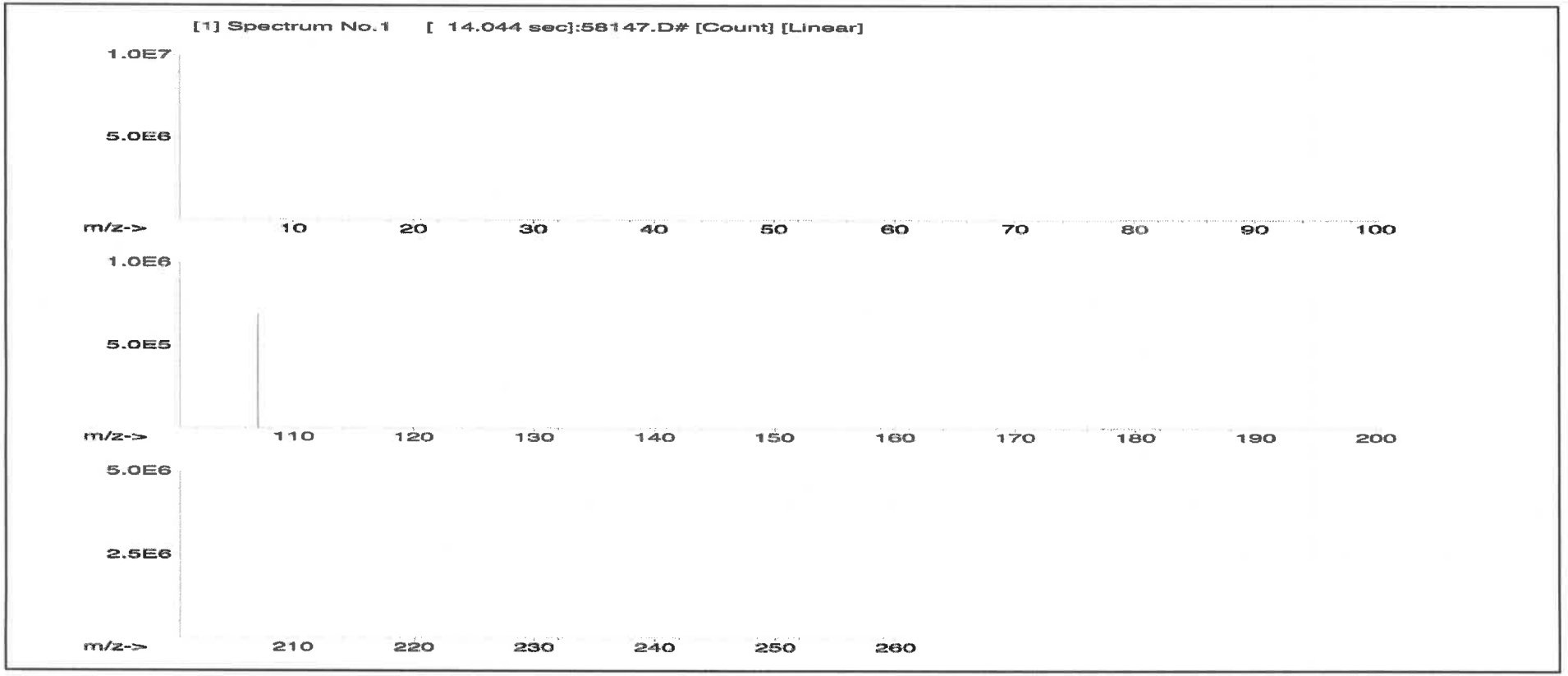
**Part Number:** 57047
**Lot Number:** 122823
**Description:** Silver (Ag)

**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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***Certified Reference Material CRM***

R: 03/16/23 M5473, M5474, M5475, M5476

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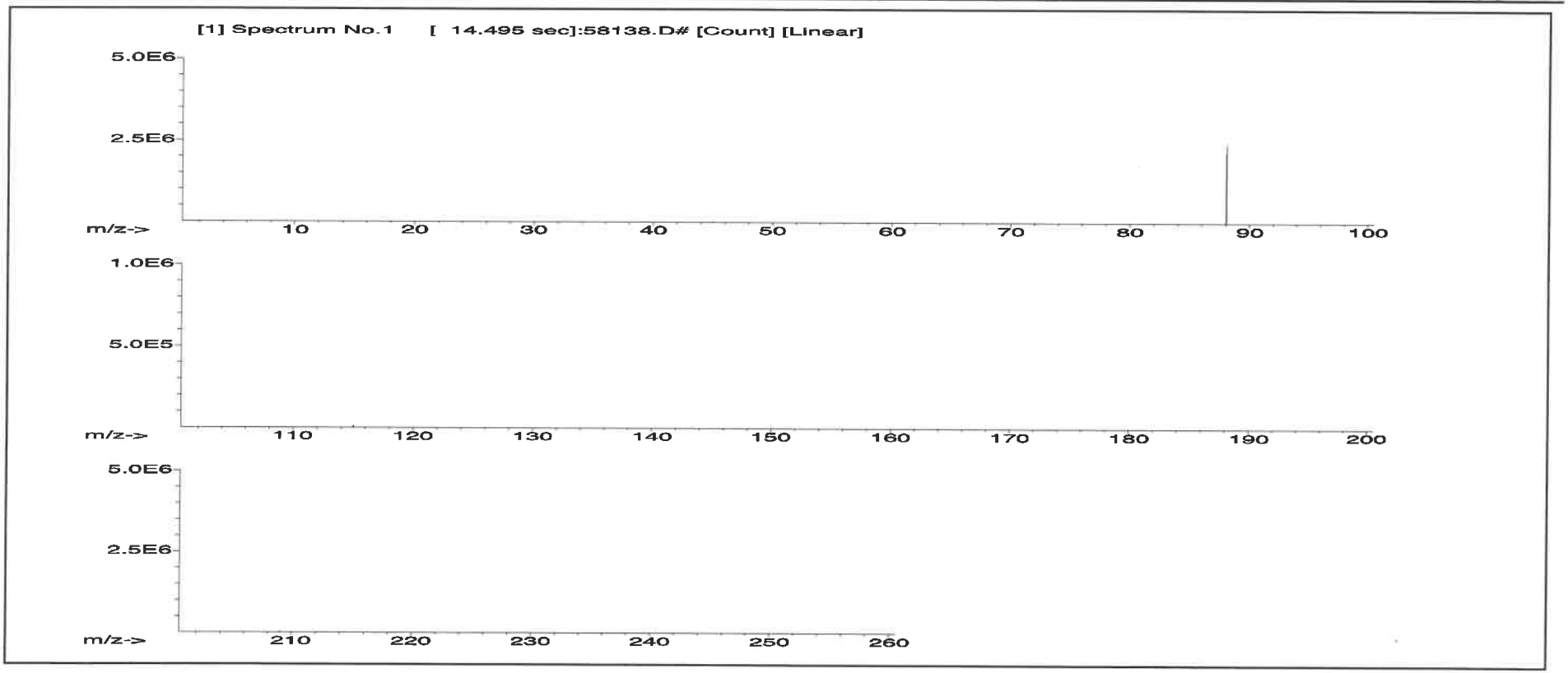
CERTIFIED WEIGHT REPORT:

**Part Number:** 56138
**Lot Number:** 082922
**Description:** Strontium (Sr)
**Expiration Date:** 082925
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 1000.12

| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 20510011 | Nitric Acid | |
| 2% | 20.0 (mL) | Nitric Acid | |
| | 5E-05 | Balance Uncertainty | |
| | 0.058 | Flask Uncertainty | |

Formulated By: Lawrence Barry 082922
Reviewed By: Pedro L. Rentas 082922

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | **Actual Conc. (µg/mL)** | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Strontium nitrate (Sr) | IN017 | SRZ022018A1 | 10000 | 99.997 | 0.10 | 41.2 | 24.2756 | 24.2758 | **10000.1** | **20.0** | 10042-76-9 | NA | orl-rat >2000mg/kg | 3153a |



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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 | T | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 03/16/23 M5473, M5474, M5475, M5476

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AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT:

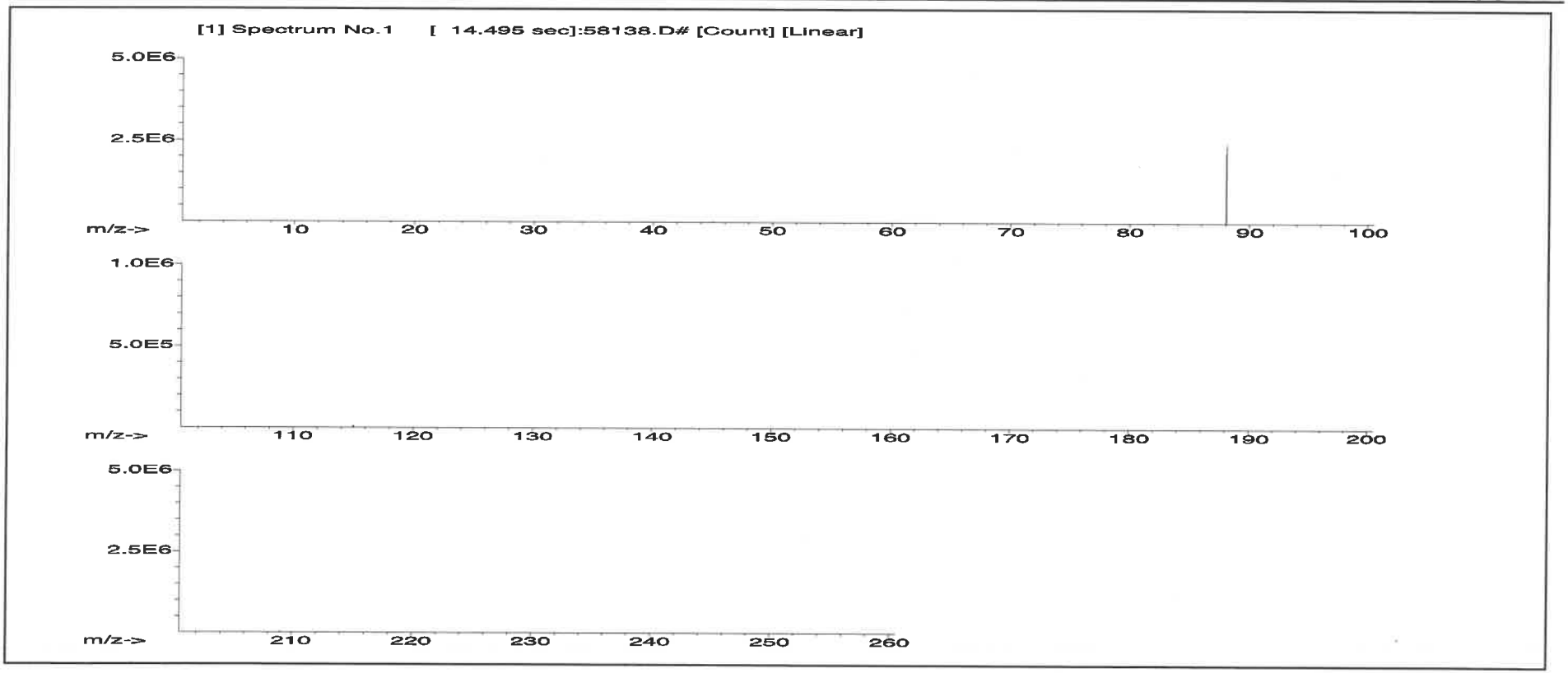
**Part Number:** 56138
**Lot Number:** 082922
**Description:** Strontium (Sr)
**Expiration Date:** 082925
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 1000.12

| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 20510011 | Nitric Acid | |
| 2% | 20.0 (mL) | Nitric Acid | |
| | 5E-05 | Balance Uncertainty | |
| | 0.058 | Flask Uncertainty | |

Formulated By: Lawrence Barry 082922

Reviewed By: Pedro L. Rentas 082922

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | **Actual Conc. (µg/mL)** | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Strontium nitrate (Sr) | IN017 | SRZ022018A1 | 10000 | 99.997 | 0.10 | 41.2 | 24.2756 | 24.2758 | **10000.1** | **20.0** | 10042-76-9 | NA | orl-rat >2000mg/kg | 3153a |



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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 | T | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
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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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M6023

R ! 8/5/24

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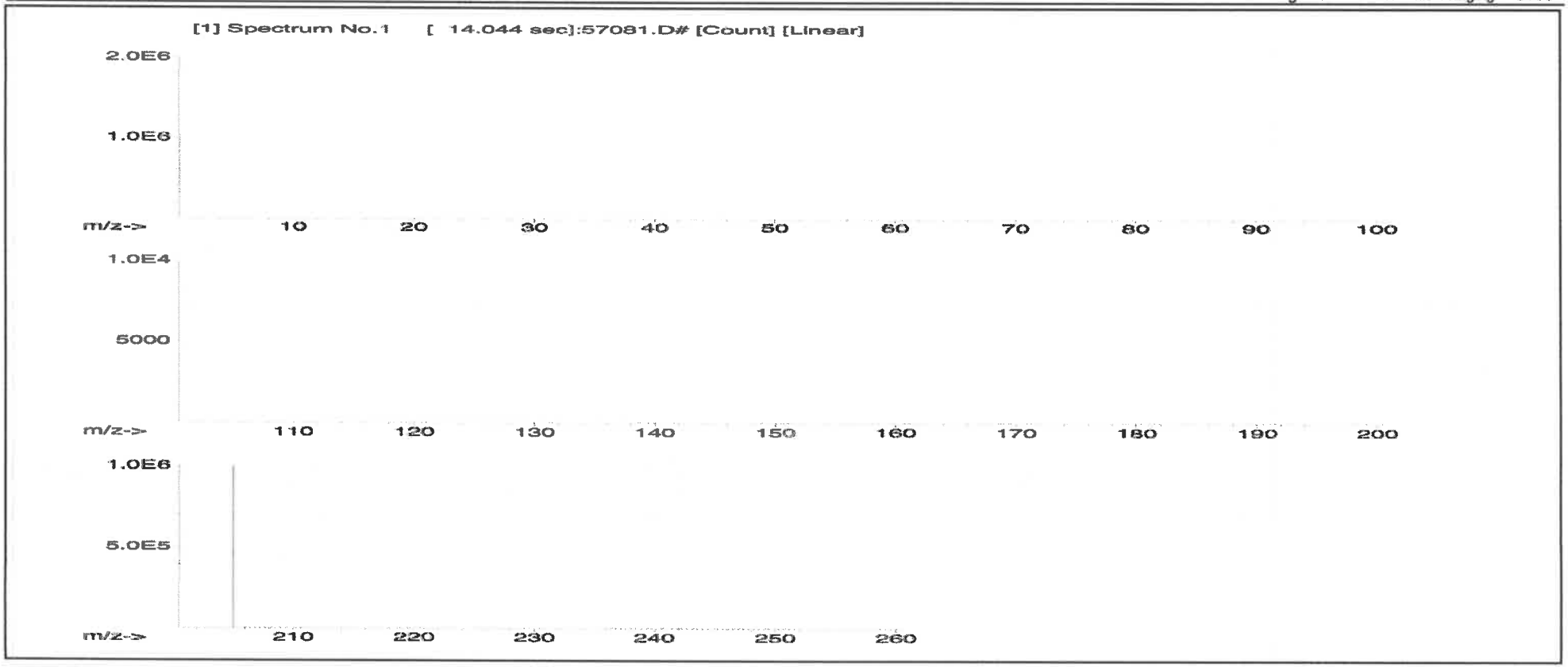
CERTIFIED WEIGHT REPORT:

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



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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:

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Rc. 8/5/24



CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | |
|---|---|---|---|---|
| **Part Number:** | **57023** | | | |
| **Lot Number:** | **062424** | 24002546 | Nitric Acid | |
| **Description:** | **Vanadium (V)** | | | |
| | | 2.0% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 062427 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Volume shown below was diluted to (mL):** | 2000.3 | 0.06 | Flask Uncertainty | |

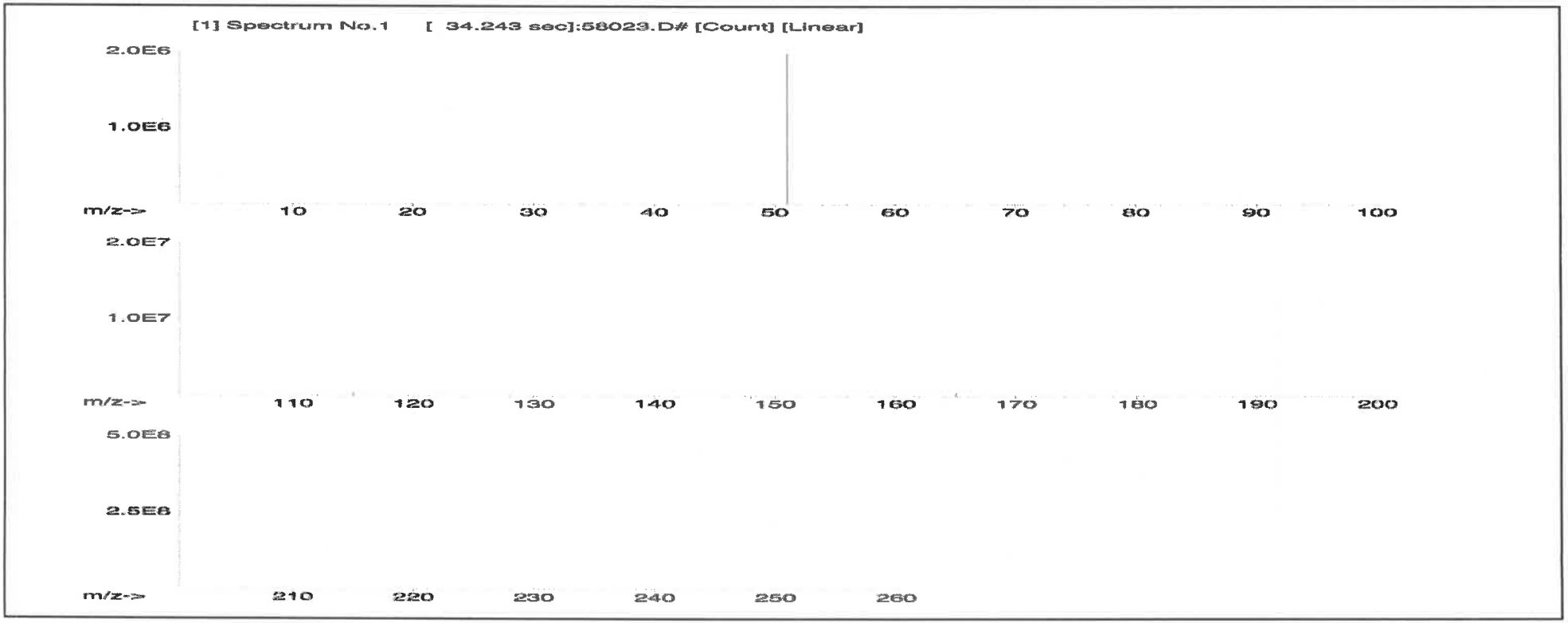
Aleah O'Brady

| Formulated By: | Aleah O'Brady | 062424 |
|---|---|---|

Pedro Rentas

| Reviewed By: | Pedro L. Rentas | 062424 |
|---|---|---|

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Ammonium metavanadate (V) | 58123 | 021224 | 0.1000 | 200.0 | 0.084 | 1000 | 10000.3 | **1000.0** | **2.2** | 7803-55-6 | 0.05 mg/m3 | orl-rat 58.1mg/kg | 3165 |



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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 | 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.
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* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

# SHIPPING DOCUMENTS

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# Packing List

| Date | Order # |
|---|---|
| 09/03/2024 | 318988 |

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

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**Ship To**

Chemtech - NJ
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ
9/5/2024
9:50

| Customer PO # | Terms | PT Acct # | Customer # | Ship Via | F.O.B. |
|---|---|---|---|---|---|
| 240802-01 | Net 30 | ZCM-100 | 1500470 | FedEx 2nd Day | Golden, CO |

| Qty Ordered | Qty Shipped | Qty Backorder | Part Number | Part Description | Study Number | Lot Number |
|---|---|---|---|---|---|---|
| | | | PT-TMSET-WP | WP Trace Metals Set : (TM1, HG and SNTI) | | |
| 1 | 1 | 0 | PT-TM1-WP | WP Trace Metals 1 | WP0924 | 8259-04 |
| 1 | 1 | 0 | PT-HG-WP | WP Mercury | WP0924 | 8259-05 |
| 1 | 1 | 0 | PT-SNTI-WP | WP Tin & Titanium | WP0924 | 8259-38 |
| 1 | 1 | 0 | PT-CR6-WP | WP Hexavalent Chromium | WP0924 | 8259-06 |
| 1 | 1 | 0 | PT-DEM-WP | WP Demand | WP0924 | 8259-07 |
| | | | PT-MINSET-WP | WP Minerals Set : (MIN1, MIN2 and COND) | | |
| 1 | 1 | 0 | PT-MIN1-WP | WP Minerals 1 Only | WP0924 | 8259-08 |
| 1 | 1 | 0 | PT-MIN2-WP | WP Minerals 2 Only | WP0924 | 8259-102 |
| 1 | 1 | 0 | PT-COND-WP | WP Conductivity Only | WP0924 | 8259-72 |
| 1 | 1 | 0 | PT-SOL-WP | WP Solids | WP0924 | 8259-09 |
| | | | PT-NUTSET-WP | WP Nutrients Set : (NUT1, NUT2 and NUT3) | | |
| 1 | 1 | 0 | PT-NUT1-WP | WP NUT1 Simple Nutrients Only | WP0924 | 8259-10 |
| 1 | 1 | 0 | PT-NUT2-WP | WP NUT2 - Complex Nutrients | WP0924 | 8259-11 |
| 1 | 1 | 0 | PT-NUT3-WP | WP NUT3 - Nitrite Only | WP0924 | 8259-69 |
| 1 | 1 | 0 | PT-OGR1L-WP | WP Oil and Grease 1L | WP0924 | 8259-103 |
| 1 | 1 | 0 | PT-CL-WP | WP Residual Chlorine | WP0924 | 8259-13 |
| 1 | 1 | 0 | PT-PH-WP | WP pH | WP0924 | 8259-15 |
| 1 | 1 | 0 | PT-CN-WP | WP Cyanide | WP0924 | 8259-14 |
| 1 | 1 | 0 | PT-PHEN-WP | WP Phenolics | WP0924 | 8259-16 |

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# Packing List

| Date | Order # |
|---|---|
| 09/03/2024 | 318988 |

6390 Joyce Dr., #100
Golden, CO 80403

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Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

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**Ship To**

Received by: SJ
9/5/2024
9:50

Chemtech - NJ
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

| Customer PO # | Terms | PT Acct # | Customer # | Ship Via | F.O.B. |
|---|---|---|---|---|---|
| 240802-01 | Net 30 | ZCM-100 | 1500470 | FedEx 2nd Day | Golden, CO |

| Qty Ordered | Qty Shipped | Qty Backorder | Part Number | Part Description | Study Number | Lot Number |
|---|---|---|---|---|---|---|
| 1 | 1 | 0 | PT-S2-WP | WP Sulfide | WP0924 | 8259-22 |
| 1 | 1 | 0 | PT-SSOL-WP | WP Settleable Solids | WP0924 | 8259-17 |
| 1 | 1 | 0 | PT-VSOL-WP | WP Volatile Solids | WP0924 | 8259-18 |
| 1 | 1 | 0 | PT-TURB-WP | WP Turbidity | WP0924 | 8259-20 |
| 1 | 1 | 0 | PT-SIO2-WP | WP Silica | WP0924 | 8259-21 |
| 1 | 1 | 0 | PT-COL-WP | WP Color | WP0924 | 8259-51 |
| 1 | 1 | 0 | PT-VOA-WP | WP Volatiles | WP0924 | 8259-26 |
| 1 | 1 | 0 | PT-BN-WP | WP Base Neutrals | WP0924 | 8259-27 |
| 1 | 1 | 0 | PT-ACIDS-WP | WP Acids | WP0924 | 8259-28 |
| 1 | 1 | 0 | PT-PEST-WP | WP Pesticides | WP0924 | 8259-29 |
| 1 | 1 | 0 | PT-CHLR-WP | WP Chlordane | WP0924 | 8259-30 |
| 1 | 1 | 0 | PT-TXP-WP | WP Toxaphene | WP0924 | 8259-31 |
| 1 | 1 | 0 | PT-PCBW-WP | WP PCBs in Water | WP0924 | 8259-32 |
| 1 | 1 | 0 | PT-HERB-WP | WP Herbicides | WP0924 | 8259-36 |
| 1 | 1 | 0 | RR-TPH1L-WP | WP TPH 1L | R39151 | R39151-104 |
| 1 | 1 | 0 | RR-PAH-WP | WP PAH-Low Level | R39151 | R39151-37 |
| 1 | 1 | 0 | RR-GAS-WP | WP Gasoline Range Organics | R39151 | R39151-62 |
| 1 | 1 | 0 | RR-DIES-WP | WP Diesel Range Organics | R39151 | R39151-63 |
| 1 | 1 | 0 | RR-8011-WP | WP EDB/DBCP/TCP | R39151 | R39151-98 |
| 1 | 1 | 0 | RR-TRIAZINE-WP | WP Triazine Pesticides | R39151 | R39151-108 |

CHEMTECH 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 |