SDG COVER PAGE

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

Lab Code: ACE Case No.: 51878 MA No.: SDG No.: E29Z5

SOW No. : SFAM01.1

| EPA Sample No. | Lab Sample Id | Analysis Method ICP-AES | ICP-MS | Mercury | Cyanide |
|---|---|---|---|---|---|
| E29Z1 | P4877-01 | | X | X | |
| E29Z3 | P4877-02 | | X | X | |
| E29Z5 | P4877-03 | | X | X | |
| E29Z7 | P4877-04 | | X | X | |
| E2A13 | P4877-05 | | X | X | |
| E2A19 | P4877-06 | | X | X | |
| E2A22 | P4877-07 | | X | X | |
| E2A23 | P4877-08 | | X | X | |
| E29Z9 | P4877-09 | | X | X | |
| E2A01 | P4877-10 | | X | X | |
| E2A01D | P4877-11 | | X | X | |
| E2A01S | P4877-12 | | X | X | |
| E2A03 | P4877-13 | | X | X | |
| E2A05 | P4877-14 | | X | X | |
| E2A07 | P4877-15 | | X | X | |
| E2A09 | P4877-16 | | X | X | |
| E2A20 | P4877-17 | | X | X | |
| E2A24 | P4877-18 | | X | X | |
| E29S9 | P4877-19 | | X | X | |

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

Signature: Name:

Date: Title:

68HERH20D0011

SDG # E29Z5

**USEPA CLP COC (LAB COPY)**
DateShipped: 11/14/2024
CarrierName: FedEx
AirbillNo: 779967017584

**CHAIN OF CUSTODY RECORD**

Case #: 51878

**No: 5-111424-134025-0070**
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

2

| Sample Identifier | CLP Sample No. | Matrix/Sampler | Coll. Method | Analysis/Turnaround (Days) | Tag/Preservative/Bottles | Location | Collection Date/Time | For Lab Use Only |
|---|---|---|---|---|---|---|---|---|
| SW-01-11142024 | E29Z1 | Surface Water/ M.Hartman | Grab | TVOA(21), ICP-MS+Hg(21) | 1603 (HCl), 1604 (HNO3) (4) | SW-01 | 11/14/2024 09:12 | 1 T.M |
| SW-01-11142024-F | E29Z2 | Filtered Water/ M.Hartman | Grab | ICP-MS+Hg (diss)(21) | 1605 (HNO3) (1) | SW-01 | 11/14/2024 09:12 | |
| SW-03-11142024 | E29Z3 | Surface Water/ M.Hartman | Grab | TVOA(21), ICP-MS+Hg(21) | 1609 (HCl), 1610 (HNO3) (5) | SW-03 | 11/14/2024 10:09 | 2 T.M |
| SW-03-11142024-F | E29Z4 | Filtered Water/ M.Hartman | Grab | ICP-MS+Hg (diss)(21) | 1611 (HNO3) (1) | SW-03 | 11/14/2024 10:09 | |
| SW-05-11142024 | E29Z5 | Surface Water/ M.Hartman | Grab | TVOA(21), ICP-MS+Hg(21) | 1615 (HCl), 1616 (HNO3) (5) | SW-05 | 11/14/2024 12:00 | 3 T.M SDG |
| SW-05-11142024-F | E29Z6 | Filtered Water/ M.Hartman | Grab | ICP-MS+Hg (diss)(21) | 1617 (HNO3) (1) | SW-05 | 11/14/2024 12:00 | |
| SW-07-11142024 | E29Z7 | Surface Water/ M.Hartman | Grab | TVOA(21), ICP-MS+Hg(21) | 1621 (HCl), 1622 (HNO3) (4) | SW-07 | 11/14/2024 13:45 | 4 T.M |
| SW-07-11142024-F | E29Z8 | Filtered Water/ M.Hartman | Grab | ICP-MS+Hg (diss)(21) | 1623 (HNO3) (1) | SW-07 | 11/14/2024 13:45 | |
| DUP-SW-01-11142024 | E2A13 | Surface Water/ M.Hartman | Grab | TVOA(21), ICP-MS+Hg(21) | 1673 (HCl), 1674 (HNO3) (5) | DUP-SW-01 | 11/14/2024 12:00 | 5 T.M |
| DUP-SW-01-11142024-F | E2A14 | Filtered Water/ M.Hartman | Grab | ICP-MS+Hg (diss)(21) | 1675 (HNO3) (1) | DUP-SW-01 | 11/14/2024 12:00 | |

Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM 244511-12

**Shipment for Case Complete? N**

**Samples Transferred From Chain of Custody #**

Analysis Key: VOA=CLP Volatiles, TVOA=CLP Trace Volatiles, ICP-MS+Hg=CLP ICP-MS Metals+Hg, ICP-MS+Hg (diss)=CLP ICP-MS Metals+Hg (dissolved)

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|---|---|---|---|---|---|
| | [signature] EA | 11/14/24 EA | [signature] | 11-15-24 0920 | 1.6°C IR gun #1 custody seals present Temp Blk present |
| | | | | | |
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| | | | | | |

68HERH20D0011

SDG # E29Z5

**USEPA CLP COC (LAB COPY)**

DateShipped: 11/14/2024

CarrierName: FedEx

AirbillNo: 779967021635

**CHAIN OF CUSTODY RECORD**

Case #: 51878

**No: 5-111424-164002-0072**

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

3

| Sample Identifier | CLP Sample No. | Matrix/Sampler | Coll. Method | Analysis/Turnaround (Days) | Tag/Preservative/Bottles | Location | Collection Date/Time | For Lab Use Only |
|---|---|---|---|---|---|---|---|---|
| FB-01-11142024 | E2A19 | Water/ M.Hartman | Grab | SVOA+SIM+1,4-D SIM(21), ARO(21), PEST(21), ICP-MS+Hg(21) | 1681 (None), 1682 (None), 1683 (None), 1684 (HNO3) (7) | FB-01 | 11/14/2024 14:25 | 6 T.M |

Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM 244513-14

**Shipment for Case Complete? N**

**Samples Transferred From Chain of Custody #**

Analysis Key: SVOA+SIM+1,4-D SIM=CLP Semivolatiles+SIM, ARO=CLP PCB Aroclors, PEST=CLP Pesticides, ICP-MS+Hg=CLP ICP-MS Metals+Hg

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|---|---|---|---|---|---|
| | Molly Rebler EA | 11/14/24 18:30 | | 11-15-24 0920 | 2.3°C IR Gun #1 |
| | | | | | Custody Seals Intact |
| | | | | | Temp Blk present |
| | | | | | |

68HERH20D0011

SDG # E29Z5

**USEPA CLP COC (LAB COPY)**

DateShipped: 11/14/2024

CarrierName: FedEx

AirbillNo: 779967032242

**CHAIN OF CUSTODY RECORD**

Case #: 51878

**No: 5-111424-171037-0075**

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

4

| Sample Identifier | CLP Sample No. | Matrix/Sampler | Coll. Method | Analysis/Turnaround (Days) | Tag/Preservative/Bottles | Location | Collection Date/Time | For Lab Use Only |
|---|---|---|---|---|---|---|---|---|
| RB-SW-01-11152024 | E2A22 | Water/ M.Hartman | Grab | SVOA+SIM+1,4-D SIM(21), ARO(21), PEST(21), ICP-MS+Hg(21) | 1696 (None), 1697 (None), 1698 (None), 1699 (HNO3) (7) | RB-01 | 11/14/2024 17:15 | 7 T-M |

Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM 244527-244528

**Shipment for Case Complete? N**

**Samples Transferred From Chain of Custody #**

Analysis Key: SVOA+SIM+1,4-D SIM=CLP Semivolatiles+SIM, ARO=CLP PCB Aroclors, PEST=CLP Pesticides, ICP-MS+Hg=CLP ICP-MS Metals+Hg

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|---|---|---|---|---|---|
| | [signature] EA | 11/14/24 18:30 | [signature] | 920 11-15-24 | IR-Cont / 2.4°C Custody Seal Intact Temp Blank present |
| | | | | | |
| | | | | | |
| | | | | | |

68HERH20D0011

SDG # E29Z5

**USEPA CLP COC (LAB COPY)**

DateShipped: 11/14/2024

CarrierName: FedEx

AirbillNo: 779967034587

**CHAIN OF CUSTODY RECORD**

Case #: 51878

**No: 5-111424-173155-0076**

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

5

| Sample Identifier | CLP Sample No. | Matrix/Sampler | Coll. Method | Analysis/Turnaround (Days) | Tag/Preservative/Bottles | Location | Collection Date/Time | For Lab Use Only |
|---|---|---|---|---|---|---|---|---|
| RB-SE-01-11152024 | E2A23 | Water/ M.Hartman | Grab | SVOA+SIM+1,4-D SIM(21), ARO(21), PEST(21), ICP-MS+Hg(21) | 1701 (None), 1702 (None), 1703 (None), 1704 (HNO3) (7) | RB-01 | 11/14/2024 17:30 | 8 T.M |

Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM 244529-30

**Shipment for Case Complete? N**

**Samples Transferred From Chain of Custody #**

Analysis Key: SVOA+SIM+1,4-D SIM=CLP Semivolatiles+SIM, ARO=CLP PCB Aroclors, PEST=CLP Pesticides, ICP-MS+Hg=CLP ICP-MS Metals+Hg

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|---|---|---|---|---|---|
| | Mallory Pulla EA | 11/14/24 19:30 | | 11-15-24 0920 | 2.1°C IR GUN #1 |
| | | | | | Custody seals intact |
| | | | | | Temp Blk. present |
| | | | | | |

68HERH20D0011

SDG # E29Z5

**USEPA CLP COC (LAB COPY)**
DateShipped: 11/15/2024
CarrierName: FedEx
AirbillNo: 779982416111

**CHAIN OF CUSTODY RECORD**

Case #: 51878

**No: 5-111524-101932-0081**
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

| Sample Identifier | CLP Sample No. | Matrix/Sampler | Coll. Method | Analysis/Turnaround (Days) | Tag/Preservative/Bottles | Location | Collection Date/Time | For Lab Use Only |
|---|---|---|---|---|---|---|---|---|
| SE-19-0-0.5-11152024 | E29Y9 | Sediment/ M.Hartman | Grab | SVOA+SIM+1,4-D SIM(21), ARO(21), PEST(21), ICP-MS+AES+Hg(21) | 1591 (None), 1592 (None), 1593 (None), 1594 (None) (4) | SE-19 | 11/15/2024 15:10 | |
| SE-20-0-0.5-11152024 | E29Z0 | Sediment/ M.Hartman | Grab | SVOA+SIM+1,4-D SIM(21), ARO(21), PEST(21), ICP-MS+AES+Hg(21) | 1596 (None), 1597 (None), 1598 (None), 1599 (None) (4) | SE-20 | 11/15/2024 15:30 | |
| SW-09-11142024 | E29Z9 | Surface Water/ M.Hartman | Grab | ICP-MS+Hg(21) | 1628 (HNO3) (1) | SW-09 | 11/14/2024 15:35 | ✓ pH 1.9 |
| SW-09-11142024-F | E2A00 | Filtered Water/ M.Hartman | Grab | ICP-MS+Hg (diss)(21) | 1629 (HNO3) (1) | SW-09 | 11/14/2024 15:35 | pH 1.9 |
| SW-11-11152024 | E2A01 | Surface Water/ M.Hartman | Grab | ICP-MS+Hg(21) | 1634 (HNO3) (2) | SW-11 | 11/15/2024 09:10 | ✓ pH 1.9 |
| SW-11-11152024-F | E2A02 | Filtered Water/ M.Hartman | Grab | ICP-MS+Hg (diss)(21) | 1635 (HNO3) (2) | SW-11 | 11/15/2024 09:10 | pH 1.9 |
| SW-13-11152024 | E2A03 | Surface Water/ M.Hartman | Grab | ICP-MS+Hg(21) | 1640 (HNO3) (1) | SW-13 | 11/15/2024 10:20 | ✓ pH 1.9 |
| SW-13-11152024-F | E2A04 | Filtered Water/ M.Hartman | Grab | ICP-MS+Hg (diss)(21) | 1641 (HNO3) (1) | SW-13 | 11/15/2024 10:20 | pH 1.9 |
| SW-15-11152024 | E2A05 | Surface Water/ M.Hartman | Grab | ICP-MS+Hg(21) | 1646 (HNO3) (1) | SW-15 | 11/15/2024 11:45 | ✓ pH 1.9 |

Sample(s) to be used for Lab QC: SW-11-11152024 Tag 1634, SW-11-11152024-F Tag 1635 - Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM

244509 - 244510

**Shipment for Case Complete? N**

**Samples Transferred From Chain of Custody #**

Analysis Key: SVOA+SIM+1,4-D SIM=CLP Semivolatiles+SIM, ARO=CLP PCB Aroclors, PEST=CLP Pesticides, ICP-MS+AES+Hg=CLP ICP-MS+AES Metals+Hg, ICP-MS+Hg=CLP ICP-MS Metals+Hg, ICP-MS+Hg (diss)=CLP ICP-MS Metals+Hg (dissolved)

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|---|---|---|---|---|---|
| | Mike Polk EA | 11/15/24 18:00 | | 9:05 11-16-24 | TR-Cooler # 1 2.1 C |
| | | | | | Custody Seal Intact |
| | | | | | Temp Blank present |

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68HERH20D0011

SDG # E29Z5

**USEPA CLP COC (LAB COPY)**

DateShipped: 11/15/2024

CarrierName: FedEx

AirbillNo: 779982416111

**CHAIN OF CUSTODY RECORD**

Case #: 51878

**No: 5-111524-101932-0081**

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

| Sample Identifier | CLP Sample No. | Matrix/Sampler | Coll. Method | Analysis/Turnaround (Days) | Tag/Preservative/Bottles | Location | Collection Date/Time | For Lab Use Only |
|---|---|---|---|---|---|---|---|---|
| SW-15-11152024-F | E2A06 | Filtered Water/ M.Hartman | Grab | ICP-MS+Hg (diss)(21) | 1647 (HNO3) (1) | SW-15 | 11/15/2024 11:45 | pH 1.9 ✓ |
| SW-17-11152024 | E2A07 | Surface Water/ M.Hartman | Grab | ICP-MS+Hg(21) | 1652 (HNO3) (1) | SW-17 | 11/15/2024 13:35 | |
| SW-17-11152024-F | E2A08 | Filtered Water/ M.Hartman | Grab | ICP-MS+Hg (diss)(21) | 1653 (HNO3) (1) | SW-17 | 11/15/2024 13:35 | |
| SW-19-11152024 | E2A09 | Surface Water/ M.Hartman | Grab | ICP-MS+Hg(21) | 1658 (HNO3) (1) | SW-19 | 11/15/2024 15:15 | ✓ |
| SW-19-11152024-F | E2A10 | Filtered Water/ M.Hartman | Grab | ICP-MS+Hg (diss)(21) | 1659 (HNO3) (1) | SW-19 | 11/15/2024 15:15 | |

Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM

**Shipment for Case Complete? N**

**Samples Transferred From Chain of Custody #**

Analysis Key: SVOA+SIM+1,4-D SIM=CLP Semivolatiles+SIM, ARO=CLP PCB Aroclors, PEST=CLP Pesticides, ICP-MS+AES+Hg=CLP ICP-MS+AES Metals+Hg, ICP-MS+Hg=CLP ICP-MS Metals+Hg, ICP-MS+Hg (diss)=CLP ICP-MS Metals+Hg (dissolved)

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|---|---|---|---|---|---|
| | Molly Pohl EA | 11/18/24 18:00 | CR | 9:08 11-16-24 | IR Gun #1 2.1 ✓ Custody Seal Intact Temp Blk present |
| | | | | | |
| | | | | | |

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68HERH20D0011

SDG # E29Z5

**USEPA CLP COC (LAB COPY)**
DateShipped: 11/15/2024
CarrierName: FedEx
AirbillNo: 779982390195

**CHAIN OF CUSTODY RECORD**

Case #: 51878

**No: 5-111524-101332-0079**
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

8

| Sample Identifier | CLP Sample No. | Matrix/Sampler | Coll. Method | Analysis/Turnaround (Days) | Tag/Preservative/Bottles | Location | Collection Date/Time | For Lab Use Only |
|---|---|---|---|---|---|---|---|---|
| FB-02-11152024 | E2A20 | Water/ M.Hartman | Grab | SVOA+SIM+1,4-D SIM(21), ARO(21), PEST(21), ICP-MS+Hg(21) | 1686 (None), 1687 (None), 1688 (None), 1689 (HNO3) (7) | FB-02 | 11/15/2024 09:30 | PA 19 |

Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM 244533-34

**Shipment for Case Complete? N**
**Samples Transferred From Chain of Custody #**

Analysis Key: SVOA+SIM+1,4-D SIM=CLP Semivolatiles+SIM, ARO=CLP PCB Aroclors, PEST=CLP Pesticides, ICP-MS+Hg=CLP ICP-MS Metals+Hg

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|---|---|---|---|---|---|
| | Mellon Mark | 11/15/24 18:00 | | 11-16-24 0905 | 1.7°C IR GUN #1 |
| | | | | | custody seals intact |
| | | | | | Temp BK. present |
| | | | | | |

68HERH20D0011 SDG # E29Z5

**USEPA CLP COC (LAB COPY)**
DateShipped: 11/15/2024
CarrierName: FedEx
AirbillNo: 779989400140

**CHAIN OF CUSTODY RECORD**

Case #: 51878

**No: 5-111524-150311-0091**
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

| Sample Identifier | CLP Sample No. | Matrix/Sampler | Coll. Method | Analysis/Turnaround (Days) | Tag/Preservative/Bottles | Location | Collection Date/Time | For Lab Use Only |
|---|---|---|---|---|---|---|---|---|
| RB-SW-02-11152024 | E2A24 | Water/ M.Hartman | Grab | SVOA+SIM+1,4-D SIM(21), ARO(21), PEST(21), ICP-MS+Hg(21) | 1706 (None), 1707 (None), 1708 (None), 1709 (HNO3) (7) | RB-SW-02 | 11/15/2024 16:15 | pH 1.9 |

Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM 244503- 244508

**Shipment for Case Complete? N**
**Samples Transferred From Chain of Custody #**

Analysis Key: SVOA+SIM+1,4-D SIM=CLP Semivolatiles+SIM, ARO=CLP PCB Aroclors, PEST=CLP Pesticides, ICP-MS+Hg=CLP ICP-MS Metals+Hg

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|---|---|---|---|---|---|
| | Melba Roblero EA | 11/15/24 16:00 | | 9:05 11-16-24 | IR Gun #4 2.0-C Custody Seal Intact Temp Blk present |
| | | | | | |
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| | | | | | |

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68HERH20D0011

SDG # E29Z5

**USEPA CLP COC (LAB COPY)**

DateShipped: 11/15/2024

CarrierName: FedEx

AirbillNo: 779989407501

**CHAIN OF CUSTODY RECORD**

Case #: 51878

**No: 5-111524-150408-0092**

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-789-8900

10

| Sample Identifier | CLP Sample No. | Matrix/Sampler | Coll. Method | Analysis/Turnaround (Days) | Tag/Preservative/Bottles | Location | Collection Date/Time | For Lab Use Only |
|---|---|---|---|---|---|---|---|---|
| RB-SE-02-11152024 | E29S9 | Water/ M.Hartman | Grab | SVOA+SIM+1,4-D SIM(21), ARO(21), PEST(21), ICP-MS+Hg(21) | 1713 (None), 1714 (None), 1715 (None), 1716 (HNO3) (7) | RB-SE-02 | 11/15/2024 16:30 | pw 19 |
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Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM 244507-08

**Shipment for Case Complete? N**

**Samples Transferred From Chain of Custody #**

Analysis Key: SVOA+SIM+1,4-D SIM=CLP Semivolatiles+SIM, ARO=CLP PCB Aroclors, PEST=CLP Pesticides, ICP-MS+Hg=CLP ICP-MS Metals+Hg

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|---|---|---|---|---|---|
| | Molly Parker EA | 11/15/24 18:00 | | 11-16-24 0905 | 2.1°C IR GUN #1 |
| | | | | | custody seals intact |
| | | | | | Temp BLK - present |
| | | | | | |

FORM DC-1

SAMPLE LOG-IN SHEET

| | | |
|---|---|---|
| Lab Name : Alliance Technical Group, LLC | | Page 1 of 8 |
| Received By (Print Name) GONSE WESNON | | Log-in Date 11/15/2024 |
| Received By (Signature) | | |
| Case Number 51878 | SDG No. E29Z5 | MA No. N/A |

| Remarks: | |
|---|---|
| 1. Custody Seal (s) | Present, Intact |
| 2. Custody Seal Nos. | 244511-12 |
| 3. Traffic Reports/Chain Of Custody Records | Present |
| 4. Airbill | Present |
| 5. Airbill No. and Shipping Container ID No. | 779967017584<br>1 |
| 6. Shipping Container Temperature Indicator Bottle | Present |
| 7. Shipping Container Temperature | 1.6 Degree C |
| 8. Sample Condition | Intact |
| 9. Sample Tags Sample Tag Numbers | Absent<br>Listed on Traffic Report |
| 10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ? | Yes |
| 11. Date Received at Lab | 11/15/2024 |
| 12.Time Received | 09:20 |

| | EPA Sample # | Aqueous/ Water Sample pH | Corresponding | | Remarks: Condition of Sample Shipment, etc. |
|---|---|---|---|---|---|
| | | | Sample Tag # | Assigned Lab # | |
| 1 | E29Z1 | 1.6 | 1604 | P4877-01 | Intact |
| 2 | E29Z3 | 1.6 | 1610 | P4877-02 | Intact |
| 3 | E29Z5 | 1.6 | 1616 | P4877-03 | Intact |
| 4 | E29Z7 | 1.6 | 1622 | P4877-04 | Intact |
| 5 | E2A13 | 1.6 | 1674 | P4877-05 | Intact |
| 6 | N/A | N/A | N/A | N/A | N/A |
| 7 | N/A | N/A | N/A | N/A | N/A |
| 8 | N/A | N/A | N/A | N/A | N/A |
| 9 | N/A | N/A | N/A | N/A | N/A |
| 10 | N/A | N/A | N/A | N/A | N/A |
| 11 | N/A | N/A | N/A | N/A | N/A |
| 12 | N/A | N/A | N/A | N/A | N/A |
| 13 | N/A | N/A | N/A | N/A | N/A |
| 14 | N/A | N/A | N/A | N/A | N/A |
| 15 | N/A | N/A | N/A | N/A | N/A |
| 16 | N/A | N/A | N/A | N/A | N/A |
| 17 | N/A | N/A | N/A | N/A | N/A |
| 18 | N/A | N/A | N/A | N/A | N/A |
| 19 | N/A | N/A | N/A | N/A | N/A |
| 20 | N/A | N/A | N/A | N/A | N/A |
| 21 | N/A | N/A | N/A | N/A | N/A |
| 22 | N/A | N/A | N/A | N/A | N/A |
| 23 | N/A | N/A | N/A | N/A | N/A |

* Contact SMO and attach record of resolution

| | |
|---|---|
| Reviewed By | Logbook No. N/A |
| Date 11/15/24 | Logbook Page No. N/A |

FORM DC-1

SAMPLE LOG-IN SHEET

| | | |
|---|---|---|
| Lab Name : Alliance Technical Group, LLC | | Page 2 of 1 |
| Received By (Print Name) George Mesuk | | Log-in Date 11/15/2024 |
| Received By (Signature) | | |
| Case Number 51878 | SDG No. E29Z5 | MA No. N/A |

| Remarks: | |
|---|---|
| 1. Custody Seal (s) | Present, Intact |
| 2. Custody Seal Nos. | 244513-14 |
| 3. Traffic Reports/Chain Of Custody Records | Present |
| 4. Airbill | Present |
| 5. Airbill No. and Shipping Container ID No. | 779967021635<br>2 |
| 6. Shipping Container Temperature Indicator Bottle | Present |
| 7. Shipping Container Temperature | 2.3 Degree C |
| 8. Sample Condition | Intact |
| 9. Sample Tags Sample Tag Numbers | Absent<br>Listed on Traffic Report |
| 10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ? | Yes |
| 11. Date Received at Lab | 11/15/2024 |
| 12.Time Received | 09:20 |

| | EPA Sample # | Aqueous/ Water Sample pH | Corresponding Sample Tag # | Corresponding Assigned Lab # | Remarks: Condition of Sample Shipment, etc. |
|---|---|---|---|---|---|
| 1 | E2A19 | 1.6 | 1684 | P4877-06 | Intact |
| 2 | N/A | N/A | N/A | N/A | N/A |
| 3 | N/A | N/A | N/A | N/A | N/A |
| 4 | N/A | N/A | N/A | N/A | N/A |
| 5 | N/A | N/A | N/A | N/A | N/A |
| 6 | N/A | N/A | N/A | N/A | N/A |
| 7 | N/A | N/A | N/A | N/A | N/A |
| 8 | N/A | N/A | N/A | N/A | N/A |
| 9 | N/A | N/A | N/A | N/A | N/A |
| 10 | N/A | N/A | N/A | N/A | N/A |
| 11 | N/A | N/A | N/A | N/A | N/A |
| 12 | N/A | N/A | N/A | N/A | N/A |
| 13 | N/A | N/A | N/A | N/A | N/A |
| 14 | N/A | N/A | N/A | N/A | N/A |
| 15 | N/A | N/A | N/A | N/A | N/A |
| 16 | N/A | N/A | N/A | N/A | N/A |
| 17 | N/A | N/A | N/A | N/A | N/A |
| 18 | N/A | N/A | N/A | N/A | N/A |
| 19 | N/A | N/A | N/A | N/A | N/A |
| 20 | N/A | N/A | N/A | N/A | N/A |
| 21 | N/A | N/A | N/A | N/A | N/A |
| 22 | N/A | N/A | N/A | N/A | N/A |
| 23 | N/A | N/A | N/A | N/A | N/A |

* Contact SMO and attach record of resolution

| | | | |
|---|---|---|---|
| Reviewed By | | Logbook No. | N/A |
| Date | 11/15/24 | Logbook Page No. | N/A |

FORM DC-1

SAMPLE LOG-IN SHEET

| | | |
|---|---|---|
| Lab Name : Alliance Technical Group, LLC | | Page 3 of 8 |
| Received By (Print Name) GORGE NEGRON | | Log-in Date 11/15/2024 |
| Received By (Signature) | | |
| Case Number 51878 | SDG No. E29Z5 | MA No. N/A |

| Remarks: | |
|---|---|
| 1. Custody Seal (s) | Present, Intact |
| 2. Custody Seal Nos. | 244527-28 |
| 3. Traffic Reports/Chain Of Custody Records | Present |
| 4. Airbill | Present |
| 5. Airbill No. and Shipping Container ID No. | 779967032242<br>3 |
| 6. Shipping Container Temperature Indicator Bottle | Present |
| 7. Shipping Container Temperature | 2.4 Degree C |
| 8. Sample Condition | Intact |
| 9. Sample Tags Sample Tag Numbers | Absent<br>Listed on Traffic Report |
| 10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ? | Yes |
| 11. Date Received at Lab | 11/15/2024 |
| 12.Time Received | 09:20 |

| | EPA Sample # | Aqueous/ Water Sample pH | Corresponding Sample Tag # | Corresponding Assigned Lab # | Remarks: Condition of Sample Shipment, etc. |
|---|---|---|---|---|---|
| 1 | E2A22 | 1.6 | 1699 | P4877-07 | Intact |
| 2 | N/A | N/A | N/A | N/A | N/A |
| 3 | N/A | N/A | N/A | N/A | N/A |
| 4 | N/A | N/A | N/A | N/A | N/A |
| 5 | N/A | N/A | N/A | N/A | N/A |
| 6 | N/A | N/A | N/A | N/A | N/A |
| 7 | N/A | N/A | N/A | N/A | N/A |
| 8 | N/A | N/A | N/A | N/A | N/A |
| 9 | N/A | N/A | N/A | N/A | N/A |
| 10 | N/A | N/A | N/A | N/A | N/A |
| 11 | N/A | N/A | N/A | N/A | N/A |
| 12 | N/A | N/A | N/A | N/A | N/A |
| 13 | N/A | N/A | N/A | N/A | N/A |
| 14 | N/A | N/A | N/A | N/A | N/A |
| 15 | N/A | N/A | N/A | N/A | N/A |
| 16 | N/A | N/A | N/A | N/A | N/A |
| 17 | N/A | N/A | N/A | N/A | N/A |
| 18 | N/A | N/A | N/A | N/A | N/A |
| 19 | N/A | N/A | N/A | N/A | N/A |
| 20 | N/A | N/A | N/A | N/A | N/A |
| 21 | N/A | N/A | N/A | N/A | N/A |
| 22 | N/A | N/A | N/A | N/A | N/A |
| 23 | N/A | N/A | N/A | N/A | N/A |

* Contact SMO and attach record of resolution

| | | | |
|---|---|---|---|
| Reviewed By | | Logbook No. | N/A |
| Date | 11/15/24 | Logbook Page No. | N/A |

FORM DC-1

SAMPLE LOG-IN SHEET

| | | |
|---|---|---|
| Lab Name : Alliance Technical Group, LLC | | Page 4 of 9 |
| Received By (Print Name) Gorge Ferguson | | Log-in Date 11/15/2024 |
| Received By (Signature) | | |
| Case Number 51878 | SDG No. E29Z5 | MA No. N/A |

| Remarks: | |
|---|---|
| 1. Custody Seal (s) | Present, Intact |
| 2. Custody Seal Nos. | 244529-30 |
| 3. Traffic Reports/Chain Of Custody Records | Present |
| 4. Airbill | Present |
| 5. Airbill No. and Shipping Container ID No. | 779967034587<br>4 |
| 6. Shipping Container Temperature Indicator Bottle | Present |
| 7. Shipping Container Temperature | 2.1 Degree C |
| 8. Sample Condition | Intact |
| 9. Sample Tags Sample Tag Numbers | Absent<br>Listed on Traffic Report |
| 10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ? | Yes |
| 11. Date Received at Lab | 11/15/2024 |
| 12.Time Received | 09:20 |

| | EPA Sample # | Aqueous/ Water Sample pH | Corresponding | | Remarks: Condition of Sample Shipment, etc. |
|---|---|---|---|---|---|
| | | | Sample Tag # | Assigned Lab # | |
| 1 | E2A23 | 1.6 | 1704 | P4877-08 | Intact |
| 2 | N/A | N/A | N/A | N/A | N/A |
| 3 | N/A | N/A | N/A | N/A | N/A |
| 4 | N/A | N/A | N/A | N/A | N/A |
| 5 | N/A | N/A | N/A | N/A | N/A |
| 6 | N/A | N/A | N/A | N/A | N/A |
| 7 | N/A | N/A | N/A | N/A | N/A |
| 8 | N/A | N/A | N/A | N/A | N/A |
| 9 | N/A | N/A | N/A | N/A | N/A |
| 10 | N/A | N/A | N/A | N/A | N/A |
| 11 | N/A | N/A | N/A | N/A | N/A |
| 12 | N/A | N/A | N/A | N/A | N/A |
| 13 | N/A | N/A | N/A | N/A | N/A |
| 14 | N/A | N/A | N/A | N/A | N/A |
| 15 | N/A | N/A | N/A | N/A | N/A |
| 16 | N/A | N/A | N/A | N/A | N/A |
| 17 | N/A | N/A | N/A | N/A | N/A |
| 18 | N/A | N/A | N/A | N/A | N/A |
| 19 | N/A | N/A | N/A | N/A | N/A |
| 20 | N/A | N/A | N/A | N/A | N/A |
| 21 | N/A | N/A | N/A | N/A | N/A |
| 22 | N/A | N/A | N/A | N/A | N/A |
| 23 | N/A | N/A | N/A | N/A | N/A |

* Contact SMO and attach record of resolution

| | |
|---|---|
| Reviewed By | Logbook No. N/A |
| Date 11/15/24 | Logbook Page No. N/A |

FORM DC-1

SAMPLE LOG-IN SHEET

| | | |
|---|---|---|
| Lab Name : Alliance Technical Group, LLC | | Page 5 of 8 |
| Received By (Print Name) Cassanova Reia | | Log-in Date 11/16/2024 |
| Received By (Signature) | | |
| Case Number 51878 | SDG No. E29Z5 | MA No. N/A |

| Remarks: | |
|---|---|
| 1. Custody Seal (s) | Present, Intact |
| 2. Custody Seal Nos. | 244509-10 |
| 3. Traffic Reports/Chain Of Custody Records | Present |
| 4. Airbill | Present |
| 5. Airbill No. and Shipping Container ID No. | 779982416111<br>5 |
| 6. Shipping Container Temperature Indicator Bottle | Present |
| 7. Shipping Container Temperature | 2.1 Degree C |
| 8. Sample Condition | Intact |
| 9. Sample Tags Sample Tag Numbers | Absent<br>Listed on Traffic Report |
| 10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ? | Yes |
| 11. Date Received at Lab | 11/16/2024 |
| 12.Time Received | 09:05 |

| | EPA Sample # | Aqueous/ Water Sample pH | Corresponding Sample Tag # | Corresponding Assigned Lab # | Remarks: Condition of Sample Shipment, etc. |
|---|---|---|---|---|---|
| 1 | E29Z9 | 1.9 | 1628 | P4877-09 | Intact |
| 2 | E2A01 | 1.9 | 1634 | P4877-10 | Intact |
| 3 | E2A01D | 1.9 | 1634 | P4877-11 | Intact |
| 4 | E2A01S | 1.9 | 1634 | P4877-12 | Intact |
| 5 | E2A03 | 1.9 | 1640 | P4877-13 | Intact |
| 6 | E2A05 | 1.9 | 1646 | P4877-14 | Intact |
| 7 | E2A07 | 1.9 | 1652 | P4877-15 | Intact |
| 8 | E2A09 | 1.9 | 1658 | P4877-16 | Intact |
| 9 | N/A | N/A | N/A | N/A | N/A |
| 10 | N/A | N/A | N/A | N/A | N/A |
| 11 | N/A | N/A | N/A | N/A | N/A |
| 12 | N/A | N/A | N/A | N/A | N/A |
| 13 | N/A | N/A | N/A | N/A | N/A |
| 14 | N/A | N/A | N/A | N/A | N/A |
| 15 | N/A | N/A | N/A | N/A | N/A |
| 16 | N/A | N/A | N/A | N/A | N/A |
| 17 | N/A | N/A | N/A | N/A | N/A |
| 18 | N/A | N/A | N/A | N/A | N/A |
| 19 | N/A | N/A | N/A | N/A | N/A |
| 20 | N/A | N/A | N/A | N/A | N/A |
| 21 | N/A | N/A | N/A | N/A | N/A |
| 22 | N/A | N/A | N/A | N/A | N/A |
| 23 | N/A | N/A | N/A | N/A | N/A |

* Contact SMO and attach record of resolution

| | |
|---|---|
| Reviewed By | Logbook No. N/A |
| Date 11/18/24 | Logbook Page No. N/A |

FORM DC-1

SAMPLE LOG-IN SHEET

| | | |
|---|---|---|
| Lab Name : Alliance Technical Group, LLC | | Page 6 of 8 |
| Received By (Print Name) | | Log-in Date 11/16/2024 |
| Received By (Signature) | | |
| Case Number 51878 | SDG No. E29Z5 | MA No. N/A |

| Remarks: | |
|---|---|
| 1. Custody Seal (s) | Present, Intact |
| 2. Custody Seal Nos. | 244533-34 |
| 3. Traffic Reports/Chain Of Custody Records | Present |
| 4. Airbill | Present |
| 5. Airbill No. and Shipping Container ID No. | 779982390195<br>6 |
| 6. Shipping Container Temperature Indicator Bottle | Present |
| 7. Shipping Container Temperature | 1.7 Degree C |
| 8. Sample Condition | Intact |
| 9. Sample Tags Sample Tag Numbers | Absent<br>Listed on Traffic Report |
| 10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ? | Yes |
| 11. Date Received at Lab | 11/16/2024 |
| 12.Time Received | 09:05 |

| | EPA Sample # | Aqueous/ Water Sample pH | Corresponding Sample Tag # | Corresponding Assigned Lab # | Remarks: Condition of Sample Shipment, etc. |
|---|---|---|---|---|---|
| 1 | E2A20 | 1.9 | 1689 | P4877-17 | Intact |
| 2 | N/A | N/A | N/A | N/A | N/A |
| 3 | N/A | N/A | N/A | N/A | N/A |
| 4 | N/A | N/A | N/A | N/A | N/A |
| 5 | N/A | N/A | N/A | N/A | N/A |
| 6 | N/A | N/A | N/A | N/A | N/A |
| 7 | N/A | N/A | N/A | N/A | N/A |
| 8 | N/A | N/A | N/A | N/A | N/A |
| 9 | N/A | N/A | N/A | N/A | N/A |
| 10 | N/A | N/A | N/A | N/A | N/A |
| 11 | N/A | N/A | N/A | N/A | N/A |
| 12 | N/A | N/A | N/A | N/A | N/A |
| 13 | N/A | N/A | N/A | N/A | N/A |
| 14 | N/A | N/A | N/A | N/A | N/A |
| 15 | N/A | N/A | N/A | N/A | N/A |
| 16 | N/A | N/A | N/A | N/A | N/A |
| 17 | N/A | N/A | N/A | N/A | N/A |
| 18 | N/A | N/A | N/A | N/A | N/A |
| 19 | N/A | N/A | N/A | N/A | N/A |
| 20 | N/A | N/A | N/A | N/A | N/A |
| 21 | N/A | N/A | N/A | N/A | N/A |
| 22 | N/A | N/A | N/A | N/A | N/A |
| 23 | N/A | N/A | N/A | N/A | N/A |

* Contact SMO and attach record of resolution

| | | | |
|---|---|---|---|
| Reviewed By | | Logbook No. | N/A |
| Date | 11/19/24 | Logbook Page No. | N/A |

FORM DC-1

SAMPLE LOG-IN SHEET

| | | |
|---|---|---|
| Lab Name : Alliance Technical Group, LLC | | Page 7 of 8 |
| Received By (Print Name) Lagrava Rosa | | Log-in Date 11/16/2024 |
| Received By (Signature) | | |
| Case Number 51878 | SDG No. E29Z5 | MA No. N/A |

| Remarks: | |
|---|---|
| 1. Custody Seal (s) | Present, Intact |
| 2. Custody Seal Nos. | 244503-04 |
| 3. Traffic Reports/Chain Of Custody Records | Present |
| 4. Airbill | Present |
| 5. Airbill No. and Shipping Container ID No. | 779989400140<br>7 |
| 6. Shipping Container Temperature Indicator Bottle | Present |
| 7. Shipping Container Temperature | 2.0 Degree C |
| 8. Sample Condition | Intact |
| 9. Sample Tags Sample Tag Numbers | Absent<br>Listed on Traffic Report |
| 10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ? | Yes |
| 11. Date Received at Lab | 11/16/2024 |
| 12.Time Received | 09:05 |

| | EPA Sample # | Aqueous/ Water Sample pH | Corresponding Sample Tag # | Corresponding Assigned Lab # | Remarks: Condition of Sample Shipment, etc. |
|---|---|---|---|---|---|
| 1 | E2A24 | 1.9 | 1709 | P4877-18 | Intact |
| 2 | N/A | N/A | N/A | N/A | N/A |
| 3 | N/A | N/A | N/A | N/A | N/A |
| 4 | N/A | N/A | N/A | N/A | N/A |
| 5 | N/A | N/A | N/A | N/A | N/A |
| 6 | N/A | N/A | N/A | N/A | N/A |
| 7 | N/A | N/A | N/A | N/A | N/A |
| 8 | N/A | N/A | N/A | N/A | N/A |
| 9 | N/A | N/A | N/A | N/A | N/A |
| 10 | N/A | N/A | N/A | N/A | N/A |
| 11 | N/A | N/A | N/A | N/A | N/A |
| 12 | N/A | N/A | N/A | N/A | N/A |
| 13 | N/A | N/A | N/A | N/A | N/A |
| 14 | N/A | N/A | N/A | N/A | N/A |
| 15 | N/A | N/A | N/A | N/A | N/A |
| 16 | N/A | N/A | N/A | N/A | N/A |
| 17 | N/A | N/A | N/A | N/A | N/A |
| 18 | N/A | N/A | N/A | N/A | N/A |
| 19 | N/A | N/A | N/A | N/A | N/A |
| 20 | N/A | N/A | N/A | N/A | N/A |
| 21 | N/A | N/A | N/A | N/A | N/A |
| 22 | N/A | N/A | N/A | N/A | N/A |
| 23 | N/A | N/A | N/A | N/A | N/A |

* Contact SMO and attach record of resolution

| | |
|---|---|
| Reviewed By | Logbook No. N/A |
| Date 11/18/24 | Logbook Page No. N/A |

FORM DC-1

SAMPLE LOG-IN SHEET

| | | |
|---|---|---|
| Lab Name : Alliance Technical Group, LLC | | Page 8 of 9 |
| Received By (Print Name) Esperanza Leiva | | Log-in Date 11/16/2024 |
| Received By (Signature) | | |
| Case Number 51878 | SDG No. E29Z5 | MA No. N/A |

| Remarks: | |
|---|---|
| 1. Custody Seal (s) | Present, Intact |
| 2. Custody Seal Nos. | 244507-08 |
| 3. Traffic Reports/Chain Of Custody Records | Present |
| 4. Airbill | Present |
| 5. Airbill No. and Shipping Container ID No. | 779989407501<br>8 |
| 6. Shipping Container Temperature Indicator Bottle | Present |
| 7. Shipping Container Temperature | 2.1 Degree C |
| 8. Sample Condition | Intact |
| 9. Sample Tags Sample Tag Numbers | Absent<br>Listed on Traffic Report |
| 10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ? | Yes |
| 11. Date Received at Lab | 11/16/2024 |
| 12.Time Received | 09:05 |

| | EPA Sample # | Aqueous/ Water Sample pH | Corresponding Sample Tag # | Corresponding Assigned Lab # | Remarks: Condition of Sample Shipment, etc. |
|---|---|---|---|---|---|
| 1 | E29S9 | 1.9 | 1716 | P4877-19 | Intact |
| 2 | N/A | N/A | N/A | N/A | N/A |
| 3 | N/A | N/A | N/A | N/A | N/A |
| 4 | N/A | N/A | N/A | N/A | N/A |
| 5 | N/A | N/A | N/A | N/A | N/A |
| 6 | N/A | N/A | N/A | N/A | N/A |
| 7 | N/A | N/A | N/A | N/A | N/A |
| 8 | N/A | N/A | N/A | N/A | N/A |
| 9 | N/A | N/A | N/A | N/A | N/A |
| 10 | N/A | N/A | N/A | N/A | N/A |
| 11 | N/A | N/A | N/A | N/A | N/A |
| 12 | N/A | N/A | N/A | N/A | N/A |
| 13 | N/A | N/A | N/A | N/A | N/A |
| 14 | N/A | N/A | N/A | N/A | N/A |
| 15 | N/A | N/A | N/A | N/A | N/A |
| 16 | N/A | N/A | N/A | N/A | N/A |
| 17 | N/A | N/A | N/A | N/A | N/A |
| 18 | N/A | N/A | N/A | N/A | N/A |
| 19 | N/A | N/A | N/A | N/A | N/A |
| 20 | N/A | N/A | N/A | N/A | N/A |
| 21 | N/A | N/A | N/A | N/A | N/A |
| 22 | N/A | N/A | N/A | N/A | N/A |
| 23 | N/A | N/A | N/A | N/A | N/A |

* Contact SMO and attach record of resolution

| | | | |
|---|---|---|---|
| Reviewed By | | Logbook No. | N/A |
| Date | 11/18/24 | Logbook Page No. | N/A |

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

| | | | |
|---|---|---|---|
| LAB NAME | **Alliance Technical Group, LLC** | | |
| LAB CODE | **ACE** | | |
| CONTRACT NO. | **68HERH20D0011** | | |
| CASE NO. | **51878** | SDG NO. | **E29Z5** |
| MA NO. | | SOW NO. | **SFAM01.1** |

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

| | PAGE NOs: FROM | PAGE NOs: TO | CHECK LAB | CHECK REGION |
|---|---|---|---|---|
| 1. SDG Cover Page | 1 | 1 | ✓ | |
| 2. Traffic Report/Chain of Custody Record(s) | 2 | 10 | ✓ | |
| 3. Sample Log-In Sheet (DC-1) | 11 | 18 | ✓ | |
| 4. CSF Inventory Sheet (DC-2) | 19 | 21 | ✓ | |
| 5. SDG Narrative | 22 | 25 | ✓ | |
| 6. Communication Logs | NA | NA | ✓ | |
| 7. Percent Solids Log | NA | NA | ✓ | |
| **Analysis Forms and Data (ICP-AES)** | | | | |
| 8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable | NA | NA | ✓ | |
| 9. Instrument raw data by instrument in analysis order | NA | NA | ✓ | |
| **Other Data** | | | | |
| 10. Standard and Reagent Preparation Logs | NA | NA | ✓ | |
| 11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks | NA | NA | ✓ | |
| 12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks | NA | NA | ✓ | |
| 13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions | NA | NA | ✓ | |
| 14. Extraction Logs for TCLP and SPLP | NA | NA | ✓ | |
| 15. Raw GPC Data | NA | NA | ✓ | |
| 16. Raw Florisil Data | NA | NA | ✓ | |
| **Analysis Forms and Data (ICP-MS)** | | | | |
| 17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable | 26 | 42 | ✓ | |
| 18. Instrument raw data by instrument in analysis order | 43 | 453 | ✓ | |
| **Other Data** | | | | |
| 19. Standard and Reagent Preparation Logs | 454 | 593 | ✓ | |
| 20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks | 594 | 595 | ✓ | |
| 21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks | 596 | 599 | ✓ | |
| 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions | NA | NA | ✓ | |

| | PAGE NOs: FROM | TO | CHECK LAB | REGION |
|---|---|---|---|---|
| 23. Extraction Logs for TCLP and SPLP | NA | NA | ✓ | |
| 24. Raw GPC Data | NA | NA | ✓ | |
| 25. Raw Florisil Data | NA | NA | ✓ | |
| **Analysis Forms and Data (Mercury)** | | | | |
| 26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable | 600 | 616 | ✓ | |
| 27. Instrument raw data by instrument in analysis order | 617 | 619 | ✓ | |
| **Other Data** | | | | |
| 28. Standard and Reagent Preparation Logs | 620 | 650 | ✓ | |
| 29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks | 651 | 652 | ✓ | |
| 30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks | 653 | 656 | ✓ | |
| 31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions | NA | NA | ✓ | |
| 32. Extraction Logs for TCLP and SPLP | NA | NA | ✓ | |
| 33. Raw GPC Data | NA | NA | ✓ | |
| 34. Raw Florisil Data | NA | NA | ✓ | |
| **Analysis Forms and Data (Cyanide)** | | | | |
| 35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable | NA | NA | ✓ | |
| 36. Instrument raw data by instrument in analysis order | NA | NA | ✓ | |
| **Other Data** | | | | |
| 37. Standard and Reagent Preparation Logs | NA | NA | ✓ | |
| 38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks | NA | NA | ✓ | |
| 39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks | NA | NA | ✓ | |
| 40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions | NA | NA | ✓ | |
| 41. Extraction Logs for TCLP and SPLP | NA | NA | ✓ | |
| 42. Raw GPC Data | NA | NA | ✓ | |
| 43. Raw Florisil Data | NA | NA | ✓ | |

| | PAGE NOs: FROM | TO | CHECK LAB | REGION |
|---|---|---|---|---|
| **Additional** | | | | |
| 44. EPA Shipping/Receiving Documents | | | | |
| Airbill (No. of Shipments 8 ) | 657 | 664 | ✓ | |
| Sample Tags | NA | NA | ✓ | |
| Sample Log-In Sheet (Lab) | 665 | 666 | ✓ | |
| 45. Misc. Shipping/Receiving Records (list all individual records) | | | | |
| | NA | NA | ✓ | |
| | | | | |
| | | | | |
| 46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list) | | | | |
| | 667 | 668 | ✓ | |
| | | | | |
| 47. Other Records and related Communication Logs (describe or list) | | | | |
| | NA | NA | ✓ | |
| | | | | |
| | | | | |

48. Comments:

| | | | |
|---|---|---|---|
| Completed by: (CLP Lab) | | Nimisha Pandya, Document Control Officer | |
| | (Signature) | (Print Name & Title) | (Date) |
| Audited by: (EPA) | | | |
| | (Signature) | (Print Name & Title) | (Date) |

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

**SDG NARRATIVE**

**USEPA**
**SDG # E29Z5**
**CASE # 51878**
**CONTRACT # 68HERH20D0011**
**SOW# SFAM01.1**
**LAB NAME: Alliance Technical Group, LLC**
**LAB CODE: ACE**
**LAB ORDER ID # P4877**

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

17 Water samples were delivered to the laboratory intact on 11/15/2024, 11/16/2024.

**B. Parameters**

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

**C. Cooler Temp**

Indicator Bottle**: Presence/**Absence

Cooler: 1.6$^{o}$C, 2.3$^{o}$C, 2.4$^{o}$C, 2.1$^{o}$C, 1.7$^{o}$C, 2.0$^{o}$C

**D. Analytical Techniques:**

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

**E. Calculation:**

**Calculation for ICP-MS Water Sample**:

$$\text{Concentration or Result } (\mu g/L) = C \times \frac{Vf}{Vi} \times DF$$

Where,

C = Instrument value in ppb (The average of all replicate integrations)
Vf = Final digestion volume (mL)
Vi = Initial aliquot amount (mL) (Sample amount taken in prep)
DF = Dilution Factor

**Example Calculation For Sample E29Z1 For Arsenic:**

If C = 1.51 ppb
Vf = 50 ml
Vi = 50 ml
DF = 1
Concentration or Result (µg/L) = $1.51 \times \frac{50}{50} \times 1$

= 1.51 µg/L

= 1.5 µg/L (Reported Result with Signification)

**Calculation for Hg Water Sample**:

Concentration or Result (µg/L) = C x DF

Where,
C = Instrument response in µg/L from the calibration curve.
DF = Dilution Factor

**Example Calculation For Sample E29Z7:**

If C = 0.052 ppb
DF = 1

Concentration or Result (µg/L) = 0.052 x 1

= 0.052 µg/L

= 0.052 µg/L (Reported Result with Signification)

**F. QA/ QC**

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements. Duplicate sample did meet requirements. Serial Dilution did meet requirements.

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.

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

Internal Standard Association for ICP-MS analysis.

| Target Analyte | Associated Internal Standard |
|---|---|
| Aluminum | 45Sc |
| Antimony | 159Tb |
| Arsenic | 89Y |
| Barium | 159Tb |
| Beryllium | 6Li |
| Cadmium | 159Tb |
| Calcium | 45Sc |
| Chromium | 45Sc |
| Cobalt | 45Sc |
| Copper | 45Sc |
| Iron | 45Sc |
| Lead | 209Bi |
| Magnesium | 45Sc |
| Manganese | 45Sc |
| Nickel | 45Sc |
| Potassium | 45Sc |
| Selenium | 89Y |
| Silver | 159Tb |
| Sodium | 45Sc |
| Thallium | 209Bi |
| Vanadium | 45Sc |
| Zinc | 45Sc |

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

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

Signature_____ Name: Nimisha Pandya

Date _____ Title: Document Control Officer

EPA SAMPLE NO.

E29S9

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-19

% Solids: Date Received: 11/16/2024

Analytical Method: ICP_MS

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 20 | U | 11/22/2024 | 1649 |
| 7440-36-0 | Antimony | 2.0 | U | 11/22/2024 | 1649 |
| 7440-38-2 | Arsenic | 1.0 | U | 11/22/2024 | 1649 |
| 7440-39-3 | Barium | 10 | U | 11/22/2024 | 1649 |
| 7440-41-7 | Beryllium | 1.0 | U | 11/22/2024 | 1649 |
| 7440-43-9 | Cadmium | 1.0 | U | 11/22/2024 | 1649 |
| 7440-70-2 | Calcium | 500 | U | 11/22/2024 | 1649 |
| 7440-47-3 | Chromium | 0.44 | J | 11/22/2024 | 1649 |
| 7440-48-4 | Cobalt | 1.0 | U | 11/22/2024 | 1649 |
| 7440-50-8 | Copper | 2.0 | U | 11/22/2024 | 1649 |
| 7439-89-6 | Iron | 200 | U | 11/22/2024 | 1649 |
| 7439-92-1 | Lead | 1.0 | U | 11/22/2024 | 1649 |
| 7439-95-4 | Magnesium | 500 | U | 11/22/2024 | 1649 |
| 7439-96-5 | Manganese | 1.0 | U | 11/22/2024 | 1649 |
| 7440-02-0 | Nickel | 0.57 | J | 11/22/2024 | 1649 |
| 7440-09-7 | Potassium | 500 | U | 11/22/2024 | 1649 |
| 7782-49-2 | Selenium | 5.0 | U | 11/22/2024 | 1649 |
| 7440-22-4 | Silver | 1.0 | U | 11/22/2024 | 1649 |
| 7440-23-5 | Sodium | 500 | U | 11/22/2024 | 1649 |
| 7440-28-0 | Thallium | 1.0 | U | 11/22/2024 | 1649 |
| 7440-62-2 | Vanadium | 5.0 | U | 11/22/2024 | 1649 |
| 7440-66-6 | Zinc | 5.0 | U | 11/22/2024 | 1649 |

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

Comments:

EPA SAMPLE NO.

E29Z1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-01

% Solids: Date Received: 11/15/2024

Analytical Method: ICP_MS

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 17 | J | 11/22/2024 | 1436 |
| 7440-36-0 | Antimony | 2.0 | U | 11/22/2024 | 1436 |
| 7440-38-2 | Arsenic | 1.5 | | 11/22/2024 | 1436 |
| 7440-39-3 | Barium | 91 | | 11/22/2024 | 1436 |
| 7440-41-7 | Beryllium | 1.0 | U | 11/22/2024 | 1436 |
| 7440-43-9 | Cadmium | 1.0 | U | 11/22/2024 | 1436 |
| 7440-70-2 | Calcium | 76000 | | 11/22/2024 | 1436 |
| 7440-47-3 | Chromium | 2.1 | | 11/22/2024 | 1436 |
| 7440-48-4 | Cobalt | 0.15 | J | 11/22/2024 | 1436 |
| 7440-50-8 | Copper | 0.82 | J | 11/22/2024 | 1436 |
| 7439-89-6 | Iron | 460 | | 11/22/2024 | 1436 |
| 7439-92-1 | Lead | 0.17 | J | 11/22/2024 | 1436 |
| 7439-95-4 | Magnesium | 30000 | | 11/22/2024 | 1436 |
| 7439-96-5 | Manganese | 19 | | 11/22/2024 | 1436 |
| 7440-02-0 | Nickel | 2.3 | | 11/22/2024 | 1436 |
| 7440-09-7 | Potassium | 4000 | | 11/22/2024 | 1436 |
| 7782-49-2 | Selenium | 5.0 | U | 11/22/2024 | 1436 |
| 7440-22-4 | Silver | 1.0 | U | 11/22/2024 | 1436 |
| 7440-23-5 | Sodium | 15000 | | 11/22/2024 | 1436 |
| 7440-28-0 | Thallium | 1.0 | U | 11/22/2024 | 1436 |
| 7440-62-2 | Vanadium | 0.22 | J | 11/22/2024 | 1436 |
| 7440-66-6 | Zinc | 10 | | 11/22/2024 | 1436 |

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

Comments:

EPA SAMPLE NO.

E29Z3

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-02

% Solids: Date Received: 11/15/2024

Analytical Method: ICP_MS

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 17 | J | 11/22/2024 | 1439 |
| 7440-36-0 | Antimony | 2.0 | U | 11/22/2024 | 1439 |
| 7440-38-2 | Arsenic | 1.5 | | 11/22/2024 | 1439 |
| 7440-39-3 | Barium | 94 | | 11/22/2024 | 1439 |
| 7440-41-7 | Beryllium | 1.0 | U | 11/22/2024 | 1439 |
| 7440-43-9 | Cadmium | 1.0 | U | 11/22/2024 | 1439 |
| 7440-70-2 | Calcium | 77000 | | 11/22/2024 | 1439 |
| 7440-47-3 | Chromium | 2.0 | U | 11/22/2024 | 1439 |
| 7440-48-4 | Cobalt | 0.11 | J | 11/22/2024 | 1439 |
| 7440-50-8 | Copper | 0.68 | J | 11/22/2024 | 1439 |
| 7439-89-6 | Iron | 460 | | 11/22/2024 | 1439 |
| 7439-92-1 | Lead | 1.0 | U | 11/22/2024 | 1439 |
| 7439-95-4 | Magnesium | 30000 | | 11/22/2024 | 1439 |
| 7439-96-5 | Manganese | 7.8 | | 11/22/2024 | 1439 |
| 7440-02-0 | Nickel | 0.93 | J | 11/22/2024 | 1439 |
| 7440-09-7 | Potassium | 4000 | | 11/22/2024 | 1439 |
| 7782-49-2 | Selenium | 5.0 | U | 11/22/2024 | 1439 |
| 7440-22-4 | Silver | 1.0 | U | 11/22/2024 | 1439 |
| 7440-23-5 | Sodium | 15000 | | 11/22/2024 | 1439 |
| 7440-28-0 | Thallium | 1.0 | U | 11/22/2024 | 1439 |
| 7440-62-2 | Vanadium | 0.21 | J | 11/22/2024 | 1439 |
| 7440-66-6 | Zinc | 5.0 | U | 11/22/2024 | 1439 |

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

Comments:

EPA SAMPLE NO.

E29Z5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-03

% Solids: Date Received: 11/15/2024

Analytical Method: ICP_MS

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 25 | | 11/22/2024 | 1442 |
| 7440-36-0 | Antimony | 2.0 | U | 11/22/2024 | 1442 |
| 7440-38-2 | Arsenic | 1.5 | | 11/22/2024 | 1442 |
| 7440-39-3 | Barium | 93 | | 11/22/2024 | 1442 |
| 7440-41-7 | Beryllium | 1.0 | U | 11/22/2024 | 1442 |
| 7440-43-9 | Cadmium | 1.0 | U | 11/22/2024 | 1442 |
| 7440-70-2 | Calcium | 77000 | | 11/22/2024 | 1442 |
| 7440-47-3 | Chromium | 1.7 | J | 11/22/2024 | 1442 |
| 7440-48-4 | Cobalt | 0.14 | J | 11/22/2024 | 1442 |
| 7440-50-8 | Copper | 0.76 | J | 11/22/2024 | 1442 |
| 7439-89-6 | Iron | 470 | | 11/22/2024 | 1442 |
| 7439-92-1 | Lead | 0.24 | J | 11/22/2024 | 1442 |
| 7439-95-4 | Magnesium | 29000 | | 11/22/2024 | 1442 |
| 7439-96-5 | Manganese | 10 | | 11/22/2024 | 1442 |
| 7440-02-0 | Nickel | 2.4 | | 11/22/2024 | 1442 |
| 7440-09-7 | Potassium | 4000 | | 11/22/2024 | 1442 |
| 7782-49-2 | Selenium | 5.0 | U | 11/22/2024 | 1442 |
| 7440-22-4 | Silver | 1.0 | U | 11/22/2024 | 1442 |
| 7440-23-5 | Sodium | 14000 | | 11/22/2024 | 1442 |
| 7440-28-0 | Thallium | 1.0 | U | 11/22/2024 | 1442 |
| 7440-62-2 | Vanadium | 0.23 | J | 11/22/2024 | 1442 |
| 7440-66-6 | Zinc | 5.0 | U | 11/22/2024 | 1442 |

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

Comments:

EPA SAMPLE NO.

E29Z7

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-04

% Solids: Date Received: 11/15/2024

Analytical Method: ICP_MS

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 9.7 | J | 11/22/2024 | 1445 |
| 7440-36-0 | Antimony | 2.0 | U | 11/22/2024 | 1445 |
| 7440-38-2 | Arsenic | 1.5 | | 11/22/2024 | 1445 |
| 7440-39-3 | Barium | 94 | | 11/22/2024 | 1445 |
| 7440-41-7 | Beryllium | 1.0 | U | 11/22/2024 | 1445 |
| 7440-43-9 | Cadmium | 1.0 | U | 11/22/2024 | 1445 |
| 7440-70-2 | Calcium | 78000 | | 11/22/2024 | 1445 |
| 7440-47-3 | Chromium | 2.0 | U | 11/22/2024 | 1445 |
| 7440-48-4 | Cobalt | 0.11 | J | 11/22/2024 | 1445 |
| 7440-50-8 | Copper | 0.88 | J | 11/22/2024 | 1445 |
| 7439-89-6 | Iron | 440 | | 11/22/2024 | 1445 |
| 7439-92-1 | Lead | 1.0 | U | 11/22/2024 | 1445 |
| 7439-95-4 | Magnesium | 30000 | | 11/22/2024 | 1445 |
| 7439-96-5 | Manganese | 5.7 | | 11/22/2024 | 1445 |
| 7440-02-0 | Nickel | 0.84 | J | 11/22/2024 | 1445 |
| 7440-09-7 | Potassium | 3800 | | 11/22/2024 | 1445 |
| 7782-49-2 | Selenium | 5.0 | U | 11/22/2024 | 1445 |
| 7440-22-4 | Silver | 1.0 | U | 11/22/2024 | 1445 |
| 7440-23-5 | Sodium | 15000 | | 11/22/2024 | 1445 |
| 7440-28-0 | Thallium | 1.0 | U | 11/22/2024 | 1445 |
| 7440-62-2 | Vanadium | 0.19 | J | 11/22/2024 | 1445 |
| 7440-66-6 | Zinc | 5.0 | U | 11/22/2024 | 1445 |

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

Comments:

EPA SAMPLE NO.

E29Z9

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-09

% Solids: Date Received: 11/16/2024

Analytical Method: ICP_MS

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 15 | J | 11/22/2024 | 1501 |
| 7440-36-0 | Antimony | 2.0 | U | 11/22/2024 | 1501 |
| 7440-38-2 | Arsenic | 1.5 | | 11/22/2024 | 1501 |
| 7440-39-3 | Barium | 97 | | 11/22/2024 | 1501 |
| 7440-41-7 | Beryllium | 1.0 | U | 11/22/2024 | 1501 |
| 7440-43-9 | Cadmium | 1.0 | U | 11/22/2024 | 1501 |
| 7440-70-2 | Calcium | 80000 | | 11/22/2024 | 1501 |
| 7440-47-3 | Chromium | 2.0 | U | 11/22/2024 | 1501 |
| 7440-48-4 | Cobalt | 0.11 | J | 11/22/2024 | 1501 |
| 7440-50-8 | Copper | 0.68 | J | 11/22/2024 | 1501 |
| 7439-89-6 | Iron | 460 | | 11/22/2024 | 1501 |
| 7439-92-1 | Lead | 2.4 | | 11/22/2024 | 1501 |
| 7439-95-4 | Magnesium | 30000 | | 11/22/2024 | 1501 |
| 7439-96-5 | Manganese | 5.3 | | 11/22/2024 | 1501 |
| 7440-02-0 | Nickel | 0.89 | J | 11/22/2024 | 1501 |
| 7440-09-7 | Potassium | 3900 | | 11/22/2024 | 1501 |
| 7782-49-2 | Selenium | 5.0 | U | 11/22/2024 | 1501 |
| 7440-22-4 | Silver | 1.0 | U | 11/22/2024 | 1501 |
| 7440-23-5 | Sodium | 15000 | | 11/22/2024 | 1501 |
| 7440-28-0 | Thallium | 1.0 | U | 11/22/2024 | 1501 |
| 7440-62-2 | Vanadium | 0.22 | J | 11/22/2024 | 1501 |
| 7440-66-6 | Zinc | 5.0 | U | 11/22/2024 | 1501 |

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

Comments:

EPA SAMPLE NO.

E2A01

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-10

% Solids: Date Received: 11/16/2024

Analytical Method: ICP_MS

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 11 | J | 11/22/2024 | 1505 |
| 7440-36-0 | Antimony | 2.0 | U | 11/22/2024 | 1505 |
| 7440-38-2 | Arsenic | 1.4 | | 11/22/2024 | 1505 |
| 7440-39-3 | Barium | 94 | | 11/22/2024 | 1505 |
| 7440-41-7 | Beryllium | 1.0 | U | 11/22/2024 | 1505 |
| 7440-43-9 | Cadmium | 1.0 | U | 11/22/2024 | 1505 |
| 7440-70-2 | Calcium | 75000 | | 11/22/2024 | 1505 |
| 7440-47-3 | Chromium | 2.0 | U | 11/22/2024 | 1505 |
| 7440-48-4 | Cobalt | 0.11 | J | 11/22/2024 | 1505 |
| 7440-50-8 | Copper | 0.73 | J | 11/22/2024 | 1505 |
| 7439-89-6 | Iron | 440 | | 11/22/2024 | 1505 |
| 7439-92-1 | Lead | 1.0 | U | 11/22/2024 | 1505 |
| 7439-95-4 | Magnesium | 29000 | | 11/22/2024 | 1505 |
| 7439-96-5 | Manganese | 6.0 | | 11/22/2024 | 1505 |
| 7440-02-0 | Nickel | 0.84 | J | 11/22/2024 | 1505 |
| 7440-09-7 | Potassium | 3900 | | 11/22/2024 | 1505 |
| 7782-49-2 | Selenium | 5.0 | U | 11/22/2024 | 1505 |
| 7440-22-4 | Silver | 1.0 | U | 11/22/2024 | 1505 |
| 7440-23-5 | Sodium | 15000 | | 11/22/2024 | 1505 |
| 7440-28-0 | Thallium | 1.0 | U | 11/22/2024 | 1505 |
| 7440-62-2 | Vanadium | 0.21 | J | 11/22/2024 | 1505 |
| 7440-66-6 | Zinc | 5.0 | U | 11/22/2024 | 1505 |

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

Comments:

EPA SAMPLE NO.

E2A03

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-13

% Solids: Date Received: 11/16/2024

Analytical Method: ICP_MS

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 14 | J | 11/22/2024 | 1527 |
| 7440-36-0 | Antimony | 2.0 | U | 11/22/2024 | 1527 |
| 7440-38-2 | Arsenic | 1.5 | | 11/22/2024 | 1527 |
| 7440-39-3 | Barium | 92 | | 11/22/2024 | 1527 |
| 7440-41-7 | Beryllium | 1.0 | U | 11/22/2024 | 1527 |
| 7440-43-9 | Cadmium | 1.0 | U | 11/22/2024 | 1527 |
| 7440-70-2 | Calcium | 75000 | | 11/22/2024 | 1527 |
| 7440-47-3 | Chromium | 1.1 | J | 11/22/2024 | 1527 |
| 7440-48-4 | Cobalt | 0.12 | J | 11/22/2024 | 1527 |
| 7440-50-8 | Copper | 0.68 | J | 11/22/2024 | 1527 |
| 7439-89-6 | Iron | 480 | | 11/22/2024 | 1527 |
| 7439-92-1 | Lead | 1.0 | U | 11/22/2024 | 1527 |
| 7439-95-4 | Magnesium | 31000 | | 11/22/2024 | 1527 |
| 7439-96-5 | Manganese | 5.4 | | 11/22/2024 | 1527 |
| 7440-02-0 | Nickel | 1.1 | | 11/22/2024 | 1527 |
| 7440-09-7 | Potassium | 4100 | | 11/22/2024 | 1527 |
| 7782-49-2 | Selenium | 5.0 | U | 11/22/2024 | 1527 |
| 7440-22-4 | Silver | 1.0 | U | 11/22/2024 | 1527 |
| 7440-23-5 | Sodium | 16000 | | 11/22/2024 | 1527 |
| 7440-28-0 | Thallium | 1.0 | U | 11/22/2024 | 1527 |
| 7440-62-2 | Vanadium | 0.23 | J | 11/22/2024 | 1527 |
| 7440-66-6 | Zinc | 5.0 | U | 11/22/2024 | 1527 |

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

Comments:

EPA SAMPLE NO.

E2A05

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-14

% Solids: Date Received: 11/16/2024

Analytical Method: ICP_MS

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 13 | J | 11/22/2024 | 1531 |
| 7440-36-0 | Antimony | 2.0 | U | 11/22/2024 | 1531 |
| 7440-38-2 | Arsenic | 1.5 | | 11/22/2024 | 1531 |
| 7440-39-3 | Barium | 98 | | 11/22/2024 | 1531 |
| 7440-41-7 | Beryllium | 1.0 | U | 11/22/2024 | 1531 |
| 7440-43-9 | Cadmium | 1.0 | U | 11/22/2024 | 1531 |
| 7440-70-2 | Calcium | 79000 | | 11/22/2024 | 1531 |
| 7440-47-3 | Chromium | 2.0 | U | 11/22/2024 | 1531 |
| 7440-48-4 | Cobalt | 0.11 | J | 11/22/2024 | 1531 |
| 7440-50-8 | Copper | 0.68 | J | 11/22/2024 | 1531 |
| 7439-89-6 | Iron | 460 | | 11/22/2024 | 1531 |
| 7439-92-1 | Lead | 1.0 | U | 11/22/2024 | 1531 |
| 7439-95-4 | Magnesium | 30000 | | 11/22/2024 | 1531 |
| 7439-96-5 | Manganese | 4.2 | | 11/22/2024 | 1531 |
| 7440-02-0 | Nickel | 0.90 | J | 11/22/2024 | 1531 |
| 7440-09-7 | Potassium | 4100 | | 11/22/2024 | 1531 |
| 7782-49-2 | Selenium | 5.0 | U | 11/22/2024 | 1531 |
| 7440-22-4 | Silver | 1.0 | U | 11/22/2024 | 1531 |
| 7440-23-5 | Sodium | 16000 | | 11/22/2024 | 1531 |
| 7440-28-0 | Thallium | 1.0 | U | 11/22/2024 | 1531 |
| 7440-62-2 | Vanadium | 0.23 | J | 11/22/2024 | 1531 |
| 7440-66-6 | Zinc | 5.0 | U | 11/22/2024 | 1531 |

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

Comments:

EPA SAMPLE NO.

E2A07

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-15

% Solids: Date Received: 11/16/2024

Analytical Method: ICP_MS

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 14 | J | 11/22/2024 | 1534 |
| 7440-36-0 | Antimony | 2.0 | U | 11/22/2024 | 1534 |
| 7440-38-2 | Arsenic | 1.5 | | 11/22/2024 | 1534 |
| 7440-39-3 | Barium | 99 | | 11/22/2024 | 1534 |
| 7440-41-7 | Beryllium | 1.0 | U | 11/22/2024 | 1534 |
| 7440-43-9 | Cadmium | 1.0 | U | 11/22/2024 | 1534 |
| 7440-70-2 | Calcium | 79000 | | 11/22/2024 | 1534 |
| 7440-47-3 | Chromium | 0.74 | J | 11/22/2024 | 1534 |
| 7440-48-4 | Cobalt | 0.12 | J | 11/22/2024 | 1534 |
| 7440-50-8 | Copper | 0.68 | J | 11/22/2024 | 1534 |
| 7439-89-6 | Iron | 460 | | 11/22/2024 | 1534 |
| 7439-92-1 | Lead | 0.36 | J | 11/22/2024 | 1534 |
| 7439-95-4 | Magnesium | 30000 | | 11/22/2024 | 1534 |
| 7439-96-5 | Manganese | 8.6 | | 11/22/2024 | 1534 |
| 7440-02-0 | Nickel | 1.0 | | 11/22/2024 | 1534 |
| 7440-09-7 | Potassium | 4100 | | 11/22/2024 | 1534 |
| 7782-49-2 | Selenium | 5.0 | U | 11/22/2024 | 1534 |
| 7440-22-4 | Silver | 1.0 | U | 11/22/2024 | 1534 |
| 7440-23-5 | Sodium | 16000 | | 11/22/2024 | 1534 |
| 7440-28-0 | Thallium | 1.0 | U | 11/22/2024 | 1534 |
| 7440-62-2 | Vanadium | 0.22 | J | 11/22/2024 | 1534 |
| 7440-66-6 | Zinc | 5.0 | U | 11/22/2024 | 1534 |

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

Comments:

EPA SAMPLE NO.

E2A09

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-16

% Solids: Date Received: 11/16/2024

Analytical Method: ICP_MS

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 16 | J | 11/22/2024 | 1537 |
| 7440-36-0 | Antimony | 2.0 | U | 11/22/2024 | 1537 |
| 7440-38-2 | Arsenic | 1.6 | | 11/22/2024 | 1537 |
| 7440-39-3 | Barium | 94 | | 11/22/2024 | 1537 |
| 7440-41-7 | Beryllium | 1.0 | U | 11/22/2024 | 1537 |
| 7440-43-9 | Cadmium | 1.0 | U | 11/22/2024 | 1537 |
| 7440-70-2 | Calcium | 76000 | | 11/22/2024 | 1537 |
| 7440-47-3 | Chromium | 2.0 | U | 11/22/2024 | 1537 |
| 7440-48-4 | Cobalt | 0.12 | J | 11/22/2024 | 1537 |
| 7440-50-8 | Copper | 0.66 | J | 11/22/2024 | 1537 |
| 7439-89-6 | Iron | 450 | | 11/22/2024 | 1537 |
| 7439-92-1 | Lead | 1.0 | U | 11/22/2024 | 1537 |
| 7439-95-4 | Magnesium | 30000 | | 11/22/2024 | 1537 |
| 7439-96-5 | Manganese | 6.0 | | 11/22/2024 | 1537 |
| 7440-02-0 | Nickel | 0.89 | J | 11/22/2024 | 1537 |
| 7440-09-7 | Potassium | 4000 | | 11/22/2024 | 1537 |
| 7782-49-2 | Selenium | 5.0 | U | 11/22/2024 | 1537 |
| 7440-22-4 | Silver | 1.0 | U | 11/22/2024 | 1537 |
| 7440-23-5 | Sodium | 16000 | | 11/22/2024 | 1537 |
| 7440-28-0 | Thallium | 1.0 | U | 11/22/2024 | 1537 |
| 7440-62-2 | Vanadium | 0.22 | J | 11/22/2024 | 1537 |
| 7440-66-6 | Zinc | 5.0 | U | 11/22/2024 | 1537 |

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

Comments:

EPA SAMPLE NO.

E2A13

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-05

% Solids: Date Received: 11/15/2024

Analytical Method: ICP_MS

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 16 | J | 11/22/2024 | 1449 |
| 7440-36-0 | Antimony | 2.0 | U | 11/22/2024 | 1449 |
| 7440-38-2 | Arsenic | 1.4 | | 11/22/2024 | 1449 |
| 7440-39-3 | Barium | 91 | | 11/22/2024 | 1449 |
| 7440-41-7 | Beryllium | 1.0 | U | 11/22/2024 | 1449 |
| 7440-43-9 | Cadmium | 1.0 | U | 11/22/2024 | 1449 |
| 7440-70-2 | Calcium | 76000 | | 11/22/2024 | 1449 |
| 7440-47-3 | Chromium | 0.92 | J | 11/22/2024 | 1449 |
| 7440-48-4 | Cobalt | 0.13 | J | 11/22/2024 | 1449 |
| 7440-50-8 | Copper | 0.75 | J | 11/22/2024 | 1449 |
| 7439-89-6 | Iron | 450 | | 11/22/2024 | 1449 |
| 7439-92-1 | Lead | 0.18 | J | 11/22/2024 | 1449 |
| 7439-95-4 | Magnesium | 30000 | | 11/22/2024 | 1449 |
| 7439-96-5 | Manganese | 9.0 | | 11/22/2024 | 1449 |
| 7440-02-0 | Nickel | 1.9 | | 11/22/2024 | 1449 |
| 7440-09-7 | Potassium | 4000 | | 11/22/2024 | 1449 |
| 7782-49-2 | Selenium | 5.0 | U | 11/22/2024 | 1449 |
| 7440-22-4 | Silver | 1.0 | U | 11/22/2024 | 1449 |
| 7440-23-5 | Sodium | 15000 | | 11/22/2024 | 1449 |
| 7440-28-0 | Thallium | 1.0 | U | 11/22/2024 | 1449 |
| 7440-62-2 | Vanadium | 0.21 | J | 11/22/2024 | 1449 |
| 7440-66-6 | Zinc | 5.0 | U | 11/22/2024 | 1449 |

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

Comments:

EPA SAMPLE NO.

E2A19

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-06

% Solids: Date Received: 11/15/2024

Analytical Method: ICP_MS

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 17 | J | 11/22/2024 | 1452 |
| 7440-36-0 | Antimony | 2.0 | U | 11/22/2024 | 1452 |
| 7440-38-2 | Arsenic | 1.0 | U | 11/22/2024 | 1452 |
| 7440-39-3 | Barium | 10 | U | 11/22/2024 | 1452 |
| 7440-41-7 | Beryllium | 1.0 | U | 11/22/2024 | 1452 |
| 7440-43-9 | Cadmium | 1.0 | U | 11/22/2024 | 1452 |
| 7440-70-2 | Calcium | 26 | J | 11/22/2024 | 1452 |
| 7440-47-3 | Chromium | 2.0 | U | 11/22/2024 | 1452 |
| 7440-48-4 | Cobalt | 1.0 | U | 11/22/2024 | 1452 |
| 7440-50-8 | Copper | 0.39 | J | 11/22/2024 | 1452 |
| 7439-89-6 | Iron | 200 | U | 11/22/2024 | 1452 |
| 7439-92-1 | Lead | 1.0 | U | 11/22/2024 | 1452 |
| 7439-95-4 | Magnesium | 500 | U | 11/22/2024 | 1452 |
| 7439-96-5 | Manganese | 1.0 | U | 11/22/2024 | 1452 |
| 7440-02-0 | Nickel | 1.0 | U | 11/22/2024 | 1452 |
| 7440-09-7 | Potassium | 500 | U | 11/22/2024 | 1452 |
| 7782-49-2 | Selenium | 5.0 | U | 11/22/2024 | 1452 |
| 7440-22-4 | Silver | 1.0 | U | 11/22/2024 | 1452 |
| 7440-23-5 | Sodium | 500 | U | 11/22/2024 | 1452 |
| 7440-28-0 | Thallium | 1.0 | U | 11/22/2024 | 1452 |
| 7440-62-2 | Vanadium | 5.0 | U | 11/22/2024 | 1452 |
| 7440-66-6 | Zinc | 5.0 | U | 11/22/2024 | 1452 |

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

Comments:

EPA SAMPLE NO.

E2A20

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-17

% Solids: Date Received: 11/16/2024

Analytical Method: ICP_MS

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 20 | U | 11/22/2024 | 1540 |
| 7440-36-0 | Antimony | 2.0 | U | 11/22/2024 | 1540 |
| 7440-38-2 | Arsenic | 1.0 | U | 11/22/2024 | 1540 |
| 7440-39-3 | Barium | 10 | U | 11/22/2024 | 1540 |
| 7440-41-7 | Beryllium | 1.0 | U | 11/22/2024 | 1540 |
| 7440-43-9 | Cadmium | 1.0 | U | 11/22/2024 | 1540 |
| 7440-70-2 | Calcium | 500 | U | 11/22/2024 | 1540 |
| 7440-47-3 | Chromium | 2.0 | U | 11/22/2024 | 1540 |
| 7440-48-4 | Cobalt | 1.0 | U | 11/22/2024 | 1540 |
| 7440-50-8 | Copper | 2.0 | U | 11/22/2024 | 1540 |
| 7439-89-6 | Iron | 200 | U | 11/22/2024 | 1540 |
| 7439-92-1 | Lead | 1.0 | U | 11/22/2024 | 1540 |
| 7439-95-4 | Magnesium | 500 | U | 11/22/2024 | 1540 |
| 7439-96-5 | Manganese | 1.0 | U | 11/22/2024 | 1540 |
| 7440-02-0 | Nickel | 1.0 | U | 11/22/2024 | 1540 |
| 7440-09-7 | Potassium | 500 | U | 11/22/2024 | 1540 |
| 7782-49-2 | Selenium | 5.0 | U | 11/22/2024 | 1540 |
| 7440-22-4 | Silver | 1.0 | U | 11/22/2024 | 1540 |
| 7440-23-5 | Sodium | 500 | U | 11/22/2024 | 1540 |
| 7440-28-0 | Thallium | 1.0 | U | 11/22/2024 | 1540 |
| 7440-62-2 | Vanadium | 5.0 | U | 11/22/2024 | 1540 |
| 7440-66-6 | Zinc | 5.0 | U | 11/22/2024 | 1540 |

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

Comments:

EPA SAMPLE NO.

E2A22

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-07

% Solids: Date Received: 11/15/2024

Analytical Method: ICP_MS

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 20 | U | 11/22/2024 | 1455 |
| 7440-36-0 | Antimony | 2.0 | U | 11/22/2024 | 1455 |
| 7440-38-2 | Arsenic | 1.0 | U | 11/22/2024 | 1455 |
| 7440-39-3 | Barium | 10 | U | 11/22/2024 | 1455 |
| 7440-41-7 | Beryllium | 1.0 | U | 11/22/2024 | 1455 |
| 7440-43-9 | Cadmium | 1.0 | U | 11/22/2024 | 1455 |
| 7440-70-2 | Calcium | 500 | U | 11/22/2024 | 1455 |
| 7440-47-3 | Chromium | 2.0 | U | 11/22/2024 | 1455 |
| 7440-48-4 | Cobalt | 1.0 | U | 11/22/2024 | 1455 |
| 7440-50-8 | Copper | 2.0 | U | 11/22/2024 | 1455 |
| 7439-89-6 | Iron | 200 | U | 11/22/2024 | 1455 |
| 7439-92-1 | Lead | 1.0 | U | 11/22/2024 | 1455 |
| 7439-95-4 | Magnesium | 500 | U | 11/22/2024 | 1455 |
| 7439-96-5 | Manganese | 1.0 | U | 11/22/2024 | 1455 |
| 7440-02-0 | Nickel | 1.0 | U | 11/22/2024 | 1455 |
| 7440-09-7 | Potassium | 500 | U | 11/22/2024 | 1455 |
| 7782-49-2 | Selenium | 5.0 | U | 11/22/2024 | 1455 |
| 7440-22-4 | Silver | 1.0 | U | 11/22/2024 | 1455 |
| 7440-23-5 | Sodium | 500 | U | 11/22/2024 | 1455 |
| 7440-28-0 | Thallium | 1.0 | U | 11/22/2024 | 1455 |
| 7440-62-2 | Vanadium | 5.0 | U | 11/22/2024 | 1455 |
| 7440-66-6 | Zinc | 5.0 | U | 11/22/2024 | 1455 |

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

Comments:

EPA SAMPLE NO.

E2A23

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-08

% Solids: Date Received: 11/15/2024

Analytical Method: ICP_MS

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 20 | U | 11/22/2024 | 1458 |
| 7440-36-0 | Antimony | 2.0 | U | 11/22/2024 | 1458 |
| 7440-38-2 | Arsenic | 1.0 | U | 11/22/2024 | 1458 |
| 7440-39-3 | Barium | 10 | U | 11/22/2024 | 1458 |
| 7440-41-7 | Beryllium | 1.0 | U | 11/22/2024 | 1458 |
| 7440-43-9 | Cadmium | 1.0 | U | 11/22/2024 | 1458 |
| 7440-70-2 | Calcium | 500 | U | 11/22/2024 | 1458 |
| 7440-47-3 | Chromium | 2.0 | U | 11/22/2024 | 1458 |
| 7440-48-4 | Cobalt | 1.0 | U | 11/22/2024 | 1458 |
| 7440-50-8 | Copper | 2.0 | U | 11/22/2024 | 1458 |
| 7439-89-6 | Iron | 200 | U | 11/22/2024 | 1458 |
| 7439-92-1 | Lead | 1.0 | U | 11/22/2024 | 1458 |
| 7439-95-4 | Magnesium | 500 | U | 11/22/2024 | 1458 |
| 7439-96-5 | Manganese | 1.0 | U | 11/22/2024 | 1458 |
| 7440-02-0 | Nickel | 1.0 | U | 11/22/2024 | 1458 |
| 7440-09-7 | Potassium | 500 | U | 11/22/2024 | 1458 |
| 7782-49-2 | Selenium | 5.0 | U | 11/22/2024 | 1458 |
| 7440-22-4 | Silver | 1.0 | U | 11/22/2024 | 1458 |
| 7440-23-5 | Sodium | 500 | U | 11/22/2024 | 1458 |
| 7440-28-0 | Thallium | 1.0 | U | 11/22/2024 | 1458 |
| 7440-62-2 | Vanadium | 5.0 | U | 11/22/2024 | 1458 |
| 7440-66-6 | Zinc | 5.0 | U | 11/22/2024 | 1458 |

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

Comments:

EPA SAMPLE NO.

E2A24

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-18

% Solids: Date Received: 11/16/2024

Analytical Method: ICP_MS

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 20 | U | 11/22/2024 | 1543 |
| 7440-36-0 | Antimony | 2.0 | U | 11/22/2024 | 1543 |
| 7440-38-2 | Arsenic | 1.0 | U | 11/22/2024 | 1543 |
| 7440-39-3 | Barium | 10 | U | 11/22/2024 | 1543 |
| 7440-41-7 | Beryllium | 1.0 | U | 11/22/2024 | 1543 |
| 7440-43-9 | Cadmium | 1.0 | U | 11/22/2024 | 1543 |
| 7440-70-2 | Calcium | 500 | U | 11/22/2024 | 1543 |
| 7440-47-3 | Chromium | 2.0 | U | 11/22/2024 | 1543 |
| 7440-48-4 | Cobalt | 1.0 | U | 11/22/2024 | 1543 |
| 7440-50-8 | Copper | 2.0 | U | 11/22/2024 | 1543 |
| 7439-89-6 | Iron | 200 | U | 11/22/2024 | 1543 |
| 7439-92-1 | Lead | 1.0 | U | 11/22/2024 | 1543 |
| 7439-95-4 | Magnesium | 500 | U | 11/22/2024 | 1543 |
| 7439-96-5 | Manganese | 1.0 | U | 11/22/2024 | 1543 |
| 7440-02-0 | Nickel | 1.0 | U | 11/22/2024 | 1543 |
| 7440-09-7 | Potassium | 500 | U | 11/22/2024 | 1543 |
| 7782-49-2 | Selenium | 5.0 | U | 11/22/2024 | 1543 |
| 7440-22-4 | Silver | 1.0 | U | 11/22/2024 | 1543 |
| 7440-23-5 | Sodium | 500 | U | 11/22/2024 | 1543 |
| 7440-28-0 | Thallium | 1.0 | U | 11/22/2024 | 1543 |
| 7440-62-2 | Vanadium | 5.0 | U | 11/22/2024 | 1543 |
| 7440-66-6 | Zinc | 5.0 | U | 11/22/2024 | 1543 |

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

Comments:

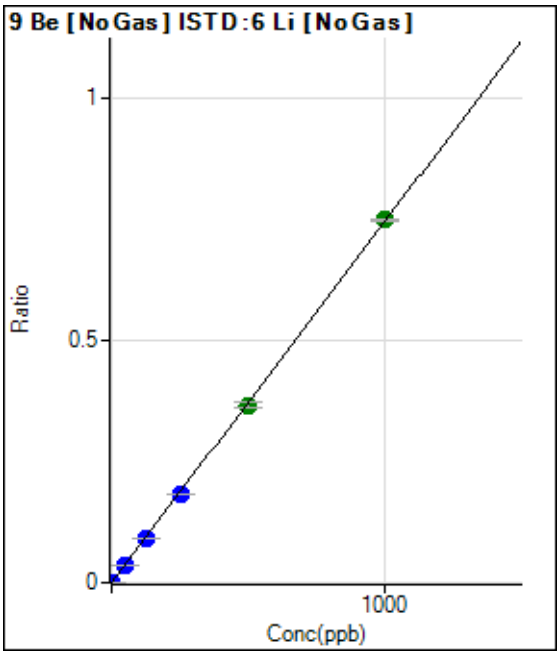
Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7



Batch Folder: D:\Agilent\ICPMH\1\DATA\P7112224 MS2.b\
Analysis File: P7112224 MS2.batch.bin
DA Date-Time: 2024-11-22 16:58:22
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time |
|---|---|---|---|
| 1 | 004CALB.d | S00 | 2024-11-22 13:25:55 |
| 2 | 006CALS.d | S02 | 2024-11-22 13:32:32 |
| 3 | 007CALS.d | S03 | 2024-11-22 13:35:48 |
| 4 | 008CALS.d | S04 | 2024-11-22 13:38:44 |
| 5 | 009CALS.d | S05 | 2024-11-22 13:41:30 |
| 6 | 010CALS.d | S06 | 2024-11-22 13:44:16 |
| 7 | 011CALS.d | S07 | 2024-11-22 13:46:59 |
| 8 | 012CALS.d | S08 | 2024-11-22 13:49:45 |

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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 122.22 | 0.0000 | P | 13.2 |
| 2 | ☐ | 1.000 | 1.029 | 2481.72 | 0.0008 | P | 4.7 |
| 3 | ☐ | 50.000 | 49.255 | 115563.04 | 0.0367 | P | 0.2 |
| 4 | ☐ | 125.000 | 124.502 | 287764.56 | 0.0927 | P | 0.8 |
| 5 | ☐ | 250.000 | 244.477 | 555198.02 | 0.1821 | P | 0.9 |
| 6 | ☐ | 500.000 | 492.443 | 1102535.80 | 0.3667 | A | 3.5 |
| 7 | ☐ | 1000.000 | 1005.259 | 2237590.27 | 0.7485 | A | 0.8 |
| 8 | ☐ | | | 381.49 | 0.0001 | P | 29.3 |

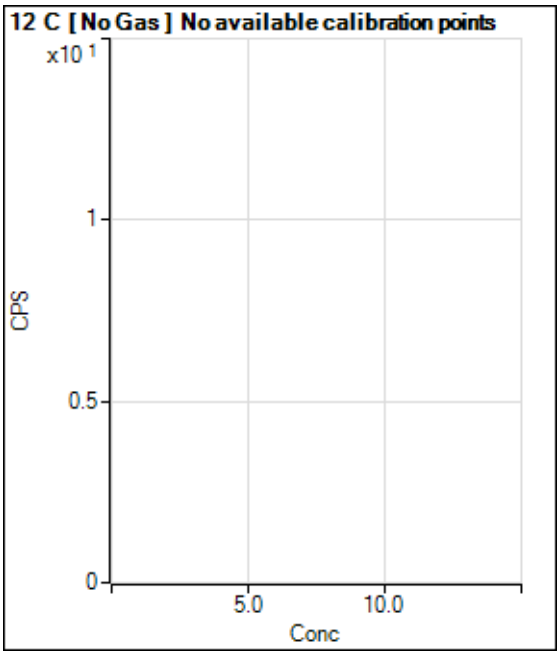
y = 7.4453E-004 * x + 4.0541E-005

R = 0.9999

DL = 0.02159

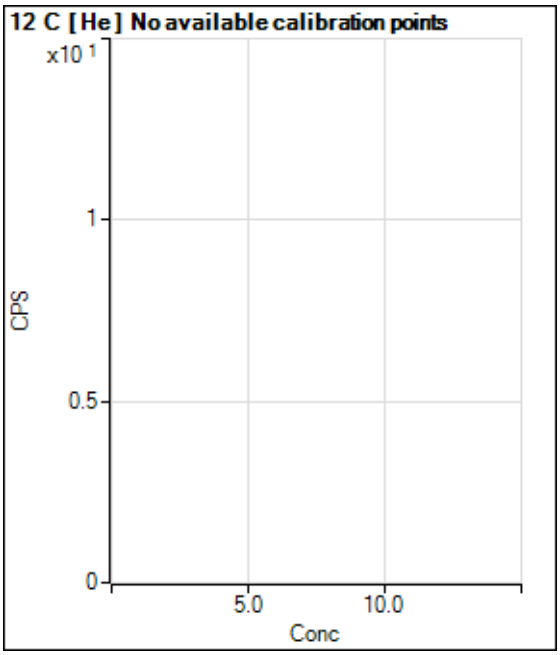
Weight: <None>

Min Conc: 0

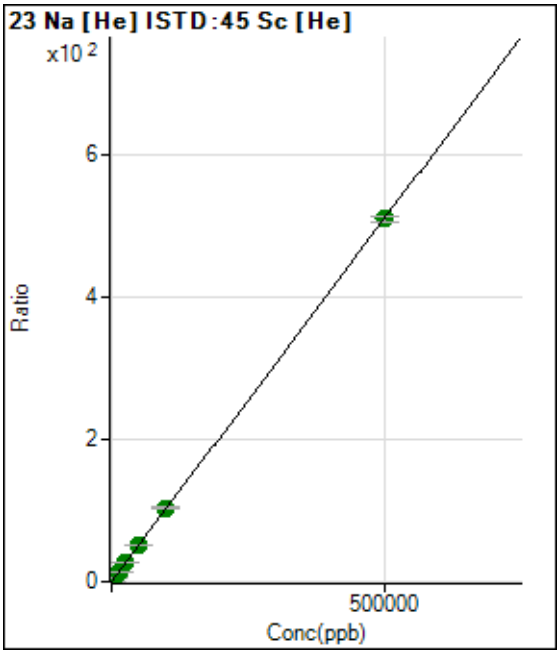



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | | | | |
| 2 | ☐ | | | | | | |
| 3 | ☐ | | | | | | |
| 4 | ☐ | | | | | | |
| 5 | ☐ | | | | | | |
| 6 | ☐ | | | | | | |
| 7 | ☐ | | | | | | |
| 8 | ☐ | | | | | | |

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| | 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 | 68331.56 | 0.0557 | P | 0.4 |
| 2 | ☐ | 500.000 | 494.753 | 692354.40 | 0.5618 | P | 0.1 |
| 3 | ☐ | 5000.000 | 5323.033 | 6564653.51 | 5.5009 | A | 2.5 |
| 4 | ☐ | 12500.000 | 13388.482 | 16066577.12 | 13.7515 | A | 0.9 |
| 5 | ☐ | 25000.000 | 25935.894 | 30626603.16 | 26.5869 | A | 0.4 |
| 6 | ☐ | 50000.000 | 50945.642 | 60418329.65 | 52.1707 | A | 1.2 |
| 7 | ☐ | 100000.00 | 101697.71 | 126856487.00 | 104.0878 | A | 0.4 |
| 8 | ☐ | 500000.00 | 499493.66 | 639795474.91 | 511.0149 | A | 1.3 |

y = 0.0010 * x + 0.0557

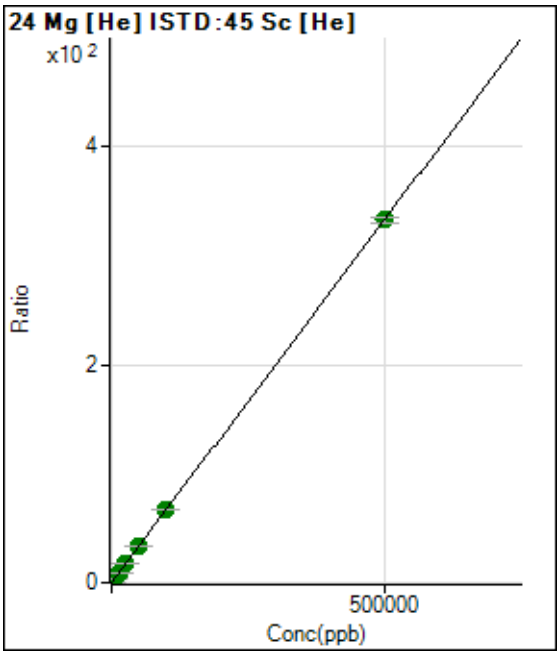
R = 1.0000

DL = 0.6348

Weight: <None>

Min Conc: 0

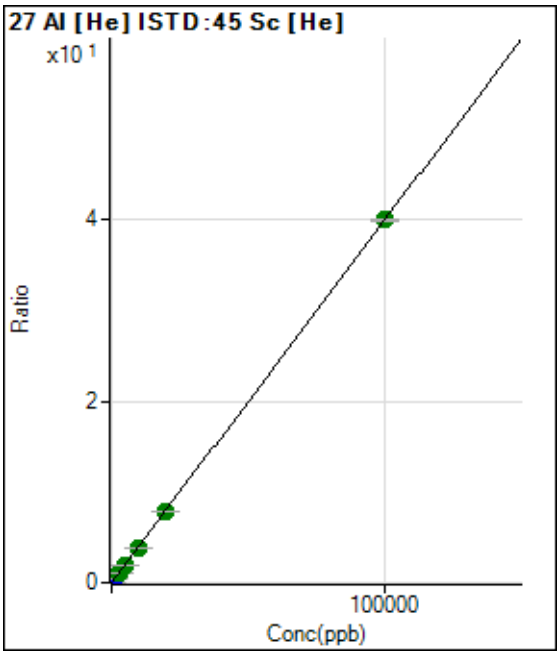
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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 4258.41 | 0.0035 | P | 1.7 |
| 2 | ☐ | 500.000 | 497.060 | 412333.84 | 0.3346 | P | 0.2 |
| 3 | ☐ | 5000.000 | 5231.485 | 4162364.18 | 3.4881 | A | 3.1 |
| 4 | ☐ | 12500.000 | 13148.427 | 10236567.76 | 8.7616 | A | 0.9 |
| 5 | ☐ | 25000.000 | 25466.588 | 19544424.15 | 16.9667 | A | 0.4 |
| 6 | ☐ | 50000.000 | 49435.958 | 38139975.26 | 32.9326 | A | 0.5 |
| 7 | ☐ | 100000.00 | 100167.06 | 81320557.12 | 66.7243 | A | 0.4 |
| 8 | ☐ | 500000.00 | 499981.13 | 416931731.57 | 333.0389 | A | 1.8 |

y = 6.6610E-004 * x + 0.0035
R = 1.0000
DL = 0.2611

Weight: <None>
Min Conc: 0

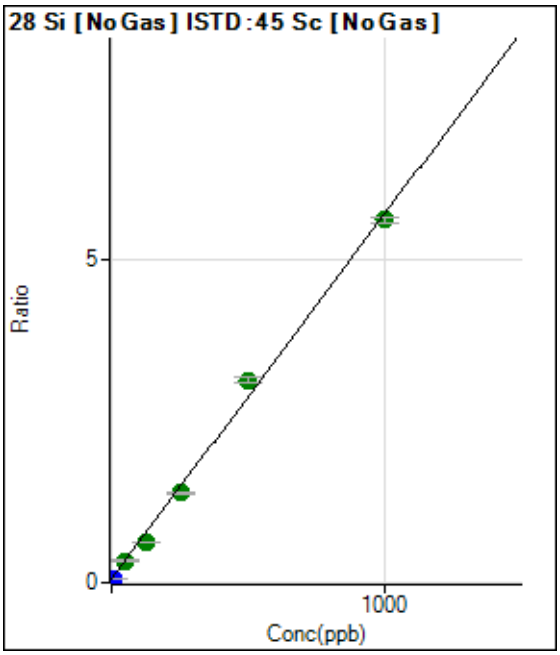



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 486.68 | 0.0004 | P | 13.0 |
| 2 | ☐ | 20.000 | 18.729 | 9707.59 | 0.0079 | P | 1.1 |
| 3 | ☐ | 1000.000 | 1036.645 | 494560.41 | 0.4144 | P | 2.1 |
| 4 | ☐ | 2500.000 | 2554.807 | 1192564.00 | 1.0207 | A | 1.5 |
| 5 | ☐ | 5000.000 | 5009.297 | 2305018.94 | 2.0010 | A | 0.5 |
| 6 | ☐ | 10000.000 | 9676.977 | 4476254.66 | 3.8652 | A | 0.9 |
| 7 | ☐ | 20000.000 | 19442.538 | 9463924.30 | 7.7653 | A | 0.6 |
| 8 | ☐ | 100000.00 | 100141.59 | 50075219.25 | 39.9946 | A | 0.2 |

y = 3.9938E-004 * x + 3.9635E-004
R = 1.0000
DL = 0.3877

Weight: <None>
Min Conc: 0

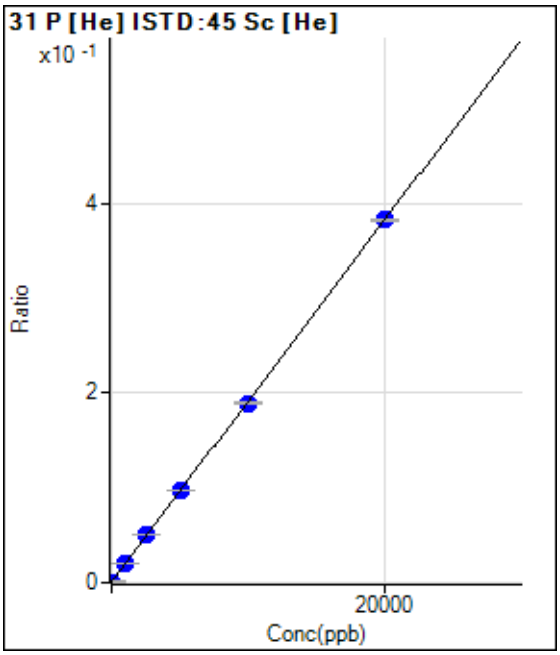
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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 830078.05 | 0.0605 | P | 0.7 |
| 2 | ☐ | 10.000 | 0.545 | 879619.47 | 0.0635 | P | 0.8 |
| 3 | ☐ | 50.000 | 49.943 | 4722456.59 | 0.3430 | A | 1.7 |
| 4 | ☐ | 125.000 | 101.474 | 8510744.39 | 0.6345 | A | 1.0 |
| 5 | ☐ | 250.000 | 234.988 | 18141127.65 | 1.3899 | A | 1.2 |
| 6 | ☐ | 500.000 | 544.875 | 41529921.88 | 3.1430 | A | 2.3 |
| 7 | ☐ | 1000.000 | 984.353 | 76483310.53 | 5.6293 | A | 1.8 |
| 8 | ☐ | | | 907826.09 | 0.0670 | P | 2.0 |

y = 0.0057 * x + 0.0605
R = 0.9981
DL = 0.2265

Weight: <None>
Min Conc: 0

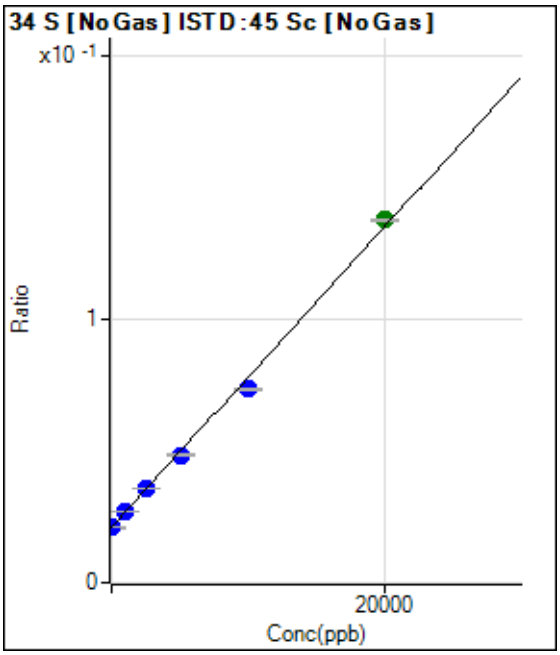



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | -15.891 | 488.90 | 0.0004 | P | 7.8 |
| 2 | ☐ | 0.000 | 15.891 | 1236.73 | 0.0010 | P | 8.9 |
| 3 | ☐ | 1000.000 | 1034.195 | 24348.32 | 0.0204 | P | 1.7 |
| 4 | ☐ | 2500.000 | 2596.721 | 58609.46 | 0.0502 | P | 0.9 |
| 5 | ☐ | 5000.000 | 5055.318 | 111726.18 | 0.0970 | P | 1.1 |
| 6 | ☐ | 10000.000 | 9895.147 | 219090.30 | 0.1892 | P | 1.3 |
| 7 | ☐ | 20000.000 | 20024.797 | 465715.46 | 0.3821 | P | 0.4 |
| 8 | ☐ | | | 595.57 | 0.0005 | P | 5.0 |

y = 1.9048E-005 * x + 7.0079E-004
R = 1.0000
DL = 9.465

Weight: <None>
Min Conc: 0

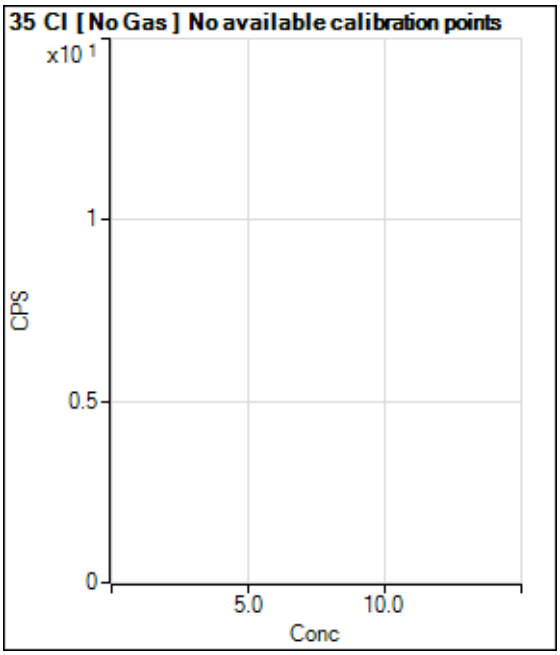
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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | -41.045 | 285669.19 | 0.0208 | P | 0.7 |
| 2 | ☐ | 0.000 | 41.045 | 294505.05 | 0.0213 | P | 0.4 |
| 3 | ☐ | 1000.000 | 1032.468 | 370617.00 | 0.0269 | P | 0.1 |
| 4 | ☐ | 2500.000 | 2533.603 | 475673.26 | 0.0355 | P | 0.2 |
| 5 | ☐ | 5000.000 | 4802.129 | 631441.91 | 0.0484 | P | 0.9 |
| 6 | ☐ | 10000.000 | 9175.411 | 968209.26 | 0.0733 | P | 1.6 |
| 7 | ☐ | 20000.000 | 20455.939 | 1868073.01 | 0.1375 | A | 0.4 |
| 8 | ☐ | | | 239784.77 | 0.0177 | P | 4.1 |

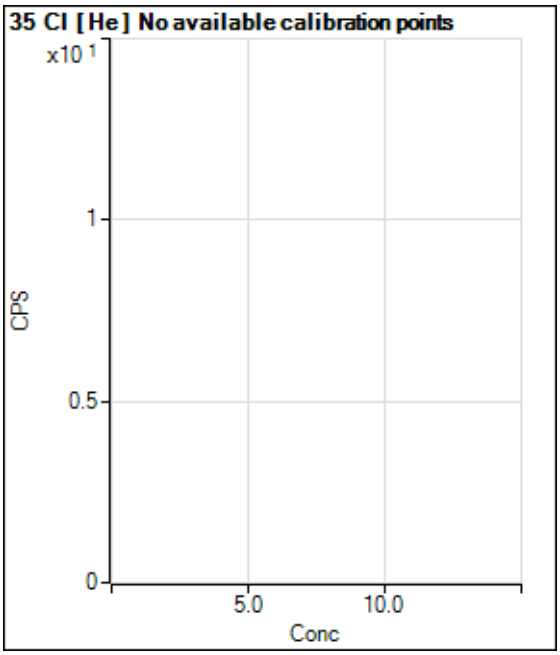
y = 5.6925E-006 * x + 0.0210
R = 0.9987
DL = 59.12

Weight: <None>
Min Conc: 0

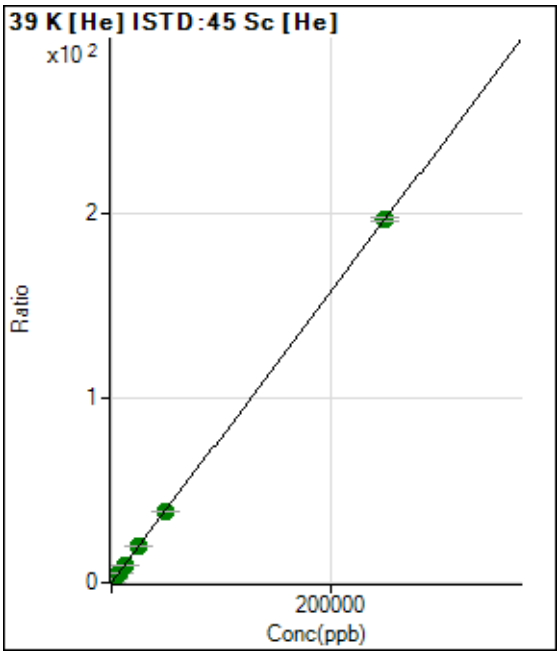



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | | | | |
| 2 | ☐ | | | | | | |
| 3 | ☐ | | | | | | |
| 4 | ☐ | | | | | | |
| 5 | ☐ | | | | | | |
| 6 | ☐ | | | | | | |
| 7 | ☐ | | | | | | |
| 8 | ☐ | | | | | | |

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

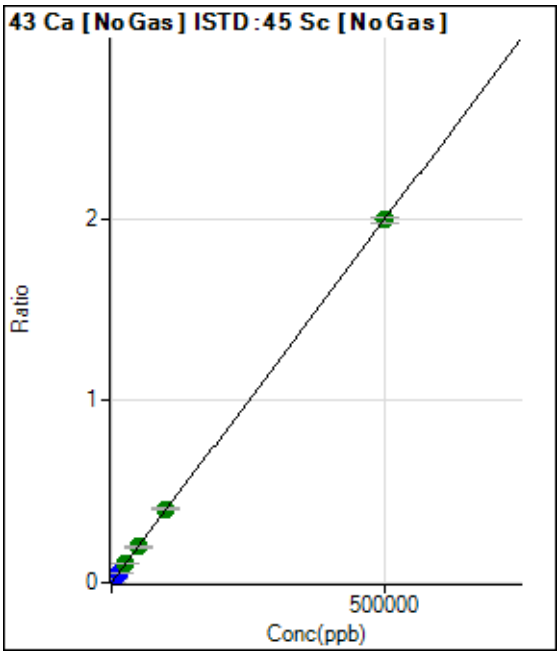



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 70993.44 | 0.0578 | P | 0.4 |
| 2 | ☐ | 500.000 | 516.964 | 572463.71 | 0.4645 | P | 0.5 |
| 3 | ☐ | 2500.000 | 2553.301 | 2466000.85 | 2.0664 | A | 2.3 |
| 4 | ☐ | 6250.000 | 6384.548 | 5935670.05 | 5.0802 | A | 0.5 |
| 5 | ☐ | 12500.000 | 12411.502 | 11313549.69 | 9.8214 | A | 0.3 |
| 6 | ☐ | 25000.000 | 24550.428 | 22433512.17 | 19.3705 | A | 0.4 |
| 7 | ☐ | 50000.000 | 49078.502 | 47123460.41 | 38.6655 | A | 0.5 |
| 8 | ☐ | 250000.00 | 250229.75 | 246514469.66 | 196.9016 | A | 1.0 |

y = 7.8665E-004 * x + 0.0578
R = 1.0000
DL = 0.8705

Weight: <None>
Min Conc: 0

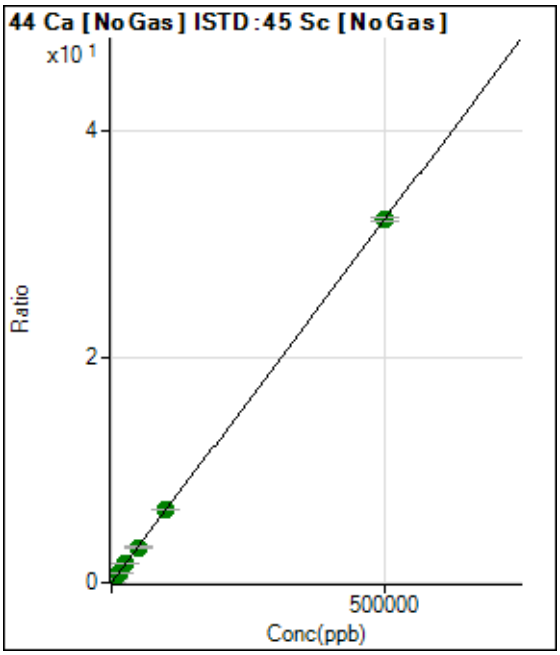
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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 6152.42 | 0.0004 | P | 0.7 |
| 2 | ☐ | 500.000 | 529.382 | 35416.83 | 0.0026 | P | 1.4 |
| 3 | ☐ | 5000.000 | 5368.385 | 300820.06 | 0.0218 | P | 1.3 |
| 4 | ☐ | 12500.000 | 13545.485 | 730286.26 | 0.0544 | P | 1.1 |
| 5 | ☐ | 25000.000 | 25444.477 | 1329830.80 | 0.1019 | A | 1.3 |
| 6 | ☐ | 50000.000 | 48981.274 | 2586183.14 | 0.1957 | A | 1.7 |
| 7 | ☐ | 100000.00 | 101597.17 | 5509152.21 | 0.4055 | A | 0.8 |
| 8 | ☐ | 500000.00 | 499730.36 | 26993585.71 | 1.9926 | A | 1.4 |

y = 3.9865E-006 * x + 4.4813E-004
R = 1.0000
DL = 2.366

Weight: <None>
Min Conc: 0

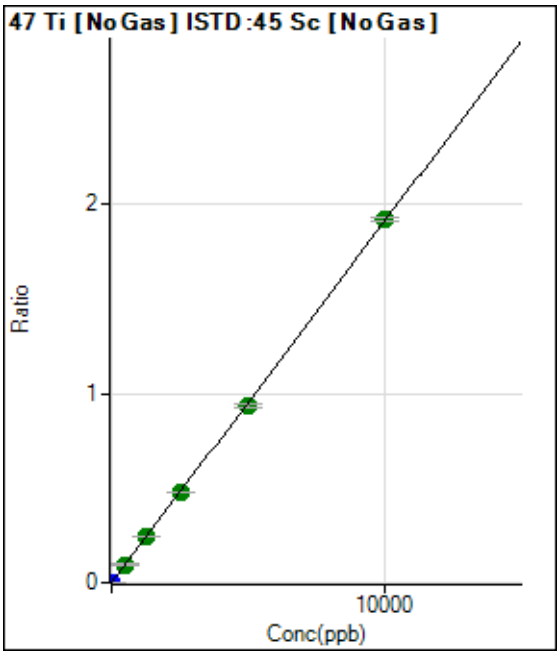



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 111759.95 | 0.0081 | P | 0.8 |
| 2 | ☐ | 500.000 | 527.198 | 582069.71 | 0.0420 | P | 1.3 |
| 3 | ☐ | 5000.000 | 5047.920 | 4582188.20 | 0.3328 | A | 0.7 |
| 4 | ☐ | 12500.000 | 12791.747 | 11144464.42 | 0.8309 | A | 1.2 |
| 5 | ☐ | 25000.000 | 25342.649 | 21382064.96 | 1.6381 | A | 0.6 |
| 6 | ☐ | 50000.000 | 48526.687 | 41347704.66 | 3.1293 | A | 2.5 |
| 7 | ☐ | 100000.00 | 100919.67 | 88304966.46 | 6.4991 | A | 0.7 |
| 8 | ☐ | 500000.00 | 499938.46 | 435713726.84 | 32.1635 | A | 1.0 |

y = 6.4319E-005 * x + 0.0081
R = 1.0000
DL = 3.165

Weight: <None>
Min Conc: 0

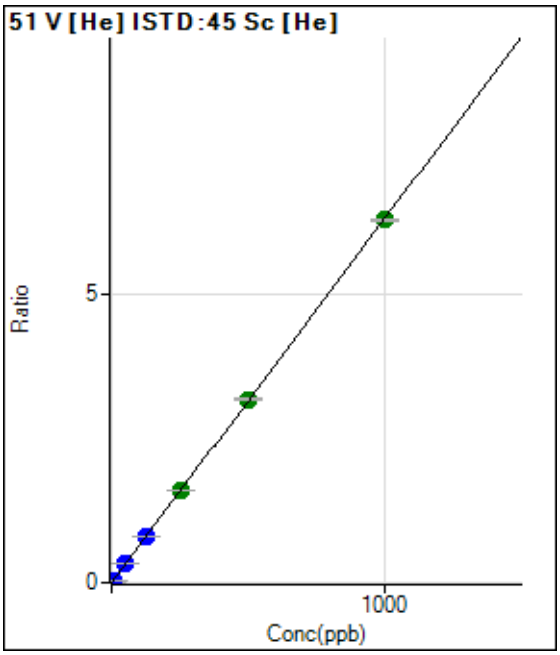
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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 278.89 | 0.0000 | P | 15.3 |
| 2 | ☐ | 5.000 | 4.984 | 13456.08 | 0.0010 | P | 1.8 |
| 3 | ☐ | 500.000 | 502.971 | 1322797.90 | 0.0961 | A | 1.3 |
| 4 | ☐ | 1250.000 | 1281.132 | 3281799.91 | 0.2447 | A | 2.0 |
| 5 | ☐ | 2500.000 | 2506.170 | 6247318.10 | 0.4786 | A | 1.3 |
| 6 | ☐ | 5000.000 | 4890.506 | 12341286.48 | 0.9340 | A | 2.4 |
| 7 | ☐ | 10000.000 | 10049.165 | 26075642.11 | 1.9192 | A | 1.2 |
| 8 | ☐ | | | 3917.21 | 0.0003 | P | 14.6 |

y = 1.9098E-004 * x + 2.0322E-005
R = 0.9999
DL = 0.04871

Weight: <None>
Min Conc: 0

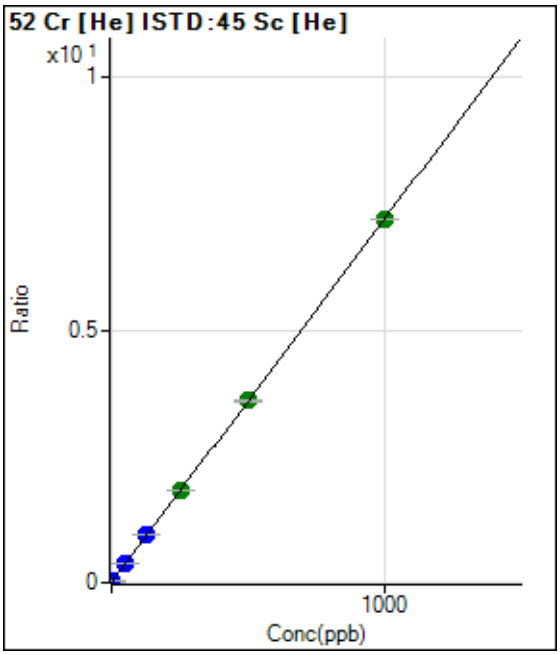



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 57.78 | 0.0000 | P | 11.7 |
| 2 | ☐ | 5.000 | 5.080 | 39414.68 | 0.0320 | P | 1.2 |
| 3 | ☐ | 50.000 | 51.867 | 389175.03 | 0.3261 | P | 2.6 |
| 4 | ☐ | 125.000 | 128.564 | 944392.39 | 0.8083 | P | 0.4 |
| 5 | ☐ | 250.000 | 253.720 | 1837412.26 | 1.5951 | A | 1.2 |
| 6 | ☐ | 500.000 | 502.552 | 3658926.65 | 3.1594 | A | 1.0 |
| 7 | ☐ | 1000.000 | 997.255 | 7640895.72 | 6.2695 | A | 0.5 |
| 8 | ☐ | | | 2127.95 | 0.0017 | P | 0.4 |

y = 0.0063 * x + 4.7045E-005
R = 1.0000
DL = 0.002631

Weight: <None>
Min Conc: 0

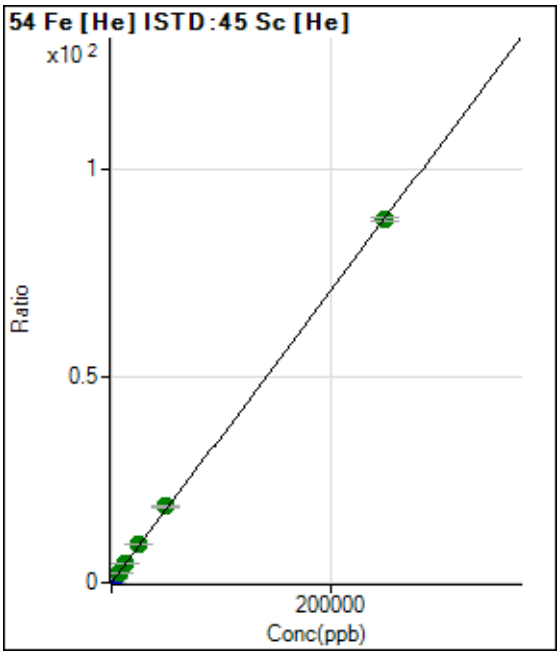
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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 6103.50 | 0.0050 | P | 3.0 |
| 2 | ☐ | 2.000 | 2.099 | 24718.13 | 0.0201 | P | 0.8 |
| 3 | ☐ | 50.000 | 52.265 | 454275.12 | 0.3806 | P | 1.6 |
| 4 | ☐ | 125.000 | 130.906 | 1105168.29 | 0.9459 | P | 0.5 |
| 5 | ☐ | 250.000 | 255.197 | 2118752.38 | 1.8392 | A | 0.5 |
| 6 | ☐ | 500.000 | 499.622 | 4164710.70 | 3.5961 | A | 0.5 |
| 7 | ☐ | 1000.000 | 998.038 | 8748844.94 | 7.1785 | A | 0.2 |
| 8 | ☐ | | | 17055.31 | 0.0136 | P | 1.3 |

y = 0.0072 * x + 0.0050
R = 1.0000
DL = 0.06286

Weight: <None>
Min Conc: 0

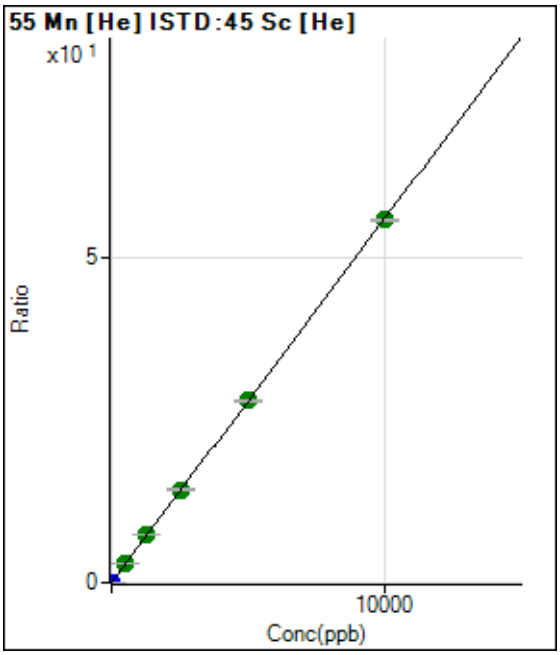



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 5252.07 | 0.0043 | P | 3.5 |
| 2 | ☐ | 50.000 | 56.845 | 29970.98 | 0.0243 | P | 1.3 |
| 3 | ☐ | 2500.000 | 2847.583 | 1203208.24 | 1.0082 | P | 2.1 |
| 4 | ☐ | 6250.000 | 6896.299 | 2845606.80 | 2.4356 | A | 0.9 |
| 5 | ☐ | 12500.000 | 13430.406 | 5459382.77 | 4.7392 | A | 0.5 |
| 6 | ☐ | 25000.000 | 26195.835 | 10700621.23 | 9.2398 | A | 0.8 |
| 7 | ☐ | 50000.000 | 52296.678 | 22476076.05 | 18.4418 | A | 0.7 |
| 8 | ☐ | 250000.00 | 249354.92 | 110066795.03 | 87.9158 | A | 1.0 |

y = 3.5256E-004 * x + 0.0043
R = 1.0000
DL = 1.283

Weight: <None>
Min Conc: 0

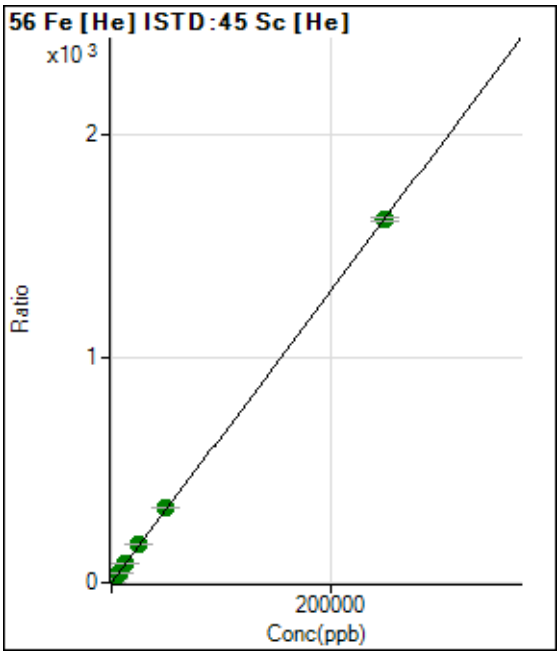
Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 12917.86 | 0.0105 | P | 2.6 |
| 2 | ☐ | 1.000 | 1.030 | 20061.24 | 0.0163 | P | 1.4 |
| 3 | ☐ | 500.000 | 524.035 | 3506242.03 | 2.9378 | A | 2.0 |
| 4 | ☐ | 1250.000 | 1303.741 | 8521501.82 | 7.2933 | A | 0.4 |
| 5 | ☐ | 2500.000 | 2554.557 | 16449636.28 | 14.2804 | A | 0.8 |
| 6 | ☐ | 5000.000 | 5008.565 | 32413721.74 | 27.9885 | A | 0.8 |
| 7 | ☐ | 10000.000 | 9974.159 | 67915777.32 | 55.7265 | A | 0.7 |
| 8 | ☐ | | | 37540.09 | 0.0300 | P | 1.7 |

y = 0.0056 * x + 0.0105
R = 1.0000
DL = 0.1457

Weight: <None>
Min Conc: 0

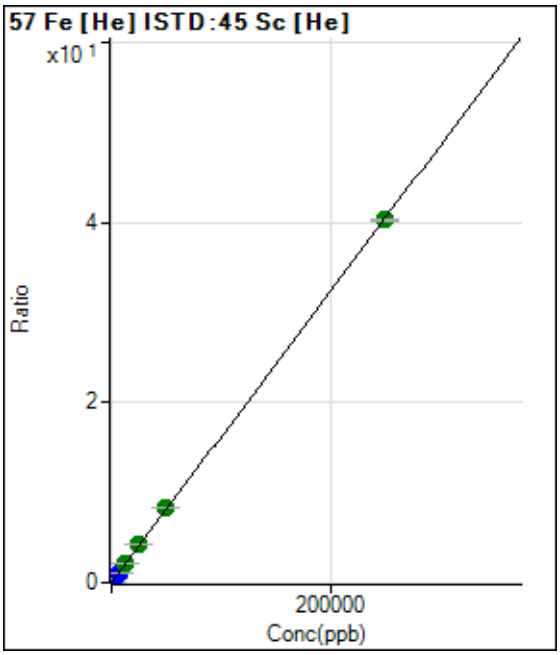



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 41804.73 | 0.0340 | P | 0.4 |
| 2 | ☐ | 50.000 | 54.738 | 479246.19 | 0.3888 | P | 0.3 |
| 3 | ☐ | 2500.000 | 2733.078 | 21184472.60 | 17.7493 | A | 1.1 |
| 4 | ☐ | 6250.000 | 6762.655 | 51255584.24 | 43.8683 | A | 0.8 |
| 5 | ☐ | 12500.000 | 13227.237 | 98800269.64 | 85.7705 | A | 1.2 |
| 6 | ☐ | 25000.000 | 25890.517 | 194391639.32 | 167.8515 | A | 0.6 |
| 7 | ☐ | 50000.000 | 51515.692 | 407002198.38 | 333.9490 | A | 0.2 |
| 8 | ☐ | 250000.00 | 249556.30 | 2025243863.1 | 1,617.610 | A | 1.1 |

y = 0.0065 * x + 0.0340
R = 1.0000
DL = 0.06705

Weight: <None>
Min Conc: 0

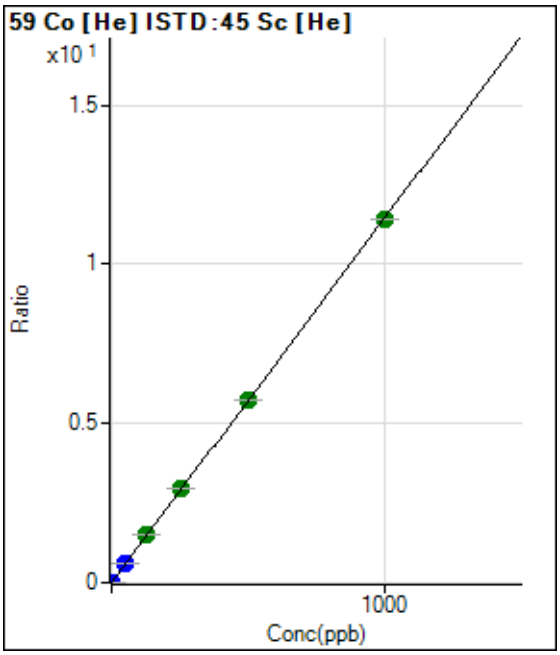
Reviewed By:Mohan
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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1950.14 | 0.0016 | P | 4.0 |
| 2 | ☐ | 50.000 | 57.545 | 13424.96 | 0.0109 | P | 1.8 |
| 3 | ☐ | 2500.000 | 2843.251 | 550508.89 | 0.4613 | P | 2.7 |
| 4 | ☐ | 6250.000 | 7055.980 | 1334765.48 | 1.1425 | P | 1.2 |
| 5 | ☐ | 12500.000 | 13303.240 | 2479579.32 | 2.1526 | A | 2.8 |
| 6 | ☐ | 25000.000 | 26079.196 | 4885279.44 | 4.2183 | A | 0.8 |
| 7 | ☐ | 50000.000 | 51742.740 | 10198050.33 | 8.3678 | A | 1.5 |
| 8 | ☐ | 250000.00 | 249479.78 | 50506509.80 | 40.3398 | A | 0.4 |

y = 1.6169E-004 * x + 0.0016
R = 1.0000
DL = 1.186

Weight: <None>
Min Conc: 0

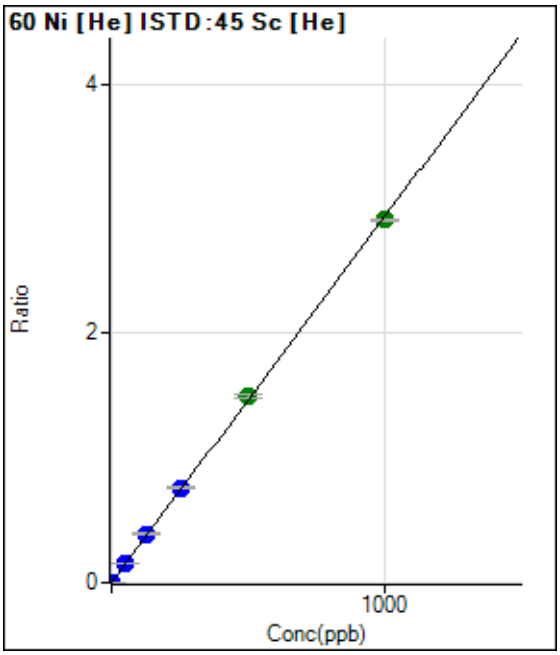



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 378.90 | 0.0003 | P | 7.0 |
| 2 | ☐ | 1.000 | 1.079 | 15599.30 | 0.0127 | P | 2.0 |
| 3 | ☐ | 50.000 | 53.123 | 725639.47 | 0.6080 | P | 1.8 |
| 4 | ☐ | 125.000 | 132.641 | 1773231.88 | 1.5177 | A | 0.5 |
| 5 | ☐ | 250.000 | 258.507 | 3406863.70 | 2.9575 | A | 0.6 |
| 6 | ☐ | 500.000 | 501.955 | 6650544.14 | 5.7425 | A | 0.4 |
| 7 | ☐ | 1000.000 | 995.785 | 13883828.40 | 11.3918 | A | 0.2 |
| 8 | ☐ | | | 37075.73 | 0.0296 | P | 1.5 |

y = 0.0114 * x + 3.0854E-004
R = 0.9999
DL = 0.005641

Weight: <None>
Min Conc: 0

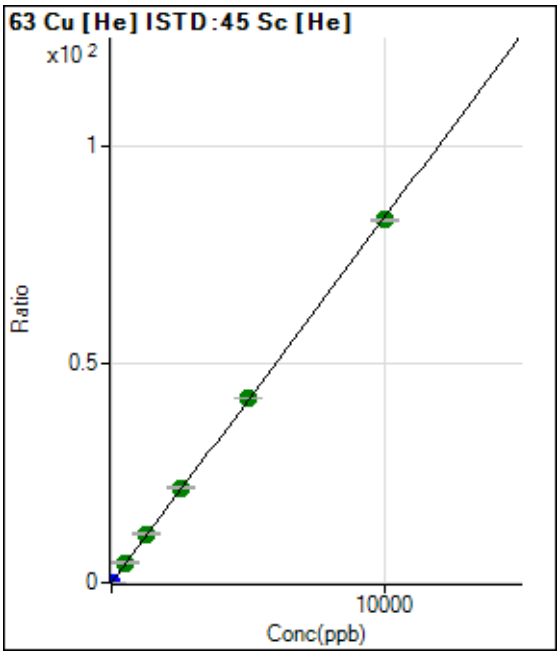
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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 756.69 | 0.0006 | P | 10.0 |
| 2 | ☐ | 1.000 | 1.079 | 4658.54 | 0.0038 | P | 3.4 |
| 3 | ☐ | 50.000 | 54.116 | 190155.34 | 0.1593 | P | 0.8 |
| 4 | ☐ | 125.000 | 133.663 | 458693.20 | 0.3926 | P | 0.7 |
| 5 | ☐ | 250.000 | 259.492 | 877315.30 | 0.7616 | P | 0.5 |
| 6 | ☐ | 500.000 | 508.577 | 1727928.71 | 1.4921 | A | 1.7 |
| 7 | ☐ | 1000.000 | 992.050 | 3546430.29 | 2.9099 | A | 0.6 |
| 8 | ☐ | | | 10909.62 | 0.0087 | P | 3.6 |

y = 0.0029 * x + 6.1615E-004
R = 0.9999
DL = 0.06274

Weight: <None>
Min Conc: 0

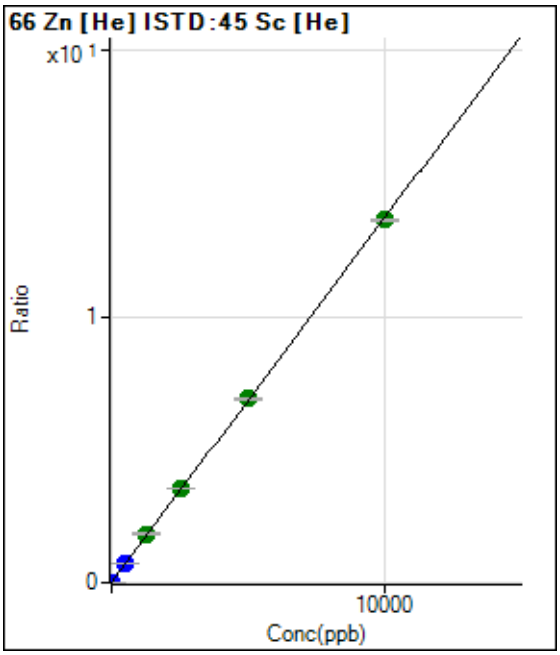



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2386.88 | 0.0019 | P | 7.9 |
| 2 | ☐ | 2.000 | 2.016 | 23169.11 | 0.0188 | P | 1.1 |
| 3 | ☐ | 500.000 | 546.609 | 5455953.74 | 4.5720 | A | 3.1 |
| 4 | ☐ | 1250.000 | 1336.513 | 13057452.58 | 11.1761 | A | 1.1 |
| 5 | ☐ | 2500.000 | 2595.577 | 24999966.29 | 21.7027 | A | 1.2 |
| 6 | ☐ | 5000.000 | 5059.444 | 48991321.49 | 42.3024 | A | 0.8 |
| 7 | ☐ | 10000.000 | 9933.239 | 101217909.60 | 83.0506 | A | 0.6 |
| 8 | ☐ | | | 19224.68 | 0.0154 | P | 2.3 |

y = 0.0084 * x + 0.0019
R = 0.9999
DL = 0.05539

Weight: <None>
Min Conc: 0

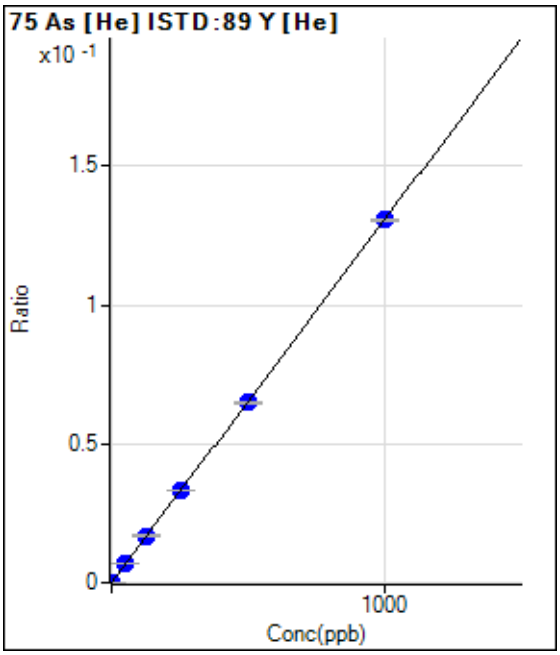
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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 13035.78 | 0.0106 | P | 0.7 |
| 2 | ☐ | 2.000 | 5.061 | 21620.20 | 0.0175 | P | 0.6 |
| 3 | ☐ | 500.000 | 535.359 | 886953.56 | 0.7432 | P | 1.9 |
| 4 | ☐ | 1250.000 | 1333.625 | 2144568.22 | 1.8355 | A | 1.1 |
| 5 | ☐ | 2500.000 | 2576.468 | 4073373.83 | 3.5362 | A | 1.1 |
| 6 | ☐ | 5000.000 | 5041.109 | 8000955.23 | 6.9088 | A | 1.4 |
| 7 | ☐ | 10000.000 | 9948.107 | 16603591.56 | 13.6234 | A | 0.5 |
| 8 | ☐ | | | 9398.58 | 0.0075 | P | 0.5 |

y = 0.0014 * x + 0.0106
R = 0.9999
DL = 0.1738

Weight: <None>
Min Conc: 0

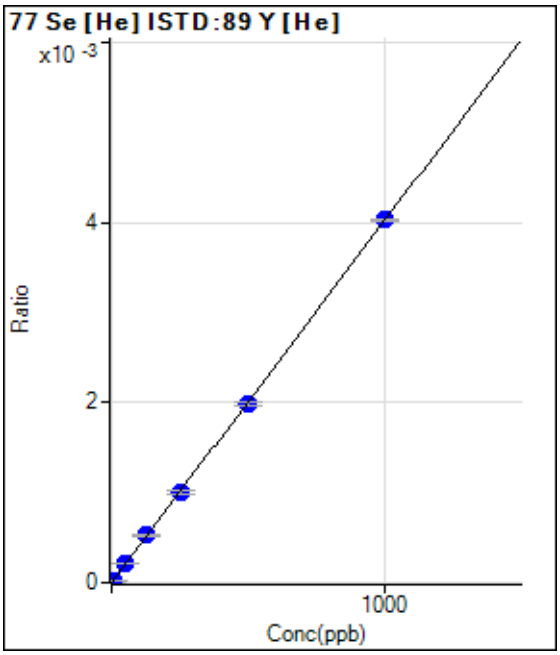



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 24.44 | 0.0000 | P | 21.0 |
| 2 | ☐ | 1.000 | 1.049 | 1220.06 | 0.0001 | P | 4.0 |
| 3 | ☐ | 50.000 | 52.514 | 57532.01 | 0.0069 | P | 1.8 |
| 4 | ☐ | 125.000 | 129.508 | 141304.76 | 0.0169 | P | 1.6 |
| 5 | ☐ | 250.000 | 255.164 | 273318.91 | 0.0333 | P | 0.8 |
| 6 | ☐ | 500.000 | 496.206 | 541849.06 | 0.0648 | P | 0.8 |
| 7 | ☐ | 1000.000 | 999.917 | 1142525.11 | 0.1306 | P | 0.5 |
| 8 | ☐ | | | 623.35 | 0.0001 | P | 5.8 |

y = 1.3063E-004 * x + 2.8314E-006
R = 1.0000
DL = 0.01362

Weight: <None>
Min Conc: 0

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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2.22 | 0.0000 | P | 173. |
| 2 | ☐ | 5.000 | 4.755 | 168.89 | 0.0000 | P | 23.2 |
| 3 | ☐ | 50.000 | 53.086 | 1790.13 | 0.0002 | P | 0.5 |
| 4 | ☐ | 125.000 | 131.348 | 4408.48 | 0.0005 | P | 2.0 |
| 5 | ☐ | 250.000 | 248.522 | 8186.78 | 0.0010 | P | 3.8 |
| 6 | ☐ | 500.000 | 493.929 | 16588.30 | 0.0020 | P | 1.5 |
| 7 | ☐ | 1000.000 | 1002.458 | 35226.24 | 0.0040 | P | 0.6 |
| 8 | ☐ | | | 13.33 | 0.0000 | P | 66.1 |

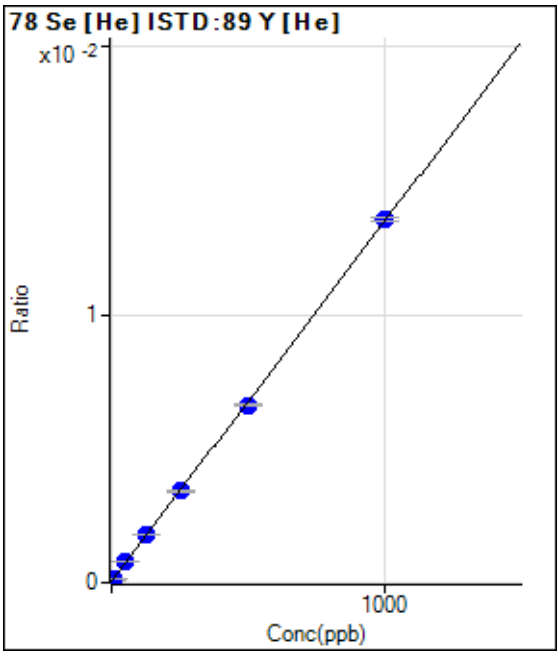
y = 4.0172E-006 * x + 2.5861E-007

R = 0.9999

DL = 0.3345

Weight: <None>

Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 506.68 | 0.0001 | P | 6.1 |
| 2 | ☐ | 5.000 | 4.727 | 1064.49 | 0.0001 | P | 8.3 |
| 3 | ☐ | 50.000 | 53.117 | 6462.58 | 0.0008 | P | 3.3 |
| 4 | ☐ | 125.000 | 130.513 | 15106.68 | 0.0018 | P | 1.5 |
| 5 | ☐ | 250.000 | 250.067 | 27976.45 | 0.0034 | P | 0.6 |
| 6 | ☐ | 500.000 | 488.597 | 55258.25 | 0.0066 | P | 1.1 |
| 7 | ☐ | 1000.000 | 1004.841 | 118374.80 | 0.0135 | P | 0.9 |
| 8 | ☐ | | | 484.46 | 0.0001 | P | 6.5 |

y = 1.3410E-005 * x + 5.8668E-005

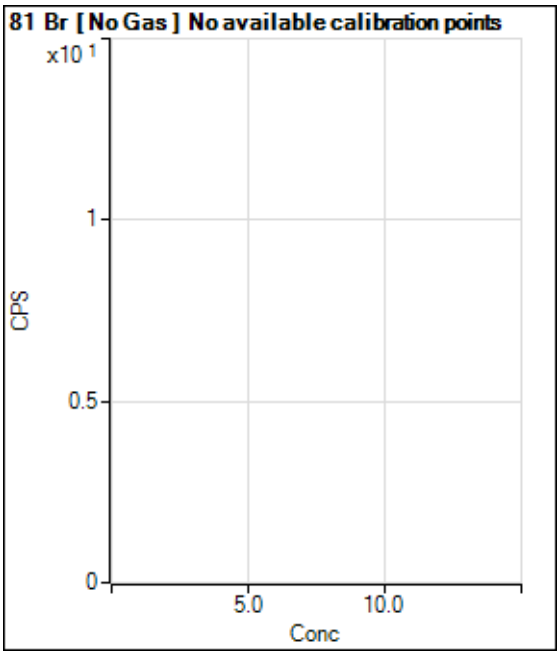
R = 0.9999

DL = 0.8058

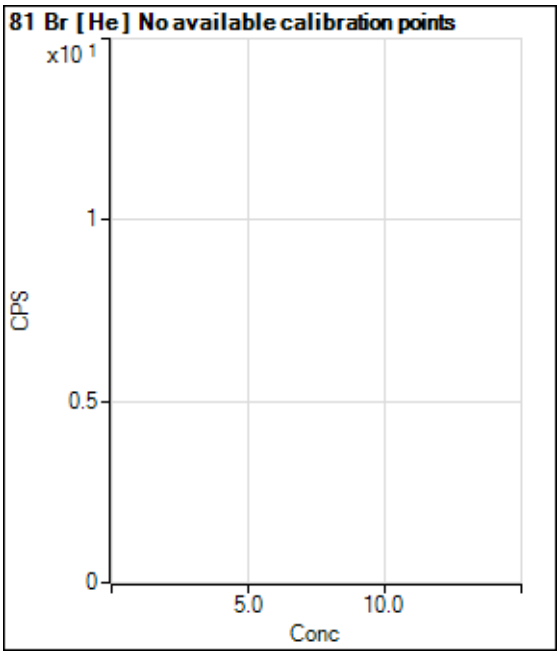
Weight: <None>

Min Conc: 0

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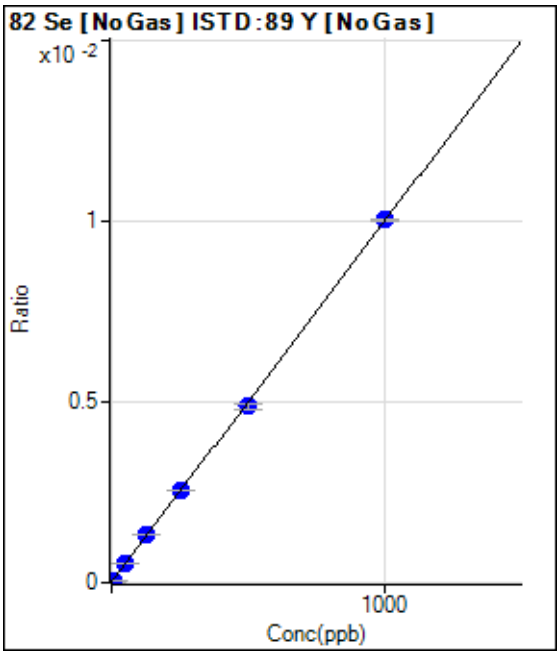



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 15698.44 | | P | 2.2 |
| 2 | ☐ | | | 15710.68 | | P | 2.0 |
| 3 | ☐ | | | 15302.46 | | P | 0.3 |
| 4 | ☐ | | | 14892.06 | | P | 3.2 |
| 5 | ☐ | | | 13864.37 | | P | 1.7 |
| 6 | ☐ | | | 13789.88 | | P | 1.9 |
| 7 | ☐ | | | 14469.38 | | P | 2.5 |
| 8 | ☐ | | | 16380.31 | | P | 2.2 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 147.78 | | P | 13.6 |
| 2 | ☐ | | | 137.78 | | P | 11.9 |
| 3 | ☐ | | | 106.67 | | P | 11.3 |
| 4 | ☐ | | | 123.33 | | P | 9.7 |
| 5 | ☐ | | | 124.45 | | P | 26.8 |
| 6 | ☐ | | | 128.89 | | P | 3.9 |
| 7 | ☐ | | | 126.67 | | P | 12.1 |
| 8 | ☐ | | | 134.45 | | P | 18.9 |

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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 417.14 | 0.0000 | P | 26.9 |
| 2 | ☐ | 5.000 | 5.055 | 2105.46 | 0.0001 | P | 1.2 |
| 3 | ☐ | 50.000 | 51.238 | 17294.44 | 0.0005 | P | 1.2 |
| 4 | ☐ | 125.000 | 129.953 | 42540.09 | 0.0013 | P | 0.7 |
| 5 | ☐ | 250.000 | 254.519 | 81082.94 | 0.0026 | P | 1.3 |
| 6 | ☐ | 500.000 | 486.872 | 158250.52 | 0.0049 | P | 3.4 |
| 7 | ☐ | 1000.000 | 1004.753 | 337844.80 | 0.0101 | P | 0.7 |
| 8 | ☐ | | | 692.34 | 0.0000 | P | 12.6 |

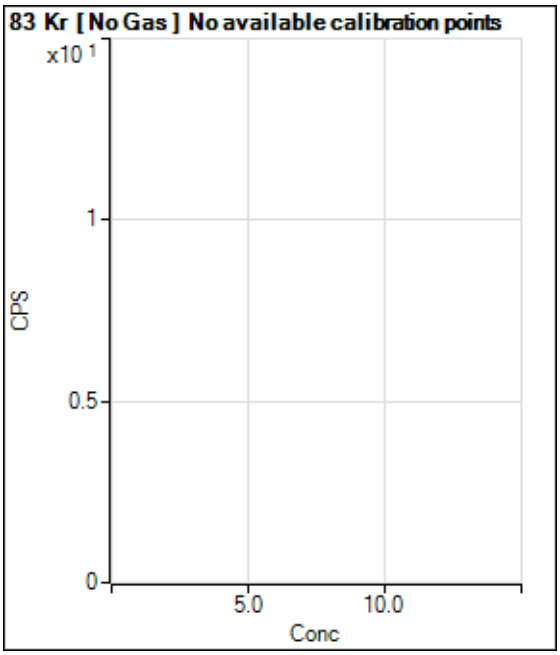
y = 9.9918E-006 * x + 1.2637E-005

R = 0.9998

DL = 1.021

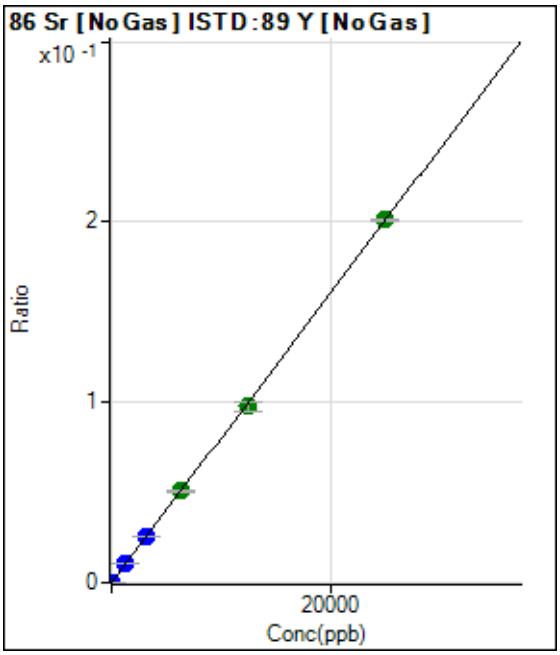
Weight: <None>

Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 257.78 | | P | 10.8 |
| 2 | ☐ | | | 228.89 | | P | 2.2 |
| 3 | ☐ | | | 245.56 | | P | 10.5 |
| 4 | ☐ | | | 263.34 | | P | 7.0 |
| 5 | ☐ | | | 261.12 | | P | 4.5 |
| 6 | ☐ | | | 280.00 | | P | 9.3 |
| 7 | ☐ | | | 291.12 | | P | 5.6 |
| 8 | ☐ | | | 312.23 | | P | 16.0 |

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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 836.70 | 0.0000 | P | 11.3 |
| 2 | ☐ | 1.000 | 25.318 | 7607.58 | 0.0002 | P | 2.5 |
| 3 | ☐ | 1250.000 | 1274.969 | 337579.49 | 0.0102 | P | 0.9 |
| 4 | ☐ | 3125.000 | 3210.167 | 835231.03 | 0.0257 | P | 1.5 |
| 5 | ☐ | 6250.000 | 6355.528 | 1616180.24 | 0.0509 | A | 1.8 |
| 6 | ☐ | 12500.000 | 12192.646 | 3169557.87 | 0.0977 | A | 4.8 |
| 7 | ☐ | 25000.000 | 25115.400 | 6763506.57 | 0.2012 | A | 0.9 |
| 8 | ☐ | | | 23390.85 | 0.0007 | P | 2.1 |

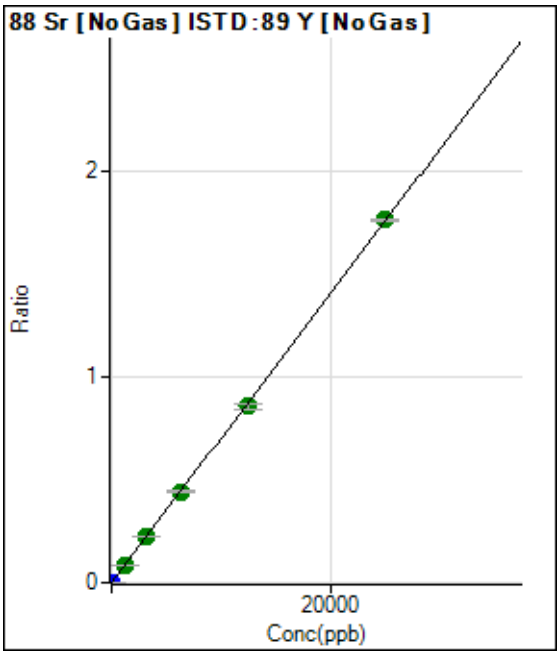
y = 8.0114E-006 * x + 2.5316E-005

R = 0.9999

DL = 1.073

Weight: <None>

Min Conc: 0




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 3776.08 | 0.0001 | P | 3.0 |
| 2 | ☐ | 1.000 | 25.501 | 63373.47 | 0.0019 | P | 0.7 |
| 3 | ☐ | 1250.000 | 1260.976 | 2915841.66 | 0.0884 | A | 0.2 |
| 4 | ☐ | 3125.000 | 3201.884 | 7281098.99 | 0.2244 | A | 0.9 |
| 5 | ☐ | 6250.000 | 6307.222 | 14021316.60 | 0.4419 | A | 0.7 |
| 6 | ☐ | 12500.000 | 12193.431 | 27718009.59 | 0.8543 | A | 3.4 |
| 7 | ☐ | 25000.000 | 25128.819 | 59167770.23 | 1.7604 | A | 0.6 |
| 8 | ☐ | | | 198520.69 | 0.0061 | P | 0.7 |

y = 7.0051E-005 * x + 1.1416E-004

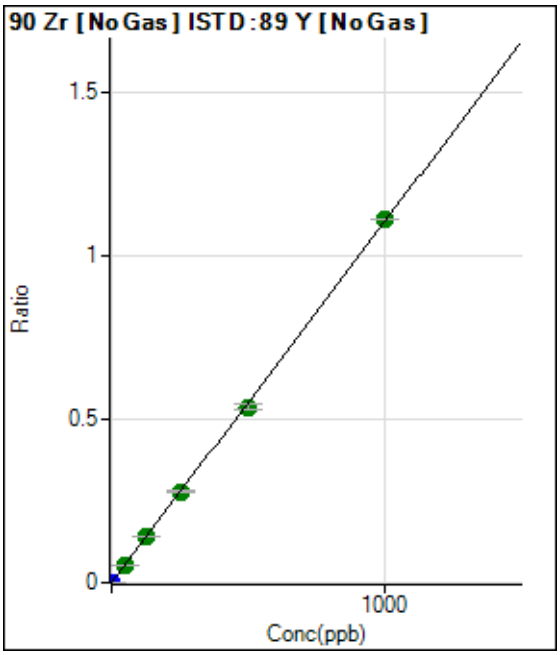
R = 0.9999

DL = 0.1459

Weight: <None>

Min Conc: 0

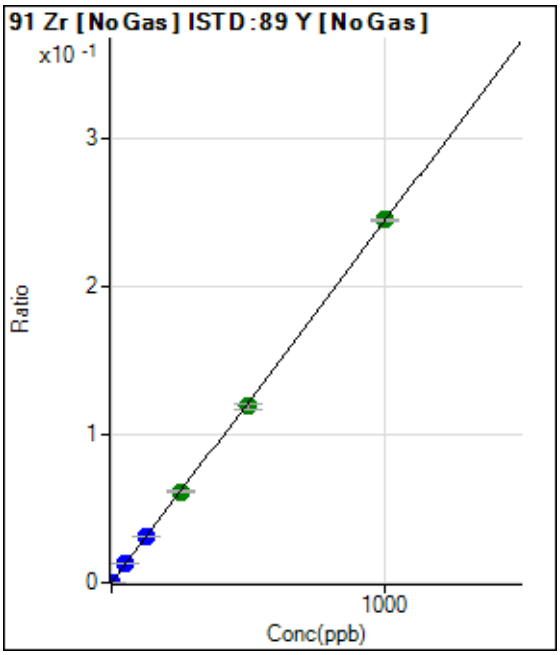
Reviewed By:Mohan
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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1847.91 | 0.0001 | P | 3.1 |
| 2 | ☐ | 1.000 | 0.976 | 37831.93 | 0.0011 | P | 1.3 |
| 3 | ☐ | 50.000 | 50.002 | 1823960.91 | 0.0553 | A | 1.3 |
| 4 | ☐ | 125.000 | 126.259 | 4530243.40 | 0.1396 | A | 0.4 |
| 5 | ☐ | 250.000 | 251.199 | 8811257.72 | 0.2777 | A | 1.6 |
| 6 | ☐ | 500.000 | 487.454 | 17483999.46 | 0.5389 | A | 3.7 |
| 7 | ☐ | 1000.000 | 1005.816 | 37370495.55 | 1.1119 | A | 0.1 |
| 8 | ☐ | | | 22209.08 | 0.0007 | P | 2.4 |

y = 0.0011 * x + 5.5865E-005
R = 0.9999
DL = 0.004726

Weight: <None>
Min Conc: 0

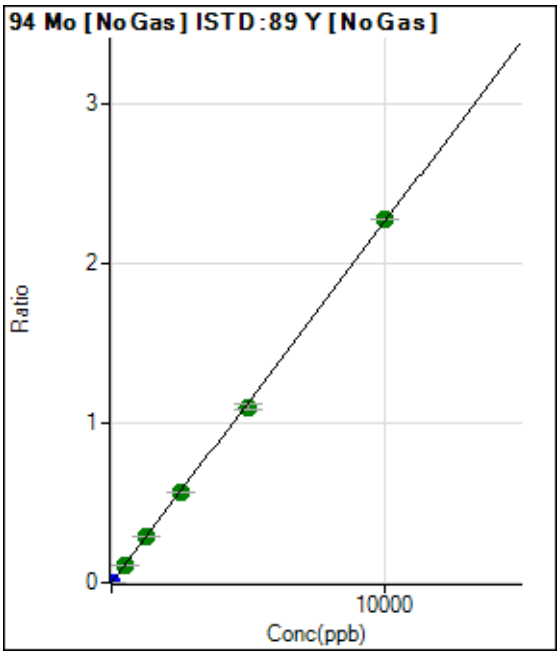



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 386.68 | 0.0000 | P | 14.8 |
| 2 | ☐ | 1.000 | 0.994 | 8462.50 | 0.0003 | P | 1.1 |
| 3 | ☐ | 50.000 | 50.832 | 408565.52 | 0.0124 | P | 1.0 |
| 4 | ☐ | 125.000 | 127.949 | 1011506.47 | 0.0312 | P | 1.5 |
| 5 | ☐ | 250.000 | 252.624 | 1952538.65 | 0.0615 | A | 1.5 |
| 6 | ☐ | 500.000 | 487.976 | 3856681.05 | 0.1189 | A | 3.8 |
| 7 | ☐ | 1000.000 | 1004.946 | 8227398.21 | 0.2448 | A | 0.7 |
| 8 | ☐ | | | 4973.11 | 0.0002 | P | 2.8 |

y = 2.4357E-004 * x + 1.1689E-005
R = 0.9999
DL = 0.02133

Weight: <None>
Min Conc: 0

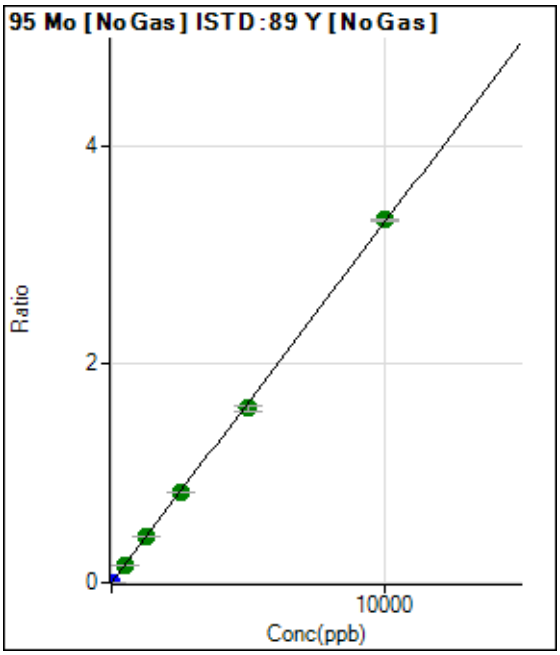
Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 713.36 | 0.0000 | P | 7.8 |
| 2 | ☐ | 5.000 | 5.786 | 44374.77 | 0.0013 | P | 0.9 |
| 3 | ☐ | 500.000 | 500.707 | 3735899.67 | 0.1133 | A | 1.0 |
| 4 | ☐ | 1250.000 | 1270.169 | 9325944.65 | 0.2874 | A | 1.4 |
| 5 | ☐ | 2500.000 | 2510.278 | 18021902.65 | 0.5681 | A | 1.4 |
| 6 | ☐ | 5000.000 | 4873.764 | 35784906.41 | 1.1029 | A | 3.2 |
| 7 | ☐ | 10000.000 | 10057.992 | 76495518.30 | 2.2760 | A | 0.1 |
| 8 | ☐ | | | 19108.20 | 0.0006 | P | 10.2 |

y = 2.2628E-004 * x + 2.1558E-005
R = 0.9999
DL = 0.02216

Weight: <None>
Min Conc: 0

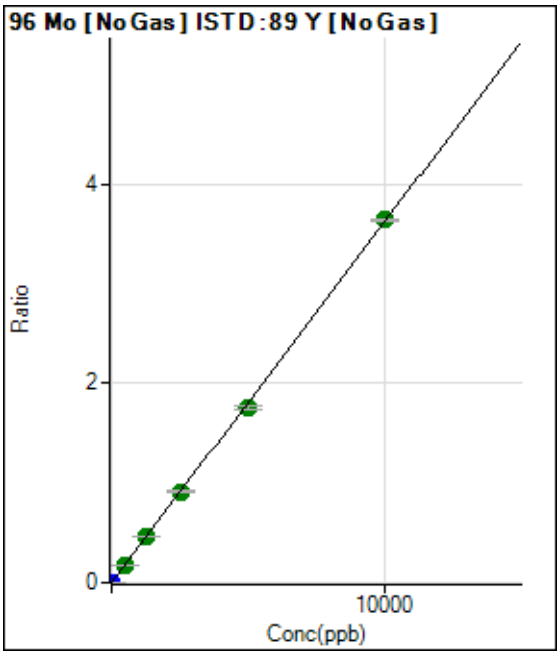



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 277.78 | 0.0000 | P | 9.5 |
| 2 | ☐ | 5.000 | 4.927 | 54474.16 | 0.0016 | P | 0.6 |
| 3 | ☐ | 500.000 | 503.682 | 5477559.78 | 0.1662 | A | 0.6 |
| 4 | ☐ | 1250.000 | 1268.972 | 13581425.77 | 0.4186 | A | 0.8 |
| 5 | ☐ | 2500.000 | 2515.578 | 26325902.38 | 0.8298 | A | 1.2 |
| 6 | ☐ | 5000.000 | 4847.024 | 51879654.23 | 1.5988 | A | 2.9 |
| 7 | ☐ | 10000.000 | 10070.038 | 111642235.00 | 3.3217 | A | 0.3 |
| 8 | ☐ | | | 18746.67 | 0.0006 | P | 13.5 |

y = 3.2986E-004 * x + 8.3987E-006
R = 0.9998
DL = 0.00725

Weight: <None>
Min Conc: 0

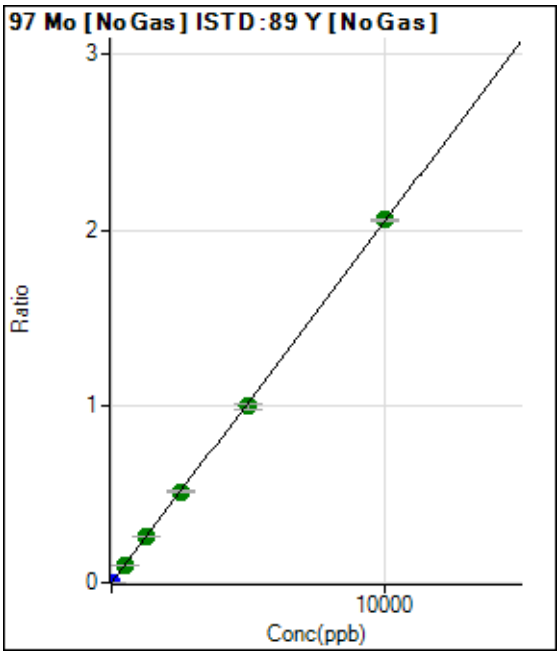
Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 406.68 | 0.0000 | P | 22.0 |
| 2 | ☐ | 5.000 | 4.919 | 59794.74 | 0.0018 | P | 1.2 |
| 3 | ☐ | 500.000 | 504.344 | 6020517.83 | 0.1826 | A | 0.3 |
| 4 | ☐ | 1250.000 | 1271.439 | 14936653.80 | 0.4604 | A | 1.0 |
| 5 | ☐ | 2500.000 | 2516.332 | 28905924.29 | 0.9111 | A | 1.5 |
| 6 | ☐ | 5000.000 | 4856.383 | 57059889.71 | 1.7584 | A | 2.5 |
| 7 | ☐ | 10000.000 | 10064.829 | 122482400.40 | 3.6442 | A | 0.3 |
| 8 | ☐ | | | 35182.43 | 0.0011 | P | 6.6 |

y = 3.6207E-004 * x + 1.2317E-005
R = 0.9998
DL = 0.02247

Weight: <None>
Min Conc: 0

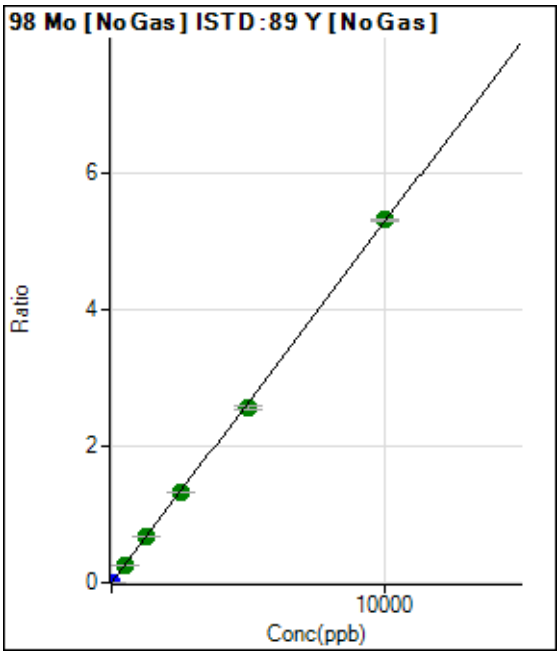



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 174.45 | 0.0000 | P | 13.4 |
| 2 | ☐ | 5.000 | 4.914 | 33718.79 | 0.0010 | P | 1.1 |
| 3 | ☐ | 500.000 | 503.897 | 3400856.24 | 0.1032 | A | 0.8 |
| 4 | ☐ | 1250.000 | 1268.092 | 8422616.26 | 0.2596 | A | 1.3 |
| 5 | ☐ | 2500.000 | 2518.493 | 16357336.98 | 0.5156 | A | 1.3 |
| 6 | ☐ | 5000.000 | 4883.630 | 32440330.63 | 0.9998 | A | 2.9 |
| 7 | ☐ | 10000.000 | 10051.105 | 69156156.75 | 2.0576 | A | 0.5 |
| 8 | ☐ | | | 11118.81 | 0.0003 | P | 15.0 |

y = 2.0471E-004 * x + 5.2706E-006
R = 0.9999
DL = 0.01038

Weight: <None>
Min Conc: 0

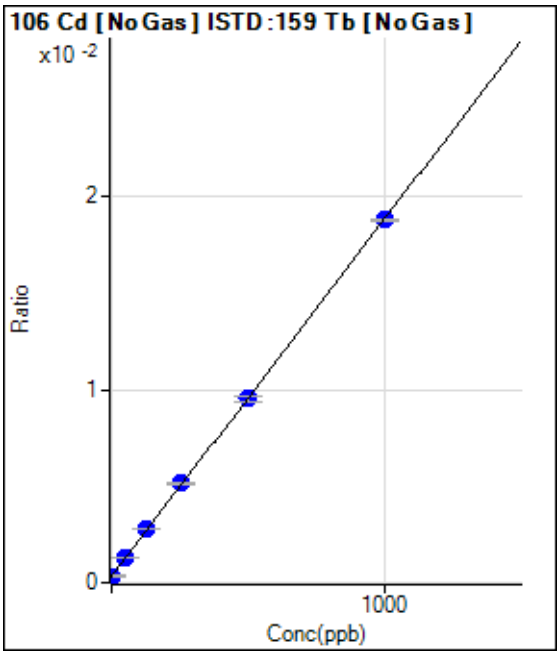
Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 370.01 | 0.0000 | P | 15.4 |
| 2 | ☐ | 5.000 | 4.910 | 86758.92 | 0.0026 | P | 1.4 |
| 3 | ☐ | 500.000 | 500.666 | 8709762.30 | 0.2642 | A | 0.6 |
| 4 | ☐ | 1250.000 | 1268.669 | 21718314.12 | 0.6694 | A | 2.2 |
| 5 | ☐ | 2500.000 | 2508.547 | 41994015.49 | 1.3237 | A | 1.6 |
| 6 | ☐ | 5000.000 | 4858.315 | 83180184.87 | 2.5635 | A | 3.1 |
| 7 | ☐ | 10000.000 | 10066.339 | 178522075.12 | 5.3116 | A | 0.4 |
| 8 | ☐ | | | 28225.49 | 0.0009 | P | 13.4 |

y = 5.2766E-004 * x + 1.1200E-005
R = 0.9998
DL = 0.009787

Weight: <None>
Min Conc: 0

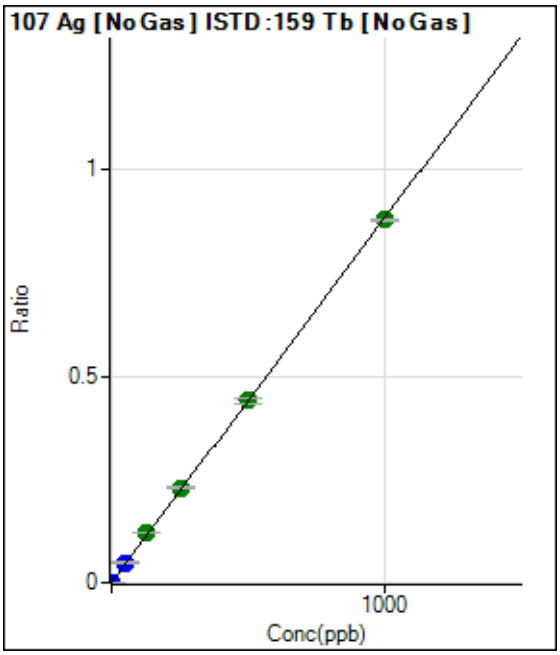



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 9612.16 | 0.0003 | P | 0.6 |
| 2 | ☐ | 1.000 | 1.123 | 10304.87 | 0.0003 | P | 4.8 |
| 3 | ☐ | 50.000 | 54.400 | 39958.18 | 0.0013 | P | 0.7 |
| 4 | ☐ | 125.000 | 134.964 | 84503.69 | 0.0028 | P | 0.8 |
| 5 | ☐ | 250.000 | 259.977 | 152237.03 | 0.0051 | P | 0.6 |
| 6 | ☐ | 500.000 | 496.504 | 286959.33 | 0.0095 | P | 3.5 |
| 7 | ☐ | 1000.000 | 997.788 | 594643.60 | 0.0188 | P | 0.5 |
| 8 | ☐ | | | 9482.05 | 0.0003 | P | 1.1 |

y = 1.8501E-005 * x + 3.2397E-004
R = 0.9999
DL = 0.3259

Weight: <None>
Min Conc: 0

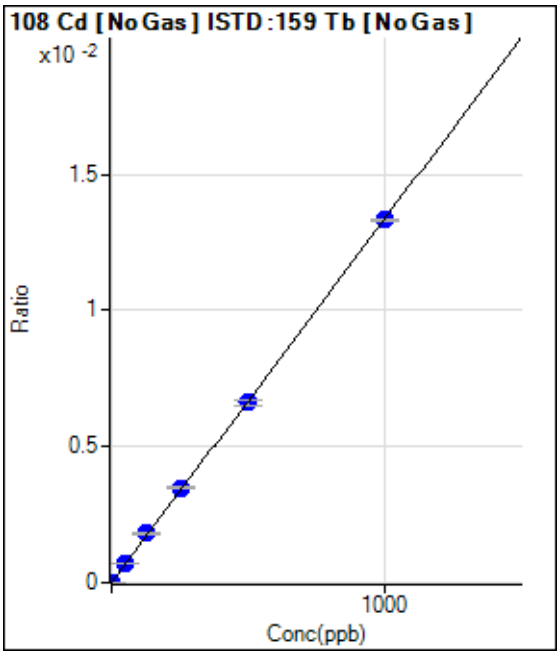
Reviewed By:Mohan
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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 162.23 | 0.0000 | P | 15.1 |
| 2 | ☐ | 1.000 | 1.072 | 28436.77 | 0.0010 | P | 1.8 |
| 3 | ☐ | 50.000 | 55.360 | 1466620.85 | 0.0488 | P | 0.4 |
| 4 | ☐ | 125.000 | 135.567 | 3581813.83 | 0.1196 | A | 0.4 |
| 5 | ☐ | 250.000 | 261.020 | 6826652.82 | 0.2302 | A | 0.7 |
| 6 | ☐ | 500.000 | 499.836 | 13302874.39 | 0.4408 | A | 3.3 |
| 7 | ☐ | 1000.000 | 995.738 | 27800960.14 | 0.8782 | A | 0.9 |
| 8 | ☐ | | | 3566.04 | 0.0001 | P | 12.6 |

y = 8.8194E-004 * x + 5.4660E-006
R = 0.9999
DL = 0.002812

Weight: <None>
Min Conc: 0

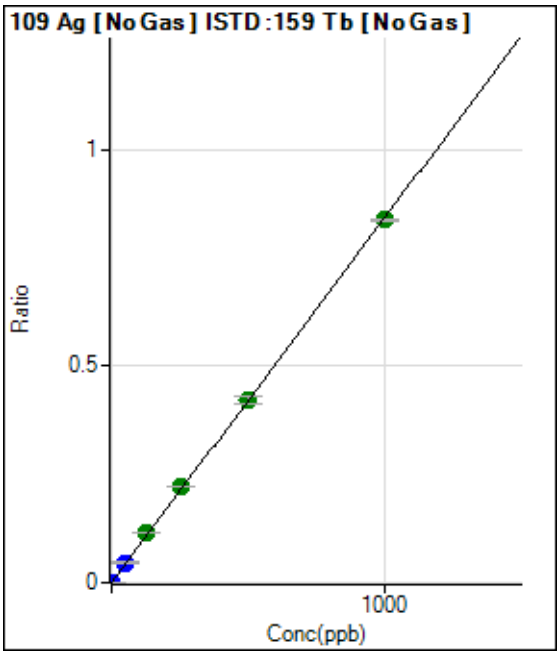



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 35.56 | 0.0000 | P | 5.7 |
| 2 | ☐ | 1.000 | 0.994 | 432.23 | 0.0000 | P | 8.4 |
| 3 | ☐ | 50.000 | 53.773 | 21583.92 | 0.0007 | P | 1.5 |
| 4 | ☐ | 125.000 | 135.730 | 54281.00 | 0.0018 | P | 2.1 |
| 5 | ☐ | 250.000 | 261.168 | 103363.65 | 0.0035 | P | 0.7 |
| 6 | ☐ | 500.000 | 494.973 | 199314.34 | 0.0066 | P | 3.3 |
| 7 | ☐ | 1000.000 | 998.192 | 421629.41 | 0.0133 | P | 0.7 |
| 8 | ☐ | | | 211.11 | 0.0000 | P | 5.9 |

y = 1.3342E-005 * x + 1.1985E-006
R = 0.9999
DL = 0.01524

Weight: <None>
Min Conc: 0

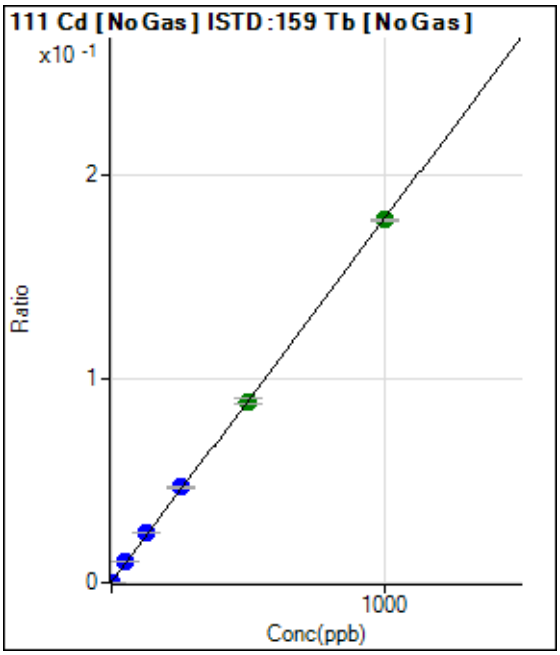
Reviewed By:Mohan
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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 61.11 | 0.0000 | P | 16.6 |
| 2 | ☐ | 1.000 | 1.080 | 27231.21 | 0.0009 | P | 1.1 |
| 3 | ☐ | 50.000 | 55.351 | 1399750.33 | 0.0466 | P | 0.4 |
| 4 | ☐ | 125.000 | 136.115 | 3433078.80 | 0.1146 | A | 0.5 |
| 5 | ☐ | 250.000 | 262.132 | 6544698.03 | 0.2207 | A | 0.4 |
| 6 | ☐ | 500.000 | 500.222 | 12708178.15 | 0.4212 | A | 3.8 |
| 7 | ☐ | 1000.000 | 995.199 | 26525261.83 | 0.8379 | A | 0.8 |
| 8 | ☐ | | | 3345.97 | 0.0001 | P | 16.6 |

y = 8.4194E-004 * x + 2.0597E-006
R = 0.9999
DL = 0.00122

Weight: <None>
Min Conc: 0

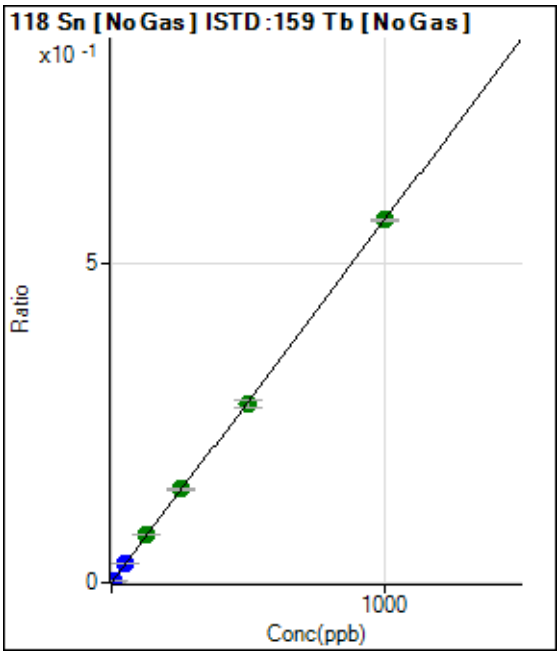



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 6765.84 | 0.0002 | P | 0.4 |
| 2 | ☐ | 1.000 | 1.107 | 12712.06 | 0.0004 | P | 2.7 |
| 3 | ☐ | 50.000 | 54.439 | 298132.87 | 0.0099 | P | 0.3 |
| 4 | ☐ | 125.000 | 135.315 | 728953.70 | 0.0243 | P | 0.4 |
| 5 | ☐ | 250.000 | 261.225 | 1386765.42 | 0.0468 | P | 0.5 |
| 6 | ☐ | 500.000 | 497.273 | 2680030.12 | 0.0888 | A | 3.6 |
| 7 | ☐ | 1000.000 | 997.046 | 5630206.94 | 0.1778 | A | 0.3 |
| 8 | ☐ | | | 7601.94 | 0.0003 | P | 1.8 |

y = 1.7815E-004 * x + 2.2804E-004
R = 0.9999
DL = 0.01535

Weight: <None>
Min Conc: 0

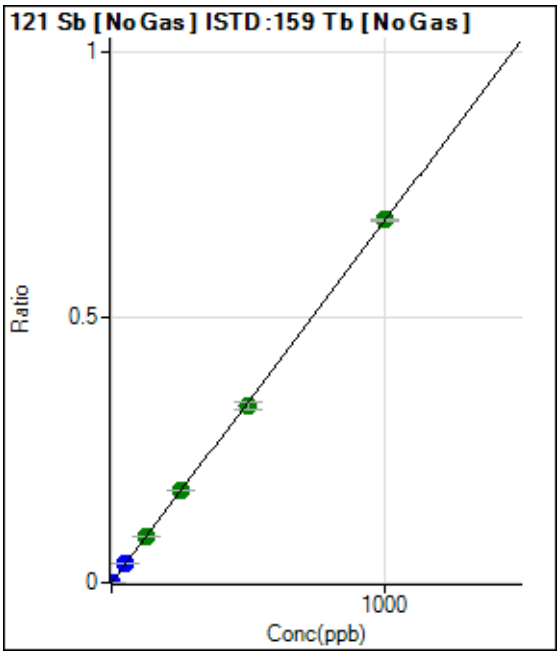
Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 7476.46 | 0.0003 | P | 1.2 |
| 2 | ☐ | 5.000 | 5.294 | 97396.36 | 0.0033 | P | 2.1 |
| 3 | ☐ | 50.000 | 52.803 | 908133.82 | 0.0302 | P | 0.3 |
| 4 | ☐ | 125.000 | 131.447 | 2243522.39 | 0.0749 | A | 0.9 |
| 5 | ☐ | 250.000 | 257.552 | 4344376.50 | 0.1465 | A | 0.7 |
| 6 | ☐ | 500.000 | 492.808 | 8450557.44 | 0.2801 | A | 4.5 |
| 7 | ☐ | 1000.000 | 1000.761 | 17997701.12 | 0.5685 | A | 0.8 |
| 8 | ☐ | | | 8858.38 | 0.0003 | P | 4.7 |

y = 5.6784E-004 * x + 2.5200E-004
R = 0.9999
DL = 0.01604

Weight: <None>
Min Conc: 0

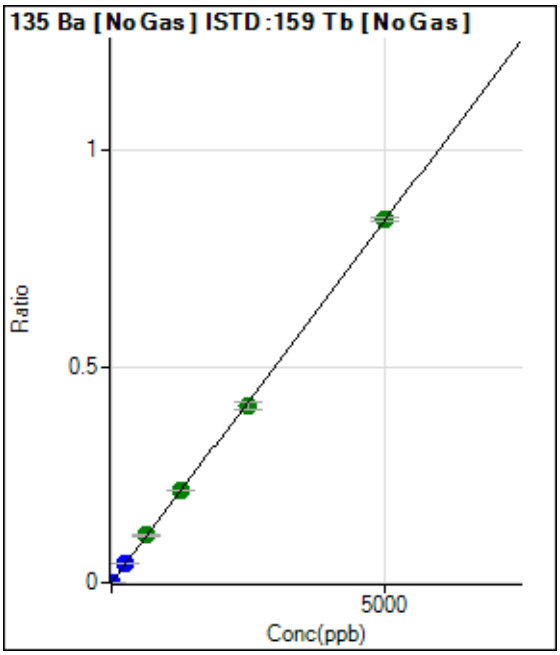



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 84.45 | 0.0000 | P | 8.4 |
| 2 | ☐ | 2.000 | 2.105 | 42964.04 | 0.0014 | P | 0.8 |
| 3 | ☐ | 50.000 | 51.876 | 1061823.83 | 0.0354 | P | 0.0 |
| 4 | ☐ | 125.000 | 129.821 | 2650166.85 | 0.0885 | A | 0.4 |
| 5 | ☐ | 250.000 | 254.767 | 5148260.48 | 0.1736 | A | 0.7 |
| 6 | ☐ | 500.000 | 488.974 | 10053713.88 | 0.3332 | A | 4.3 |
| 7 | ☐ | 1000.000 | 1003.625 | 21651112.45 | 0.6839 | A | 0.7 |
| 8 | ☐ | | | 10332.70 | 0.0003 | P | 7.6 |

y = 6.8144E-004 * x + 2.8466E-006
R = 0.9999
DL = 0.001052

Weight: <None>
Min Conc: 0

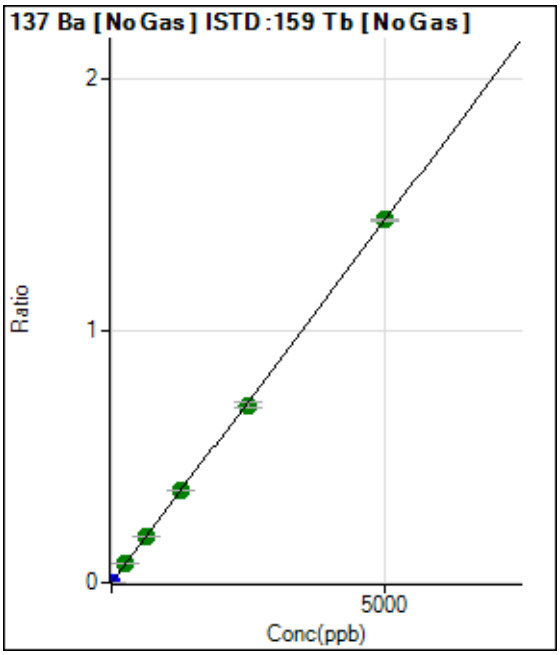
Reviewed By:Mohan
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Inst Id :P7




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 365.57 | 0.0000 | P | 5.2 |
| 2 | ☐ | 10.000 | 10.180 | 51291.93 | 0.0017 | P | 0.9 |
| 3 | ☐ | 250.000 | 257.568 | 1294941.44 | 0.0431 | P | 0.3 |
| 4 | ☐ | 625.000 | 652.440 | 3270959.50 | 0.1092 | A | 1.2 |
| 5 | ☐ | 1250.000 | 1269.125 | 6298248.45 | 0.2124 | A | 0.5 |
| 6 | ☐ | 2500.000 | 2449.711 | 12369377.73 | 0.4100 | A | 4.1 |
| 7 | ☐ | 5000.000 | 5016.555 | 26576200.99 | 0.8395 | A | 1.1 |
| 8 | ☐ | | | 10766.40 | 0.0004 | P | 4.6 |

y = 1.6734E-004 * x + 1.2321E-005
R = 0.9999
DL = 0.01144

Weight: <None>
Min Conc: 0

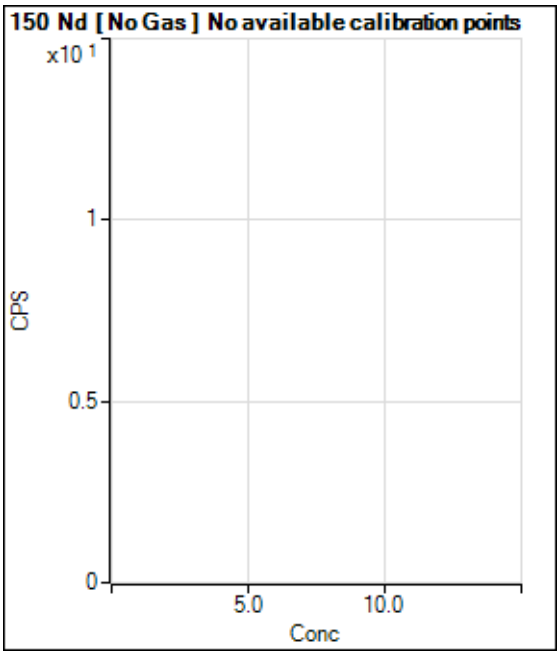



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 656.69 | 0.0000 | P | 7.0 |
| 2 | ☐ | 10.000 | 10.414 | 89956.51 | 0.0030 | P | 0.6 |
| 3 | ☐ | 250.000 | 256.941 | 2214184.90 | 0.0737 | A | 0.5 |
| 4 | ☐ | 625.000 | 647.018 | 5559952.42 | 0.1856 | A | 0.7 |
| 5 | ☐ | 1250.000 | 1274.214 | 10838512.34 | 0.3655 | A | 0.3 |
| 6 | ☐ | 2500.000 | 2456.208 | 21259790.38 | 0.7045 | A | 3.5 |
| 7 | ☐ | 5000.000 | 5012.743 | 45516945.99 | 1.4378 | A | 0.5 |
| 8 | ☐ | | | 18644.57 | 0.0006 | P | 4.5 |

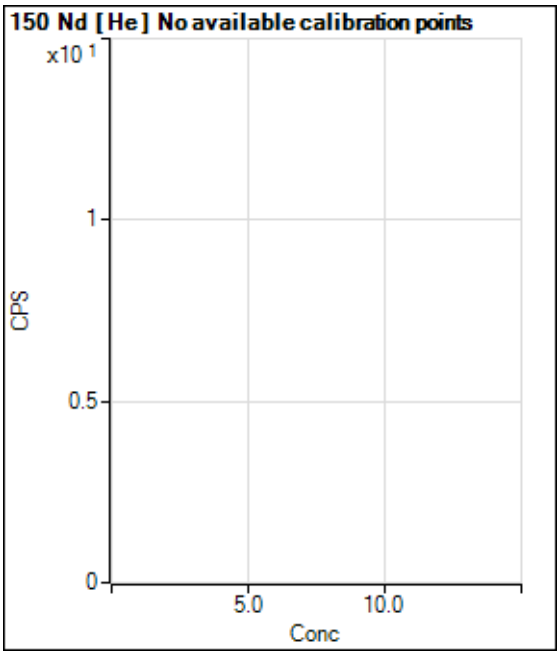
y = 2.8682E-004 * x + 2.2131E-005
R = 0.9999
DL = 0.0163

Weight: <None>
Min Conc: 0

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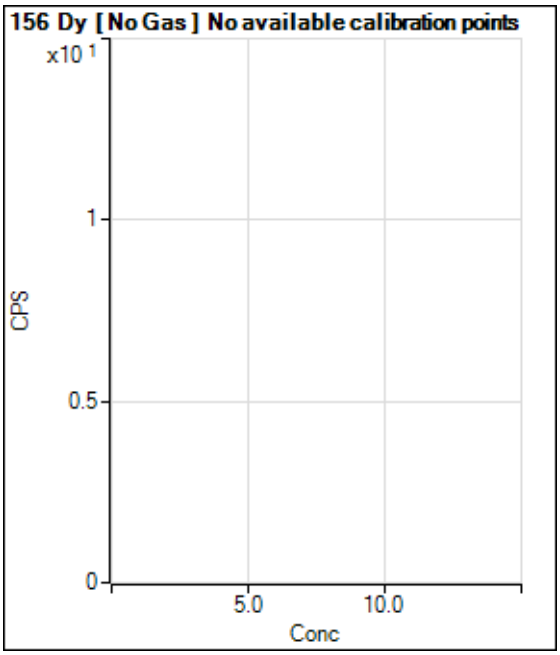



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 15.56 | | P | 12.4 |
| 2 | ☐ | | | 12.22 | | P | 68.7 |
| 3 | ☐ | | | 94.44 | | P | 19.4 |
| 4 | ☐ | | | 200.00 | | P | 13.0 |
| 5 | ☐ | | | 348.90 | | P | 10.3 |
| 6 | ☐ | | | 684.47 | | P | 1.6 |
| 7 | ☐ | | | 1394.53 | | P | 5.5 |
| 8 | ☐ | | | 476.68 | | P | 0.7 |

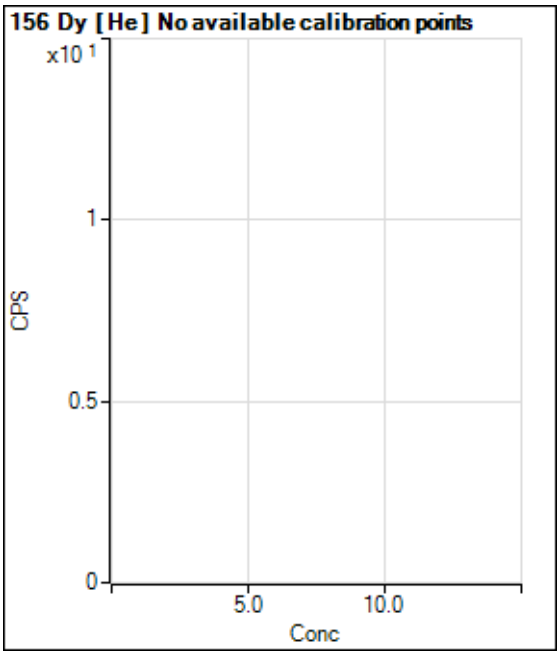



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 6.66 | | P | 86.6 |
| 2 | ☐ | | | 7.78 | | P | 65.5 |
| 3 | ☐ | | | 21.11 | | P | 39.7 |
| 4 | ☐ | | | 58.89 | | P | 11.8 |
| 5 | ☐ | | | 94.44 | | P | 5.4 |
| 6 | ☐ | | | 188.89 | | P | 25.5 |
| 7 | ☐ | | | 363.34 | | P | 18.6 |
| 8 | ☐ | | | 257.79 | | P | 9.1 |

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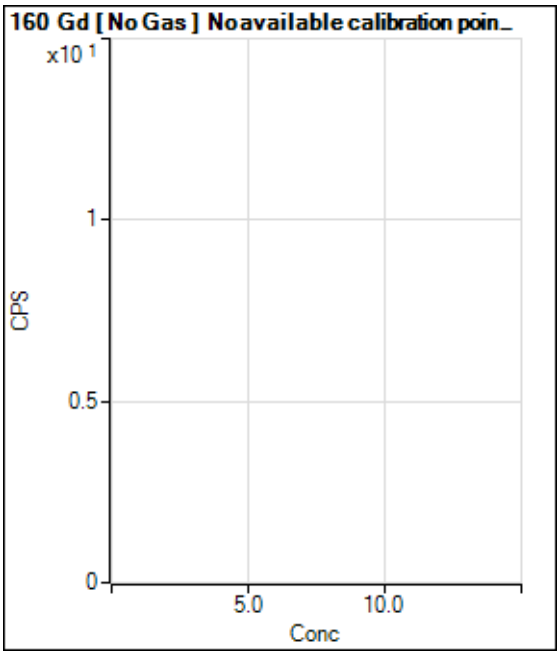



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 31.11 | | P | 27.0 |
| 2 | ☐ | | | 37.78 | | P | 13.5 |
| 3 | ☐ | | | 46.67 | | P | 12.4 |
| 4 | ☐ | | | 84.45 | | P | 42.2 |
| 5 | ☐ | | | 112.23 | | P | 13.4 |
| 6 | ☐ | | | 234.45 | | P | 9.5 |
| 7 | ☐ | | | 487.79 | | P | 11.6 |
| 8 | ☐ | | | 916.70 | | P | 5.2 |

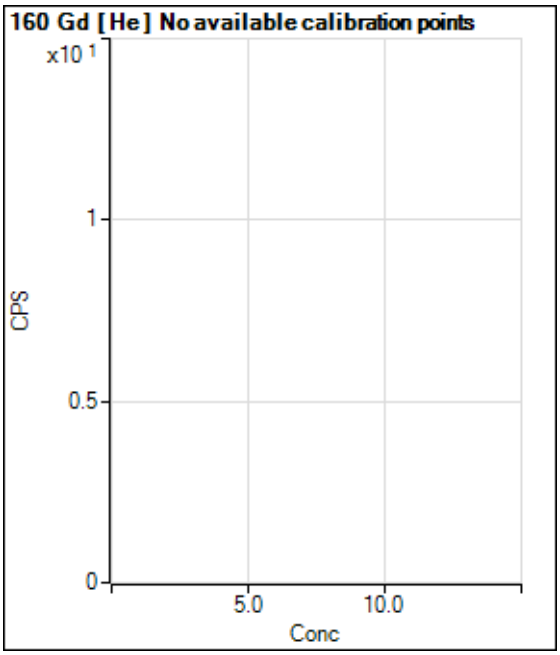



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 17.78 | | P | 39.0 |
| 2 | ☐ | | | 21.11 | | P | 96.5 |
| 3 | ☐ | | | 80.00 | | P | 18.2 |
| 4 | ☐ | | | 173.34 | | P | 17.6 |
| 5 | ☐ | | | 365.57 | | P | 6.5 |
| 6 | ☐ | | | 741.14 | | P | 9.2 |
| 7 | ☐ | | | 1376.75 | | P | 3.2 |
| 8 | ☐ | | | 678.91 | | P | 9.9 |

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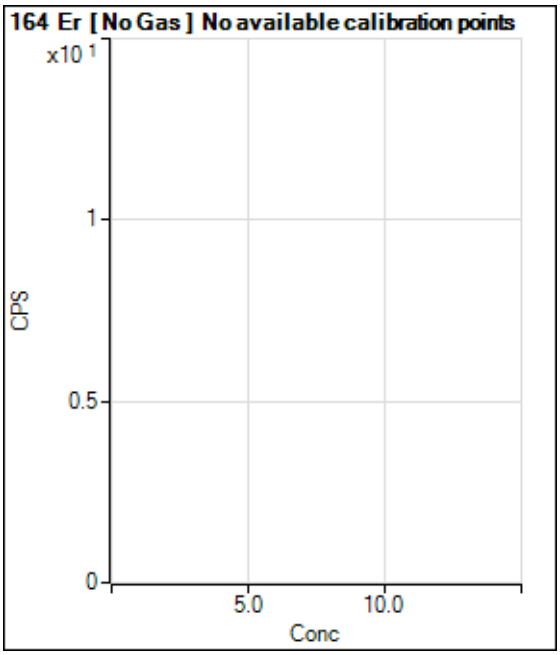



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 143.34 | | P | 6.2 |
| 2 | ☐ | | | 133.34 | | P | 2.5 |
| 3 | ☐ | | | 152.22 | | P | 27.7 |
| 4 | ☐ | | | 164.45 | | P | 17.7 |
| 5 | ☐ | | | 215.56 | | P | 7.8 |
| 6 | ☐ | | | 298.89 | | P | 1.3 |
| 7 | ☐ | | | 421.12 | | P | 1.8 |
| 8 | ☐ | | | 864.48 | | P | 5.5 |

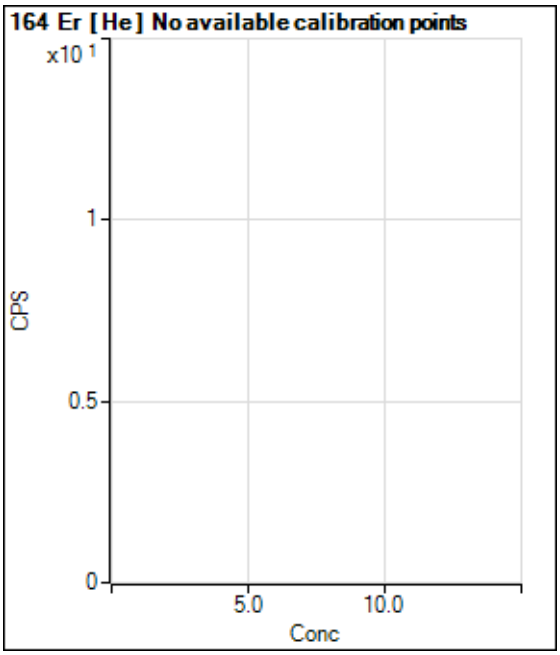



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 1368.97 | | P | 4.3 |
| 2 | ☐ | | | 1265.63 | | P | 1.3 |
| 3 | ☐ | | | 1261.18 | | P | 2.6 |
| 4 | ☐ | | | 1287.85 | | P | 3.4 |
| 5 | ☐ | | | 1184.51 | | P | 1.3 |
| 6 | ☐ | | | 1290.07 | | P | 1.2 |
| 7 | ☐ | | | 1392.31 | | P | 2.2 |
| 8 | ☐ | | | 1786.80 | | P | 4.3 |

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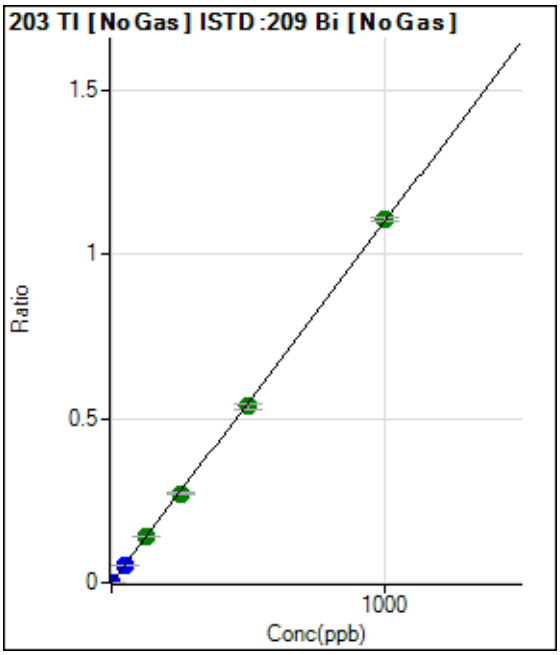



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 100.00 | | P | 31.8 |
| 2 | ☐ | | | 117.78 | | P | 11.4 |
| 3 | ☐ | | | 151.11 | | P | 8.4 |
| 4 | ☐ | | | 166.67 | | P | 13.9 |
| 5 | ☐ | | | 188.89 | | P | 4.4 |
| 6 | ☐ | | | 304.45 | | P | 7.0 |
| 7 | ☐ | | | 475.57 | | P | 2.8 |
| 8 | ☐ | | | 991.16 | | P | 5.7 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | | | 84.45 | | P | 16.0 |
| 2 | ☐ | | | 97.78 | | P | 16.1 |
| 3 | ☐ | | | 95.55 | | P | 7.3 |
| 4 | ☐ | | | 124.45 | | P | 19.4 |
| 5 | ☐ | | | 154.45 | | P | 21.3 |
| 6 | ☐ | | | 192.23 | | P | 18.2 |
| 7 | ☐ | | | 313.34 | | P | 19.2 |
| 8 | ☐ | | | 698.91 | | P | 2.2 |

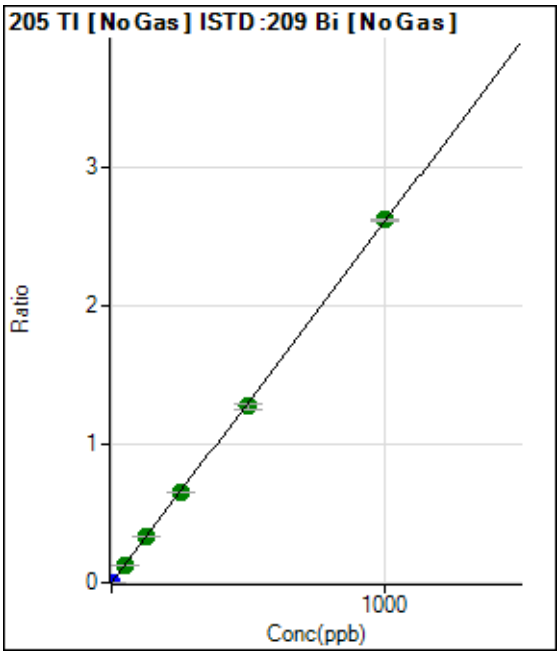
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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 288.89 | 0.0000 | P | 15.2 |
| 2 | ☐ | 1.000 | 0.989 | 19489.62 | 0.0011 | P | 0.3 |
| 3 | ☐ | 50.000 | 49.908 | 969068.03 | 0.0548 | P | 0.6 |
| 4 | ☐ | 125.000 | 126.206 | 2437381.96 | 0.1386 | A | 0.3 |
| 5 | ☐ | 250.000 | 247.733 | 4755980.03 | 0.2721 | A | 0.7 |
| 6 | ☐ | 500.000 | 489.658 | 9451032.01 | 0.5378 | A | 3.0 |
| 7 | ☐ | 1000.000 | 1005.592 | 19917719.70 | 1.1044 | A | 1.2 |
| 8 | ☐ | | | 1443.43 | 0.0001 | P | 30.2 |

y = 0.0011 * x + 1.6556E-005
R = 0.9999
DL = 0.006854

Weight: <None>
Min Conc: 0

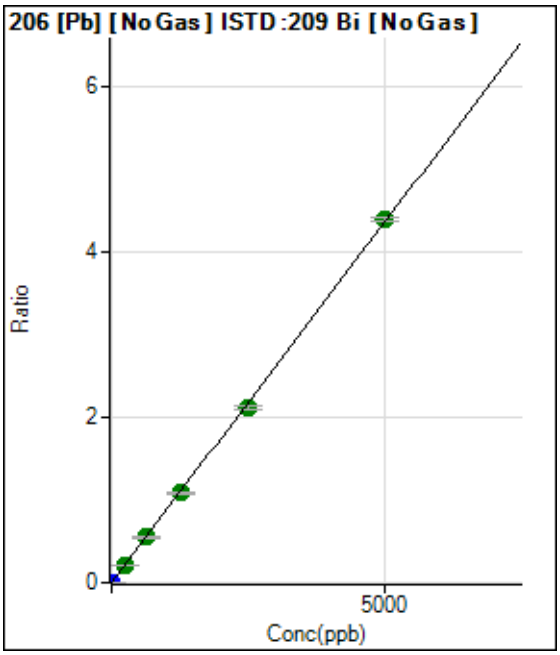



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 658.91 | 0.0000 | P | 4.2 |
| 2 | ☐ | 1.000 | 0.976 | 45578.31 | 0.0026 | P | 1.5 |
| 3 | ☐ | 50.000 | 49.653 | 2285858.56 | 0.1293 | A | 0.6 |
| 4 | ☐ | 125.000 | 125.997 | 5769470.19 | 0.3281 | A | 0.8 |
| 5 | ☐ | 250.000 | 248.785 | 11324242.47 | 0.6479 | A | 0.6 |
| 6 | ☐ | 500.000 | 488.105 | 22338895.78 | 1.2711 | A | 2.5 |
| 7 | ☐ | 1000.000 | 1006.144 | 47251338.74 | 2.6200 | A | 0.8 |
| 8 | ☐ | | | 3473.83 | 0.0002 | P | 24.2 |

y = 0.0026 * x + 3.7760E-005
R = 0.9999
DL = 0.001811

Weight: <None>
Min Conc: 0

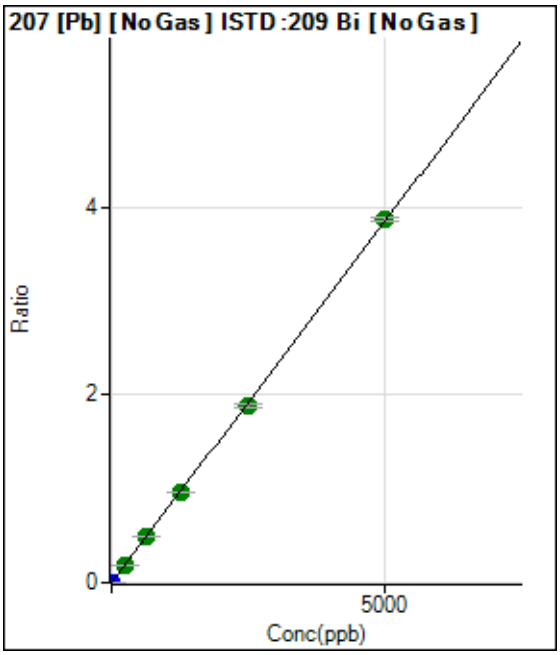
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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 2162.42 | 0.0001 | P | 8.9 |
| 2 | ☐ | 1.000 | 0.977 | 17205.43 | 0.0010 | P | 3.1 |
| 3 | ☐ | 250.000 | 246.386 | 3790455.22 | 0.2145 | A | 0.4 |
| 4 | ☐ | 625.000 | 629.821 | 9636562.01 | 0.5481 | A | 1.8 |
| 5 | ☐ | 1250.000 | 1240.897 | 18872271.11 | 1.0797 | A | 1.4 |
| 6 | ☐ | 2500.000 | 2434.887 | 37231243.05 | 2.1185 | A | 2.7 |
| 7 | ☐ | 5000.000 | 5034.410 | 78991917.16 | 4.3800 | A | 1.0 |
| 8 | ☐ | | | 10800.00 | 0.0007 | P | 13.4 |

y = 8.7000E-004 * x + 1.2389E-004
R = 0.9999
DL = 0.03796

Weight: <None>
Min Conc: 0

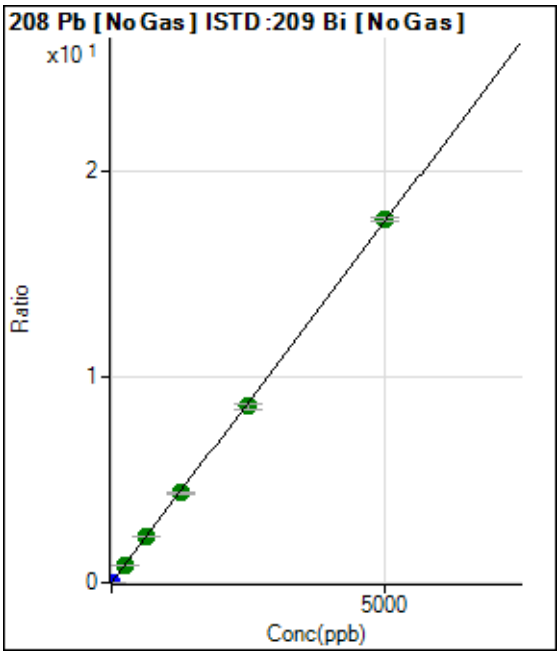



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 1834.59 | 0.0001 | P | 4.1 |
| 2 | ☐ | 1.000 | 0.973 | 15102.95 | 0.0009 | P | 2.1 |
| 3 | ☐ | 250.000 | 249.037 | 3389876.76 | 0.1918 | A | 0.3 |
| 4 | ☐ | 625.000 | 630.371 | 8533573.62 | 0.4853 | A | 0.9 |
| 5 | ☐ | 1250.000 | 1245.528 | 16760072.11 | 0.9589 | A | 0.9 |
| 6 | ☐ | 2500.000 | 2448.618 | 33126402.84 | 1.8850 | A | 2.9 |
| 7 | ☐ | 5000.000 | 5026.186 | 69776082.85 | 3.8691 | A | 1.2 |
| 8 | ☐ | | | 9108.73 | 0.0006 | P | 12.6 |

y = 7.6976E-004 * x + 1.0513E-004
R = 0.9999
DL = 0.01679

Weight: <None>
Min Conc: 0

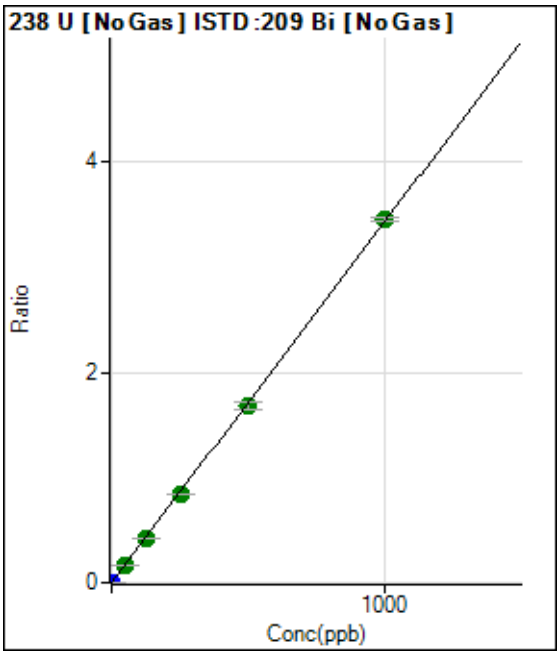
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| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 8475.57 | 0.0005 | P | 3.1 |
| 2 | ☐ | 1.000 | 0.979 | 69104.82 | 0.0039 | P | 1.7 |
| 3 | ☐ | 250.000 | 247.796 | 15333607.97 | 0.8676 | A | 0.2 |
| 4 | ☐ | 625.000 | 632.381 | 38917695.88 | 2.2134 | A | 1.1 |
| 5 | ☐ | 1250.000 | 1243.591 | 76073161.78 | 4.3522 | A | 0.8 |
| 6 | ☐ | 2500.000 | 2444.347 | 150323693.59 | 8.5541 | A | 3.2 |
| 7 | ☐ | 5000.000 | 5028.616 | 317359665.27 | 17.5974 | A | 1.1 |
| 8 | ☐ | | | 42310.94 | 0.0027 | P | 13.4 |

y = 0.0035 * x + 4.8565E-004
R = 0.9999
DL = 0.01284

Weight: <None>
Min Conc: 0

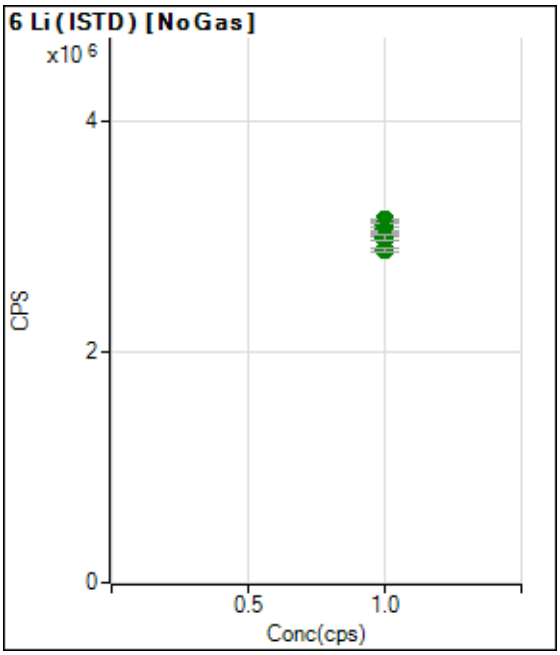



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 0.000 | 0.000 | 98.89 | 0.0000 | P | 27.2 |
| 2 | ☐ | 1.000 | 0.924 | 56127.57 | 0.0032 | P | 0.6 |
| 3 | ☐ | 50.000 | 48.148 | 2918075.86 | 0.1651 | A | 0.2 |
| 4 | ☐ | 125.000 | 124.129 | 7484017.18 | 0.4257 | A | 1.1 |
| 5 | ☐ | 250.000 | 245.345 | 14705434.37 | 0.8413 | A | 1.4 |
| 6 | ☐ | 500.000 | 490.921 | 29581837.89 | 1.6834 | A | 3.6 |
| 7 | ☐ | 1000.000 | 1005.905 | 62207015.74 | 3.4493 | A | 0.9 |
| 8 | ☐ | | | 4251.90 | 0.0003 | P | 33.9 |

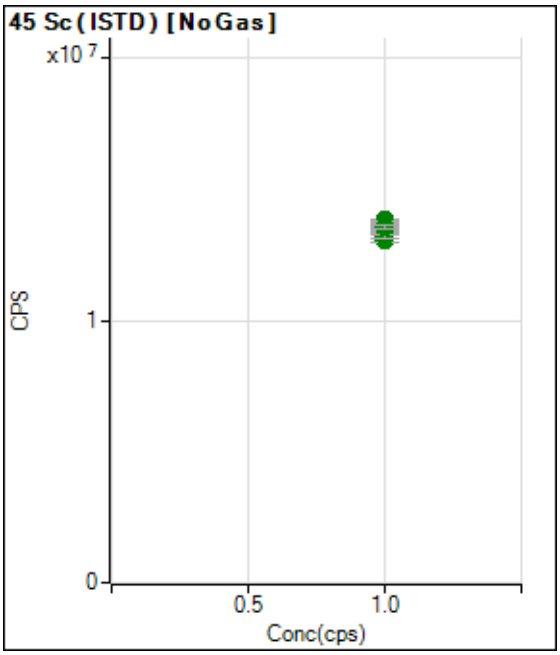
y = 0.0034 * x + 5.6680E-006
R = 0.9999
DL = 0.001349

Weight: <None>
Min Conc: 0

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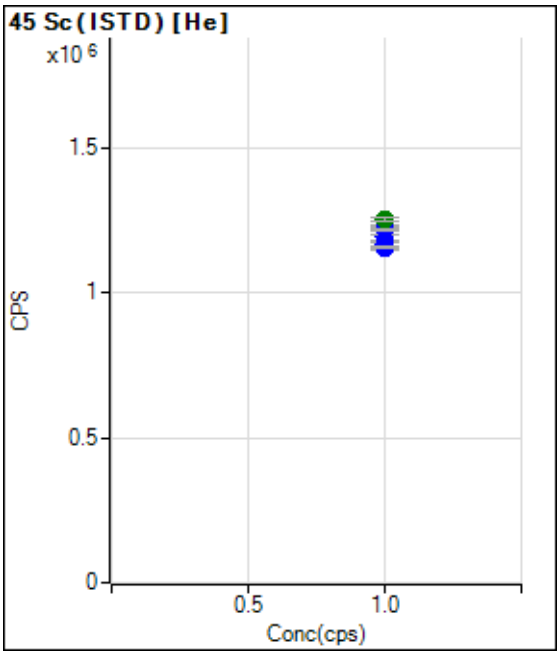



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 3017816.39 | | A | 1.2 |
| 2 | ☐ | 1.000 | | 3077904.93 | | A | 1.1 |
| 3 | ☐ | 1.000 | | 3147726.37 | | A | 0.8 |
| 4 | ☐ | 1.000 | | 3102925.96 | | A | 0.6 |
| 5 | ☐ | 1.000 | | 3049594.05 | | A | 0.6 |
| 6 | ☐ | 1.000 | | 3008278.45 | | A | 2.1 |
| 7 | ☐ | 1.000 | | 2989729.15 | | A | 1.7 |
| 8 | ☐ | 1.000 | | 2891261.38 | | A | 1.4 |

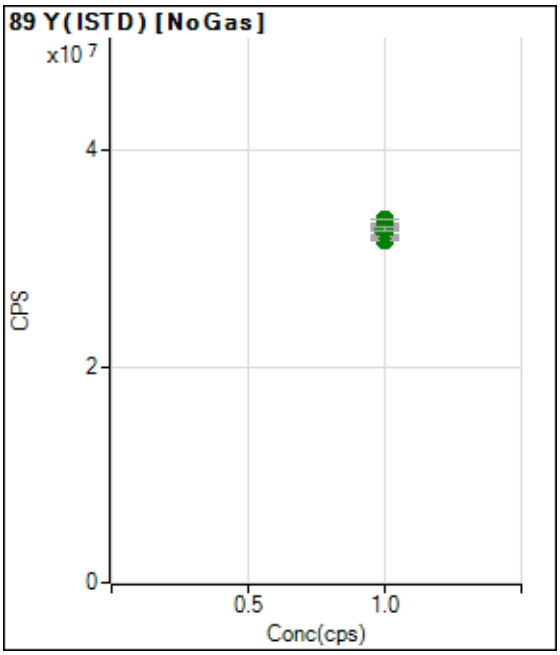



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 13729267.85 | | A | 0.4 |
| 2 | ☐ | 1.000 | | 13842734.66 | | A | 0.1 |
| 3 | ☐ | 1.000 | | 13768054.24 | | A | 0.2 |
| 4 | ☐ | 1.000 | | 13412995.35 | | A | 0.5 |
| 5 | ☐ | 1.000 | | 13053008.27 | | A | 0.7 |
| 6 | ☐ | 1.000 | | 13215477.30 | | A | 1.1 |
| 7 | ☐ | 1.000 | | 13587558.55 | | A | 0.7 |
| 8 | ☐ | 1.000 | | 13547482.99 | | A | 1.2 |

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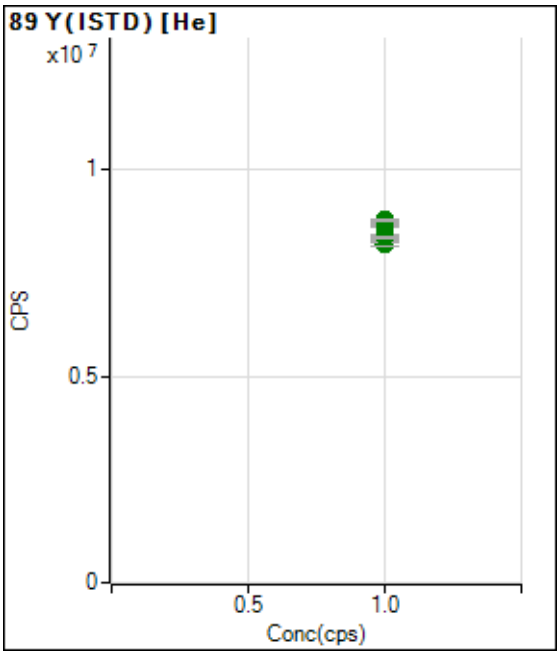



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 1227834.54 | | P | 0.3 |
| 2 | ☐ | 1.000 | | 1232472.23 | | P | 0.4 |
| 3 | ☐ | 1.000 | | 1193667.82 | | P | 1.5 |
| 4 | ☐ | 1.000 | | 1168412.58 | | P | 1.1 |
| 5 | ☐ | 1.000 | | 1151953.69 | | P | 0.8 |
| 6 | ☐ | 1.000 | | 1158141.66 | | P | 0.6 |
| 7 | ☐ | 1.000 | | 1218763.75 | | P | 0.5 |
| 8 | ☐ | 1.000 | | 1252063.68 | | A | 1.2 |

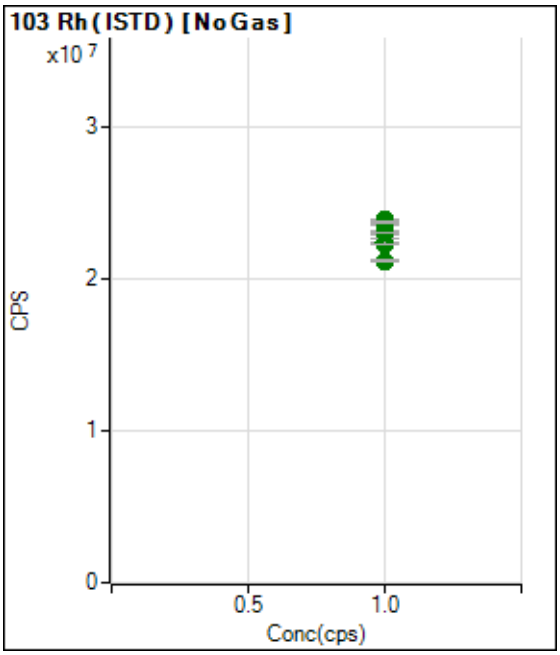



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 33070572.56 | | A | 1.1 |
| 2 | ☐ | 1.000 | | 33345114.78 | | A | 0.1 |
| 3 | ☐ | 1.000 | | 32966905.06 | | A | 0.6 |
| 4 | ☐ | 1.000 | | 32447090.90 | | A | 0.9 |
| 5 | ☐ | 1.000 | | 31727165.09 | | A | 0.6 |
| 6 | ☐ | 1.000 | | 32461448.40 | | A | 2.1 |
| 7 | ☐ | 1.000 | | 33610065.89 | | A | 0.2 |
| 8 | ☐ | 1.000 | | 32758688.95 | | A | 0.7 |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

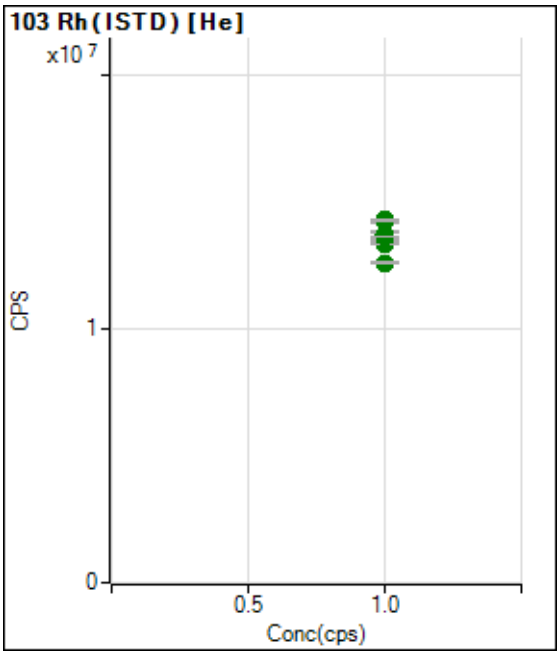



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 8634881.33 | | A | 0.4 |
| 2 | ☐ | 1.000 | | 8720483.07 | | A | 0.3 |
| 3 | ☐ | 1.000 | | 8384346.82 | | A | 1.2 |
| 4 | ☐ | 1.000 | | 8352460.09 | | A | 1.5 |
| 5 | ☐ | 1.000 | | 8199617.93 | | A | 1.0 |
| 6 | ☐ | 1.000 | | 8359475.22 | | A | 1.0 |
| 7 | ☐ | 1.000 | | 8747022.65 | | A | 0.7 |
| 8 | ☐ | 1.000 | | 8783577.23 | | A | 0.7 |

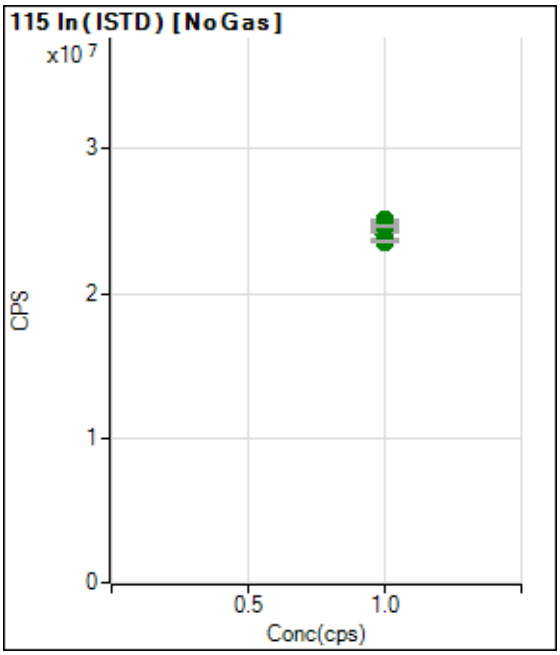



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 23605989.93 | | A | 0.1 |
| 2 | ☐ | 1.000 | | 23873001.59 | | A | 0.4 |
| 3 | ☐ | 1.000 | | 23728401.31 | | A | 0.7 |
| 4 | ☐ | 1.000 | | 22993868.27 | | A | 1.1 |
| 5 | ☐ | 1.000 | | 22313432.72 | | A | 0.6 |
| 6 | ☐ | 1.000 | | 22437709.66 | | A | 2.0 |
| 7 | ☐ | 1.000 | | 23006237.16 | | A | 0.3 |
| 8 | ☐ | 1.000 | | 21179282.60 | | A | 0.5 |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

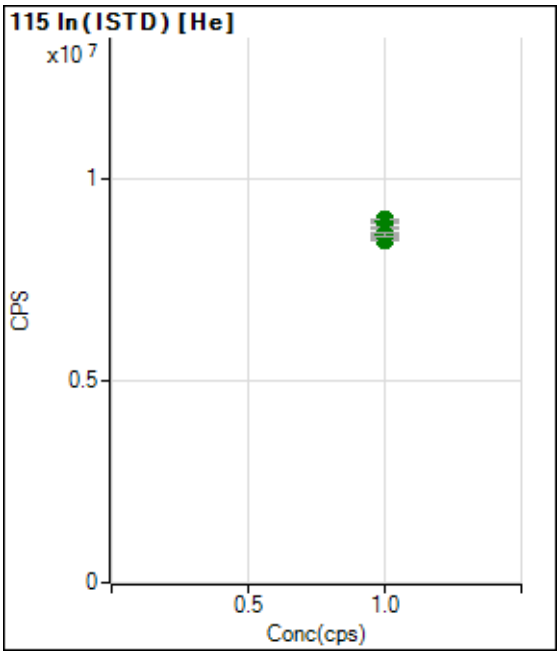



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 14214719.10 | | A | 0.6 |
| 2 | ☐ | 1.000 | | 14275500.76 | | A | 0.5 |
| 3 | ☐ | 1.000 | | 13730096.88 | | A | 2.2 |
| 4 | ☐ | 1.000 | | 13670672.02 | | A | 1.2 |
| 5 | ☐ | 1.000 | | 13439908.55 | | A | 0.5 |
| 6 | ☐ | 1.000 | | 13312432.30 | | A | 0.3 |
| 7 | ☐ | 1.000 | | 13610147.44 | | A | 0.2 |
| 8 | ☐ | 1.000 | | 12594935.51 | | A | 0.7 |

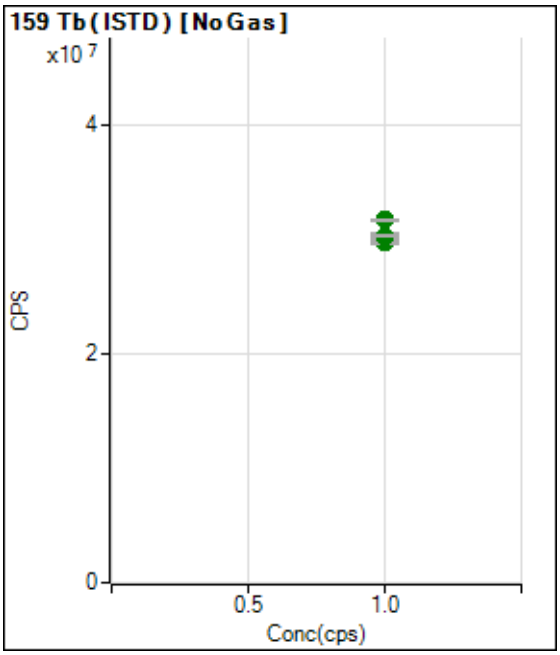



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 24882682.48 | | A | 0.6 |
| 2 | ☐ | 1.000 | | 25076476.16 | | A | 0.7 |
| 3 | ☐ | 1.000 | | 24860596.49 | | A | 0.3 |
| 4 | ☐ | 1.000 | | 24405282.59 | | A | 0.7 |
| 5 | ☐ | 1.000 | | 23813725.04 | | A | 0.3 |
| 6 | ☐ | 1.000 | | 24034911.80 | | A | 1.7 |
| 7 | ☐ | 1.000 | | 24646470.88 | | A | 0.2 |
| 8 | ☐ | 1.000 | | 23556310.26 | | A | 0.4 |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

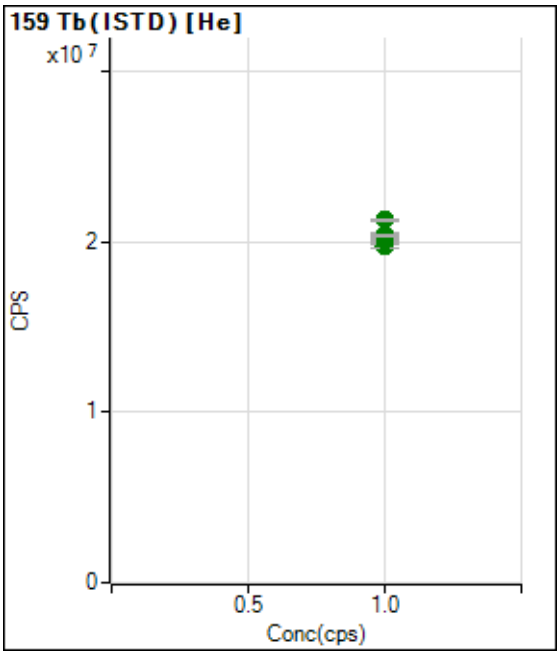



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 8967752.07 | | A | 0.2 |
| 2 | ☐ | 1.000 | | 8935720.24 | | A | 1.0 |
| 3 | ☐ | 1.000 | | 8659770.04 | | A | 1.9 |
| 4 | ☐ | 1.000 | | 8555258.97 | | A | 0.8 |
| 5 | ☐ | 1.000 | | 8547627.47 | | A | 1.2 |
| 6 | ☐ | 1.000 | | 8469465.73 | | A | 0.3 |
| 7 | ☐ | 1.000 | | 8782628.64 | | A | 0.3 |
| 8 | ☐ | 1.000 | | 8606515.38 | | A | 1.2 |

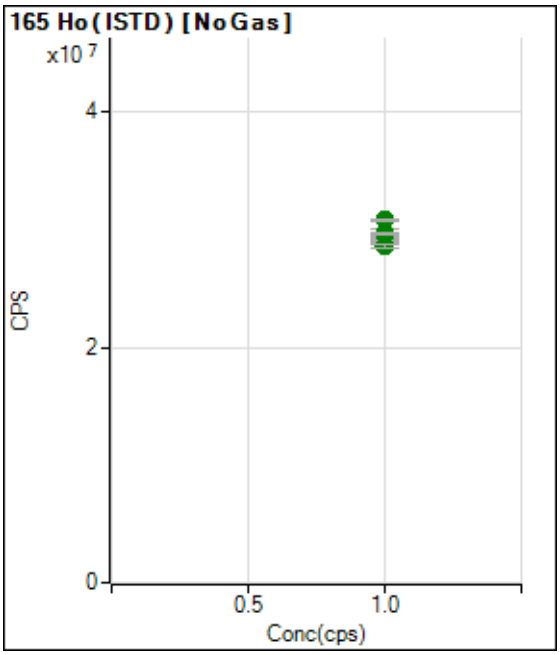



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 29669267.89 | | A | 0.3 |
| 2 | ☐ | 1.000 | | 29893415.39 | | A | 0.4 |
| 3 | ☐ | 1.000 | | 30034968.72 | | A | 0.5 |
| 4 | ☐ | 1.000 | | 29956424.00 | | A | 0.2 |
| 5 | ☐ | 1.000 | | 29653914.28 | | A | 0.4 |
| 6 | ☐ | 1.000 | | 30192570.94 | | A | 2.4 |
| 7 | ☐ | 1.000 | | 31657546.20 | | A | 0.4 |
| 8 | ☐ | 1.000 | | 30260241.77 | | A | 0.6 |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

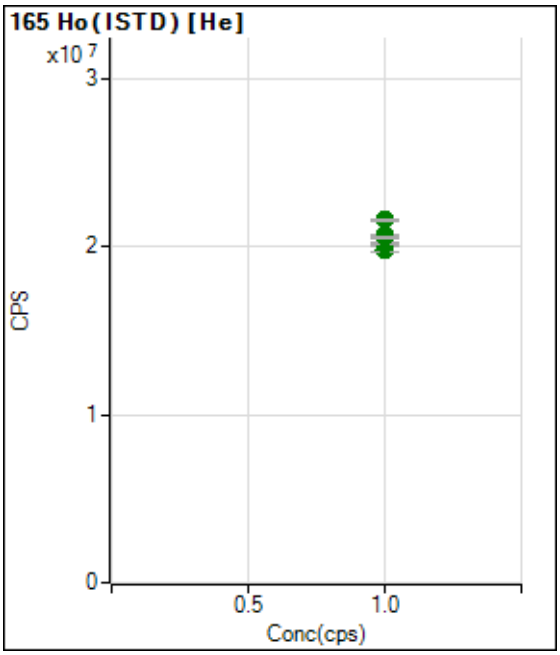



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 20205797.89 | | A | 0.6 |
| 2 | ☐ | 1.000 | | 20193799.42 | | A | 0.1 |
| 3 | ☐ | 1.000 | | 19735515.40 | | A | 0.8 |
| 4 | ☐ | 1.000 | | 20062372.76 | | A | 1.1 |
| 5 | ☐ | 1.000 | | 20023961.37 | | A | 0.2 |
| 6 | ☐ | 1.000 | | 20390363.31 | | A | 0.7 |
| 7 | ☐ | 1.000 | | 21264483.01 | | A | 0.5 |
| 8 | ☐ | 1.000 | | 20297698.86 | | A | 0.6 |

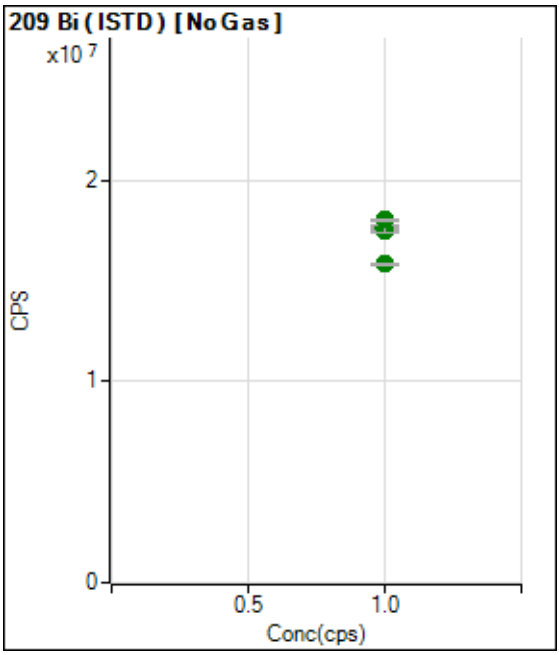



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 28865143.46 | | A | 0.5 |
| 2 | ☐ | 1.000 | | 29163866.79 | | A | 0.4 |
| 3 | ☐ | 1.000 | | 29193522.06 | | A | 0.2 |
| 4 | ☐ | 1.000 | | 28977761.79 | | A | 0.9 |
| 5 | ☐ | 1.000 | | 28548290.96 | | A | 1.1 |
| 6 | ☐ | 1.000 | | 29728830.39 | | A | 2.3 |
| 7 | ☐ | 1.000 | | 30831631.48 | | A | 0.7 |
| 8 | ☐ | 1.000 | | 29704538.73 | | A | 0.5 |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

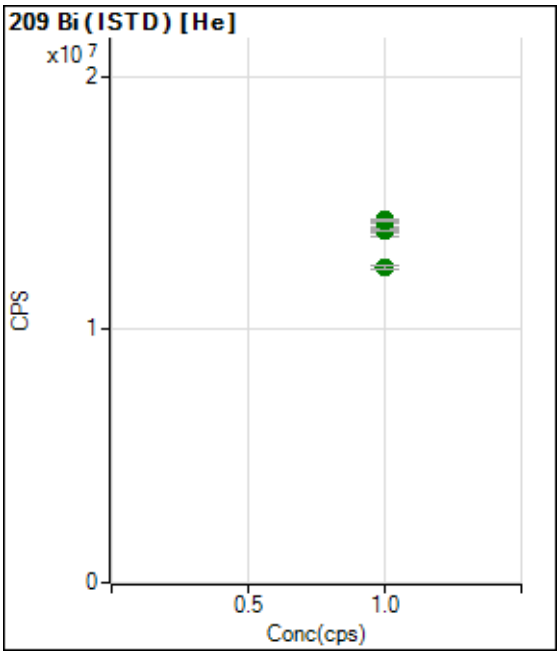



| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 20539721.36 | | A | 0.2 |
| 2 | ☐ | 1.000 | | 20674763.58 | | A | 0.4 |
| 3 | ☐ | 1.000 | | 19826599.84 | | A | 1.9 |
| 4 | ☐ | 1.000 | | 20210763.86 | | A | 0.7 |
| 5 | ☐ | 1.000 | | 20195291.09 | | A | 0.6 |
| 6 | ☐ | 1.000 | | 20547651.50 | | A | 0.1 |
| 7 | ☐ | 1.000 | | 21595417.73 | | A | 0.5 |
| 8 | ☐ | 1.000 | | 20556312.61 | | A | 0.2 |




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 17451097.52 | | A | 0.3 |
| 2 | ☐ | 1.000 | | 17673876.12 | | A | 0.5 |
| 3 | ☐ | 1.000 | | 17673349.04 | | A | 1.2 |
| 4 | ☐ | 1.000 | | 17582455.99 | | A | 0.2 |
| 5 | ☐ | 1.000 | | 17478957.80 | | A | 0.1 |
| 6 | ☐ | 1.000 | | 17580825.71 | | A | 2.0 |
| 7 | ☐ | 1.000 | | 18035179.17 | | A | 0.6 |
| 8 | ☐ | 1.000 | | 15833845.60 | | A | 0.6 |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7




| | Rjct | Conc. | Calc Conc. | CPS | Ratio | Det. | RSD |
|---|---|---|---|---|---|---|---|
| 1 | ☐ | 1.000 | | 14251294.37 | | A | 0.1 |
| 2 | ☐ | 1.000 | | 14343616.18 | | A | 0.9 |
| 3 | ☐ | 1.000 | | 13877975.49 | | A | 2.8 |
| 4 | ☐ | 1.000 | | 13911455.35 | | A | 0.7 |
| 5 | ☐ | 1.000 | | 13938517.57 | | A | 0.8 |
| 6 | ☐ | 1.000 | | 13928534.66 | | A | 0.7 |
| 7 | ☐ | 1.000 | | 14324163.96 | | A | 0.3 |
| 8 | ☐ | 1.000 | | 12482114.81 | | A | 1.1 |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7
ClientSampleId :TUNE001

# US EPA Tune Check Report

| | |
|---|---|
| **Operator Name** | Jaswal |
| **Acq/Data Batch** | D:\Agilent\ICPMH\1\DATA\P7112224 MS2.b |
| **Acq. Date-Time** | 2024-11-22 12:48:43 |
| **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 | | 34441 | 344412.28 | | | 0.471 | 5.000 |
| 24 | | 193710 | 1937095.66 | | | 0.345 | 5.000 |
| 25 | | 23575 | 235747.96 | | | 0.451 | 5.000 |
| 26 | | 26627 | 266271.41 | | | 0.258 | 5.000 |
| 59 | | 213110 | 2131095.60 | | | 0.520 | 5.000 |
| 113 | | 27930 | 279303.80 | | | 0.625 | 5.000 |
| 115 | | 340842 | 3408423.93 | | | 1.176 | 5.000 |
| 206 | | 70045 | 700453.76 | | | 0.997 | 5.000 |
| 207 | | 61133 | 611334.96 | | | 0.960 | 5.000 |
| 208 | | 147176 | 1471763.32 | | | 0.979 | 5.000 |
| 220 | | 0 | 2.20 | | | 25.913 | |

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

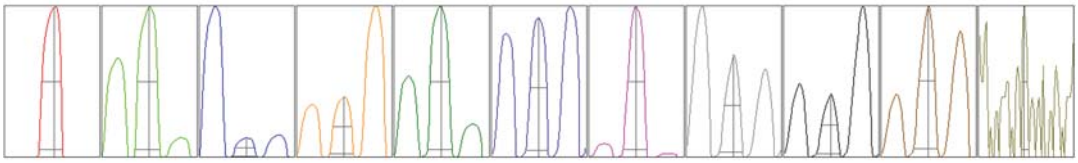
| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|---|---|---|---|---|---|
| 9 | 34552 | 34549 | 34496 | 34448 | 34161 |
| 24 | 192686 | 193905 | 193426 | 194234 | 194297 |
| 25 | 23581 | 23574 | 23650 | 23669 | 23400 |
| 26 | 26582 | 26713 | 26668 | 26633 | 26539 |
| 59 | 214405 | 212536 | 213901 | 213106 | 211600 |
| 113 | 28066 | 28033 | 27913 | 28004 | 27635 |
| 115 | 345070 | 343042 | 340697 | 341003 | 334400 |
| 206 | 70801 | 70235 | 69934 | 70330 | 68927 |
| 207 | 61578 | 61595 | 61135 | 61206 | 60152 |
| 208 | 148694 | 148301 | 147400 | 146280 | 145207 |

# 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 | 60106.76 | 9.10 | 8.90 - 9.10 | |
| 24 | 325828.66 | 24.00 | 23.90 - 24.10 | |
| 25 | 41267.36 | 25.00 | 24.90 - 25.10 | |
| 26 | 47091.06 | 26.00 | 25.90 - 26.10 | |
| 59 | 370253.83 | 59.00 | 58.90 - 59.10 | |
| 113 | 54455.75 | 113.00 | 112.90 - 113.10 | |
| 115 | 666092.80 | 115.00 | 114.90 - 115.10 | |
| 206 | 148574.90 | 206.00 | 205.90 - 206.10 | |
| 207 | 128252.00 | 207.00 | 206.90 - 207.10 | |
| 208 | 303923.98 | 208.00 | 207.90 - 208.10 | |
| 220 | 0.50 | 219.95 | - | |

| Mass | W-50% | W-5% | W-5% (Required) | W-5% (Flag) |
|---|---|---|---|---|
| 9 | 0.60 | 0.736 | 0.900 | |
| 24 | 0.62 | 0.784 | 0.900 | |
| 25 | 0.59 | 0.759 | 0.900 | |
| 26 | 0.59 | 0.745 | 0.900 | |
| 59 | 0.60 | 0.779 | 0.900 | |
| 113 | 0.52 | 0.707 | 0.900 | |
| 115 | 0.52 | 0.758 | 0.900 | |
| 206 | 0.49 | 0.748 | 0.900 | |
| 207 | 0.49 | 0.746 | 0.900 | |
| 208 | 0.50 | 0.768 | 0.900 | |
| 220 | 0.19 | 0.244 | | |

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 | 0.9 |
| 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 | 15.8 V |
| Extract 2 | -135.0 V | Cell Entrance | -30 V | Plate Bias | -35 V |
| Omega Bias | -65 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 | 190 V | | |

**QP Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Mass Gain | 136 | Axis Gain | 0.9973 | QP Bias | -3.0 V |
| Mass Offset | 130 | Axis Offset | 0.17 | | |

**Hardware Settings**

**Torch**

| | | | | | |
|---|---|---|---|---|---|
| Torch H | 0.0 mm | Torch V | 0.5 mm | | |

**EM**

| | | | | | |
|---|---|---|---|---|---|
| Discriminator | 4.8 mV | Analog HV | 2217 V | Pulse HV | 988 V |

**[He]**

**Sensitivity**

| Mass | Conc. [ug/l] | Count | CPS | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD% | RSD% (Required) |
|---|---|---|---|---|---|---|---|
| 59 | | 69176 | 691757.78 | | | 3.563 | |
| 89 | | 104144 | 1041441.21 | | | 3.427 | |
| 205 | | 75248 | 752480.29 | | | 3.030 | |

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

| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|---|---|---|---|---|---|
| 59 | 64817 | 69758 | 70601 | 70644 | 70058 |
| 89 | 97814 | 105645 | 105333 | 106509 | 105420 |
| 205 | 71212 | 75708 | 76472 | 76552 | 76296 |

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 | 9.3 V | Deflect | 3.4 V |

# US EPA Tune Check Report

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7
ClientSampleId :TUNE001

| | | | | | |
|---|---|---|---|---|---|
| Extract 2 | -170.0 V | Cell Entrance | -40 V | Plate Bias | -60 |
| Omega Bias | -80 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 | 136 | Axis Gain | 0.9973 | QP Bias | -13.0 V |
| Mass Offset | 130 | Axis Offset | 0.17 | | |

**Hardware Settings**

**Torch**

| | | | | | |
|---|---|---|---|---|---|
| Torch H | 0.0 mm | Torch V | 0.5 mm | | |

**EM**

| | | | | | |
|---|---|---|---|---|---|
| Discriminator | 4.8 mV | Analog HV | 2217 V | Pulse HV | 988 V |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S00 | Instrumnet Name : | P7 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:25:55 | DataFile Name : | 004CALB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 0.08 | -0.15 | 0.06 | 0.00 | N/A | ppb |
| Antimony | 121-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Arsenic | 75-2 | 0.00 | 0.00 | 0.00 | 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 | -0.01 | 0.00 | N/A | ppb |
| Beryllium | 9-1 | 0.01 | 0.00 | -0.01 | 0.00 | N/A | ppb |
| Bismuth | 209-1 | | | | 100 | | % |
| Bismuth | 209-2 | | | | 100 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.00 | -0.01 | 0.00 | 0.00 | N/A | ppb |
| Cadmium | 106-1 | -0.05 | 0.13 | -0.07 | 0.00 | N/A | ppb |
| Cadmium | 111-1 | 0.00 | 0.01 | 0.00 | 0.00 | N/A | ppb |
| Calcium | 43-1 | -0.58 | 0.90 | -0.32 | 0.00 | N/A | ppb |
| Calcium | 44-1 | -1.21 | 0.73 | 0.48 | 0.00 | N/A | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.02 | -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 | 0.02 | -0.02 | 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 | 0.02 | 0.00 | -0.02 | 0.00 | N/A | ppb |
| Iron | 57-2 | -0.38 | 0.41 | -0.04 | 0.00 | N/A | ppb |
| Iron | 54-2 | -0.39 | 0.46 | -0.06 | 0.00 | N/A | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S00 | Instrumnet Name : | P7 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:25:55 | DataFile Name : | 004CALB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | -0.01 | -0.01 | 0.01 | 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 | 0.10 | -0.04 | -0.06 | 0.00 | N/A | ppb |
| Manganese | 55-2 | 0.05 | -0.04 | -0.02 | 0.00 | N/A | ppb |
| Molybdenum | 94-1 | -0.01 | 0.00 | 0.01 | 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 | -0.01 | 0.02 | 0.00 | N/A | ppb |
| Phosphorus | 31-2 | -17.21 | -16.39 | -14.07 | -15.89 | | ppb |
| Potassium | 39-2 | -0.30 | 0.02 | 0.28 | 0.00 | N/A | ppb |
| Rhodium | 103-1 | | | | 100 | | % |
| Rhodium | 103-2 | | | | 100 | | % |
| Scandium | 45-1 | | | | 100 | | % |
| Scandium | 45-2 | | | | 100 | | % |
| Selenium | 82-1 | 0.20 | 0.19 | -0.39 | 0.00 | N/A | ppb |
| Selenium | 77-2 | -0.06 | 0.13 | -0.06 | 0.00 | N/A | ppb |
| Selenium | 78-2 | 0.00 | -0.27 | 0.27 | 0.00 | N/A | ppb |
| Silicon | 28-1 | -0.07 | 0.08 | -0.01 | 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 | -0.13 | 0.24 | -0.12 | 0.00 | N/A | ppb |
| Strontium | 86-1 | 0.07 | 0.32 | -0.39 | 0.00 | N/A | ppb |
| Strontium | 88-1 | -0.06 | 0.03 | 0.02 | 0.00 | N/A | ppb |
| Sulfur | 34-1 | -47.77 | -12.63 | -62.74 | -41.05 | | 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 | -0.01 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Titanium | 47-1 | -0.01 | 0.02 | -0.01 | 0.00 | N/A | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S00 | Instrumnet Name : | P7 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:25:55 | 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 | 0.04 | -0.07 | 0.03 | 0.00 | N/A | ppb |
| Zirconium | 90-1 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | ppb |
| Zirconium | 91-1 | -0.01 | 0.01 | 0.00 | 0.00 | N/A | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S02 | Instrumnet Name : | P7 |
| Client Sample ID : | S02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:32:32 | DataFile Name : | 006CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 18.96 | 18.68 | 18.55 | 18.73 | 1.13 | ppb |
| Antimony | 121-1 | 2.09 | 2.11 | 2.12 | 2.10 | 0.80 | ppb |
| Arsenic | 75-2 | 1.10 | 1.03 | 1.02 | 1.05 | 4.10 | ppb |
| Barium | 135-1 | 10.08 | 10.25 | 10.21 | 10.18 | 0.87 | ppb |
| Barium | 137-1 | 10.35 | 10.46 | 10.43 | 10.41 | 0.58 | ppb |
| Beryllium | 9-1 | 1.04 | 1.07 | 0.97 | 1.03 | 4.92 | ppb |
| Bismuth | 209-1 | | | | 101 | | % |
| Bismuth | 209-2 | | | | 101 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 1.02 | 1.07 | 0.89 | 0.99 | 9.13 | ppb |
| Cadmium | 106-1 | 1.55 | 1.72 | 0.09 | 1.12 | 79.67 | ppb |
| Cadmium | 111-1 | 1.13 | 1.15 | 1.03 | 1.11 | 5.83 | ppb |
| Calcium | 43-1 | 532.15 | 519.33 | 536.66 | 529.38 | 1.70 | ppb |
| Calcium | 44-1 | 517.88 | 530.37 | 533.34 | 527.20 | 1.56 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 2.11 | 2.11 | 2.07 | 2.10 | 1.01 | ppb |
| Cobalt | 59-2 | 1.06 | 1.08 | 1.10 | 1.08 | 2.10 | ppb |
| Copper | 63-2 | 2.00 | 2.05 | 2.00 | 2.02 | 1.25 | 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 | | | | 101 | | % |
| Holmium | 165-2 | | | | 101 | | % |
| Indium | 115-1 | | | | 101 | | % |
| Indium | 115-2 | | | | 100 | | % |
| Iron | 56-2 | 54.92 | 54.72 | 54.58 | 54.74 | 0.31 | ppb |
| Iron | 57-2 | 56.18 | 58.27 | 58.19 | 57.54 | 2.06 | ppb |
| Iron | 54-2 | 57.31 | 55.85 | 57.38 | 56.85 | 1.52 | ppb |
| Krypton | 83-1 | | | | | | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S02 | Instrumnet Name : | P7 |
| Client Sample ID : | S02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:32:32 | DataFile Name : | 006CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.95 | 0.96 | 1.02 | 0.98 | 3.53 | ppb |
| Lead | 207-1 | 0.96 | 1.00 | 0.96 | 0.97 | 2.40 | ppb |
| Lead | 208-1 | 0.96 | 0.98 | 1.00 | 0.98 | 1.98 | ppb |
| Lithium | 6-1 | | | | 102 | | % |
| Magnesium | 24-2 | 495.90 | 497.80 | 497.48 | 497.06 | 0.20 | ppb |
| Manganese | 55-2 | 0.99 | 1.04 | 1.07 | 1.03 | 3.89 | ppb |
| Molybdenum | 94-1 | 5.79 | 5.73 | 5.84 | 5.79 | 0.90 | ppb |
| Molybdenum | 95-1 | 4.90 | 4.92 | 4.96 | 4.93 | 0.62 | ppb |
| Molybdenum | 96-1 | 4.86 | 4.98 | 4.92 | 4.92 | 1.20 | ppb |
| Molybdenum | 97-1 | 4.85 | 4.94 | 4.95 | 4.91 | 1.10 | ppb |
| Molybdenum | 98-1 | 4.83 | 4.92 | 4.97 | 4.91 | 1.43 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 1.11 | 1.03 | 1.09 | 1.08 | 4.03 | ppb |
| Phosphorus | 31-2 | 21.30 | 13.12 | 13.25 | 15.89 | 29.48 | ppb |
| Potassium | 39-2 | 515.66 | 514.60 | 520.64 | 516.96 | 0.62 | ppb |
| Rhodium | 103-1 | | | | 101 | | % |
| Rhodium | 103-2 | | | | 100 | | % |
| Scandium | 45-1 | | | | 101 | | % |
| Scandium | 45-2 | | | | 100 | | % |
| Selenium | 82-1 | 5.13 | 4.99 | 5.04 | 5.05 | 1.45 | ppb |
| Selenium | 77-2 | 5.45 | 5.35 | 3.47 | 4.75 | 23.49 | ppb |
| Selenium | 78-2 | 4.46 | 5.58 | 4.14 | 4.73 | 15.93 | ppb |
| Silicon | 28-1 | 0.45 | 0.57 | 0.61 | 0.54 | 15.70 | ppb |
| Silver | 107-1 | 1.05 | 1.07 | 1.09 | 1.07 | 1.82 | ppb |
| Silver | 109-1 | 1.07 | 1.08 | 1.09 | 1.08 | 1.12 | ppb |
| Sodium | 23-2 | 494.96 | 494.09 | 495.21 | 494.75 | 0.12 | ppb |
| Strontium | 86-1 | 24.65 | 26.05 | 25.25 | 25.32 | 2.77 | ppb |
| Strontium | 88-1 | 25.32 | 25.49 | 25.69 | 25.50 | 0.73 | ppb |
| Sulfur | 34-1 | 54.62 | 41.28 | 27.24 | 41.05 | 33.36 | ppb |
| Terbium | 159-1 | | | | 101 | | % |
| Terbium | 159-2 | | | | 100 | | % |
| Thallium | 203-1 | 0.99 | 0.99 | 0.99 | 0.99 | 0.32 | ppb |
| Thallium | 205-1 | 0.96 | 0.98 | 0.99 | 0.98 | 1.50 | ppb |
| Tin | 118-1 | 5.15 | 5.37 | 5.35 | 5.29 | 2.29 | ppb |
| Titanium | 47-1 | 4.96 | 5.09 | 4.90 | 4.98 | 1.87 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S02 | Instrumnet Name : | P7 |
| Client Sample ID : | S02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:32:32 | DataFile Name : | 006CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.93 | 0.92 | 0.93 | 0.92 | 0.62 | ppb |
| Vanadium | 51-2 | 5.01 | 5.11 | 5.12 | 5.08 | 1.19 | ppb |
| Yttrium | 89-1 | | | | 101 | | % |
| Yttrium | 89-2 | | | | 101 | | % |
| Zinc | 66-2 | 4.98 | 5.06 | 5.14 | 5.06 | 1.50 | ppb |
| Zirconium | 90-1 | 0.96 | 0.99 | 0.98 | 0.98 | 1.39 | ppb |
| Zirconium | 91-1 | 0.99 | 1.01 | 0.99 | 0.99 | 1.13 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S03 | Instrumnet Name : | P7 |
| Client Sample ID : | S03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:35:48 | DataFile Name : | 007CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1061.63 | 1022.61 | 1025.70 | 1036.65 | 2.09 | ppb |
| Antimony | 121-1 | 51.88 | 51.85 | 51.89 | 51.88 | 0.05 | ppb |
| Arsenic | 75-2 | 53.57 | 51.75 | 52.23 | 52.51 | 1.79 | ppb |
| Barium | 135-1 | 256.89 | 258.50 | 257.32 | 257.57 | 0.32 | ppb |
| Barium | 137-1 | 255.89 | 256.73 | 258.21 | 256.94 | 0.46 | ppb |
| Beryllium | 9-1 | 49.13 | 49.28 | 49.35 | 49.26 | 0.23 | ppb |
| Bismuth | 209-1 | | | | 101 | | % |
| Bismuth | 209-2 | | | | 97 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 53.30 | 54.68 | 53.34 | 53.77 | 1.46 | ppb |
| Cadmium | 106-1 | 54.93 | 54.22 | 54.05 | 54.40 | 0.86 | ppb |
| Cadmium | 111-1 | 54.53 | 54.23 | 54.56 | 54.44 | 0.33 | ppb |
| Calcium | 43-1 | 5289.24 | 5412.33 | 5403.58 | 5368.38 | 1.28 | ppb |
| Calcium | 44-1 | 5026.89 | 5086.74 | 5030.13 | 5047.92 | 0.67 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 53.24 | 51.89 | 51.67 | 52.27 | 1.63 | ppb |
| Cobalt | 59-2 | 54.23 | 52.72 | 52.41 | 53.12 | 1.83 | ppb |
| Copper | 63-2 | 562.81 | 547.74 | 529.28 | 546.61 | 3.07 | 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 | | | | 97 | | % |
| Indium | 115-1 | | | | 100 | | % |
| Indium | 115-2 | | | | 97 | | % |
| Iron | 56-2 | 2767.46 | 2714.49 | 2717.28 | 2733.08 | 1.09 | ppb |
| Iron | 57-2 | 2927.00 | 2824.08 | 2778.67 | 2843.25 | 2.67 | ppb |
| Iron | 54-2 | 2917.38 | 2807.95 | 2817.42 | 2847.58 | 2.13 | ppb |
| Krypton | 83-1 | | | | | | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S03 | Instrumnet Name : | P7 |
| Client Sample ID : | S03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:35:48 | DataFile Name : | 007CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 247.26 | 245.30 | 246.60 | 246.39 | 0.40 | ppb |
| Lead | 207-1 | 248.38 | 249.10 | 249.63 | 249.04 | 0.25 | ppb |
| Lead | 208-1 | 247.64 | 247.44 | 248.30 | 247.80 | 0.18 | ppb |
| Lithium | 6-1 | | | | 104 | | % |
| Magnesium | 24-2 | 5417.71 | 5159.42 | 5117.33 | 5231.48 | 3.11 | ppb |
| Manganese | 55-2 | 533.06 | 512.71 | 526.33 | 524.04 | 1.98 | ppb |
| Molybdenum | 94-1 | 498.72 | 496.95 | 506.45 | 500.71 | 1.01 | ppb |
| Molybdenum | 95-1 | 501.69 | 502.23 | 507.12 | 503.68 | 0.59 | ppb |
| Molybdenum | 96-1 | 503.26 | 503.73 | 506.05 | 504.34 | 0.30 | ppb |
| Molybdenum | 97-1 | 502.74 | 500.57 | 508.38 | 503.90 | 0.80 | ppb |
| Molybdenum | 98-1 | 497.37 | 502.93 | 501.71 | 500.67 | 0.58 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 54.63 | 53.96 | 53.75 | 54.12 | 0.85 | ppb |
| Phosphorus | 31-2 | 1044.30 | 1044.88 | 1013.41 | 1034.20 | 1.74 | ppb |
| Potassium | 39-2 | 2621.80 | 2523.55 | 2514.56 | 2553.30 | 2.33 | ppb |
| Rhodium | 103-1 | | | | 101 | | % |
| Rhodium | 103-2 | | | | 97 | | % |
| Scandium | 45-1 | | | | 100 | | % |
| Scandium | 45-2 | | | | 97 | | % |
| Selenium | 82-1 | 50.89 | 50.85 | 51.98 | 51.24 | 1.25 | ppb |
| Selenium | 77-2 | 53.29 | 52.75 | 53.22 | 53.09 | 0.55 | ppb |
| Selenium | 78-2 | 54.14 | 50.93 | 54.29 | 53.12 | 3.58 | ppb |
| Silicon | 28-1 | 48.87 | 50.09 | 50.87 | 49.94 | 2.01 | ppb |
| Silver | 107-1 | 55.14 | 55.59 | 55.36 | 55.36 | 0.41 | ppb |
| Silver | 109-1 | 55.27 | 55.59 | 55.19 | 55.35 | 0.38 | ppb |
| Sodium | 23-2 | 5465.69 | 5298.22 | 5205.19 | 5323.03 | 2.48 | ppb |
| Strontium | 86-1 | 1262.36 | 1277.83 | 1284.72 | 1274.97 | 0.90 | ppb |
| Strontium | 88-1 | 1258.84 | 1260.22 | 1263.87 | 1260.98 | 0.21 | ppb |
| Sulfur | 34-1 | 1026.68 | 1035.16 | 1035.56 | 1032.47 | 0.49 | ppb |
| Terbium | 159-1 | | | | 101 | | % |
| Terbium | 159-2 | | | | 98 | | % |
| Thallium | 203-1 | 49.60 | 50.19 | 49.93 | 49.91 | 0.59 | ppb |
| Thallium | 205-1 | 49.48 | 50.01 | 49.47 | 49.65 | 0.62 | ppb |
| Tin | 118-1 | 52.69 | 52.77 | 52.95 | 52.80 | 0.26 | ppb |
| Titanium | 47-1 | 506.09 | 495.27 | 507.55 | 502.97 | 1.33 | ppb |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S03 | Instrumnet Name : | P7 |
| Client Sample ID : | S03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:35:48 | DataFile Name : | 007CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 48.10 | 48.24 | 48.11 | 48.15 | 0.17 | ppb |
| Vanadium | 51-2 | 53.45 | 51.16 | 51.00 | 51.87 | 2.64 | ppb |
| Yttrium | 89-1 | | | | 100 | | % |
| Yttrium | 89-2 | | | | 97 | | % |
| Zinc | 66-2 | 547.19 | 530.26 | 528.63 | 535.36 | 1.92 | ppb |
| Zirconium | 90-1 | 49.99 | 49.35 | 50.67 | 50.00 | 1.32 | ppb |
| Zirconium | 91-1 | 50.52 | 50.57 | 51.40 | 50.83 | 0.97 | ppb |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S04 | Instrumnet Name : | P7 |
| Client Sample ID : | S04 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:38:44 | DataFile Name : | 008CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2510.35 | 2574.37 | 2579.70 | 2554.81 | 1.51 | ppb |
| Antimony | 121-1 | 129.89 | 129.25 | 130.32 | 129.82 | 0.41 | ppb |
| Arsenic | 75-2 | 128.90 | 127.81 | 131.82 | 129.51 | 1.60 | ppb |
| Barium | 135-1 | 644.90 | 651.75 | 660.67 | 652.44 | 1.21 | ppb |
| Barium | 137-1 | 642.08 | 649.59 | 649.38 | 647.02 | 0.66 | ppb |
| Beryllium | 9-1 | 123.51 | 124.61 | 125.39 | 124.50 | 0.76 | ppb |
| Bismuth | 209-1 | | | | 101 | | % |
| Bismuth | 209-2 | | | | 98 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 132.94 | 135.67 | 138.59 | 135.73 | 2.08 | ppb |
| Cadmium | 106-1 | 133.59 | 135.31 | 136.00 | 134.96 | 0.92 | ppb |
| Cadmium | 111-1 | 134.90 | 135.12 | 135.92 | 135.31 | 0.40 | ppb |
| Calcium | 43-1 | 13379.83 | 13572.35 | 13684.27 | 13545.48 | 1.14 | ppb |
| Calcium | 44-1 | 12610.46 | 12914.82 | 12849.96 | 12791.75 | 1.25 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 131.54 | 130.23 | 130.95 | 130.91 | 0.50 | ppb |
| Cobalt | 59-2 | 132.90 | 131.94 | 133.08 | 132.64 | 0.46 | ppb |
| Copper | 63-2 | 1337.97 | 1321.77 | 1349.79 | 1336.51 | 1.05 | 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 | | | | 98 | | % |
| Indium | 115-1 | | | | 98 | | % |
| Indium | 115-2 | | | | 95 | | % |
| Iron | 56-2 | 6809.47 | 6705.58 | 6772.92 | 6762.66 | 0.78 | ppb |
| Iron | 57-2 | 7051.15 | 6974.24 | 7142.55 | 7055.98 | 1.19 | ppb |
| Iron | 54-2 | 6850.64 | 6868.49 | 6969.77 | 6896.30 | 0.93 | ppb |
| Krypton | 83-1 | | | | | | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S04 | Instrumnet Name : | P7 |
| Client Sample ID : | S04 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:38:44 | DataFile Name : | 008CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 621.82 | 642.50 | 625.14 | 629.82 | 1.76 | ppb |
| Lead | 207-1 | 624.51 | 635.21 | 631.39 | 630.37 | 0.86 | ppb |
| Lead | 208-1 | 626.33 | 639.70 | 631.11 | 632.38 | 1.07 | ppb |
| Lithium | 6-1 | | | | 103 | | % |
| Magnesium | 24-2 | 13045.81 | 13129.87 | 13269.60 | 13148.43 | 0.86 | ppb |
| Manganese | 55-2 | 1298.32 | 1307.79 | 1305.11 | 1303.74 | 0.37 | ppb |
| Molybdenum | 94-1 | 1250.25 | 1277.41 | 1282.84 | 1270.17 | 1.37 | ppb |
| Molybdenum | 95-1 | 1258.28 | 1270.12 | 1278.51 | 1268.97 | 0.80 | ppb |
| Molybdenum | 96-1 | 1261.43 | 1266.76 | 1286.13 | 1271.44 | 1.02 | ppb |
| Molybdenum | 97-1 | 1253.58 | 1263.90 | 1286.79 | 1268.09 | 1.34 | ppb |
| Molybdenum | 98-1 | 1243.07 | 1264.81 | 1298.13 | 1268.67 | 2.19 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 133.19 | 133.06 | 134.74 | 133.66 | 0.70 | ppb |
| Phosphorus | 31-2 | 2620.70 | 2570.90 | 2598.57 | 2596.72 | 0.96 | ppb |
| Potassium | 39-2 | 6347.91 | 6394.22 | 6411.51 | 6384.55 | 0.52 | ppb |
| Rhodium | 103-1 | | | | 97 | | % |
| Rhodium | 103-2 | | | | 96 | | % |
| Scandium | 45-1 | | | | 98 | | % |
| Scandium | 45-2 | | | | 95 | | % |
| Selenium | 82-1 | 130.10 | 128.99 | 130.77 | 129.95 | 0.69 | ppb |
| Selenium | 77-2 | 130.70 | 129.07 | 134.27 | 131.35 | 2.03 | ppb |
| Selenium | 78-2 | 131.44 | 128.17 | 131.94 | 130.51 | 1.57 | ppb |
| Silicon | 28-1 | 100.25 | 101.61 | 102.56 | 101.47 | 1.14 | ppb |
| Silver | 107-1 | 135.24 | 135.30 | 136.15 | 135.57 | 0.38 | ppb |
| Silver | 109-1 | 136.93 | 135.55 | 135.87 | 136.11 | 0.53 | ppb |
| Sodium | 23-2 | 13253.41 | 13410.19 | 13501.85 | 13388.48 | 0.94 | ppb |
| Strontium | 86-1 | 3159.81 | 3218.19 | 3252.50 | 3210.17 | 1.46 | ppb |
| Strontium | 88-1 | 3168.92 | 3208.36 | 3228.37 | 3201.88 | 0.94 | ppb |
| Sulfur | 34-1 | 2524.53 | 2531.26 | 2545.02 | 2533.60 | 0.41 | ppb |
| Terbium | 159-1 | | | | 101 | | % |
| Terbium | 159-2 | | | | 99 | | % |
| Thallium | 203-1 | 126.15 | 126.57 | 125.90 | 126.21 | 0.27 | ppb |
| Thallium | 205-1 | 125.33 | 127.23 | 125.44 | 126.00 | 0.85 | ppb |
| Tin | 118-1 | 130.26 | 132.51 | 131.57 | 131.45 | 0.86 | ppb |
| Titanium | 47-1 | 1256.57 | 1280.05 | 1306.78 | 1281.13 | 1.96 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S04 | Instrumnet Name : | P7 |
| Client Sample ID : | S04 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:38:44 | DataFile Name : | 008CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 123.48 | 123.25 | 125.66 | 124.13 | 1.07 | ppb |
| Vanadium | 51-2 | 128.53 | 128.10 | 129.06 | 128.56 | 0.38 | ppb |
| Yttrium | 89-1 | | | | 98 | | % |
| Yttrium | 89-2 | | | | 97 | | % |
| Zinc | 66-2 | 1343.34 | 1316.98 | 1340.55 | 1333.62 | 1.09 | ppb |
| Zirconium | 90-1 | 125.81 | 126.25 | 126.71 | 126.26 | 0.36 | ppb |
| Zirconium | 91-1 | 126.06 | 128.00 | 129.79 | 127.95 | 1.46 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S05 | Instrumnet Name : | P7 |
| Client Sample ID : | S05 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:41:30 | DataFile Name : | 009CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 4984.32 | 5028.20 | 5015.36 | 5009.30 | 0.45 | ppb |
| Antimony | 121-1 | 254.61 | 256.67 | 253.02 | 254.77 | 0.72 | ppb |
| Arsenic | 75-2 | 253.53 | 257.39 | 254.58 | 255.16 | 0.78 | ppb |
| Barium | 135-1 | 1263.05 | 1269.11 | 1275.22 | 1269.13 | 0.48 | ppb |
| Barium | 137-1 | 1269.76 | 1278.01 | 1274.87 | 1274.21 | 0.33 | ppb |
| Beryllium | 9-1 | 243.42 | 247.00 | 243.01 | 244.48 | 0.90 | ppb |
| Bismuth | 209-1 | | | | 100 | | % |
| Bismuth | 209-2 | | | | 98 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 258.95 | 262.62 | 261.93 | 261.17 | 0.75 | ppb |
| Cadmium | 106-1 | 258.75 | 261.73 | 259.46 | 259.98 | 0.60 | ppb |
| Cadmium | 111-1 | 259.69 | 262.35 | 261.64 | 261.22 | 0.53 | ppb |
| Calcium | 43-1 | 25102.97 | 25753.53 | 25476.94 | 25444.48 | 1.28 | ppb |
| Calcium | 44-1 | 25267.46 | 25520.52 | 25239.96 | 25342.65 | 0.61 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 256.49 | 253.80 | 255.29 | 255.20 | 0.53 | ppb |
| Cobalt | 59-2 | 259.00 | 259.86 | 256.66 | 258.51 | 0.64 | ppb |
| Copper | 63-2 | 2622.21 | 2602.41 | 2562.12 | 2595.58 | 1.18 | 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 | | | | 99 | | % |
| Holmium | 165-2 | | | | 98 | | % |
| Indium | 115-1 | | | | 96 | | % |
| Indium | 115-2 | | | | 95 | | % |
| Iron | 56-2 | 13337.39 | 13295.91 | 13048.41 | 13227.24 | 1.18 | ppb |
| Iron | 57-2 | 13656.72 | 13330.99 | 12922.01 | 13303.24 | 2.77 | ppb |
| Iron | 54-2 | 13500.10 | 13418.99 | 13372.14 | 13430.41 | 0.48 | ppb |
| Krypton | 83-1 | | | | | | cps |

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| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S05 | Instrumnet Name : | P7 |
| Client Sample ID : | S05 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:41:30 | DataFile Name : | 009CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 1224.89 | 1258.32 | 1239.48 | 1240.90 | 1.35 | ppb |
| Lead | 207-1 | 1235.74 | 1257.47 | 1243.37 | 1245.53 | 0.89 | ppb |
| Lead | 208-1 | 1232.74 | 1250.97 | 1247.06 | 1243.59 | 0.77 | ppb |
| Lithium | 6-1 | | | | 101 | | % |
| Magnesium | 24-2 | 25432.77 | 25576.39 | 25390.60 | 25466.59 | 0.38 | ppb |
| Manganese | 55-2 | 2553.35 | 2576.80 | 2533.53 | 2554.56 | 0.85 | ppb |
| Molybdenum | 94-1 | 2478.82 | 2546.53 | 2505.48 | 2510.28 | 1.36 | ppb |
| Molybdenum | 95-1 | 2486.87 | 2548.95 | 2510.91 | 2515.58 | 1.24 | ppb |
| Molybdenum | 96-1 | 2476.33 | 2548.24 | 2524.43 | 2516.33 | 1.46 | ppb |
| Molybdenum | 97-1 | 2479.86 | 2542.86 | 2532.77 | 2518.49 | 1.34 | ppb |
| Molybdenum | 98-1 | 2467.12 | 2549.02 | 2509.50 | 2508.55 | 1.63 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 259.93 | 260.62 | 257.93 | 259.49 | 0.54 | ppb |
| Phosphorus | 31-2 | 5079.20 | 5093.35 | 4993.40 | 5055.32 | 1.07 | ppb |
| Potassium | 39-2 | 12390.70 | 12460.77 | 12383.04 | 12411.50 | 0.35 | ppb |
| Rhodium | 103-1 | | | | 95 | | % |
| Rhodium | 103-2 | | | | 95 | | % |
| Scandium | 45-1 | | | | 95 | | % |
| Scandium | 45-2 | | | | 94 | | % |
| Selenium | 82-1 | 251.17 | 257.87 | 254.52 | 254.52 | 1.32 | ppb |
| Selenium | 77-2 | 246.31 | 258.94 | 240.32 | 248.52 | 3.83 | ppb |
| Selenium | 78-2 | 248.43 | 251.39 | 250.38 | 250.07 | 0.60 | ppb |
| Silicon | 28-1 | 232.37 | 238.17 | 234.43 | 234.99 | 1.25 | ppb |
| Silver | 107-1 | 261.09 | 262.93 | 259.04 | 261.02 | 0.74 | ppb |
| Silver | 109-1 | 261.04 | 262.34 | 263.02 | 262.13 | 0.38 | ppb |
| Sodium | 23-2 | 25816.31 | 26008.48 | 25982.89 | 25935.89 | 0.40 | ppb |
| Strontium | 86-1 | 6234.18 | 6453.95 | 6378.45 | 6355.53 | 1.76 | ppb |
| Strontium | 88-1 | 6265.05 | 6350.96 | 6305.66 | 6307.22 | 0.68 | ppb |
| Sulfur | 34-1 | 4777.32 | 4886.38 | 4742.69 | 4802.13 | 1.56 | ppb |
| Terbium | 159-1 | | | | 100 | | % |
| Terbium | 159-2 | | | | 99 | | % |
| Thallium | 203-1 | 245.74 | 248.87 | 248.59 | 247.73 | 0.70 | ppb |
| Thallium | 205-1 | 247.39 | 250.16 | 248.80 | 248.78 | 0.56 | ppb |
| Tin | 118-1 | 255.78 | 257.66 | 259.21 | 257.55 | 0.67 | ppb |
| Titanium | 47-1 | 2491.19 | 2543.28 | 2484.04 | 2506.17 | 1.29 | ppb |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S05 | Instrumnet Name : | P7 |
| Client Sample ID : | S05 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:41:30 | DataFile Name : | 009CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 241.51 | 247.54 | 246.99 | 245.35 | 1.36 | ppb |
| Vanadium | 51-2 | 255.58 | 255.27 | 250.31 | 253.72 | 1.16 | ppb |
| Yttrium | 89-1 | | | | 96 | | % |
| Yttrium | 89-2 | | | | 95 | | % |
| Zinc | 66-2 | 2589.22 | 2596.23 | 2543.95 | 2576.47 | 1.10 | ppb |
| Zirconium | 90-1 | 246.75 | 254.83 | 252.02 | 251.20 | 1.63 | ppb |
| Zirconium | 91-1 | 248.66 | 256.32 | 252.89 | 252.62 | 1.52 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S06 | Instrumnet Name : | P7 |
| Client Sample ID : | S06 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:44:16 | DataFile Name : | 010CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 9771.77 | 9640.48 | 9618.68 | 9676.98 | 0.86 | ppb |
| Antimony | 121-1 | 464.98 | 503.64 | 498.30 | 488.97 | 4.28 | ppb |
| Arsenic | 75-2 | 495.00 | 492.89 | 500.73 | 496.21 | 0.82 | ppb |
| Barium | 135-1 | 2333.14 | 2513.62 | 2502.38 | 2449.71 | 4.13 | ppb |
| Barium | 137-1 | 2358.43 | 2514.70 | 2495.50 | 2456.21 | 3.47 | ppb |
| Beryllium | 9-1 | 472.84 | 499.22 | 505.27 | 492.44 | 3.50 | ppb |
| Bismuth | 209-1 | | | | 101 | | % |
| Bismuth | 209-2 | | | | 98 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 476.01 | 504.16 | 504.75 | 494.97 | 3.32 | ppb |
| Cadmium | 106-1 | 475.73 | 505.48 | 508.30 | 496.50 | 3.63 | ppb |
| Cadmium | 111-1 | 476.64 | 506.60 | 508.58 | 497.27 | 3.60 | ppb |
| Calcium | 43-1 | 48059.72 | 49710.00 | 49174.10 | 48981.27 | 1.72 | ppb |
| Calcium | 44-1 | 47129.33 | 49146.15 | 49304.57 | 48526.69 | 2.50 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 502.05 | 497.46 | 499.36 | 499.62 | 0.46 | ppb |
| Cobalt | 59-2 | 503.81 | 502.16 | 499.89 | 501.95 | 0.39 | ppb |
| Copper | 63-2 | 5057.52 | 5100.09 | 5020.72 | 5059.44 | 0.79 | 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 | | | | 103 | | % |
| Holmium | 165-2 | | | | 100 | | % |
| Indium | 115-1 | | | | 97 | | % |
| Indium | 115-2 | | | | 94 | | % |
| Iron | 56-2 | 25990.13 | 25957.33 | 25724.09 | 25890.52 | 0.56 | ppb |
| Iron | 57-2 | 26163.36 | 26242.52 | 25831.71 | 26079.20 | 0.84 | ppb |
| Iron | 54-2 | 26428.61 | 26151.83 | 26007.06 | 26195.83 | 0.82 | ppb |
| Krypton | 83-1 | | | | | | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S06 | Instrumnet Name : | P7 |
| Client Sample ID : | S06 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:44:16 | DataFile Name : | 010CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2359.51 | 2472.27 | 2472.89 | 2434.89 | 2.68 | ppb |
| Lead | 207-1 | 2367.94 | 2484.21 | 2493.70 | 2448.62 | 2.86 | ppb |
| Lead | 208-1 | 2354.41 | 2482.73 | 2495.90 | 2444.35 | 3.20 | ppb |
| Lithium | 6-1 | | | | 100 | | % |
| Magnesium | 24-2 | 49725.35 | 49259.71 | 49322.81 | 49435.96 | 0.51 | ppb |
| Manganese | 55-2 | 5051.21 | 4998.86 | 4975.63 | 5008.57 | 0.77 | ppb |
| Molybdenum | 94-1 | 4704.27 | 5003.57 | 4913.45 | 4873.76 | 3.15 | ppb |
| Molybdenum | 95-1 | 4685.60 | 4945.83 | 4909.65 | 4847.02 | 2.91 | ppb |
| Molybdenum | 96-1 | 4718.84 | 4942.44 | 4907.87 | 4856.38 | 2.48 | ppb |
| Molybdenum | 97-1 | 4721.60 | 4979.23 | 4950.06 | 4883.63 | 2.89 | ppb |
| Molybdenum | 98-1 | 4688.30 | 4968.64 | 4918.00 | 4858.31 | 3.08 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 513.51 | 513.61 | 498.60 | 508.58 | 1.70 | ppb |
| Phosphorus | 31-2 | 10036.04 | 9772.57 | 9876.84 | 9895.15 | 1.34 | ppb |
| Potassium | 39-2 | 24666.09 | 24457.34 | 24527.86 | 24550.43 | 0.43 | ppb |
| Rhodium | 103-1 | | | | 95 | | % |
| Rhodium | 103-2 | | | | 94 | | % |
| Scandium | 45-1 | | | | 96 | | % |
| Scandium | 45-2 | | | | 94 | | % |
| Selenium | 82-1 | 467.90 | 499.19 | 493.53 | 486.87 | 3.43 | ppb |
| Selenium | 77-2 | 499.05 | 485.72 | 497.02 | 493.93 | 1.45 | ppb |
| Selenium | 78-2 | 488.68 | 482.95 | 494.16 | 488.60 | 1.15 | ppb |
| Silicon | 28-1 | 530.25 | 554.24 | 550.13 | 544.88 | 2.35 | ppb |
| Silver | 107-1 | 480.58 | 510.84 | 508.09 | 499.84 | 3.35 | ppb |
| Silver | 109-1 | 478.50 | 510.69 | 511.48 | 500.22 | 3.76 | ppb |
| Sodium | 23-2 | 51360.42 | 51233.38 | 50243.13 | 50945.64 | 1.20 | ppb |
| Strontium | 86-1 | 11522.21 | 12593.88 | 12461.85 | 12192.65 | 4.79 | ppb |
| Strontium | 88-1 | 11710.12 | 12458.54 | 12411.62 | 12193.43 | 3.44 | ppb |
| Sulfur | 34-1 | 8938.22 | 9273.64 | 9314.37 | 9175.41 | 2.25 | ppb |
| Terbium | 159-1 | | | | 102 | | % |
| Terbium | 159-2 | | | | 101 | | % |
| Thallium | 203-1 | 472.87 | 495.28 | 500.82 | 489.66 | 3.02 | ppb |
| Thallium | 205-1 | 474.63 | 491.83 | 497.86 | 488.11 | 2.47 | ppb |
| Tin | 118-1 | 467.32 | 506.45 | 504.66 | 492.81 | 4.48 | ppb |
| Titanium | 47-1 | 4760.50 | 4985.08 | 4925.94 | 4890.51 | 2.38 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S06 | Instrumnet Name : | P7 |
| Client Sample ID : | S06 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:44:16 | DataFile Name : | 010CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 470.31 | 502.79 | 499.66 | 490.92 | 3.65 | ppb |
| Vanadium | 51-2 | 508.34 | 500.58 | 498.74 | 502.55 | 1.01 | ppb |
| Yttrium | 89-1 | | | | 98 | | % |
| Yttrium | 89-2 | | | | 97 | | % |
| Zinc | 66-2 | 5072.64 | 5091.90 | 4958.78 | 5041.11 | 1.43 | ppb |
| Zirconium | 90-1 | 467.00 | 500.83 | 494.54 | 487.45 | 3.69 | ppb |
| Zirconium | 91-1 | 466.54 | 498.52 | 498.87 | 487.98 | 3.80 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S07 | Instrumnet Name : | P7 |
| Client Sample ID : | S07 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:46:59 | DataFile Name : | 011CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 19566.32 | 19437.44 | 19323.85 | 19442.54 | 0.62 | ppb |
| Antimony | 121-1 | 1001.39 | 1011.35 | 998.14 | 1003.62 | 0.69 | ppb |
| Arsenic | 75-2 | 995.90 | 1004.85 | 999.01 | 999.92 | 0.45 | ppb |
| Barium | 135-1 | 4977.47 | 5076.77 | 4995.43 | 5016.55 | 1.05 | ppb |
| Barium | 137-1 | 4986.24 | 5039.61 | 5012.39 | 5012.74 | 0.53 | ppb |
| Beryllium | 9-1 | 1002.70 | 998.40 | 1014.68 | 1005.26 | 0.84 | ppb |
| Bismuth | 209-1 | | | | 103 | | % |
| Bismuth | 209-2 | | | | 101 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 991.88 | 996.94 | 1005.75 | 998.19 | 0.70 | ppb |
| Cadmium | 106-1 | 991.79 | 1001.81 | 999.77 | 997.79 | 0.53 | ppb |
| Cadmium | 111-1 | 993.72 | 996.80 | 1000.61 | 997.05 | 0.35 | ppb |
| Calcium | 43-1 | 102443.05 | 100766.81 | 101581.67 | 101597.18 | 0.83 | ppb |
| Calcium | 44-1 | 101687.89 | 100280.79 | 100790.34 | 100919.67 | 0.71 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 996.83 | 999.94 | 997.34 | 998.04 | 0.17 | ppb |
| Cobalt | 59-2 | 995.33 | 997.49 | 994.54 | 995.78 | 0.15 | ppb |
| Copper | 63-2 | 9988.90 | 9932.04 | 9878.77 | 9933.24 | 0.55 | 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 | | | | 105 | | % |
| Indium | 115-1 | | | | 99 | | % |
| Indium | 115-2 | | | | 98 | | % |
| Iron | 56-2 | 51466.02 | 51645.89 | 51435.16 | 51515.69 | 0.22 | ppb |
| Iron | 57-2 | 52463.07 | 51834.07 | 50931.08 | 51742.74 | 1.49 | ppb |
| Iron | 54-2 | 52731.01 | 52084.99 | 52074.04 | 52296.68 | 0.72 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S07 | Instrumnet Name : | P7 |
| Client Sample ID : | S07 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:46:59 | DataFile Name : | 011CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 4978.16 | 5077.44 | 5047.62 | 5034.41 | 1.01 | ppb |
| Lead | 207-1 | 4958.11 | 5079.51 | 5040.94 | 5026.19 | 1.23 | ppb |
| Lead | 208-1 | 4965.48 | 5067.90 | 5052.46 | 5028.62 | 1.10 | ppb |
| Lithium | 6-1 | | | | 99 | | % |
| Magnesium | 24-2 | 100582.68 | 100133.74 | 99784.78 | 100167.06 | 0.40 | ppb |
| Manganese | 55-2 | 10002.40 | 10026.26 | 9893.81 | 9974.16 | 0.71 | ppb |
| Molybdenum | 94-1 | 10071.60 | 10045.64 | 10056.73 | 10057.99 | 0.13 | ppb |
| Molybdenum | 95-1 | 10059.86 | 10044.91 | 10105.34 | 10070.04 | 0.31 | ppb |
| Molybdenum | 96-1 | 10028.81 | 10070.31 | 10095.37 | 10064.83 | 0.33 | ppb |
| Molybdenum | 97-1 | 10083.77 | 9996.27 | 10073.28 | 10051.11 | 0.48 | ppb |
| Molybdenum | 98-1 | 10037.03 | 10051.80 | 10110.19 | 10066.34 | 0.38 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 995.97 | 995.11 | 985.07 | 992.05 | 0.61 | ppb |
| Phosphorus | 31-2 | 20088.78 | 20041.19 | 19944.42 | 20024.80 | 0.37 | ppb |
| Potassium | 39-2 | 48991.12 | 49335.74 | 48908.64 | 49078.50 | 0.46 | ppb |
| Rhodium | 103-1 | | | | 97 | | % |
| Rhodium | 103-2 | | | | 96 | | % |
| Scandium | 45-1 | | | | 99 | | % |
| Scandium | 45-2 | | | | 99 | | % |
| Selenium | 82-1 | 996.59 | 1010.90 | 1006.77 | 1004.75 | 0.73 | ppb |
| Selenium | 77-2 | 997.88 | 1008.96 | 1000.53 | 1002.46 | 0.58 | ppb |
| Selenium | 78-2 | 993.96 | 1009.58 | 1010.99 | 1004.84 | 0.94 | ppb |
| Silicon | 28-1 | 1004.73 | 971.42 | 976.91 | 984.35 | 1.81 | ppb |
| Silver | 107-1 | 985.95 | 1002.28 | 998.99 | 995.74 | 0.87 | ppb |
| Silver | 109-1 | 985.70 | 998.83 | 1001.06 | 995.20 | 0.83 | ppb |
| Sodium | 23-2 | 101939.55 | 101982.57 | 101171.02 | 101697.71 | 0.45 | ppb |
| Strontium | 86-1 | 24862.73 | 25212.34 | 25271.14 | 25115.40 | 0.88 | ppb |
| Strontium | 88-1 | 24954.01 | 25261.80 | 25170.64 | 25128.82 | 0.63 | ppb |
| Sulfur | 34-1 | 20563.91 | 20400.91 | 20403.00 | 20455.94 | 0.46 | ppb |
| Terbium | 159-1 | | | | 107 | | % |
| Terbium | 159-2 | | | | 105 | | % |
| Thallium | 203-1 | 995.40 | 1018.62 | 1002.75 | 1005.59 | 1.18 | ppb |
| Thallium | 205-1 | 1000.32 | 1015.60 | 1002.51 | 1006.14 | 0.82 | ppb |
| Tin | 118-1 | 991.44 | 1003.08 | 1007.77 | 1000.76 | 0.84 | ppb |
| Titanium | 47-1 | 10182.10 | 9938.18 | 10027.22 | 10049.16 | 1.23 | ppb |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S07 | Instrumnet Name : | P7 |
| Client Sample ID : | S07 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:46:59 | DataFile Name : | 011CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 1001.84 | 1016.69 | 999.18 | 1005.90 | 0.94 | ppb |
| Vanadium | 51-2 | 1002.43 | 997.79 | 991.54 | 997.25 | 0.55 | ppb |
| Yttrium | 89-1 | | | | 102 | | % |
| Yttrium | 89-2 | | | | 101 | | % |
| Zinc | 66-2 | 10006.72 | 9934.51 | 9903.09 | 9948.11 | 0.53 | ppb |
| Zirconium | 90-1 | 1006.35 | 1006.14 | 1004.96 | 1005.82 | 0.07 | ppb |
| Zirconium | 91-1 | 1011.40 | 997.62 | 1005.81 | 1004.95 | 0.69 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S08 | Instrumnet Name : | P7 |
| Client Sample ID : | S08 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:49:45 | DataFile Name : | 012CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 100081.37 | 99994.54 | 100348.87 | 100141.59 | 0.18 | ppb |
| Antimony | 121-1 | 0.46 | 0.49 | 0.54 | 0.50 | 7.64 | ppb |
| Arsenic | 75-2 | 0.55 | 0.53 | 0.49 | 0.52 | 6.01 | ppb |
| Barium | 135-1 | 2.15 | 2.05 | 1.95 | 2.05 | 4.74 | ppb |
| Barium | 137-1 | 2.18 | 2.03 | 2.00 | 2.07 | 4.70 | ppb |
| Beryllium | 9-1 | 0.18 | 0.07 | 0.12 | 0.12 | 42.28 | ppb |
| Bismuth | 209-1 | | | | 91 | | % |
| Bismuth | 209-2 | | | | 88 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.40 | 0.43 | 0.46 | 0.43 | 7.12 | ppb |
| Cadmium | 106-1 | -0.64 | -0.73 | -0.36 | -0.57 | | ppb |
| Cadmium | 111-1 | 0.15 | 0.10 | 0.14 | 0.13 | 20.00 | ppb |
| Calcium | 43-1 | 495404.96 | 507571.14 | 496215.00 | 499730.36 | 1.36 | ppb |
| Calcium | 44-1 | 496763.58 | 505587.30 | 497464.52 | 499938.46 | 0.98 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1.20 | 1.18 | 1.23 | 1.20 | 2.05 | ppb |
| Cobalt | 59-2 | 2.59 | 2.52 | 2.58 | 2.56 | 1.52 | ppb |
| Copper | 63-2 | 1.65 | 1.58 | 1.59 | 1.60 | 2.61 | 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 | | | | 100 | | % |
| Indium | 115-1 | | | | 95 | | % |
| Indium | 115-2 | | | | 96 | | % |
| Iron | 56-2 | 248204.84 | 247760.34 | 252703.72 | 249556.30 | 1.10 | ppb |
| Iron | 57-2 | 250241.96 | 248397.00 | 249800.40 | 249479.79 | 0.39 | ppb |
| Iron | 54-2 | 250421.19 | 246380.81 | 251262.78 | 249354.93 | 1.05 | ppb |
| Krypton | 83-1 | | | | | | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S08 | Instrumnet Name : | P7 |
| Client Sample ID : | S08 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:49:45 | DataFile Name : | 012CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.76 | 0.61 | 0.55 | 0.64 | 16.38 | ppb |
| Lead | 207-1 | 0.71 | 0.59 | 0.53 | 0.61 | 15.38 | ppb |
| Lead | 208-1 | 0.74 | 0.60 | 0.54 | 0.62 | 16.39 | ppb |
| Lithium | 6-1 | | | | 96 | | % |
| Magnesium | 24-2 | 499629.03 | 491019.48 | 509294.92 | 499981.14 | 1.83 | ppb |
| Manganese | 55-2 | 3.55 | 3.38 | 3.52 | 3.48 | 2.60 | ppb |
| Molybdenum | 94-1 | 2.77 | 2.42 | 2.26 | 2.48 | 10.63 | ppb |
| Molybdenum | 95-1 | 1.98 | 1.62 | 1.53 | 1.71 | 13.67 | ppb |
| Molybdenum | 96-1 | 3.15 | 2.88 | 2.76 | 2.93 | 6.71 | ppb |
| Molybdenum | 97-1 | 1.91 | 1.55 | 1.44 | 1.63 | 15.23 | ppb |
| Molybdenum | 98-1 | 1.85 | 1.56 | 1.43 | 1.61 | 13.62 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 2.78 | 2.65 | 2.86 | 2.76 | 3.89 | ppb |
| Phosphorus | 31-2 | -10.48 | -12.95 | -12.01 | -11.81 | | ppb |
| Potassium | 39-2 | 252681.22 | 247505.21 | 250502.83 | 250229.75 | 1.04 | ppb |
| Rhodium | 103-1 | | | | 90 | | % |
| Rhodium | 103-2 | | | | 89 | | % |
| Scandium | 45-1 | | | | 99 | | % |
| Scandium | 45-2 | | | | 102 | | % |
| Selenium | 82-1 | 0.99 | 0.54 | 1.02 | 0.85 | 31.36 | ppb |
| Selenium | 77-2 | 0.03 | 0.50 | 0.41 | 0.31 | 79.61 | ppb |
| Selenium | 78-2 | -0.28 | -0.52 | 0.02 | -0.26 | | ppb |
| Silicon | 28-1 | 1.33 | 1.27 | 0.88 | 1.16 | 20.87 | ppb |
| Silver | 107-1 | 0.15 | 0.12 | 0.11 | 0.13 | 13.17 | ppb |
| Silver | 109-1 | 0.15 | 0.13 | 0.11 | 0.13 | 16.90 | ppb |
| Sodium | 23-2 | 495182.73 | 496634.56 | 506663.69 | 499493.66 | 1.25 | ppb |
| Strontium | 86-1 | 86.64 | 87.45 | 83.84 | 85.98 | 2.20 | ppb |
| Strontium | 88-1 | 84.75 | 85.58 | 84.32 | 84.88 | 0.75 | ppb |
| Sulfur | 34-1 | -728.28 | -549.73 | -484.77 | -587.59 | | ppb |
| Terbium | 159-1 | | | | 102 | | % |
| Terbium | 159-2 | | | | 100 | | % |
| Thallium | 203-1 | 0.10 | 0.06 | 0.05 | 0.07 | 36.88 | ppb |
| Thallium | 205-1 | 0.09 | 0.06 | 0.05 | 0.07 | 29.22 | ppb |
| Tin | 118-1 | 0.10 | 0.07 | 0.05 | 0.07 | 33.72 | ppb |
| Titanium | 47-1 | 1.65 | 1.34 | 1.23 | 1.41 | 15.71 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S08 | Instrumnet Name : | P7 |
| Client Sample ID : | S08 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:49:45 | DataFile Name : | 012CALS.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.11 | 0.07 | 0.06 | 0.08 | 34.59 | ppb |
| Vanadium | 51-2 | 0.26 | 0.26 | 0.26 | 0.26 | 0.38 | ppb |
| Yttrium | 89-1 | | | | 99 | | % |
| Yttrium | 89-2 | | | | 102 | | % |
| Zinc | 66-2 | -2.25 | -2.26 | -2.31 | -2.27 | | ppb |
| Zirconium | 90-1 | 0.58 | 0.56 | 0.55 | 0.56 | 2.60 | ppb |
| Zirconium | 91-1 | 0.60 | 0.57 | 0.56 | 0.58 | 3.06 | ppb |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | ICV001 | Instrumnet Name : | P7 |
| Client Sample ID : | ICV001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:01:56 | DataFile Name : | 013ICV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 470.55 | 475.73 | 483.14 | 476.47 | 1.33 | ppb |
| Antimony | 121-1 | 198.26 | 206.91 | 212.48 | 205.88 | 3.48 | ppb |
| Arsenic | 75-2 | 205.38 | 207.44 | 206.75 | 206.52 | 0.51 | ppb |
| Barium | 135-1 | 97.35 | 104.37 | 105.57 | 102.43 | 4.33 | ppb |
| Barium | 137-1 | 99.07 | 105.47 | 107.09 | 103.88 | 4.08 | ppb |
| Beryllium | 9-1 | 94.96 | 99.01 | 99.00 | 97.66 | 2.39 | ppb |
| Bismuth | 209-1 | | | | 103 | | % |
| Bismuth | 209-2 | | | | 102 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 91.04 | 96.72 | 98.55 | 95.44 | 4.11 | ppb |
| Cadmium | 106-1 | 86.53 | 93.49 | 96.89 | 92.30 | 5.72 | ppb |
| Cadmium | 111-1 | 103.43 | 109.43 | 111.20 | 108.02 | 3.77 | ppb |
| Calcium | 43-1 | 1883.78 | 2060.23 | 2055.14 | 1999.72 | 5.02 | ppb |
| Calcium | 44-1 | 1795.60 | 1916.69 | 1937.29 | 1883.19 | 4.07 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 103.14 | 104.40 | 105.55 | 104.37 | 1.15 | ppb |
| Cobalt | 59-2 | 102.80 | 107.06 | 107.24 | 105.70 | 2.38 | ppb |
| Copper | 63-2 | 98.97 | 101.03 | 102.24 | 100.75 | 1.64 | 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 | | | | 103 | | % |
| Indium | 115-1 | | | | 103 | | % |
| Indium | 115-2 | | | | 103 | | % |
| Iron | 56-2 | 2042.38 | 2082.32 | 2086.79 | 2070.50 | 1.18 | ppb |
| Iron | 57-2 | 2101.37 | 2155.44 | 2175.71 | 2144.17 | 1.79 | ppb |
| Iron | 54-2 | 2186.39 | 2230.90 | 2267.59 | 2228.30 | 1.82 | ppb |
| Krypton | 83-1 | | | | | | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | ICV001 | Instrumnet Name : | P7 |
| Client Sample ID : | ICV001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:01:56 | DataFile Name : | 013ICV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 198.75 | 210.73 | 210.51 | 206.66 | 3.32 | ppb |
| Lead | 207-1 | 190.95 | 202.88 | 200.68 | 198.17 | 3.20 | ppb |
| Lead | 208-1 | 194.07 | 206.15 | 205.72 | 201.98 | 3.39 | ppb |
| Lithium | 6-1 | | | | 104 | | % |
| Magnesium | 24-2 | 1098.21 | 1122.57 | 1118.39 | 1113.06 | 1.17 | ppb |
| Manganese | 55-2 | 100.12 | 102.18 | 102.30 | 101.54 | 1.21 | ppb |
| Molybdenum | 94-1 | 0.09 | 0.12 | 0.14 | 0.12 | 19.61 | ppb |
| Molybdenum | 95-1 | 0.03 | 0.03 | 0.03 | 0.03 | 9.02 | ppb |
| Molybdenum | 96-1 | 0.06 | 0.06 | 0.05 | 0.06 | 8.02 | ppb |
| Molybdenum | 97-1 | 0.03 | 0.03 | 0.03 | 0.03 | 8.14 | ppb |
| Molybdenum | 98-1 | 0.04 | 0.03 | 0.04 | 0.04 | 7.13 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 104.66 | 106.79 | 108.03 | 106.49 | 1.60 | ppb |
| Phosphorus | 31-2 | -17.83 | -12.44 | -16.99 | -15.75 | | ppb |
| Potassium | 39-2 | 1930.75 | 1986.42 | 1994.67 | 1970.61 | 1.76 | ppb |
| Rhodium | 103-1 | | | | 104 | | % |
| Rhodium | 103-2 | | | | 103 | | % |
| Scandium | 45-1 | | | | 106 | | % |
| Scandium | 45-2 | | | | 104 | | % |
| Selenium | 82-1 | 193.47 | 204.90 | 209.37 | 202.58 | 4.05 | ppb |
| Selenium | 77-2 | 210.81 | 212.12 | 218.11 | 213.68 | 1.82 | ppb |
| Selenium | 78-2 | 205.44 | 206.51 | 209.13 | 207.02 | 0.92 | ppb |
| Silicon | 28-1 | -0.89 | -0.47 | -0.33 | -0.56 | | ppb |
| Silver | 107-1 | 51.43 | 54.34 | 55.45 | 53.74 | 3.86 | ppb |
| Silver | 109-1 | 51.34 | 54.37 | 55.27 | 53.66 | 3.83 | ppb |
| Sodium | 23-2 | 1969.82 | 2039.89 | 2035.73 | 2015.14 | 1.95 | ppb |
| Strontium | 86-1 | 5.57 | 5.79 | 6.32 | 5.89 | 6.60 | ppb |
| Strontium | 88-1 | 5.70 | 6.21 | 6.21 | 6.04 | 4.88 | ppb |
| Sulfur | 34-1 | -228.70 | -85.85 | -60.97 | -125.17 | | ppb |
| Terbium | 159-1 | | | | 102 | | % |
| Terbium | 159-2 | | | | 103 | | % |
| Thallium | 203-1 | 194.65 | 204.04 | 209.89 | 202.86 | 3.79 | ppb |
| Thallium | 205-1 | 195.32 | 202.89 | 206.24 | 201.48 | 2.78 | ppb |
| Tin | 118-1 | -0.01 | 0.00 | 0.02 | 0.00 | 552.47 | ppb |
| Titanium | 47-1 | 0.03 | 0.00 | 0.00 | 0.01 | 145.77 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | ICV001 | Instrumnet Name : | P7 |
| Client Sample ID : | ICV001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:01:56 | DataFile Name : | 013ICV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | 20.52 | ppb |
| Vanadium | 51-2 | 97.71 | 99.97 | 101.25 | 99.64 | 1.80 | ppb |
| Yttrium | 89-1 | | | | 104 | | % |
| Yttrium | 89-2 | | | | 104 | | % |
| Zinc | 66-2 | 197.37 | 203.12 | 203.58 | 201.36 | 1.72 | ppb |
| Zirconium | 90-1 | 0.03 | 0.04 | 0.05 | 0.04 | 23.67 | ppb |
| Zirconium | 91-1 | 0.09 | 0.09 | 0.10 | 0.09 | 7.48 | ppb |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | ICB001 | Instrumnet Name : | P7 |
| Client Sample ID : | ICB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:05:00 | DataFile Name : | 014CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 0.03 | 0.12 | 0.09 | 0.08 | 55.73 | ppb |
| Antimony | 121-1 | 0.10 | 0.09 | 0.10 | 0.09 | 5.53 | ppb |
| Arsenic | 75-2 | 0.00 | 0.01 | 0.01 | 0.01 | 121.81 | ppb |
| Barium | 135-1 | 0.01 | 0.00 | -0.01 | 0.00 | 566.79 | ppb |
| Barium | 137-1 | 0.00 | 0.00 | -0.01 | 0.00 | | ppb |
| Beryllium | 9-1 | 0.03 | 0.02 | 0.02 | 0.02 | 15.67 | ppb |
| Bismuth | 209-1 | | | | 101 | | % |
| Bismuth | 209-2 | | | | 102 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.01 | 0.03 | -0.02 | 0.00 | 647.45 | ppb |
| Cadmium | 106-1 | -0.02 | -0.29 | -0.63 | -0.31 | | ppb |
| Cadmium | 111-1 | 0.02 | -0.02 | -0.04 | -0.01 | | ppb |
| Calcium | 43-1 | -4.03 | 1.41 | 6.31 | 1.23 | 421.04 | ppb |
| Calcium | 44-1 | 2.51 | 2.57 | 2.96 | 2.68 | 9.14 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.01 | 0.04 | 0.02 | 0.02 | 82.65 | ppb |
| Cobalt | 59-2 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Copper | 63-2 | 0.00 | 0.02 | 0.00 | 0.00 | 284.12 | 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 | | | | 102 | | % |
| Indium | 115-1 | | | | 101 | | % |
| Indium | 115-2 | | | | 102 | | % |
| Iron | 56-2 | 0.06 | 0.80 | 0.05 | 0.30 | 140.01 | ppb |
| Iron | 57-2 | -0.51 | 0.34 | -0.66 | -0.27 | | ppb |
| Iron | 54-2 | -0.08 | 0.31 | -0.03 | 0.07 | 325.52 | ppb |
| Krypton | 83-1 | | | | | | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | ICB001 | Instrumnet Name : | P7 |
| Client Sample ID : | ICB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:05:00 | DataFile Name : | 014CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.07 | 0.04 | 0.04 | 0.05 | 31.73 | ppb |
| Lead | 207-1 | 0.05 | 0.05 | 0.02 | 0.04 | 43.28 | ppb |
| Lead | 208-1 | 0.06 | 0.04 | 0.03 | 0.04 | 40.11 | ppb |
| Lithium | 6-1 | | | | 104 | | % |
| Magnesium | 24-2 | 0.00 | 0.09 | 0.15 | 0.08 | 88.64 | ppb |
| Manganese | 55-2 | 0.01 | 0.04 | -0.02 | 0.01 | 412.99 | ppb |
| Molybdenum | 94-1 | 0.03 | 0.02 | 0.02 | 0.02 | 15.88 | ppb |
| Molybdenum | 95-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Molybdenum | 96-1 | 0.00 | 0.00 | 0.01 | 0.00 | 108.96 | ppb |
| Molybdenum | 97-1 | -0.01 | -0.01 | 0.01 | 0.00 | | ppb |
| Molybdenum | 98-1 | 0.00 | 0.00 | 0.00 | 0.00 | 41.52 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.06 | 0.07 | 0.10 | 0.08 | 23.30 | ppb |
| Phosphorus | 31-2 | -16.85 | -13.11 | -15.77 | -15.24 | | ppb |
| Potassium | 39-2 | 6.96 | 8.39 | 6.38 | 7.24 | 14.30 | ppb |
| Rhodium | 103-1 | | | | 103 | | % |
| Rhodium | 103-2 | | | | 103 | | % |
| Scandium | 45-1 | | | | 103 | | % |
| Scandium | 45-2 | | | | 104 | | % |
| Selenium | 82-1 | -0.04 | -0.24 | -0.26 | -0.18 | | ppb |
| Selenium | 77-2 | 0.12 | -0.06 | -0.06 | 0.00 | | ppb |
| Selenium | 78-2 | -0.26 | -0.55 | -0.74 | -0.52 | | ppb |
| Silicon | 28-1 | -0.34 | -0.51 | -0.39 | -0.41 | | ppb |
| Silver | 107-1 | 0.02 | 0.01 | 0.01 | 0.01 | 40.47 | ppb |
| Silver | 109-1 | 0.02 | 0.01 | 0.01 | 0.01 | 28.03 | ppb |
| Sodium | 23-2 | 2.64 | 3.78 | 2.51 | 2.98 | 23.49 | ppb |
| Strontium | 86-1 | -0.07 | -0.40 | -0.20 | -0.22 | | ppb |
| Strontium | 88-1 | -0.15 | -0.19 | -0.03 | -0.12 | | ppb |
| Sulfur | 34-1 | -7.65 | -41.02 | -14.43 | -21.03 | | ppb |
| Terbium | 159-1 | | | | 102 | | % |
| Terbium | 159-2 | | | | 102 | | % |
| Thallium | 203-1 | 0.04 | 0.02 | 0.02 | 0.03 | 34.89 | ppb |
| Thallium | 205-1 | 0.04 | 0.02 | 0.02 | 0.02 | 41.24 | ppb |
| Tin | 118-1 | 0.00 | 0.02 | 0.00 | 0.01 | 147.53 | ppb |
| Titanium | 47-1 | -0.04 | -0.02 | -0.03 | -0.03 | | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | ICB001 | Instrumnet Name : | P7 |
| Client Sample ID : | ICB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:05:00 | DataFile Name : | 014CCBE.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 | 0.00 | 0.00 | 0.00 | | ppb |
| Yttrium | 89-1 | | | | 102 | | % |
| Yttrium | 89-2 | | | | 104 | | % |
| Zinc | 66-2 | -0.19 | 0.21 | -0.03 | 0.00 | | ppb |
| Zirconium | 90-1 | 0.01 | 0.01 | 0.01 | 0.01 | 38.59 | ppb |
| Zirconium | 91-1 | 0.01 | 0.01 | 0.01 | 0.01 | 2.85 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | ICSA001 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSA001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:08:17 | DataFile Name : | 015ICSA.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 92038.18 | 92120.55 | 91375.15 | 91844.63 | 0.44 | ppb |
| Antimony | 121-1 | 1.14 | 1.17 | 1.19 | 1.17 | 2.56 | ppb |
| Arsenic | 75-2 | 0.34 | 0.34 | 0.35 | 0.34 | 2.20 | ppb |
| Barium | 135-1 | 1.45 | 1.44 | 1.43 | 1.44 | 0.91 | ppb |
| Barium | 137-1 | 1.41 | 1.47 | 1.45 | 1.44 | 2.15 | ppb |
| Beryllium | 9-1 | 0.30 | 0.27 | 0.30 | 0.29 | 5.01 | ppb |
| Bismuth | 209-1 | | | | 97 | | % |
| Bismuth | 209-2 | | | | 96 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 9.93 | 10.16 | 9.70 | 9.93 | 2.29 | ppb |
| Cadmium | 106-1 | -1.61 | -1.95 | -2.00 | -1.85 | | ppb |
| Cadmium | 111-1 | 0.26 | 0.25 | 0.28 | 0.27 | 6.21 | ppb |
| Calcium | 43-1 | 100406.96 | 102249.06 | 101160.78 | 101272.26 | 0.91 | ppb |
| Calcium | 44-1 | 100710.16 | 102158.82 | 100896.01 | 101254.99 | 0.78 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 20.73 | 20.86 | 20.72 | 20.77 | 0.37 | ppb |
| Cobalt | 59-2 | 1.23 | 1.26 | 1.26 | 1.25 | 1.02 | ppb |
| Copper | 63-2 | 7.43 | 7.46 | 7.49 | 7.46 | 0.35 | 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 | | | | 103 | | % |
| Indium | 115-1 | | | | 98 | | % |
| Indium | 115-2 | | | | 99 | | % |
| Iron | 56-2 | 104638.98 | 104502.49 | 104358.40 | 104499.96 | 0.13 | ppb |
| Iron | 57-2 | 104361.40 | 103567.96 | 104815.04 | 104248.13 | 0.61 | ppb |
| Iron | 54-2 | 103310.61 | 104643.78 | 105785.06 | 104579.81 | 1.18 | ppb |
| Krypton | 83-1 | | | | | | cps |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | ICSA001 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSA001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:08:17 | DataFile Name : | 015ICSA.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 5.16 | 4.98 | 5.00 | 5.05 | 1.90 | ppb |
| Lead | 207-1 | 4.66 | 4.53 | 4.38 | 4.52 | 3.13 | ppb |
| Lead | 208-1 | 4.81 | 4.67 | 4.61 | 4.70 | 2.25 | ppb |
| Lithium | 6-1 | | | | 93 | | % |
| Magnesium | 24-2 | 95516.73 | 96665.15 | 96071.52 | 96084.47 | 0.60 | ppb |
| Manganese | 55-2 | 7.89 | 7.94 | 7.97 | 7.93 | 0.52 | ppb |
| Molybdenum | 94-1 | 1599.75 | 1643.74 | 1604.45 | 1615.98 | 1.49 | ppb |
| Molybdenum | 95-1 | 1972.12 | 2002.15 | 1953.99 | 1976.08 | 1.23 | ppb |
| Molybdenum | 96-1 | 1914.80 | 1980.14 | 1934.38 | 1943.11 | 1.73 | ppb |
| Molybdenum | 97-1 | 1961.13 | 1996.29 | 1969.30 | 1975.57 | 0.93 | ppb |
| Molybdenum | 98-1 | 1955.79 | 1984.12 | 1973.08 | 1971.00 | 0.72 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 5.69 | 5.73 | 5.57 | 5.67 | 1.47 | ppb |
| Phosphorus | 31-2 | 99705.85 | 102386.99 | 99717.65 | 100603.50 | 1.54 | ppb |
| Potassium | 39-2 | 98102.66 | 99121.28 | 98903.71 | 98709.22 | 0.54 | ppb |
| Rhodium | 103-1 | | | | 95 | | % |
| Rhodium | 103-2 | | | | 97 | | % |
| Scandium | 45-1 | | | | 99 | | % |
| Scandium | 45-2 | | | | 101 | | % |
| Selenium | 82-1 | 0.23 | -0.20 | -0.26 | -0.08 | | ppb |
| Selenium | 77-2 | 0.03 | 0.12 | 0.12 | 0.09 | 59.16 | ppb |
| Selenium | 78-2 | -0.05 | 0.07 | -0.07 | -0.01 | | ppb |
| Silicon | 28-1 | 4.56 | 4.74 | 4.68 | 4.66 | 1.93 | ppb |
| Silver | 107-1 | 0.03 | 0.03 | 0.03 | 0.03 | 6.40 | ppb |
| Silver | 109-1 | 0.03 | 0.03 | 0.03 | 0.03 | 0.59 | ppb |
| Sodium | 23-2 | 100565.19 | 101771.42 | 101354.68 | 101230.43 | 0.61 | ppb |
| Strontium | 86-1 | 876.90 | 900.10 | 877.58 | 884.86 | 1.49 | ppb |
| Strontium | 88-1 | 881.85 | 888.68 | 891.04 | 887.19 | 0.54 | ppb |
| Sulfur | 34-1 | 101174.04 | 102336.89 | 99997.15 | 101169.36 | 1.16 | ppb |
| Terbium | 159-1 | | | | 104 | | % |
| Terbium | 159-2 | | | | 103 | | % |
| Thallium | 203-1 | 0.09 | 0.11 | 0.12 | 0.11 | 16.50 | ppb |
| Thallium | 205-1 | 0.10 | 0.11 | 0.12 | 0.11 | 6.43 | ppb |
| Tin | 118-1 | 0.17 | 0.20 | 0.18 | 0.18 | 7.81 | ppb |
| Titanium | 47-1 | 2016.61 | 2065.88 | 2055.99 | 2046.16 | 1.27 | ppb |

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | ICSA001 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSA001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:08:17 | DataFile Name : | 015ICSA.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.02 | 0.02 | 0.01 | 0.02 | 10.94 | ppb |
| Vanadium | 51-2 | 0.17 | 0.20 | 0.19 | 0.19 | 6.29 | ppb |
| Yttrium | 89-1 | | | | 100 | | % |
| Yttrium | 89-2 | | | | 102 | | % |
| Zinc | 66-2 | 10.31 | 10.45 | 10.25 | 10.34 | 1.00 | ppb |
| Zirconium | 90-1 | 0.02 | 0.02 | 0.03 | 0.02 | 31.30 | ppb |
| Zirconium | 91-1 | 0.02 | 0.02 | 0.03 | 0.02 | 22.59 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB001 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSAB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:11:18 | DataFile Name : | 016ICSB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 90734.80 | 93446.88 | 91174.70 | 91785.46 | 1.59 | ppb |
| Antimony | 121-1 | 21.38 | 21.60 | 21.98 | 21.65 | 1.40 | ppb |
| Arsenic | 75-2 | 20.51 | 20.50 | 20.44 | 20.48 | 0.20 | ppb |
| Barium | 135-1 | 21.55 | 21.52 | 21.89 | 21.66 | 0.95 | ppb |
| Barium | 137-1 | 21.65 | 22.17 | 22.14 | 21.99 | 1.32 | ppb |
| Beryllium | 9-1 | 19.83 | 20.58 | 20.13 | 20.18 | 1.87 | ppb |
| Bismuth | 209-1 | | | | 101 | | % |
| Bismuth | 209-2 | | | | 97 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 25.67 | 26.47 | 26.23 | 26.13 | 1.57 | ppb |
| Cadmium | 106-1 | 15.74 | 15.36 | 15.03 | 15.38 | 2.30 | ppb |
| Cadmium | 111-1 | 20.18 | 20.31 | 20.55 | 20.34 | 0.91 | ppb |
| Calcium | 43-1 | 99290.61 | 102229.48 | 101934.90 | 101151.66 | 1.60 | ppb |
| Calcium | 44-1 | 99189.97 | 101663.79 | 101492.13 | 100781.96 | 1.37 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 41.10 | 41.57 | 40.64 | 41.10 | 1.14 | ppb |
| Cobalt | 59-2 | 21.85 | 21.74 | 21.36 | 21.65 | 1.19 | ppb |
| Copper | 63-2 | 26.55 | 27.14 | 26.42 | 26.70 | 1.44 | 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 | | | | 104 | | % |
| Indium | 115-1 | | | | 103 | | % |
| Indium | 115-2 | | | | 101 | | % |
| Iron | 56-2 | 103968.02 | 104894.99 | 102778.46 | 103880.49 | 1.02 | ppb |
| Iron | 57-2 | 103963.45 | 104584.45 | 102724.17 | 103757.36 | 0.91 | ppb |
| Iron | 54-2 | 103178.34 | 106122.40 | 103379.36 | 104226.70 | 1.58 | ppb |
| Krypton | 83-1 | | | | | | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB001 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSAB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:11:18 | DataFile Name : | 016ICSB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 26.47 | 26.89 | 27.36 | 26.91 | 1.64 | ppb |
| Lead | 207-1 | 25.34 | 25.43 | 25.71 | 25.50 | 0.76 | ppb |
| Lead | 208-1 | 25.65 | 26.03 | 26.27 | 25.98 | 1.21 | ppb |
| Lithium | 6-1 | | | | 90 | | % |
| Magnesium | 24-2 | 94576.31 | 98655.58 | 94559.55 | 95930.48 | 2.46 | ppb |
| Manganese | 55-2 | 27.74 | 28.18 | 27.37 | 27.76 | 1.45 | ppb |
| Molybdenum | 94-1 | 1597.68 | 1608.91 | 1608.48 | 1605.02 | 0.40 | ppb |
| Molybdenum | 95-1 | 1942.95 | 1943.25 | 1942.40 | 1942.87 | 0.02 | ppb |
| Molybdenum | 96-1 | 1901.10 | 1926.88 | 1908.60 | 1912.19 | 0.69 | ppb |
| Molybdenum | 97-1 | 1921.61 | 1945.40 | 1943.29 | 1936.77 | 0.68 | ppb |
| Molybdenum | 98-1 | 1925.80 | 1937.26 | 1933.53 | 1932.20 | 0.30 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 25.23 | 25.81 | 25.45 | 25.50 | 1.16 | ppb |
| Phosphorus | 31-2 | 99585.78 | 102163.78 | 99698.12 | 100482.56 | 1.45 | ppb |
| Potassium | 39-2 | 99615.78 | 100180.07 | 98069.18 | 99288.34 | 1.10 | ppb |
| Rhodium | 103-1 | | | | 100 | | % |
| Rhodium | 103-2 | | | | 99 | | % |
| Scandium | 45-1 | | | | 102 | | % |
| Scandium | 45-2 | | | | 102 | | % |
| Selenium | 82-1 | 19.69 | 19.55 | 19.22 | 19.48 | 1.24 | ppb |
| Selenium | 77-2 | 18.84 | 21.02 | 20.74 | 20.20 | 5.87 | ppb |
| Selenium | 78-2 | 18.36 | 17.92 | 19.94 | 18.74 | 5.67 | ppb |
| Silicon | 28-1 | 4.61 | 4.65 | 4.38 | 4.54 | 3.10 | ppb |
| Silver | 107-1 | 19.40 | 19.67 | 19.88 | 19.65 | 1.23 | ppb |
| Silver | 109-1 | 19.36 | 19.53 | 19.91 | 19.60 | 1.44 | ppb |
| Sodium | 23-2 | 100515.26 | 102410.72 | 100845.75 | 101257.25 | 1.00 | ppb |
| Strontium | 86-1 | 861.67 | 871.85 | 877.24 | 870.26 | 0.91 | ppb |
| Strontium | 88-1 | 859.76 | 870.05 | 859.66 | 863.16 | 0.69 | ppb |
| Sulfur | 34-1 | 95746.31 | 96868.62 | 98928.57 | 97181.17 | 1.66 | ppb |
| Terbium | 159-1 | | | | 108 | | % |
| Terbium | 159-2 | | | | 105 | | % |
| Thallium | 203-1 | 21.81 | 22.14 | 22.51 | 22.15 | 1.59 | ppb |
| Thallium | 205-1 | 22.06 | 22.30 | 22.52 | 22.29 | 1.01 | ppb |
| Tin | 118-1 | 0.11 | 0.10 | 0.12 | 0.11 | 6.54 | ppb |
| Titanium | 47-1 | 2007.37 | 2060.78 | 2042.50 | 2036.88 | 1.33 | ppb |

Reviewed By:Mohan
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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB001 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSAB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:11:18 | DataFile Name : | 016ICSB.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.02 | 0.02 | 0.02 | 0.02 | 4.99 | ppb |
| Vanadium | 51-2 | 20.11 | 20.59 | 19.85 | 20.18 | 1.88 | ppb |
| Yttrium | 89-1 | | | | 106 | | % |
| Yttrium | 89-2 | | | | 105 | | % |
| Zinc | 66-2 | 29.73 | 30.49 | 29.42 | 29.88 | 1.85 | ppb |
| Zirconium | 90-1 | 0.02 | 0.01 | 0.02 | 0.01 | 14.14 | ppb |
| Zirconium | 91-1 | 0.01 | 0.02 | 0.02 | 0.02 | 50.71 | ppb |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCV001 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:14:21 | DataFile Name : | 017CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 49188.32 | 48513.93 | 48713.89 | 48805.38 | 0.71 | ppb |
| Antimony | 121-1 | 507.18 | 523.76 | 526.13 | 519.02 | 1.99 | ppb |
| Arsenic | 75-2 | 522.95 | 521.03 | 524.38 | 522.79 | 0.32 | ppb |
| Barium | 135-1 | 2528.28 | 2545.53 | 2586.11 | 2553.30 | 1.16 | ppb |
| Barium | 137-1 | 2509.47 | 2587.51 | 2595.86 | 2564.28 | 1.86 | ppb |
| Beryllium | 9-1 | 506.68 | 516.08 | 507.58 | 510.11 | 1.02 | ppb |
| Bismuth | 209-1 | | | | 102 | | % |
| Bismuth | 209-2 | | | | 96 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 509.55 | 520.01 | 518.83 | 516.13 | 1.11 | ppb |
| Cadmium | 106-1 | 512.60 | 526.51 | 523.06 | 520.72 | 1.39 | ppb |
| Cadmium | 111-1 | 512.87 | 530.85 | 532.65 | 525.45 | 2.08 | ppb |
| Calcium | 43-1 | 244557.06 | 253669.51 | 250572.19 | 249599.59 | 1.86 | ppb |
| Calcium | 44-1 | 244196.96 | 255737.98 | 250447.22 | 250127.38 | 2.31 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 511.25 | 515.12 | 508.85 | 511.74 | 0.62 | ppb |
| Cobalt | 59-2 | 528.13 | 514.05 | 518.34 | 520.17 | 1.39 | ppb |
| Copper | 63-2 | 5211.82 | 5025.17 | 5036.11 | 5091.03 | 2.06 | 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 | | | | 106 | | % |
| Indium | 115-1 | | | | 104 | | % |
| Indium | 115-2 | | | | 100 | | % |
| Iron | 56-2 | 128242.68 | 126643.32 | 127439.29 | 127441.77 | 0.63 | ppb |
| Iron | 57-2 | 128769.31 | 125768.12 | 127727.11 | 127421.51 | 1.20 | ppb |
| Iron | 54-2 | 129420.94 | 126847.36 | 128286.60 | 128184.97 | 1.01 | ppb |
| Krypton | 83-1 | | | | | | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCV001 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:14:21 | DataFile Name : | 017CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2568.90 | 2619.96 | 2651.35 | 2613.40 | 1.59 | ppb |
| Lead | 207-1 | 2575.06 | 2620.00 | 2640.80 | 2611.95 | 1.29 | ppb |
| Lead | 208-1 | 2557.49 | 2617.54 | 2638.36 | 2604.46 | 1.61 | ppb |
| Lithium | 6-1 | | | | 94 | | % |
| Magnesium | 24-2 | 255217.60 | 248969.40 | 252641.66 | 252276.22 | 1.24 | ppb |
| Manganese | 55-2 | 5089.38 | 5018.20 | 5055.76 | 5054.44 | 0.70 | ppb |
| Molybdenum | 94-1 | 5047.08 | 5151.74 | 5130.95 | 5109.93 | 1.08 | ppb |
| Molybdenum | 95-1 | 5045.70 | 5131.30 | 5111.71 | 5096.24 | 0.88 | ppb |
| Molybdenum | 96-1 | 5042.31 | 5129.56 | 5150.43 | 5107.43 | 1.12 | ppb |
| Molybdenum | 97-1 | 5030.81 | 5141.34 | 5127.84 | 5100.00 | 1.18 | ppb |
| Molybdenum | 98-1 | 5045.77 | 5126.11 | 5130.25 | 5100.71 | 0.93 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 526.17 | 501.85 | 511.17 | 513.06 | 2.39 | ppb |
| Phosphorus | 31-2 | 10117.44 | 9961.47 | 9948.79 | 10009.23 | 0.94 | ppb |
| Potassium | 39-2 | 124981.70 | 123847.85 | 123597.80 | 124142.45 | 0.59 | ppb |
| Rhodium | 103-1 | | | | 99 | | % |
| Rhodium | 103-2 | | | | 97 | | % |
| Scandium | 45-1 | | | | 105 | | % |
| Scandium | 45-2 | | | | 104 | | % |
| Selenium | 82-1 | 503.21 | 510.48 | 509.75 | 507.81 | 0.79 | ppb |
| Selenium | 77-2 | 497.01 | 506.78 | 517.70 | 507.16 | 2.04 | ppb |
| Selenium | 78-2 | 502.71 | 499.05 | 501.75 | 501.17 | 0.38 | ppb |
| Silicon | 28-1 | 353.02 | 364.54 | 361.21 | 359.59 | 1.65 | ppb |
| Silver | 107-1 | 507.57 | 512.76 | 511.98 | 510.77 | 0.55 | ppb |
| Silver | 109-1 | 506.78 | 512.70 | 510.99 | 510.16 | 0.60 | ppb |
| Sodium | 23-2 | 255547.57 | 253683.82 | 256104.80 | 255112.06 | 0.50 | ppb |
| Strontium | 86-1 | 12773.11 | 13047.23 | 13060.70 | 12960.35 | 1.25 | ppb |
| Strontium | 88-1 | 12636.06 | 12835.22 | 12840.75 | 12770.68 | 0.91 | ppb |
| Sulfur | 34-1 | 8642.72 | 8825.43 | 8694.68 | 8720.94 | 1.08 | ppb |
| Terbium | 159-1 | | | | 110 | | % |
| Terbium | 159-2 | | | | 106 | | % |
| Thallium | 203-1 | 520.04 | 519.60 | 529.82 | 523.15 | 1.10 | ppb |
| Thallium | 205-1 | 519.19 | 530.69 | 533.01 | 527.63 | 1.40 | ppb |
| Tin | 118-1 | 504.46 | 515.18 | 519.17 | 512.94 | 1.48 | ppb |
| Titanium | 47-1 | 4956.24 | 5184.06 | 5087.60 | 5075.96 | 2.25 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCV001 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:14:21 | DataFile Name : | 017CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 518.21 | 535.02 | 527.36 | 526.86 | 1.60 | ppb |
| Vanadium | 51-2 | 513.50 | 511.53 | 513.84 | 512.96 | 0.24 | ppb |
| Yttrium | 89-1 | | | | 108 | | % |
| Yttrium | 89-2 | | | | 105 | | % |
| Zinc | 66-2 | 5189.54 | 5018.80 | 5048.47 | 5085.60 | 1.79 | ppb |
| Zirconium | 90-1 | 500.98 | 514.99 | 514.33 | 510.10 | 1.55 | ppb |
| Zirconium | 91-1 | 503.91 | 515.27 | 515.86 | 511.68 | 1.32 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCB001 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:17:01 | DataFile Name : | 018CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1.21 | 0.88 | 1.02 | 1.04 | 15.94 | ppb |
| Antimony | 121-1 | 0.24 | 0.23 | 0.28 | 0.25 | 10.33 | ppb |
| Arsenic | 75-2 | 0.01 | 0.03 | 0.03 | 0.02 | 36.35 | ppb |
| Barium | 135-1 | 0.52 | 0.17 | 0.11 | 0.26 | 83.15 | ppb |
| Barium | 137-1 | 0.54 | 0.21 | 0.11 | 0.29 | 78.23 | ppb |
| Beryllium | 9-1 | 0.14 | 0.07 | 0.01 | 0.08 | 86.54 | ppb |
| Bismuth | 209-1 | | | | 108 | | % |
| Bismuth | 209-2 | | | | 105 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.13 | 0.05 | 0.02 | 0.07 | 83.05 | ppb |
| Cadmium | 106-1 | -0.88 | -1.24 | -1.43 | -1.18 | | ppb |
| Cadmium | 111-1 | 0.06 | -0.03 | -0.07 | -0.02 | | ppb |
| Calcium | 43-1 | 57.96 | 17.51 | 12.61 | 29.36 | 84.77 | ppb |
| Calcium | 44-1 | 59.32 | 24.69 | 14.36 | 32.79 | 71.83 | 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 | 44.72 | ppb |
| Cobalt | 59-2 | 0.01 | 0.00 | 0.00 | 0.00 | 213.04 | ppb |
| Copper | 63-2 | 0.14 | 0.15 | 0.14 | 0.14 | 3.39 | 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 | | | | 108 | | % |
| Holmium | 165-2 | | | | 104 | | % |
| Indium | 115-1 | | | | 107 | | % |
| Indium | 115-2 | | | | 103 | | % |
| Iron | 56-2 | 3.22 | 2.88 | 2.85 | 2.98 | 6.92 | ppb |
| Iron | 57-2 | 2.68 | 1.21 | 2.71 | 2.20 | 39.10 | ppb |
| Iron | 54-2 | 2.78 | 2.62 | 3.40 | 2.93 | 14.09 | ppb |
| Krypton | 83-1 | | | | | | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCB001 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:17:01 | DataFile Name : | 018CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.55 | 0.23 | 0.14 | 0.31 | 70.31 | ppb |
| Lead | 207-1 | 0.52 | 0.23 | 0.14 | 0.30 | 67.53 | ppb |
| Lead | 208-1 | 0.54 | 0.23 | 0.14 | 0.31 | 69.58 | ppb |
| Lithium | 6-1 | | | | 98 | | % |
| Magnesium | 24-2 | 4.72 | 4.28 | 3.45 | 4.15 | 15.52 | ppb |
| Manganese | 55-2 | 0.11 | 0.12 | 0.15 | 0.13 | 17.83 | ppb |
| Molybdenum | 94-1 | 1.23 | 0.60 | 0.46 | 0.76 | 54.02 | ppb |
| Molybdenum | 95-1 | 1.13 | 0.51 | 0.35 | 0.66 | 62.53 | ppb |
| Molybdenum | 96-1 | 1.16 | 0.51 | 0.37 | 0.68 | 61.64 | ppb |
| Molybdenum | 97-1 | 1.17 | 0.51 | 0.38 | 0.68 | 61.74 | ppb |
| Molybdenum | 98-1 | 1.15 | 0.54 | 0.35 | 0.68 | 60.89 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.10 | 0.09 | 0.10 | 0.10 | 6.78 | ppb |
| Phosphorus | 31-2 | -16.48 | -14.66 | -13.62 | -14.92 | | ppb |
| Potassium | 39-2 | 17.21 | 17.94 | 22.54 | 19.23 | 15.02 | ppb |
| Rhodium | 103-1 | | | | 105 | | % |
| Rhodium | 103-2 | | | | 105 | | % |
| Scandium | 45-1 | | | | 101 | | % |
| Scandium | 45-2 | | | | 102 | | % |
| Selenium | 82-1 | 0.13 | -0.04 | -0.05 | 0.01 | 725.29 | ppb |
| Selenium | 77-2 | -0.06 | -0.06 | 0.13 | 0.00 | | ppb |
| Selenium | 78-2 | -0.12 | -0.18 | -0.33 | -0.21 | | ppb |
| Silicon | 28-1 | -0.13 | -0.21 | -0.33 | -0.22 | | ppb |
| Silver | 107-1 | 0.11 | 0.05 | 0.04 | 0.07 | 59.72 | ppb |
| Silver | 109-1 | 0.12 | 0.05 | 0.04 | 0.07 | 63.58 | ppb |
| Sodium | 23-2 | 12.84 | 13.10 | 15.73 | 13.89 | 11.49 | ppb |
| Strontium | 86-1 | 2.39 | 0.87 | 0.47 | 1.25 | 81.26 | ppb |
| Strontium | 88-1 | 2.45 | 0.87 | 0.41 | 1.24 | 85.78 | ppb |
| Sulfur | 34-1 | -517.70 | -517.69 | -544.92 | -526.77 | | ppb |
| Terbium | 159-1 | | | | 107 | | % |
| Terbium | 159-2 | | | | 106 | | % |
| Thallium | 203-1 | 0.15 | 0.11 | 0.08 | 0.11 | 30.26 | ppb |
| Thallium | 205-1 | 0.15 | 0.10 | 0.08 | 0.11 | 35.15 | ppb |
| Tin | 118-1 | 0.13 | 0.07 | 0.05 | 0.08 | 51.60 | ppb |
| Titanium | 47-1 | 1.06 | 0.43 | 0.24 | 0.58 | 74.23 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCB001 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:17:01 | DataFile Name : | 018CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.10 | 0.04 | 0.02 | 0.06 | 75.32 | ppb |
| Vanadium | 51-2 | 0.01 | 0.00 | 0.01 | 0.01 | 55.27 | ppb |
| Yttrium | 89-1 | | | | 105 | | % |
| Yttrium | 89-2 | | | | 104 | | % |
| Zinc | 66-2 | -0.18 | 0.01 | 0.53 | 0.12 | 300.78 | ppb |
| Zirconium | 90-1 | 0.17 | 0.10 | 0.10 | 0.12 | 29.84 | ppb |
| Zirconium | 91-1 | 0.16 | 0.10 | 0.11 | 0.12 | 26.24 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | PB165157BL | Instrumnet Name : | P7 |
| Client Sample ID : | PBW157 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:20:18 | DataFile Name : | 019CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 0.36 | 0.41 | 0.41 | 0.39 | 7.24 | ppb |
| Antimony | 121-1 | 0.04 | 0.05 | 0.07 | 0.05 | 25.89 | ppb |
| Arsenic | 75-2 | -0.01 | 0.00 | -0.01 | -0.01 | | ppb |
| Barium | 135-1 | -0.01 | -0.01 | 0.00 | -0.01 | | ppb |
| Barium | 137-1 | -0.01 | -0.01 | -0.02 | -0.01 | | ppb |
| Beryllium | 9-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Bismuth | 209-1 | | | | 108 | | % |
| Bismuth | 209-2 | | | | 107 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | -0.05 | -0.01 | 0.00 | -0.02 | | ppb |
| Cadmium | 106-1 | -0.81 | -1.05 | -1.04 | -0.96 | | ppb |
| Cadmium | 111-1 | -0.04 | -0.07 | -0.07 | -0.06 | | ppb |
| Calcium | 43-1 | 1.01 | 1.48 | 2.14 | 1.54 | 36.72 | ppb |
| Calcium | 44-1 | 5.21 | 7.08 | 5.12 | 5.80 | 19.09 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.06 | 0.03 | -0.01 | 0.03 | 128.24 | ppb |
| Cobalt | 59-2 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |
| Copper | 63-2 | 0.03 | 0.03 | 0.02 | 0.03 | 20.54 | 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 | | | | 108 | | % |
| Holmium | 165-2 | | | | 107 | | % |
| Indium | 115-1 | | | | 107 | | % |
| Indium | 115-2 | | | | 106 | | % |
| Iron | 56-2 | 0.47 | 0.30 | 0.80 | 0.52 | 49.13 | ppb |
| Iron | 57-2 | 0.68 | 0.14 | 0.48 | 0.44 | 62.35 | ppb |
| Iron | 54-2 | 1.54 | -0.07 | -0.03 | 0.48 | 191.59 | ppb |
| Krypton | 83-1 | | | | | | cps |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | PB165157BL | Instrumnet Name : | P7 |
| Client Sample ID : | PBW157 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:20:18 | DataFile Name : | 019CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.05 | 0.03 | 0.02 | 0.03 | 48.15 | ppb |
| Lead | 207-1 | 0.04 | 0.02 | 0.03 | 0.03 | 48.05 | ppb |
| Lead | 208-1 | 0.04 | 0.02 | 0.02 | 0.03 | 31.90 | ppb |
| Lithium | 6-1 | | | | 98 | | % |
| Magnesium | 24-2 | 0.32 | 0.26 | 0.05 | 0.21 | 68.62 | ppb |
| Manganese | 55-2 | 0.17 | 0.08 | 0.06 | 0.10 | 59.03 | ppb |
| Molybdenum | 94-1 | 0.06 | 0.05 | 0.08 | 0.07 | 17.16 | ppb |
| Molybdenum | 95-1 | 0.03 | 0.02 | 0.03 | 0.03 | 31.22 | ppb |
| Molybdenum | 96-1 | 0.04 | 0.02 | 0.04 | 0.03 | 27.62 | ppb |
| Molybdenum | 97-1 | 0.03 | 0.02 | 0.04 | 0.03 | 19.57 | ppb |
| Molybdenum | 98-1 | 0.04 | 0.03 | 0.03 | 0.03 | 11.16 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.09 | 0.11 | 0.10 | 0.10 | 11.96 | ppb |
| Phosphorus | 31-2 | -19.79 | -16.42 | -17.60 | -17.94 | | ppb |
| Potassium | 39-2 | 12.57 | 11.31 | 9.70 | 11.19 | 12.89 | ppb |
| Rhodium | 103-1 | | | | 107 | | % |
| Rhodium | 103-2 | | | | 108 | | % |
| Scandium | 45-1 | | | | 104 | | % |
| Scandium | 45-2 | | | | 106 | | % |
| Selenium | 82-1 | 0.02 | 0.17 | 0.00 | 0.06 | 141.26 | ppb |
| Selenium | 77-2 | 0.02 | -0.06 | -0.06 | -0.03 | | ppb |
| Selenium | 78-2 | 0.06 | -0.62 | -0.51 | -0.36 | | ppb |
| Silicon | 28-1 | -0.72 | -0.70 | -0.75 | -0.72 | | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 18.88 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 20.94 | ppb |
| Sodium | 23-2 | 6.42 | 5.53 | 3.82 | 5.26 | 25.12 | ppb |
| Strontium | 86-1 | -0.16 | 0.31 | 0.06 | 0.07 | 326.63 | ppb |
| Strontium | 88-1 | 0.00 | 0.04 | -0.10 | -0.02 | | ppb |
| Sulfur | 34-1 | -405.69 | -435.93 | -452.88 | -431.50 | | ppb |
| Terbium | 159-1 | | | | 108 | | % |
| Terbium | 159-2 | | | | 108 | | % |
| Thallium | 203-1 | 0.05 | 0.04 | 0.04 | 0.05 | 9.57 | ppb |
| Thallium | 205-1 | 0.05 | 0.05 | 0.04 | 0.05 | 4.96 | ppb |
| Tin | 118-1 | 0.29 | 0.28 | 0.25 | 0.27 | 7.30 | ppb |
| Titanium | 47-1 | 0.01 | -0.01 | -0.03 | -0.01 | | ppb |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | PB165157BL | Instrumnet Name : | P7 |
| Client Sample ID : | PBW157 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:20:18 | DataFile Name : | 019CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.00 | 0.00 | 0.00 | 0.00 | 182.01 | ppb |
| Vanadium | 51-2 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Yttrium | 89-1 | | | | 106 | | % |
| Yttrium | 89-2 | | | | 107 | | % |
| Zinc | 66-2 | 0.42 | 0.16 | 0.23 | 0.27 | 48.94 | ppb |
| Zirconium | 90-1 | 0.02 | 0.02 | 0.02 | 0.02 | 21.18 | ppb |
| Zirconium | 91-1 | 0.01 | 0.02 | 0.02 | 0.02 | 55.96 | ppb |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | PB165157BS | Instrumnet Name : | P7 |
| Client Sample ID : | LCS157 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:23:31 | DataFile Name : | 020LCSE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 42.75 | 42.64 | 42.34 | 42.58 | 0.49 | ppb |
| Antimony | 121-1 | 4.46 | 4.52 | 4.59 | 4.52 | 1.47 | ppb |
| Arsenic | 75-2 | 2.05 | 2.31 | 2.19 | 2.18 | 5.98 | ppb |
| Barium | 135-1 | 21.50 | 21.73 | 22.27 | 21.83 | 1.83 | ppb |
| Barium | 137-1 | 21.96 | 22.06 | 22.54 | 22.19 | 1.40 | ppb |
| Beryllium | 9-1 | 2.02 | 2.12 | 2.06 | 2.07 | 2.33 | ppb |
| Bismuth | 209-1 | | | | 108 | | % |
| Bismuth | 209-2 | | | | 106 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 2.17 | 2.42 | 2.13 | 2.24 | 7.20 | ppb |
| Cadmium | 106-1 | 1.88 | 1.93 | 0.63 | 1.48 | 49.48 | ppb |
| Cadmium | 111-1 | 2.19 | 2.28 | 2.27 | 2.24 | 2.20 | ppb |
| Calcium | 43-1 | 1085.90 | 1095.13 | 1112.20 | 1097.74 | 1.22 | ppb |
| Calcium | 44-1 | 1089.24 | 1110.61 | 1114.58 | 1104.81 | 1.23 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 4.60 | 4.58 | 4.61 | 4.60 | 0.34 | ppb |
| Cobalt | 59-2 | 2.34 | 2.30 | 2.27 | 2.30 | 1.51 | ppb |
| Copper | 63-2 | 4.80 | 4.82 | 4.77 | 4.80 | 0.57 | 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 | | | | 107 | | % |
| Indium | 115-1 | | | | 107 | | % |
| Indium | 115-2 | | | | 107 | | % |
| Iron | 56-2 | 473.59 | 468.96 | 456.49 | 466.35 | 1.90 | ppb |
| Iron | 57-2 | 486.25 | 483.45 | 477.32 | 482.34 | 0.95 | ppb |
| Iron | 54-2 | 492.40 | 483.31 | 478.55 | 484.75 | 1.45 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | PB165157BS | Instrumnet Name : | P7 |
| Client Sample ID : | LCS157 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:23:31 | DataFile Name : | 020LCSE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2.24 | 2.25 | 2.20 | 2.23 | 1.03 | ppb |
| Lead | 207-1 | 2.20 | 2.24 | 2.24 | 2.23 | 1.11 | ppb |
| Lead | 208-1 | 2.22 | 2.25 | 2.25 | 2.24 | 0.97 | ppb |
| Lithium | 6-1 | | | | 100 | | % |
| Magnesium | 24-2 | 1076.32 | 1063.57 | 1056.94 | 1065.61 | 0.92 | ppb |
| Manganese | 55-2 | 2.53 | 2.42 | 2.33 | 2.43 | 4.09 | ppb |
| Molybdenum | 94-1 | 12.59 | 13.03 | 12.99 | 12.87 | 1.90 | ppb |
| Molybdenum | 95-1 | 10.47 | 10.71 | 10.74 | 10.64 | 1.39 | ppb |
| Molybdenum | 96-1 | 10.64 | 10.87 | 10.97 | 10.82 | 1.57 | ppb |
| Molybdenum | 97-1 | 10.59 | 11.00 | 10.92 | 10.84 | 2.02 | ppb |
| Molybdenum | 98-1 | 10.47 | 10.80 | 11.00 | 10.76 | 2.50 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 2.43 | 2.40 | 2.46 | 2.43 | 1.18 | ppb |
| Phosphorus | 31-2 | -18.69 | -18.21 | -18.03 | -18.31 | | ppb |
| Potassium | 39-2 | 1103.34 | 1081.01 | 1070.00 | 1084.78 | 1.57 | ppb |
| Rhodium | 103-1 | | | | 108 | | % |
| Rhodium | 103-2 | | | | 108 | | % |
| Scandium | 45-1 | | | | 106 | | % |
| Scandium | 45-2 | | | | 107 | | % |
| Selenium | 82-1 | 10.55 | 11.23 | 10.55 | 10.78 | 3.66 | ppb |
| Selenium | 77-2 | 11.04 | 10.64 | 10.64 | 10.77 | 2.15 | ppb |
| Selenium | 78-2 | 10.75 | 9.73 | 11.12 | 10.54 | 6.82 | ppb |
| Silicon | 28-1 | 5.10 | 5.34 | 5.32 | 5.25 | 2.51 | ppb |
| Silver | 107-1 | 2.25 | 2.30 | 2.36 | 2.30 | 2.48 | ppb |
| Silver | 109-1 | 2.24 | 2.32 | 2.36 | 2.31 | 2.81 | ppb |
| Sodium | 23-2 | 1130.29 | 1107.03 | 1090.35 | 1109.22 | 1.81 | ppb |
| Strontium | 86-1 | 55.29 | 56.26 | 55.89 | 55.81 | 0.88 | ppb |
| Strontium | 88-1 | 53.56 | 55.20 | 55.17 | 54.64 | 1.72 | ppb |
| Sulfur | 34-1 | -305.16 | -342.88 | -359.26 | -335.77 | | ppb |
| Terbium | 159-1 | | | | 109 | | % |
| Terbium | 159-2 | | | | 107 | | % |
| Thallium | 203-1 | 2.19 | 2.16 | 2.19 | 2.18 | 0.78 | ppb |
| Thallium | 205-1 | 2.17 | 2.17 | 2.20 | 2.18 | 0.76 | ppb |
| Tin | 118-1 | 0.01 | 0.01 | 0.02 | 0.01 | 50.10 | ppb |
| Titanium | 47-1 | 10.56 | 10.90 | 10.82 | 10.76 | 1.63 | ppb |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | PB165157BS | Instrumnet Name : | P7 |
| Client Sample ID : | LCS157 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:23:31 | DataFile Name : | 020LCSE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 2.02 | 2.03 | 2.02 | 2.02 | 0.15 | ppb |
| Vanadium | 51-2 | 11.17 | 10.99 | 10.78 | 10.98 | 1.78 | ppb |
| Yttrium | 89-1 | | | | 108 | | % |
| Yttrium | 89-2 | | | | 107 | | % |
| Zinc | 66-2 | 12.27 | 11.84 | 11.34 | 11.82 | 3.93 | ppb |
| Zirconium | 90-1 | 2.17 | 2.25 | 2.23 | 2.22 | 1.69 | ppb |
| Zirconium | 91-1 | 2.20 | 2.25 | 2.26 | 2.24 | 1.47 | ppb |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | PB165158BL | Instrumnet Name : | P7 |
| Client Sample ID : | PBW158 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:26:45 | DataFile Name : | 021CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 0.34 | 0.22 | 0.16 | 0.24 | 37.78 | ppb |
| Antimony | 121-1 | 0.01 | 0.01 | 0.02 | 0.02 | 30.21 | ppb |
| Arsenic | 75-2 | -0.01 | 0.00 | 0.00 | 0.00 | | ppb |
| Barium | 135-1 | 0.00 | -0.01 | -0.01 | -0.01 | | ppb |
| Barium | 137-1 | -0.01 | -0.01 | 0.00 | -0.01 | | ppb |
| Beryllium | 9-1 | -0.02 | -0.01 | 0.00 | -0.01 | | ppb |
| Bismuth | 209-1 | | | | 107 | | % |
| Bismuth | 209-2 | | | | 105 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.01 | -0.06 | -0.03 | -0.03 | | ppb |
| Cadmium | 106-1 | -0.78 | -0.78 | -1.23 | -0.93 | | ppb |
| Cadmium | 111-1 | -0.06 | -0.05 | -0.09 | -0.06 | | ppb |
| Calcium | 43-1 | 6.86 | 1.69 | 6.26 | 4.94 | 57.30 | ppb |
| Calcium | 44-1 | 4.48 | 4.61 | 3.75 | 4.28 | 10.75 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.04 | 0.06 | 0.04 | 0.05 | 27.60 | ppb |
| Cobalt | 59-2 | 0.00 | -0.01 | -0.01 | -0.01 | | ppb |
| Copper | 63-2 | 0.01 | 0.01 | 0.02 | 0.02 | 37.87 | 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 | | | | 105 | | % |
| Indium | 115-1 | | | | 108 | | % |
| Indium | 115-2 | | | | 106 | | % |
| Iron | 56-2 | 0.20 | 0.11 | 0.15 | 0.15 | 31.19 | ppb |
| Iron | 57-2 | 0.11 | -0.59 | -0.02 | -0.16 | | ppb |
| Iron | 54-2 | 0.41 | 0.48 | 0.22 | 0.37 | 36.04 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | PB165158BL | Instrumnet Name : | P7 |
| Client Sample ID : | PBW158 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:26:45 | DataFile Name : | 021CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.02 | 0.02 | 0.01 | 0.02 | 45.41 | ppb |
| Lead | 207-1 | 0.01 | 0.01 | 0.02 | 0.01 | 53.08 | ppb |
| Lead | 208-1 | 0.02 | 0.02 | 0.02 | 0.02 | 7.72 | ppb |
| Lithium | 6-1 | | | | 101 | | % |
| Magnesium | 24-2 | -0.04 | 0.13 | -0.28 | -0.06 | | ppb |
| Manganese | 55-2 | 0.05 | 0.10 | 0.05 | 0.07 | 45.49 | ppb |
| Molybdenum | 94-1 | 0.02 | 0.01 | 0.03 | 0.02 | 51.38 | ppb |
| Molybdenum | 95-1 | 0.00 | 0.00 | 0.00 | 0.00 | 329.21 | ppb |
| Molybdenum | 96-1 | 0.00 | 0.00 | 0.01 | 0.00 | 38.59 | ppb |
| Molybdenum | 97-1 | 0.01 | 0.00 | 0.00 | 0.00 | 514.31 | ppb |
| Molybdenum | 98-1 | 0.00 | 0.00 | 0.00 | 0.00 | 47.06 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.11 | 0.07 | 0.09 | 0.09 | 22.80 | ppb |
| Phosphorus | 31-2 | -17.71 | -16.93 | -19.04 | -17.89 | | ppb |
| Potassium | 39-2 | 6.56 | 7.09 | 8.38 | 7.34 | 12.75 | ppb |
| Rhodium | 103-1 | | | | 109 | | % |
| Rhodium | 103-2 | | | | 107 | | % |
| Scandium | 45-1 | | | | 106 | | % |
| Scandium | 45-2 | | | | 107 | | % |
| Selenium | 82-1 | 0.04 | 0.06 | -0.29 | -0.06 | | ppb |
| Selenium | 77-2 | -0.06 | 0.03 | -0.06 | -0.03 | | ppb |
| Selenium | 78-2 | -0.53 | -0.22 | -0.15 | -0.30 | | ppb |
| Silicon | 28-1 | -0.51 | -0.69 | -0.75 | -0.65 | | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 19.42 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 8.59 | ppb |
| Sodium | 23-2 | -1.05 | -0.68 | -0.01 | -0.58 | | ppb |
| Strontium | 86-1 | 0.27 | -0.33 | 0.10 | 0.01 | 2179.96 | ppb |
| Strontium | 88-1 | -0.11 | -0.04 | -0.07 | -0.07 | | ppb |
| Sulfur | 34-1 | -222.73 | -314.30 | -348.63 | -295.22 | | ppb |
| Terbium | 159-1 | | | | 109 | | % |
| Terbium | 159-2 | | | | 106 | | % |
| Thallium | 203-1 | 0.02 | 0.02 | 0.02 | 0.02 | 8.80 | ppb |
| Thallium | 205-1 | 0.03 | 0.02 | 0.02 | 0.02 | 11.42 | ppb |
| Tin | 118-1 | -0.01 | -0.01 | 0.00 | -0.01 | | ppb |
| Titanium | 47-1 | -0.01 | -0.03 | -0.02 | -0.02 | | ppb |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | PB165158BL | Instrumnet Name : | P7 |
| Client Sample ID : | PBW158 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:26:45 | DataFile Name : | 021CCBE.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 | 0.00 | 0.00 | 0.00 | 168.94 | ppb |
| Yttrium | 89-1 | | | | 109 | | % |
| Yttrium | 89-2 | | | | 106 | | % |
| Zinc | 66-2 | 0.31 | -0.17 | 0.24 | 0.13 | 205.86 | ppb |
| Zirconium | 90-1 | 0.00 | 0.01 | 0.01 | 0.01 | 105.21 | ppb |
| Zirconium | 91-1 | 0.00 | 0.01 | 0.00 | 0.00 | 184.64 | ppb |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | PB165158BS | Instrumnet Name : | P7 |
| Client Sample ID : | LCS158 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:29:59 | DataFile Name : | 022CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 44.26 | 44.95 | 44.86 | 44.69 | 0.83 | ppb |
| Antimony | 121-1 | 4.48 | 4.57 | 4.63 | 4.56 | 1.68 | ppb |
| Arsenic | 75-2 | 2.30 | 2.22 | 2.25 | 2.26 | 1.99 | ppb |
| Barium | 135-1 | 22.25 | 22.06 | 22.50 | 22.27 | 0.99 | ppb |
| Barium | 137-1 | 22.33 | 22.37 | 22.84 | 22.52 | 1.26 | ppb |
| Beryllium | 9-1 | 2.18 | 2.17 | 2.26 | 2.21 | 2.22 | ppb |
| Bismuth | 209-1 | | | | 106 | | % |
| Bismuth | 209-2 | | | | 104 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 1.90 | 2.06 | 2.21 | 2.06 | 7.46 | ppb |
| Cadmium | 106-1 | 1.44 | 1.05 | 1.48 | 1.32 | 18.08 | ppb |
| Cadmium | 111-1 | 2.24 | 2.22 | 2.35 | 2.27 | 3.12 | ppb |
| Calcium | 43-1 | 1090.88 | 1112.44 | 1111.98 | 1105.10 | 1.11 | ppb |
| Calcium | 44-1 | 1100.72 | 1112.38 | 1115.64 | 1109.58 | 0.71 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 4.59 | 4.61 | 4.75 | 4.65 | 1.92 | ppb |
| Cobalt | 59-2 | 2.26 | 2.30 | 2.34 | 2.30 | 1.63 | ppb |
| Copper | 63-2 | 4.64 | 4.91 | 4.87 | 4.81 | 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 | | | | 104 | | % |
| Indium | 115-1 | | | | 108 | | % |
| Indium | 115-2 | | | | 105 | | % |
| Iron | 56-2 | 463.14 | 465.77 | 472.80 | 467.24 | 1.07 | ppb |
| Iron | 57-2 | 474.60 | 483.97 | 489.60 | 482.72 | 1.57 | ppb |
| Iron | 54-2 | 482.36 | 491.55 | 492.82 | 488.91 | 1.17 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | PB165158BS | Instrumnet Name : | P7 |
| Client Sample ID : | LCS158 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:29:59 | DataFile Name : | 022CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2.21 | 2.28 | 2.30 | 2.26 | 2.09 | ppb |
| Lead | 207-1 | 2.20 | 2.24 | 2.27 | 2.24 | 1.45 | ppb |
| Lead | 208-1 | 2.19 | 2.24 | 2.26 | 2.23 | 1.65 | ppb |
| Lithium | 6-1 | | | | 101 | | % |
| Magnesium | 24-2 | 1066.74 | 1081.08 | 1085.75 | 1077.86 | 0.92 | ppb |
| Manganese | 55-2 | 2.28 | 2.35 | 2.47 | 2.37 | 4.02 | ppb |
| Molybdenum | 94-1 | 12.74 | 12.85 | 13.04 | 12.88 | 1.17 | ppb |
| Molybdenum | 95-1 | 10.49 | 10.85 | 10.83 | 10.72 | 1.87 | ppb |
| Molybdenum | 96-1 | 10.63 | 10.85 | 11.01 | 10.83 | 1.78 | ppb |
| Molybdenum | 97-1 | 10.55 | 10.99 | 10.97 | 10.83 | 2.28 | ppb |
| Molybdenum | 98-1 | 10.62 | 10.93 | 10.89 | 10.82 | 1.55 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 2.42 | 2.46 | 2.46 | 2.45 | 1.01 | ppb |
| Phosphorus | 31-2 | -14.97 | -20.11 | -15.29 | -16.79 | | ppb |
| Potassium | 39-2 | 1099.01 | 1115.52 | 1112.02 | 1108.85 | 0.78 | ppb |
| Rhodium | 103-1 | | | | 108 | | % |
| Rhodium | 103-2 | | | | 106 | | % |
| Scandium | 45-1 | | | | 106 | | % |
| Scandium | 45-2 | | | | 107 | | % |
| Selenium | 82-1 | 11.16 | 10.92 | 11.16 | 11.08 | 1.26 | ppb |
| Selenium | 77-2 | 11.82 | 10.23 | 10.27 | 10.77 | 8.43 | ppb |
| Selenium | 78-2 | 11.70 | 10.27 | 10.04 | 10.67 | 8.44 | ppb |
| Silicon | 28-1 | 5.11 | 5.17 | 5.49 | 5.26 | 3.80 | ppb |
| Silver | 107-1 | 2.30 | 2.36 | 2.40 | 2.35 | 2.17 | ppb |
| Silver | 109-1 | 2.32 | 2.39 | 2.39 | 2.36 | 1.72 | ppb |
| Sodium | 23-2 | 1103.86 | 1115.16 | 1129.53 | 1116.18 | 1.15 | ppb |
| Strontium | 86-1 | 52.97 | 57.20 | 57.60 | 55.93 | 4.59 | ppb |
| Strontium | 88-1 | 54.52 | 55.96 | 56.69 | 55.72 | 1.98 | ppb |
| Sulfur | 34-1 | -116.14 | -218.98 | -217.02 | -184.05 | | ppb |
| Terbium | 159-1 | | | | 107 | | % |
| Terbium | 159-2 | | | | 105 | | % |
| Thallium | 203-1 | 2.13 | 2.16 | 2.22 | 2.17 | 2.21 | ppb |
| Thallium | 205-1 | 2.13 | 2.18 | 2.20 | 2.17 | 1.60 | ppb |
| Tin | 118-1 | 0.02 | 0.05 | 0.02 | 0.03 | 54.84 | ppb |
| Titanium | 47-1 | 10.75 | 11.00 | 11.36 | 11.04 | 2.80 | ppb |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | PB165158BS | Instrumnet Name : | P7 |
| Client Sample ID : | LCS158 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:29:59 | DataFile Name : | 022CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 1.98 | 2.06 | 2.06 | 2.03 | 2.17 | ppb |
| Vanadium | 51-2 | 11.01 | 11.08 | 11.15 | 11.08 | 0.63 | ppb |
| Yttrium | 89-1 | | | | 108 | | % |
| Yttrium | 89-2 | | | | 107 | | % |
| Zinc | 66-2 | 11.84 | 11.87 | 12.21 | 11.97 | 1.71 | ppb |
| Zirconium | 90-1 | 2.18 | 2.24 | 2.23 | 2.22 | 1.46 | ppb |
| Zirconium | 91-1 | 2.15 | 2.20 | 2.30 | 2.22 | 3.52 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4879-22 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A11 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:33:13 | DataFile Name : | 023SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1922.80 | 1925.55 | 1999.24 | 1949.20 | 2.22 | ppb |
| Antimony | 121-1 | 0.12 | 0.12 | 0.13 | 0.12 | 4.70 | ppb |
| Arsenic | 75-2 | 4.06 | 3.88 | 3.89 | 3.94 | 2.58 | ppb |
| Barium | 135-1 | 54.71 | 53.64 | 53.26 | 53.87 | 1.40 | ppb |
| Barium | 137-1 | 54.69 | 54.20 | 54.45 | 54.45 | 0.45 | ppb |
| Beryllium | 9-1 | 0.21 | 0.20 | 0.16 | 0.19 | 15.06 | ppb |
| Bismuth | 209-1 | | | | 105 | | % |
| Bismuth | 209-2 | | | | 102 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.11 | 0.25 | 0.23 | 0.20 | 38.46 | ppb |
| Cadmium | 106-1 | 0.78 | -0.56 | -0.35 | -0.04 | | ppb |
| Cadmium | 111-1 | 0.22 | 0.13 | 0.16 | 0.17 | 28.85 | ppb |
| Calcium | 43-1 | 213702.84 | 215254.91 | 214982.68 | 214646.81 | 0.39 | ppb |
| Calcium | 44-1 | 214805.71 | 215743.55 | 212897.36 | 214482.21 | 0.68 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 5.05 | 5.23 | 5.35 | 5.21 | 2.89 | ppb |
| Cobalt | 59-2 | 4.35 | 4.36 | 4.52 | 4.41 | 2.19 | ppb |
| Copper | 63-2 | 8.05 | 7.98 | 8.43 | 8.15 | 2.98 | 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 | | | | 112 | | % |
| Holmium | 165-2 | | | | 107 | | % |
| Indium | 115-1 | | | | 109 | | % |
| Indium | 115-2 | | | | 106 | | % |
| Iron | 56-2 | 8736.68 | 8359.00 | 8765.46 | 8620.38 | 2.63 | ppb |
| Iron | 57-2 | 9770.66 | 9523.54 | 10119.64 | 9804.61 | 3.05 | ppb |
| Iron | 54-2 | 8653.58 | 8576.74 | 8928.27 | 8719.53 | 2.12 | ppb |
| Krypton | 83-1 | | | | | | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4879-22 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A11 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:33:13 | DataFile Name : | 023SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 8.72 | 8.71 | 8.76 | 8.73 | 0.27 | ppb |
| Lead | 207-1 | 7.91 | 7.86 | 7.85 | 7.87 | 0.40 | ppb |
| Lead | 208-1 | 8.20 | 8.15 | 8.17 | 8.18 | 0.32 | ppb |
| Lithium | 6-1 | | | | 100 | | % |
| Magnesium | 24-2 | 72656.01 | 70136.43 | 73436.30 | 72076.24 | 2.39 | ppb |
| Manganese | 55-2 | 353.16 | 335.75 | 349.83 | 346.25 | 2.67 | ppb |
| Molybdenum | 94-1 | 1.72 | 1.71 | 1.71 | 1.71 | 0.35 | ppb |
| Molybdenum | 95-1 | 1.05 | 1.04 | 1.01 | 1.03 | 1.83 | ppb |
| Molybdenum | 96-1 | 1.15 | 1.16 | 1.14 | 1.15 | 0.71 | ppb |
| Molybdenum | 97-1 | 1.04 | 1.02 | 1.03 | 1.03 | 0.72 | ppb |
| Molybdenum | 98-1 | 1.04 | 1.02 | 1.04 | 1.04 | 1.08 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 8.28 | 8.38 | 8.67 | 8.45 | 2.41 | ppb |
| Phosphorus | 31-2 | 401.16 | 403.56 | 423.34 | 409.35 | 2.97 | ppb |
| Potassium | 39-2 | 407.81 | 401.92 | 426.68 | 412.14 | 3.14 | ppb |
| Rhodium | 103-1 | | | | 108 | | % |
| Rhodium | 103-2 | | | | 105 | | % |
| Scandium | 45-1 | | | | 110 | | % |
| Scandium | 45-2 | | | | 109 | | % |
| Selenium | 82-1 | 0.37 | 0.42 | 0.17 | 0.32 | 42.31 | ppb |
| Selenium | 77-2 | 2.58 | 3.89 | 3.62 | 3.36 | 20.63 | ppb |
| Selenium | 78-2 | -0.05 | 0.05 | -0.07 | -0.02 | | ppb |
| Silicon | 28-1 | 268.95 | 263.84 | 266.86 | 266.55 | 0.96 | ppb |
| Silver | 107-1 | 0.07 | 0.06 | 0.06 | 0.06 | 13.56 | ppb |
| Silver | 109-1 | 0.07 | 0.06 | 0.05 | 0.06 | 16.29 | ppb |
| Sodium | 23-2 | 245.01 | 246.33 | 253.20 | 248.18 | 1.77 | ppb |
| Strontium | 86-1 | 6510.16 | 6408.46 | 6392.30 | 6436.97 | 0.99 | ppb |
| Strontium | 88-1 | 6323.35 | 6358.89 | 6335.00 | 6339.08 | 0.29 | ppb |
| Sulfur | 34-1 | 1073.63 | 1164.90 | 1179.70 | 1139.41 | 5.04 | ppb |
| Terbium | 159-1 | | | | 112 | | % |
| Terbium | 159-2 | | | | 108 | | % |
| Thallium | 203-1 | 0.21 | 0.21 | 0.26 | 0.23 | 13.97 | ppb |
| Thallium | 205-1 | 0.20 | 0.22 | 0.25 | 0.22 | 10.95 | ppb |
| Tin | 118-1 | 0.32 | 0.30 | 0.31 | 0.31 | 2.58 | ppb |
| Titanium | 47-1 | 40.18 | 40.55 | 39.97 | 40.23 | 0.73 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4879-22 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A11 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:33:13 | DataFile Name : | 023SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 1.52 | 1.35 | 1.36 | 1.41 | 6.75 | ppb |
| Vanadium | 51-2 | 8.30 | 8.25 | 8.85 | 8.46 | 3.92 | ppb |
| Yttrium | 89-1 | | | | 112 | | % |
| Yttrium | 89-2 | | | | 109 | | % |
| Zinc | 66-2 | 27.27 | 26.74 | 28.41 | 27.47 | 3.10 | ppb |
| Zirconium | 90-1 | 0.47 | 0.47 | 0.48 | 0.47 | 1.09 | ppb |
| Zirconium | 91-1 | 0.48 | 0.48 | 0.50 | 0.49 | 2.83 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-01 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z1 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:36:21 | DataFile Name : | 024SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 17.97 | 16.72 | 17.11 | 17.27 | 3.71 | ppb |
| Antimony | 121-1 | 0.08 | 0.09 | 0.08 | 0.08 | 6.97 | ppb |
| Arsenic | 75-2 | 1.49 | 1.54 | 1.51 | 1.51 | 1.63 | ppb |
| Barium | 135-1 | 89.41 | 91.50 | 89.75 | 90.22 | 1.24 | ppb |
| Barium | 137-1 | 90.04 | 92.19 | 91.27 | 91.16 | 1.18 | ppb |
| Beryllium | 9-1 | 0.01 | 0.00 | -0.01 | 0.00 | | ppb |
| Bismuth | 209-1 | | | | 113 | | % |
| Bismuth | 209-2 | | | | 107 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | -0.01 | 0.00 | 0.04 | 0.01 | 186.83 | ppb |
| Cadmium | 106-1 | -0.48 | -0.60 | -0.54 | -0.54 | | ppb |
| Cadmium | 111-1 | -0.02 | -0.03 | -0.03 | -0.03 | | ppb |
| Calcium | 43-1 | 78509.48 | 77698.77 | 76560.32 | 77589.52 | 1.26 | ppb |
| Calcium | 44-1 | 76746.24 | 76222.54 | 75738.67 | 76235.81 | 0.66 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 2.10 | 2.06 | 2.06 | 2.07 | 1.00 | ppb |
| Cobalt | 59-2 | 0.14 | 0.15 | 0.15 | 0.15 | 3.72 | ppb |
| Copper | 63-2 | 0.82 | 0.82 | 0.83 | 0.82 | 0.65 | 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 | | | | 116 | | % |
| Holmium | 165-2 | | | | 109 | | % |
| Indium | 115-1 | | | | 115 | | % |
| Indium | 115-2 | | | | 111 | | % |
| Iron | 56-2 | 55.48 | 55.03 | 55.12 | 55.21 | 0.43 | ppb |
| Iron | 57-2 | 450.74 | 460.52 | 457.33 | 456.20 | 1.09 | ppb |
| Iron | 54-2 | 56.02 | 54.41 | 55.52 | 55.32 | 1.49 | ppb |
| Krypton | 83-1 | | | | | | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-01 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z1 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:36:21 | DataFile Name : | 024SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.21 | 0.16 | 0.18 | 0.18 | 12.57 | ppb |
| Lead | 207-1 | 0.18 | 0.16 | 0.15 | 0.17 | 10.60 | ppb |
| Lead | 208-1 | 0.19 | 0.16 | 0.17 | 0.17 | 9.56 | ppb |
| Lithium | 6-1 | | | | 104 | | % |
| Magnesium | 24-2 | 29691.37 | 29101.66 | 29820.87 | 29537.97 | 1.30 | ppb |
| Manganese | 55-2 | 18.82 | 18.50 | 18.50 | 18.61 | 0.99 | ppb |
| Molybdenum | 94-1 | 4.54 | 4.57 | 4.64 | 4.58 | 1.12 | ppb |
| Molybdenum | 95-1 | 5.44 | 5.38 | 5.38 | 5.40 | 0.66 | ppb |
| Molybdenum | 96-1 | 5.38 | 5.40 | 5.40 | 5.39 | 0.18 | ppb |
| Molybdenum | 97-1 | 5.48 | 5.52 | 5.50 | 5.50 | 0.37 | ppb |
| Molybdenum | 98-1 | 5.52 | 5.52 | 5.56 | 5.53 | 0.35 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 2.33 | 2.28 | 2.34 | 2.32 | 1.45 | ppb |
| Phosphorus | 31-2 | 26.29 | 26.62 | 32.35 | 28.42 | 11.98 | ppb |
| Potassium | 39-2 | 3941.31 | 3976.07 | 3968.85 | 3962.08 | 0.46 | ppb |
| Rhodium | 103-1 | | | | 113 | | % |
| Rhodium | 103-2 | | | | 109 | | % |
| Scandium | 45-1 | | | | 114 | | % |
| Scandium | 45-2 | | | | 112 | | % |
| Selenium | 82-1 | 0.04 | -0.11 | 0.06 | 0.00 | | ppb |
| Selenium | 77-2 | 0.02 | 0.19 | 0.19 | 0.14 | 73.45 | ppb |
| Selenium | 78-2 | -0.27 | 0.20 | 0.17 | 0.03 | 821.31 | ppb |
| Silicon | 28-1 | 578.65 | 569.48 | 564.81 | 570.98 | 1.23 | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 6.15 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 22.98 | ppb |
| Sodium | 23-2 | 14900.82 | 14675.29 | 14877.04 | 14817.72 | 0.84 | ppb |
| Strontium | 86-1 | 61944.00 | 62992.82 | 62351.34 | 62429.38 | 0.85 | ppb |
| Strontium | 88-1 | 61467.25 | 62518.68 | 62031.59 | 62005.84 | 0.85 | ppb |
| Sulfur | 34-1 | 16397.23 | 16610.18 | 16047.41 | 16351.61 | 1.74 | ppb |
| Terbium | 159-1 | | | | 118 | | % |
| Terbium | 159-2 | | | | 111 | | % |
| Thallium | 203-1 | 0.06 | 0.05 | 0.05 | 0.05 | 6.22 | ppb |
| Thallium | 205-1 | 0.06 | 0.06 | 0.05 | 0.06 | 12.79 | ppb |
| Tin | 118-1 | 0.18 | 0.17 | 0.18 | 0.17 | 4.13 | ppb |
| Titanium | 47-1 | 8.84 | 0.53 | 0.53 | 3.30 | 145.35 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-01 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z1 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:36:21 | DataFile Name : | 024SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.86 | 0.86 | 0.88 | 0.86 | 1.41 | ppb |
| Vanadium | 51-2 | 0.20 | 0.23 | 0.22 | 0.22 | 7.94 | ppb |
| Yttrium | 89-1 | | | | 118 | | % |
| Yttrium | 89-2 | | | | 112 | | % |
| Zinc | 66-2 | 10.28 | 10.10 | 9.79 | 10.05 | 2.43 | ppb |
| Zirconium | 90-1 | 0.04 | 0.04 | 0.04 | 0.04 | 6.09 | ppb |
| Zirconium | 91-1 | 0.03 | 0.05 | 0.04 | 0.04 | 25.50 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-02 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:39:34 | DataFile Name : | 025SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 16.93 | 17.70 | 16.60 | 17.08 | 3.32 | ppb |
| Antimony | 121-1 | 0.07 | 0.06 | 0.07 | 0.07 | 4.41 | ppb |
| Arsenic | 75-2 | 1.49 | 1.52 | 1.43 | 1.48 | 3.14 | ppb |
| Barium | 135-1 | 94.03 | 91.80 | 93.18 | 93.00 | 1.21 | ppb |
| Barium | 137-1 | 95.16 | 92.96 | 94.83 | 94.32 | 1.26 | ppb |
| Beryllium | 9-1 | -0.01 | 0.00 | 0.02 | 0.00 | 324.35 | ppb |
| Bismuth | 209-1 | | | | 111 | | % |
| Bismuth | 209-2 | | | | 106 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.04 | 0.05 | 0.00 | 0.03 | 91.65 | ppb |
| Cadmium | 106-1 | -0.16 | -1.13 | -1.08 | -0.79 | | ppb |
| Cadmium | 111-1 | 0.01 | -0.08 | -0.07 | -0.05 | | ppb |
| Calcium | 43-1 | 79434.50 | 79387.24 | 77962.49 | 78928.08 | 1.06 | ppb |
| Calcium | 44-1 | 77566.10 | 77346.00 | 77061.27 | 77324.46 | 0.33 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.18 | -0.12 | -0.18 | -0.16 | | ppb |
| Cobalt | 59-2 | 0.11 | 0.11 | 0.12 | 0.11 | 4.74 | ppb |
| Copper | 63-2 | 0.66 | 0.71 | 0.68 | 0.68 | 3.75 | 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 | | | | 114 | | % |
| Holmium | 165-2 | | | | 110 | | % |
| Indium | 115-1 | | | | 113 | | % |
| Indium | 115-2 | | | | 110 | | % |
| Iron | 56-2 | 53.75 | 56.16 | 55.49 | 55.13 | 2.25 | ppb |
| Iron | 57-2 | 440.55 | 465.79 | 460.44 | 455.59 | 2.92 | ppb |
| Iron | 54-2 | 52.88 | 54.52 | 50.92 | 52.77 | 3.42 | ppb |
| Krypton | 83-1 | | | | | | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-02 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:39:34 | DataFile Name : | 025SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.12 | 0.11 | 0.10 | 0.11 | 8.18 | ppb |
| Lead | 207-1 | 0.09 | 0.09 | 0.10 | 0.09 | 7.90 | ppb |
| Lead | 208-1 | 0.11 | 0.10 | 0.10 | 0.10 | 3.43 | ppb |
| Lithium | 6-1 | | | | 102 | | % |
| Magnesium | 24-2 | 29254.78 | 30169.86 | 29929.89 | 29784.84 | 1.59 | ppb |
| Manganese | 55-2 | 7.63 | 7.98 | 7.90 | 7.84 | 2.36 | ppb |
| Molybdenum | 94-1 | 4.32 | 4.38 | 4.42 | 4.37 | 1.12 | ppb |
| Molybdenum | 95-1 | 5.24 | 5.18 | 5.12 | 5.18 | 1.13 | ppb |
| Molybdenum | 96-1 | 5.04 | 5.01 | 5.03 | 5.03 | 0.28 | ppb |
| Molybdenum | 97-1 | 5.28 | 5.16 | 5.21 | 5.22 | 1.20 | ppb |
| Molybdenum | 98-1 | 5.19 | 5.21 | 5.19 | 5.20 | 0.16 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.90 | 0.95 | 0.93 | 0.93 | 3.06 | ppb |
| Phosphorus | 31-2 | 20.95 | 29.48 | 20.36 | 23.60 | 21.62 | ppb |
| Potassium | 39-2 | 3912.25 | 4096.45 | 3996.96 | 4001.89 | 2.30 | ppb |
| Rhodium | 103-1 | | | | 112 | | % |
| Rhodium | 103-2 | | | | 108 | | % |
| Scandium | 45-1 | | | | 112 | | % |
| Scandium | 45-2 | | | | 111 | | % |
| Selenium | 82-1 | -0.05 | 0.14 | -0.33 | -0.08 | | ppb |
| Selenium | 77-2 | 0.19 | 0.02 | 0.11 | 0.11 | 78.43 | ppb |
| Selenium | 78-2 | -0.07 | -0.30 | -0.88 | -0.42 | | ppb |
| Silicon | 28-1 | 586.96 | 571.25 | 569.56 | 575.92 | 1.67 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 27.91 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 13.34 | ppb |
| Sodium | 23-2 | 14355.70 | 15055.14 | 14998.40 | 14803.08 | 2.62 | ppb |
| Strontium | 86-1 | 64154.03 | 64298.75 | 64017.41 | 64156.73 | 0.22 | ppb |
| Strontium | 88-1 | 64832.29 | 63565.25 | 64202.28 | 64199.94 | 0.99 | ppb |
| Sulfur | 34-1 | 16408.55 | 16006.17 | 15868.52 | 16094.41 | 1.74 | ppb |
| Terbium | 159-1 | | | | 114 | | % |
| Terbium | 159-2 | | | | 110 | | % |
| Thallium | 203-1 | 0.03 | 0.03 | 0.02 | 0.03 | 14.19 | ppb |
| Thallium | 205-1 | 0.04 | 0.03 | 0.03 | 0.03 | 10.40 | ppb |
| Tin | 118-1 | -0.20 | -0.20 | -0.20 | -0.20 | | ppb |
| Titanium | 47-1 | 0.94 | 0.54 | 0.93 | 0.80 | 28.36 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-02 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:39:34 | DataFile Name : | 025SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.89 | 0.87 | 0.88 | 0.88 | 1.14 | ppb |
| Vanadium | 51-2 | 0.22 | 0.22 | 0.20 | 0.21 | 6.34 | ppb |
| Yttrium | 89-1 | | | | 115 | | % |
| Yttrium | 89-2 | | | | 111 | | % |
| Zinc | 66-2 | -3.53 | -3.33 | -3.58 | -3.48 | | ppb |
| Zirconium | 90-1 | 0.05 | 0.04 | 0.04 | 0.04 | 6.33 | ppb |
| Zirconium | 91-1 | 0.04 | 0.05 | 0.05 | 0.05 | 18.61 | ppb |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-03 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z5 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:42:42 | DataFile Name : | 026SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 25.60 | 25.21 | 24.48 | 25.10 | 2.28 | ppb |
| Antimony | 121-1 | 0.08 | 0.07 | 0.07 | 0.07 | 7.02 | ppb |
| Arsenic | 75-2 | 1.53 | 1.52 | 1.39 | 1.48 | 5.30 | ppb |
| Barium | 135-1 | 91.18 | 92.53 | 91.13 | 91.61 | 0.87 | ppb |
| Barium | 137-1 | 93.35 | 92.88 | 92.66 | 92.96 | 0.38 | ppb |
| Beryllium | 9-1 | -0.01 | 0.00 | 0.02 | 0.00 | | ppb |
| Bismuth | 209-1 | | | | 111 | | % |
| Bismuth | 209-2 | | | | 108 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.00 | 0.09 | 0.06 | 0.05 | 97.96 | ppb |
| Cadmium | 106-1 | -0.40 | -0.49 | -1.06 | -0.65 | | ppb |
| Cadmium | 111-1 | -0.02 | -0.03 | -0.08 | -0.04 | | ppb |
| Calcium | 43-1 | 77327.05 | 77742.46 | 77036.17 | 77368.56 | 0.46 | ppb |
| Calcium | 44-1 | 76081.97 | 76378.24 | 76949.38 | 76469.86 | 0.58 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1.79 | 1.76 | 1.68 | 1.74 | 3.18 | ppb |
| Cobalt | 59-2 | 0.15 | 0.15 | 0.14 | 0.14 | 3.30 | ppb |
| Copper | 63-2 | 0.78 | 0.77 | 0.73 | 0.76 | 3.04 | 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 | | | | 116 | | % |
| Holmium | 165-2 | | | | 110 | | % |
| Indium | 115-1 | | | | 114 | | % |
| Indium | 115-2 | | | | 110 | | % |
| Iron | 56-2 | 78.47 | 77.34 | 75.66 | 77.16 | 1.83 | ppb |
| Iron | 57-2 | 480.07 | 473.23 | 467.62 | 473.64 | 1.32 | ppb |
| Iron | 54-2 | 78.34 | 78.63 | 73.81 | 76.93 | 3.51 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-03 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z5 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:42:42 | DataFile Name : | 026SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.26 | 0.24 | 0.25 | 0.25 | 2.99 | ppb |
| Lead | 207-1 | 0.23 | 0.22 | 0.24 | 0.23 | 3.96 | ppb |
| Lead | 208-1 | 0.24 | 0.23 | 0.24 | 0.24 | 2.01 | ppb |
| Lithium | 6-1 | | | | 106 | | % |
| Magnesium | 24-2 | 29773.69 | 29060.60 | 28808.54 | 29214.28 | 1.71 | ppb |
| Manganese | 55-2 | 10.47 | 10.31 | 9.99 | 10.26 | 2.42 | ppb |
| Molybdenum | 94-1 | 4.57 | 4.64 | 4.63 | 4.61 | 0.76 | ppb |
| Molybdenum | 95-1 | 5.31 | 5.33 | 5.37 | 5.34 | 0.61 | ppb |
| Molybdenum | 96-1 | 5.23 | 5.24 | 5.26 | 5.24 | 0.28 | ppb |
| Molybdenum | 97-1 | 5.37 | 5.58 | 5.37 | 5.44 | 2.26 | ppb |
| Molybdenum | 98-1 | 5.34 | 5.42 | 5.46 | 5.41 | 1.18 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 2.37 | 2.41 | 2.32 | 2.37 | 1.89 | ppb |
| Phosphorus | 31-2 | 38.53 | 35.71 | 42.91 | 39.05 | 9.29 | ppb |
| Potassium | 39-2 | 4018.66 | 4051.43 | 3920.67 | 3996.92 | 1.70 | ppb |
| Rhodium | 103-1 | | | | 112 | | % |
| Rhodium | 103-2 | | | | 109 | | % |
| Scandium | 45-1 | | | | 112 | | % |
| Scandium | 45-2 | | | | 111 | | % |
| Selenium | 82-1 | 0.24 | 0.09 | 0.04 | 0.12 | 85.03 | ppb |
| Selenium | 77-2 | 0.11 | -0.06 | 0.02 | 0.02 | 402.73 | ppb |
| Selenium | 78-2 | -0.24 | -0.57 | -0.66 | -0.49 | | ppb |
| Silicon | 28-1 | 574.45 | 576.19 | 583.03 | 577.89 | 0.78 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 20.54 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 22.06 | ppb |
| Sodium | 23-2 | 14569.86 | 14212.11 | 14240.59 | 14340.85 | 1.39 | ppb |
| Strontium | 86-1 | 63069.30 | 63485.96 | 63987.82 | 63514.36 | 0.72 | ppb |
| Strontium | 88-1 | 63275.80 | 63384.11 | 63775.09 | 63478.33 | 0.41 | ppb |
| Sulfur | 34-1 | 15938.80 | 15951.84 | 16032.70 | 15974.45 | 0.32 | ppb |
| Terbium | 159-1 | | | | 115 | | % |
| Terbium | 159-2 | | | | 111 | | % |
| Thallium | 203-1 | 0.02 | 0.02 | 0.02 | 0.02 | 11.33 | ppb |
| Thallium | 205-1 | 0.02 | 0.02 | 0.02 | 0.02 | 8.47 | ppb |
| Tin | 118-1 | -0.15 | -0.15 | -0.15 | -0.15 | | ppb |
| Titanium | 47-1 | 0.68 | 0.78 | 0.81 | 0.76 | 8.59 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-03 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z5 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:42:42 | DataFile Name : | 026SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.88 | 0.90 | 0.88 | 0.88 | 1.07 | ppb |
| Vanadium | 51-2 | 0.24 | 0.22 | 0.22 | 0.23 | 4.92 | ppb |
| Yttrium | 89-1 | | | | 116 | | % |
| Yttrium | 89-2 | | | | 112 | | % |
| Zinc | 66-2 | -1.63 | -1.99 | -2.21 | -1.94 | | ppb |
| Zirconium | 90-1 | 0.07 | 0.08 | 0.07 | 0.07 | 10.69 | ppb |
| Zirconium | 91-1 | 0.09 | 0.07 | 0.08 | 0.08 | 14.80 | ppb |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-04 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:45:52 | DataFile Name : | 027SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 10.26 | 9.61 | 9.34 | 9.74 | 4.85 | ppb |
| Antimony | 121-1 | 0.06 | 0.07 | 0.06 | 0.06 | 9.05 | ppb |
| Arsenic | 75-2 | 1.54 | 1.51 | 1.56 | 1.54 | 1.45 | ppb |
| Barium | 135-1 | 91.46 | 93.21 | 92.93 | 92.54 | 1.02 | ppb |
| Barium | 137-1 | 92.59 | 94.31 | 94.15 | 93.68 | 1.02 | ppb |
| Beryllium | 9-1 | -0.01 | -0.02 | -0.02 | -0.02 | | ppb |
| Bismuth | 209-1 | | | | 113 | | % |
| Bismuth | 209-2 | | | | 109 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.03 | 0.04 | 0.02 | 0.03 | 39.18 | ppb |
| Cadmium | 106-1 | -0.03 | -1.04 | -0.63 | -0.57 | | ppb |
| Cadmium | 111-1 | 0.00 | -0.07 | -0.04 | -0.03 | | ppb |
| Calcium | 43-1 | 79124.10 | 78584.57 | 79542.46 | 79083.71 | 0.61 | ppb |
| Calcium | 44-1 | 77914.69 | 77539.71 | 78485.76 | 77980.05 | 0.61 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.08 | -0.03 | -0.08 | -0.06 | | ppb |
| Cobalt | 59-2 | 0.10 | 0.10 | 0.11 | 0.11 | 2.95 | ppb |
| Copper | 63-2 | 0.88 | 0.87 | 0.89 | 0.88 | 1.18 | 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 | | | | 116 | | % |
| Holmium | 165-2 | | | | 111 | | % |
| Indium | 115-1 | | | | 113 | | % |
| Indium | 115-2 | | | | 109 | | % |
| Iron | 56-2 | 43.21 | 42.20 | 41.06 | 42.16 | 2.55 | ppb |
| Iron | 57-2 | 430.60 | 444.28 | 437.00 | 437.29 | 1.56 | ppb |
| Iron | 54-2 | 38.20 | 40.22 | 38.98 | 39.13 | 2.59 | ppb |
| Krypton | 83-1 | | | | | | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-04 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:45:52 | DataFile Name : | 027SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.08 | 0.09 | 0.09 | 0.08 | 3.66 | ppb |
| Lead | 207-1 | 0.09 | 0.07 | 0.09 | 0.09 | 11.77 | ppb |
| Lead | 208-1 | 0.08 | 0.08 | 0.08 | 0.08 | 0.16 | ppb |
| Lithium | 6-1 | | | | 109 | | % |
| Magnesium | 24-2 | 29526.84 | 30323.44 | 29608.92 | 29819.73 | 1.47 | ppb |
| Manganese | 55-2 | 5.73 | 5.81 | 5.62 | 5.72 | 1.67 | ppb |
| Molybdenum | 94-1 | 4.21 | 4.20 | 4.21 | 4.21 | 0.16 | ppb |
| Molybdenum | 95-1 | 5.00 | 5.02 | 5.07 | 5.03 | 0.68 | ppb |
| Molybdenum | 96-1 | 4.94 | 4.98 | 4.98 | 4.97 | 0.50 | ppb |
| Molybdenum | 97-1 | 5.04 | 5.12 | 5.05 | 5.07 | 0.76 | ppb |
| Molybdenum | 98-1 | 5.08 | 5.19 | 5.17 | 5.15 | 1.10 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.81 | 0.85 | 0.86 | 0.84 | 2.81 | ppb |
| Phosphorus | 31-2 | 21.73 | 18.93 | 18.99 | 19.88 | 8.04 | ppb |
| Potassium | 39-2 | 3854.98 | 3837.87 | 3802.68 | 3831.84 | 0.70 | ppb |
| Rhodium | 103-1 | | | | 113 | | % |
| Rhodium | 103-2 | | | | 108 | | % |
| Scandium | 45-1 | | | | 111 | | % |
| Scandium | 45-2 | | | | 112 | | % |
| Selenium | 82-1 | 0.34 | 0.17 | 0.20 | 0.24 | 38.01 | ppb |
| Selenium | 77-2 | 0.11 | 0.02 | 0.11 | 0.08 | 62.06 | ppb |
| Selenium | 78-2 | -0.08 | -1.10 | -0.52 | -0.57 | | ppb |
| Silicon | 28-1 | 578.67 | 582.50 | 592.67 | 584.61 | 1.24 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 41.82 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 7.40 | ppb |
| Sodium | 23-2 | 14554.62 | 14781.49 | 14703.31 | 14679.80 | 0.79 | ppb |
| Strontium | 86-1 | 64704.91 | 65565.07 | 64848.46 | 65039.48 | 0.71 | ppb |
| Strontium | 88-1 | 65224.92 | 65414.61 | 65614.58 | 65418.04 | 0.30 | ppb |
| Sulfur | 34-1 | 15846.89 | 16194.06 | 17034.15 | 16358.37 | 3.73 | ppb |
| Terbium | 159-1 | | | | 115 | | % |
| Terbium | 159-2 | | | | 112 | | % |
| Thallium | 203-1 | 0.02 | 0.02 | 0.02 | 0.02 | 13.82 | ppb |
| Thallium | 205-1 | 0.02 | 0.02 | 0.02 | 0.02 | 4.08 | ppb |
| Tin | 118-1 | -0.12 | -0.14 | -0.14 | -0.13 | | ppb |
| Titanium | 47-1 | 0.34 | 0.31 | 0.96 | 0.54 | 68.14 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-04 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:45:52 | DataFile Name : | 027SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.88 | 0.90 | 0.92 | 0.90 | 2.19 | ppb |
| Vanadium | 51-2 | 0.18 | 0.22 | 0.19 | 0.19 | 9.51 | ppb |
| Yttrium | 89-1 | | | | 116 | | % |
| Yttrium | 89-2 | | | | 110 | | % |
| Zinc | 66-2 | -2.67 | -2.67 | -2.54 | -2.63 | | ppb |
| Zirconium | 90-1 | 0.02 | 0.02 | 0.03 | 0.02 | 27.76 | ppb |
| Zirconium | 91-1 | 0.02 | 0.02 | 0.02 | 0.02 | 4.21 | ppb |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-05 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A13 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:49:00 | DataFile Name : | 028SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 14.69 | 15.12 | 18.85 | 16.22 | 14.10 | ppb |
| Antimony | 121-1 | 0.06 | 0.06 | 0.07 | 0.07 | 9.72 | ppb |
| Arsenic | 75-2 | 1.38 | 1.48 | 1.30 | 1.39 | 6.60 | ppb |
| Barium | 135-1 | 89.02 | 89.91 | 91.24 | 90.06 | 1.24 | ppb |
| Barium | 137-1 | 90.24 | 90.80 | 91.92 | 90.98 | 0.94 | ppb |
| Beryllium | 9-1 | -0.01 | -0.02 | -0.01 | -0.02 | | ppb |
| Bismuth | 209-1 | | | | 114 | | % |
| Bismuth | 209-2 | | | | 110 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.00 | 0.05 | -0.03 | 0.01 | 586.92 | ppb |
| Cadmium | 106-1 | -0.19 | -0.50 | -1.23 | -0.64 | | ppb |
| Cadmium | 111-1 | -0.01 | -0.04 | -0.09 | -0.04 | | ppb |
| Calcium | 43-1 | 77273.68 | 77026.83 | 77211.85 | 77170.78 | 0.17 | ppb |
| Calcium | 44-1 | 75764.46 | 75782.60 | 75683.26 | 75743.44 | 0.07 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.95 | 0.91 | 0.92 | 0.92 | 2.43 | ppb |
| Cobalt | 59-2 | 0.13 | 0.13 | 0.14 | 0.13 | 3.59 | ppb |
| Copper | 63-2 | 0.76 | 0.77 | 0.73 | 0.75 | 2.49 | 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 | | | | 117 | | % |
| Holmium | 165-2 | | | | 112 | | % |
| Indium | 115-1 | | | | 113 | | % |
| Indium | 115-2 | | | | 109 | | % |
| Iron | 56-2 | 51.73 | 50.78 | 50.51 | 51.01 | 1.26 | ppb |
| Iron | 57-2 | 442.51 | 447.10 | 450.59 | 446.73 | 0.91 | ppb |
| Iron | 54-2 | 48.21 | 47.86 | 49.02 | 48.36 | 1.23 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-05 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A13 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:49:00 | DataFile Name : | 028SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.19 | 0.17 | 0.19 | 0.18 | 6.01 | ppb |
| Lead | 207-1 | 0.18 | 0.16 | 0.17 | 0.17 | 3.26 | ppb |
| Lead | 208-1 | 0.18 | 0.18 | 0.18 | 0.18 | 1.48 | ppb |
| Lithium | 6-1 | | | | 107 | | % |
| Magnesium | 24-2 | 29777.26 | 29569.92 | 29863.46 | 29736.88 | 0.51 | ppb |
| Manganese | 55-2 | 9.02 | 8.85 | 9.04 | 8.97 | 1.16 | ppb |
| Molybdenum | 94-1 | 4.04 | 3.97 | 4.01 | 4.00 | 0.93 | ppb |
| Molybdenum | 95-1 | 4.85 | 4.89 | 4.90 | 4.88 | 0.56 | ppb |
| Molybdenum | 96-1 | 4.77 | 4.71 | 4.71 | 4.73 | 0.76 | ppb |
| Molybdenum | 97-1 | 4.83 | 4.90 | 4.91 | 4.88 | 0.92 | ppb |
| Molybdenum | 98-1 | 4.84 | 4.80 | 4.88 | 4.84 | 0.84 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 1.97 | 1.84 | 1.86 | 1.89 | 3.74 | ppb |
| Phosphorus | 31-2 | 24.16 | 28.13 | 28.07 | 26.79 | 8.50 | ppb |
| Potassium | 39-2 | 3921.89 | 3941.18 | 3975.76 | 3946.28 | 0.69 | ppb |
| Rhodium | 103-1 | | | | 111 | | % |
| Rhodium | 103-2 | | | | 108 | | % |
| Scandium | 45-1 | | | | 111 | | % |
| Scandium | 45-2 | | | | 109 | | % |
| Selenium | 82-1 | 0.24 | -0.04 | 0.15 | 0.12 | 119.31 | ppb |
| Selenium | 77-2 | 0.11 | 0.02 | 0.02 | 0.05 | 96.35 | ppb |
| Selenium | 78-2 | -0.93 | -0.11 | -0.30 | -0.45 | | ppb |
| Silicon | 28-1 | 581.64 | 575.24 | 579.00 | 578.63 | 0.56 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 38.87 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 49.88 | ppb |
| Sodium | 23-2 | 14477.37 | 14470.36 | 14442.73 | 14463.49 | 0.13 | ppb |
| Strontium | 86-1 | 63440.04 | 64051.47 | 62988.73 | 63493.41 | 0.84 | ppb |
| Strontium | 88-1 | 62981.81 | 63467.16 | 62853.30 | 63100.76 | 0.51 | ppb |
| Sulfur | 34-1 | 16596.63 | 16015.45 | 16521.68 | 16377.92 | 1.93 | ppb |
| Terbium | 159-1 | | | | 116 | | % |
| Terbium | 159-2 | | | | 112 | | % |
| Thallium | 203-1 | 0.02 | 0.01 | 0.01 | 0.01 | 19.30 | ppb |
| Thallium | 205-1 | 0.02 | 0.01 | 0.01 | 0.01 | 12.36 | ppb |
| Tin | 118-1 | -0.18 | -0.20 | -0.19 | -0.19 | | ppb |
| Titanium | 47-1 | 0.40 | 0.48 | 0.42 | 0.43 | 9.56 | ppb |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-05 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A13 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:49:00 | DataFile Name : | 028SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.85 | 0.86 | 0.87 | 0.86 | 1.16 | ppb |
| Vanadium | 51-2 | 0.21 | 0.20 | 0.21 | 0.21 | 3.02 | ppb |
| Yttrium | 89-1 | | | | 115 | | % |
| Yttrium | 89-2 | | | | 110 | | % |
| Zinc | 66-2 | -2.83 | -2.89 | -2.96 | -2.89 | | ppb |
| Zirconium | 90-1 | 0.03 | 0.03 | 0.04 | 0.03 | 13.94 | ppb |
| Zirconium | 91-1 | 0.04 | 0.02 | 0.03 | 0.03 | 30.83 | ppb |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-06 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A19 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:52:10 | DataFile Name : | 029SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 17.85 | 17.20 | 17.02 | 17.36 | 2.52 | ppb |
| Antimony | 121-1 | 0.04 | 0.04 | 0.04 | 0.04 | 7.64 | ppb |
| Arsenic | 75-2 | -0.02 | -0.01 | -0.01 | -0.01 | | ppb |
| Barium | 135-1 | 0.12 | 0.11 | 0.18 | 0.14 | 30.89 | ppb |
| Barium | 137-1 | 0.13 | 0.13 | 0.18 | 0.15 | 18.82 | ppb |
| Beryllium | 9-1 | -0.03 | -0.03 | -0.01 | -0.03 | | ppb |
| Bismuth | 209-1 | | | | 116 | | % |
| Bismuth | 209-2 | | | | 113 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | -0.04 | -0.01 | 0.01 | -0.01 | | ppb |
| Cadmium | 106-1 | -0.16 | -0.44 | -0.47 | -0.36 | | ppb |
| Cadmium | 111-1 | -0.02 | -0.04 | -0.03 | -0.03 | | ppb |
| Calcium | 43-1 | 29.05 | 24.96 | 26.69 | 26.90 | 7.63 | ppb |
| Calcium | 44-1 | 23.66 | 30.08 | 24.90 | 26.21 | 12.99 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.23 | -0.24 | -0.25 | -0.24 | | ppb |
| Cobalt | 59-2 | -0.01 | -0.01 | -0.02 | -0.02 | | ppb |
| Copper | 63-2 | 0.39 | 0.38 | 0.39 | 0.39 | 1.98 | 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 | | | | 115 | | % |
| Holmium | 165-2 | | | | 112 | | % |
| Indium | 115-1 | | | | 114 | | % |
| Indium | 115-2 | | | | 111 | | % |
| Iron | 56-2 | -0.07 | -0.21 | -0.13 | -0.14 | | ppb |
| Iron | 57-2 | -0.36 | -1.36 | -0.33 | -0.68 | | ppb |
| Iron | 54-2 | -2.38 | -2.62 | -2.46 | -2.49 | | ppb |
| Krypton | 83-1 | | | | | | cps |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-06 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A19 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:52:10 | DataFile Name : | 029SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | -0.02 | -0.02 | -0.02 | -0.02 | | ppb |
| Lead | 207-1 | -0.02 | -0.01 | -0.02 | -0.02 | | ppb |
| Lead | 208-1 | -0.02 | -0.02 | -0.02 | -0.02 | | ppb |
| Lithium | 6-1 | | | | 109 | | % |
| Magnesium | 24-2 | 3.98 | 3.65 | 3.79 | 3.81 | 4.32 | ppb |
| Manganese | 55-2 | -1.01 | -1.08 | -1.02 | -1.03 | | ppb |
| Molybdenum | 94-1 | -0.02 | -0.01 | -0.02 | -0.02 | | ppb |
| Molybdenum | 95-1 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |
| Molybdenum | 96-1 | -0.01 | -0.01 | -0.02 | -0.01 | | ppb |
| Molybdenum | 97-1 | -0.02 | -0.02 | -0.01 | -0.02 | | ppb |
| Molybdenum | 98-1 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.00 | 0.01 | 0.02 | 0.01 | 113.06 | ppb |
| Phosphorus | 31-2 | -19.01 | -21.86 | -18.34 | -19.74 | | ppb |
| Potassium | 39-2 | 5.33 | 3.64 | 6.97 | 5.31 | 31.32 | ppb |
| Rhodium | 103-1 | | | | 112 | | % |
| Rhodium | 103-2 | | | | 112 | | % |
| Scandium | 45-1 | | | | 109 | | % |
| Scandium | 45-2 | | | | 109 | | % |
| Selenium | 82-1 | -0.03 | -0.06 | -0.29 | -0.13 | | ppb |
| Selenium | 77-2 | 0.11 | 0.02 | 0.02 | 0.05 | 95.91 | ppb |
| Selenium | 78-2 | -0.69 | -1.37 | -0.48 | -0.85 | | ppb |
| Silicon | 28-1 | -1.41 | -0.81 | -1.09 | -1.10 | | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 70.95 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.01 | 0.00 | 50.38 | ppb |
| Sodium | 23-2 | 33.76 | 31.48 | 33.57 | 32.94 | 3.83 | ppb |
| Strontium | 86-1 | 9.57 | 6.90 | 6.40 | 7.62 | 22.32 | ppb |
| Strontium | 88-1 | 9.71 | 7.55 | 6.61 | 7.96 | 20.00 | ppb |
| Sulfur | 34-1 | 33.42 | 255.08 | 148.55 | 145.69 | 76.09 | ppb |
| Terbium | 159-1 | | | | 114 | | % |
| Terbium | 159-2 | | | | 111 | | % |
| Thallium | 203-1 | 0.01 | 0.00 | 0.01 | 0.01 | 56.55 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 4.66 | ppb |
| Tin | 118-1 | -0.23 | -0.19 | -0.22 | -0.21 | | ppb |
| Titanium | 47-1 | -0.03 | -0.02 | -0.02 | -0.02 | | ppb |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-06 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A19 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:52:10 | DataFile Name : | 029SMPL.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 | 0.01 | 0.01 | 0.00 | 0.00 | 93.88 | ppb |
| Yttrium | 89-1 | | | | 112 | | % |
| Yttrium | 89-2 | | | | 111 | | % |
| Zinc | 66-2 | -1.50 | -1.51 | -1.28 | -1.43 | | ppb |
| Zirconium | 90-1 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |
| Zirconium | 91-1 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-07 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A22 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:55:24 | DataFile Name : | 030SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 0.81 | 0.92 | 0.79 | 0.84 | 8.40 | ppb |
| Antimony | 121-1 | 0.00 | 0.00 | 0.00 | 0.00 | 27.92 | ppb |
| Arsenic | 75-2 | -0.01 | -0.01 | 0.00 | -0.01 | | ppb |
| Barium | 135-1 | -0.03 | -0.03 | -0.02 | -0.03 | | ppb |
| Barium | 137-1 | -0.03 | -0.03 | -0.03 | -0.03 | | ppb |
| Beryllium | 9-1 | 0.00 | -0.01 | -0.01 | -0.01 | | ppb |
| Bismuth | 209-1 | | | | 115 | | % |
| Bismuth | 209-2 | | | | 110 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | -0.03 | -0.04 | 0.02 | -0.02 | | ppb |
| Cadmium | 106-1 | -0.76 | -0.61 | -0.89 | -0.75 | | ppb |
| Cadmium | 111-1 | -0.06 | -0.05 | -0.07 | -0.06 | | ppb |
| Calcium | 43-1 | -39.32 | -38.93 | -38.19 | -38.81 | | ppb |
| Calcium | 44-1 | -39.40 | -38.95 | -38.19 | -38.85 | | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.17 | -0.19 | -0.17 | -0.18 | | ppb |
| Cobalt | 59-2 | -0.02 | -0.02 | -0.02 | -0.02 | | ppb |
| Copper | 63-2 | 0.01 | 0.00 | 0.00 | 0.00 | 176.41 | 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 | | | | 114 | | % |
| Holmium | 165-2 | | | | 110 | | % |
| Indium | 115-1 | | | | 112 | | % |
| Indium | 115-2 | | | | 108 | | % |
| Iron | 56-2 | -0.67 | -0.63 | -0.61 | -0.64 | | ppb |
| Iron | 57-2 | -1.44 | -1.85 | -1.40 | -1.57 | | ppb |
| Iron | 54-2 | -2.64 | -3.10 | -2.58 | -2.78 | | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-07 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A22 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:55:24 | DataFile Name : | 030SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | -0.01 | -0.02 | -0.01 | -0.01 | | ppb |
| Lead | 207-1 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |
| Lead | 208-1 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |
| Lithium | 6-1 | | | | 110 | | % |
| Magnesium | 24-2 | -0.69 | -0.63 | -0.55 | -0.62 | | ppb |
| Manganese | 55-2 | -0.19 | -0.16 | -0.15 | -0.17 | | ppb |
| Molybdenum | 94-1 | -0.03 | -0.02 | -0.03 | -0.03 | | ppb |
| Molybdenum | 95-1 | -0.02 | -0.02 | -0.01 | -0.02 | | ppb |
| Molybdenum | 96-1 | -0.02 | -0.02 | -0.01 | -0.02 | | ppb |
| Molybdenum | 97-1 | -0.01 | -0.02 | -0.02 | -0.02 | | ppb |
| Molybdenum | 98-1 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.01 | 0.00 | -0.01 | -0.01 | | ppb |
| Phosphorus | 31-2 | -17.19 | -17.03 | -16.19 | -16.80 | | ppb |
| Potassium | 39-2 | 5.03 | 4.68 | 4.72 | 4.81 | 4.03 | ppb |
| Rhodium | 103-1 | | | | 112 | | % |
| Rhodium | 103-2 | | | | 109 | | % |
| Scandium | 45-1 | | | | 108 | | % |
| Scandium | 45-2 | | | | 107 | | % |
| Selenium | 82-1 | 0.09 | -0.09 | -0.31 | -0.11 | | ppb |
| Selenium | 77-2 | -0.06 | 0.11 | -0.06 | -0.01 | | ppb |
| Selenium | 78-2 | -0.61 | -1.04 | -0.94 | -0.86 | | ppb |
| Silicon | 28-1 | -1.93 | -1.74 | -1.62 | -1.76 | | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 92.25 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 76.34 | ppb |
| Sodium | 23-2 | 2.67 | 2.09 | 2.36 | 2.37 | 12.18 | ppb |
| Strontium | 86-1 | -0.08 | -0.33 | -0.30 | -0.24 | | ppb |
| Strontium | 88-1 | -0.34 | -0.40 | -0.41 | -0.38 | | ppb |
| Sulfur | 34-1 | 72.01 | 143.48 | 163.14 | 126.21 | 38.00 | ppb |
| Terbium | 159-1 | | | | 114 | | % |
| Terbium | 159-2 | | | | 110 | | % |
| Thallium | 203-1 | 0.01 | 0.00 | 0.00 | 0.00 | 109.83 | ppb |
| Thallium | 205-1 | 0.00 | 0.01 | 0.00 | 0.00 | 52.40 | ppb |
| Tin | 118-1 | -0.18 | -0.18 | -0.19 | -0.18 | | ppb |
| Titanium | 47-1 | -0.03 | -0.01 | -0.02 | -0.02 | | ppb |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-07 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A22 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:55:24 | DataFile Name : | 030SMPL.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 | 0.00 | 0.00 | 0.00 | 84.28 | ppb |
| Yttrium | 89-1 | | | | 111 | | % |
| Yttrium | 89-2 | | | | 107 | | % |
| Zinc | 66-2 | -3.29 | -3.24 | -3.19 | -3.24 | | ppb |
| Zirconium | 90-1 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |
| Zirconium | 91-1 | -0.01 | -0.02 | -0.02 | -0.02 | | ppb |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-08 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A23 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:58:40 | DataFile Name : | 031SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2.37 | 1.64 | 1.86 | 1.95 | 19.11 | ppb |
| Antimony | 121-1 | 0.00 | 0.00 | 0.00 | 0.00 | 107.06 | ppb |
| Arsenic | 75-2 | -0.01 | -0.01 | -0.02 | -0.01 | | ppb |
| Barium | 135-1 | 0.00 | 0.00 | -0.02 | -0.01 | | ppb |
| Barium | 137-1 | 0.00 | -0.01 | -0.01 | 0.00 | | ppb |
| Beryllium | 9-1 | -0.01 | -0.01 | -0.02 | -0.01 | | ppb |
| Bismuth | 209-1 | | | | 116 | | % |
| Bismuth | 209-2 | | | | 110 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | -0.05 | -0.04 | -0.01 | -0.03 | | ppb |
| Cadmium | 106-1 | -0.47 | -0.88 | -0.78 | -0.71 | | ppb |
| Cadmium | 111-1 | -0.04 | -0.06 | -0.06 | -0.05 | | ppb |
| Calcium | 43-1 | -39.84 | -40.72 | -42.19 | -40.92 | | ppb |
| Calcium | 44-1 | -43.16 | -43.84 | -42.40 | -43.13 | | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.19 | -0.20 | -0.21 | -0.20 | | ppb |
| Cobalt | 59-2 | -0.01 | -0.02 | -0.02 | -0.02 | | ppb |
| Copper | 63-2 | 0.05 | 0.03 | 0.05 | 0.04 | 23.73 | 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 | | | | 113 | | % |
| Holmium | 165-2 | | | | 109 | | % |
| Indium | 115-1 | | | | 112 | | % |
| Indium | 115-2 | | | | 108 | | % |
| Iron | 56-2 | -0.47 | -0.12 | -0.38 | -0.32 | | ppb |
| Iron | 57-2 | -0.92 | -1.34 | -1.25 | -1.17 | | ppb |
| Iron | 54-2 | -2.95 | -2.97 | -3.00 | -2.97 | | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-08 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A23 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:58:40 | DataFile Name : | 031SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |
| Lead | 207-1 | -0.01 | -0.02 | -0.03 | -0.02 | | ppb |
| Lead | 208-1 | -0.01 | -0.01 | -0.02 | -0.01 | | ppb |
| Lithium | 6-1 | | | | 109 | | % |
| Magnesium | 24-2 | -0.88 | -0.76 | -0.62 | -0.75 | | ppb |
| Manganese | 55-2 | -0.94 | -0.98 | -0.92 | -0.95 | | ppb |
| Molybdenum | 94-1 | -0.03 | -0.02 | -0.02 | -0.02 | | ppb |
| Molybdenum | 95-1 | -0.02 | -0.02 | -0.02 | -0.02 | | ppb |
| Molybdenum | 96-1 | -0.01 | -0.02 | -0.01 | -0.02 | | ppb |
| Molybdenum | 97-1 | -0.01 | -0.02 | -0.02 | -0.02 | | ppb |
| Molybdenum | 98-1 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.03 | -0.03 | -0.05 | -0.04 | | ppb |
| Phosphorus | 31-2 | -22.82 | -19.86 | -17.15 | -19.94 | | ppb |
| Potassium | 39-2 | 3.25 | 4.31 | 5.29 | 4.28 | 23.77 | ppb |
| Rhodium | 103-1 | | | | 111 | | % |
| Rhodium | 103-2 | | | | 109 | | % |
| Scandium | 45-1 | | | | 108 | | % |
| Scandium | 45-2 | | | | 106 | | % |
| Selenium | 82-1 | 0.01 | -0.20 | -0.15 | -0.11 | | ppb |
| Selenium | 77-2 | 0.11 | -0.06 | -0.06 | -0.01 | | ppb |
| Selenium | 78-2 | -0.69 | -1.05 | -1.04 | -0.93 | | ppb |
| Silicon | 28-1 | -2.05 | -1.96 | -1.79 | -1.93 | | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 63.37 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 105.40 | ppb |
| Sodium | 23-2 | 12.17 | 12.25 | 12.95 | 12.46 | 3.44 | ppb |
| Strontium | 86-1 | 1.70 | 1.55 | 1.28 | 1.51 | 14.02 | ppb |
| Strontium | 88-1 | 1.73 | 1.36 | 1.54 | 1.54 | 12.09 | ppb |
| Sulfur | 34-1 | 84.99 | 123.14 | 161.71 | 123.28 | 31.12 | ppb |
| Terbium | 159-1 | | | | 114 | | % |
| Terbium | 159-2 | | | | 110 | | % |
| Thallium | 203-1 | 0.01 | 0.00 | 0.00 | 0.00 | 102.02 | ppb |
| Thallium | 205-1 | 0.00 | 0.00 | 0.00 | 0.00 | 59.16 | ppb |
| Tin | 118-1 | -0.14 | -0.13 | -0.13 | -0.13 | | ppb |
| Titanium | 47-1 | -0.03 | -0.02 | -0.03 | -0.03 | | ppb |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-08 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A23 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:58:40 | DataFile Name : | 031SMPL.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 | 0.01 | 0.01 | 0.01 | 0.01 | 36.80 | ppb |
| Yttrium | 89-1 | | | | 111 | | % |
| Yttrium | 89-2 | | | | 108 | | % |
| Zinc | 66-2 | -4.26 | -4.32 | -4.21 | -4.26 | | ppb |
| Zirconium | 90-1 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |
| Zirconium | 91-1 | -0.01 | -0.02 | -0.01 | -0.01 | | ppb |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-09 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z9 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:01:54 | DataFile Name : | 032SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 14.33 | 13.95 | 15.48 | 14.59 | 5.47 | ppb |
| Antimony | 121-1 | 0.08 | 0.08 | 0.08 | 0.08 | 1.28 | ppb |
| Arsenic | 75-2 | 1.42 | 1.44 | 1.50 | 1.45 | 2.92 | ppb |
| Barium | 135-1 | 95.75 | 95.02 | 95.28 | 95.35 | 0.39 | ppb |
| Barium | 137-1 | 97.53 | 97.17 | 95.74 | 96.81 | 0.98 | ppb |
| Beryllium | 9-1 | -0.04 | -0.02 | -0.04 | -0.03 | | ppb |
| Bismuth | 209-1 | | | | 111 | | % |
| Bismuth | 209-2 | | | | 107 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.00 | 0.01 | -0.05 | -0.01 | | ppb |
| Cadmium | 106-1 | -0.26 | -0.04 | -0.72 | -0.34 | | ppb |
| Cadmium | 111-1 | -0.02 | 0.00 | -0.04 | -0.02 | | ppb |
| Calcium | 43-1 | 80112.62 | 79795.95 | 80662.00 | 80190.19 | 0.55 | ppb |
| Calcium | 44-1 | 79499.29 | 80102.73 | 79845.06 | 79815.69 | 0.38 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.08 | -0.05 | -0.09 | -0.07 | | ppb |
| Cobalt | 59-2 | 0.11 | 0.12 | 0.11 | 0.11 | 4.72 | ppb |
| Copper | 63-2 | 0.69 | 0.67 | 0.68 | 0.68 | 1.46 | 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 | | | | 113 | | % |
| Holmium | 165-2 | | | | 108 | | % |
| Indium | 115-1 | | | | 109 | | % |
| Indium | 115-2 | | | | 106 | | % |
| Iron | 56-2 | 55.63 | 56.17 | 55.98 | 55.92 | 0.49 | ppb |
| Iron | 57-2 | 455.24 | 461.89 | 466.26 | 461.13 | 1.20 | ppb |
| Iron | 54-2 | 53.93 | 54.74 | 53.47 | 54.04 | 1.19 | ppb |
| Krypton | 83-1 | | | | | | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-09 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z9 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:01:54 | DataFile Name : | 032SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2.52 | 2.51 | 2.48 | 2.50 | 0.82 | ppb |
| Lead | 207-1 | 2.30 | 2.32 | 2.25 | 2.29 | 1.70 | ppb |
| Lead | 208-1 | 2.39 | 2.38 | 2.35 | 2.38 | 0.76 | ppb |
| Lithium | 6-1 | | | | 109 | | % |
| Magnesium | 24-2 | 30479.86 | 30572.43 | 30267.32 | 30439.87 | 0.51 | ppb |
| Manganese | 55-2 | 5.36 | 5.32 | 5.26 | 5.32 | 0.95 | ppb |
| Molybdenum | 94-1 | 4.48 | 4.28 | 4.39 | 4.38 | 2.27 | ppb |
| Molybdenum | 95-1 | 5.26 | 5.16 | 5.18 | 5.20 | 1.03 | ppb |
| Molybdenum | 96-1 | 5.20 | 5.04 | 5.05 | 5.10 | 1.79 | ppb |
| Molybdenum | 97-1 | 5.35 | 5.26 | 5.23 | 5.28 | 1.15 | ppb |
| Molybdenum | 98-1 | 5.32 | 5.29 | 5.24 | 5.28 | 0.76 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.90 | 0.91 | 0.88 | 0.89 | 1.89 | ppb |
| Phosphorus | 31-2 | 15.73 | 16.69 | 15.25 | 15.89 | 4.61 | ppb |
| Potassium | 39-2 | 3860.47 | 3874.78 | 3873.35 | 3869.53 | 0.20 | ppb |
| Rhodium | 103-1 | | | | 107 | | % |
| Rhodium | 103-2 | | | | 106 | | % |
| Scandium | 45-1 | | | | 107 | | % |
| Scandium | 45-2 | | | | 108 | | % |
| Selenium | 82-1 | -0.22 | 0.00 | -0.06 | -0.09 | | ppb |
| Selenium | 77-2 | 0.02 | 0.02 | 0.02 | 0.02 | 1.20 | ppb |
| Selenium | 78-2 | -1.00 | -1.03 | -1.14 | -1.06 | | ppb |
| Silicon | 28-1 | 599.30 | 612.08 | 610.66 | 607.35 | 1.15 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 112.66 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 77.47 | ppb |
| Sodium | 23-2 | 15093.64 | 15175.79 | 14873.70 | 15047.71 | 1.04 | ppb |
| Strontium | 86-1 | 67625.31 | 66347.06 | 67285.53 | 67085.97 | 0.99 | ppb |
| Strontium | 88-1 | 67738.50 | 66565.05 | 67007.31 | 67103.62 | 0.88 | ppb |
| Sulfur | 34-1 | 17232.99 | 17491.08 | 17200.62 | 17308.23 | 0.92 | ppb |
| Terbium | 159-1 | | | | 112 | | % |
| Terbium | 159-2 | | | | 110 | | % |
| Thallium | 203-1 | 0.02 | 0.01 | 0.01 | 0.01 | 21.44 | ppb |
| Thallium | 205-1 | 0.02 | 0.01 | 0.01 | 0.01 | 17.65 | ppb |
| Tin | 118-1 | 0.17 | 0.17 | 0.19 | 0.17 | 6.36 | ppb |
| Titanium | 47-1 | 1.76 | 6.56 | 0.56 | 2.96 | 107.25 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-09 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z9 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:01:54 | DataFile Name : | 032SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.94 | 0.94 | 0.91 | 0.93 | 1.70 | ppb |
| Vanadium | 51-2 | 0.21 | 0.21 | 0.23 | 0.22 | 5.26 | ppb |
| Yttrium | 89-1 | | | | 111 | | % |
| Yttrium | 89-2 | | | | 108 | | % |
| Zinc | 66-2 | -2.95 | -3.21 | -3.11 | -3.09 | | ppb |
| Zirconium | 90-1 | 0.03 | 0.03 | 0.02 | 0.03 | 18.56 | ppb |
| Zirconium | 91-1 | 0.02 | 0.03 | 0.03 | 0.03 | 9.06 | ppb |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-10 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:05:04 | DataFile Name : | 033SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 11.40 | 10.94 | 10.33 | 10.89 | 4.94 | ppb |
| Antimony | 121-1 | 0.07 | 0.07 | 0.07 | 0.07 | 4.31 | ppb |
| Arsenic | 75-2 | 1.48 | 1.38 | 1.47 | 1.44 | 3.68 | ppb |
| Barium | 135-1 | 90.51 | 94.07 | 94.86 | 93.15 | 2.49 | ppb |
| Barium | 137-1 | 91.18 | 94.50 | 96.21 | 93.96 | 2.72 | ppb |
| Beryllium | 9-1 | -0.02 | -0.03 | -0.03 | -0.03 | | ppb |
| Bismuth | 209-1 | | | | 115 | | % |
| Bismuth | 209-2 | | | | 107 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | -0.02 | 0.03 | -0.04 | -0.01 | | ppb |
| Cadmium | 106-1 | -0.20 | -0.17 | -0.62 | -0.33 | | ppb |
| Cadmium | 111-1 | -0.01 | -0.01 | -0.04 | -0.02 | | ppb |
| Calcium | 43-1 | 74783.78 | 76892.47 | 77298.73 | 76324.99 | 1.77 | ppb |
| Calcium | 44-1 | 72758.50 | 75600.75 | 76831.44 | 75063.56 | 2.78 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.11 | -0.07 | -0.10 | -0.10 | | ppb |
| Cobalt | 59-2 | 0.10 | 0.11 | 0.11 | 0.11 | 3.68 | ppb |
| Copper | 63-2 | 0.72 | 0.76 | 0.72 | 0.73 | 3.35 | 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 | | | | 117 | | % |
| Holmium | 165-2 | | | | 110 | | % |
| Indium | 115-1 | | | | 114 | | % |
| Indium | 115-2 | | | | 109 | | % |
| Iron | 56-2 | 49.90 | 49.85 | 48.59 | 49.44 | 1.50 | ppb |
| Iron | 57-2 | 435.46 | 452.56 | 442.43 | 443.48 | 1.94 | ppb |
| Iron | 54-2 | 47.11 | 48.05 | 47.00 | 47.38 | 1.22 | ppb |
| Krypton | 83-1 | | | | | | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-10 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:05:04 | DataFile Name : | 033SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.06 | 0.09 | 0.07 | 0.07 | 16.15 | ppb |
| Lead | 207-1 | 0.06 | 0.07 | 0.06 | 0.06 | 10.56 | ppb |
| Lead | 208-1 | 0.06 | 0.07 | 0.07 | 0.07 | 11.01 | ppb |
| Lithium | 6-1 | | | | 110 | | % |
| Magnesium | 24-2 | 28874.93 | 29667.18 | 28900.23 | 29147.45 | 1.54 | ppb |
| Manganese | 55-2 | 5.84 | 6.17 | 5.95 | 5.98 | 2.80 | ppb |
| Molybdenum | 94-1 | 4.16 | 4.39 | 4.42 | 4.32 | 3.37 | ppb |
| Molybdenum | 95-1 | 4.88 | 5.11 | 5.26 | 5.08 | 3.81 | ppb |
| Molybdenum | 96-1 | 4.80 | 5.07 | 5.10 | 4.99 | 3.25 | ppb |
| Molybdenum | 97-1 | 4.95 | 5.25 | 5.24 | 5.15 | 3.29 | ppb |
| Molybdenum | 98-1 | 4.98 | 5.28 | 5.30 | 5.18 | 3.46 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.82 | 0.86 | 0.85 | 0.84 | 2.23 | ppb |
| Phosphorus | 31-2 | 14.56 | 17.45 | 12.58 | 14.86 | 16.49 | ppb |
| Potassium | 39-2 | 3853.90 | 3932.79 | 3867.12 | 3884.61 | 1.09 | ppb |
| Rhodium | 103-1 | | | | 111 | | % |
| Rhodium | 103-2 | | | | 107 | | % |
| Scandium | 45-1 | | | | 112 | | % |
| Scandium | 45-2 | | | | 110 | | % |
| Selenium | 82-1 | 0.06 | 0.16 | -0.17 | 0.02 | 1036.03 | ppb |
| Selenium | 77-2 | 0.11 | -0.06 | 0.02 | 0.02 | 370.91 | ppb |
| Selenium | 78-2 | -0.69 | -0.18 | -0.11 | -0.33 | | ppb |
| Silicon | 28-1 | 562.71 | 588.47 | 595.23 | 582.14 | 2.95 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 49.08 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 136.80 | ppb |
| Sodium | 23-2 | 14649.22 | 15298.73 | 14724.58 | 14890.84 | 2.39 | ppb |
| Strontium | 86-1 | 64495.10 | 67673.55 | 68139.81 | 66769.49 | 2.97 | ppb |
| Strontium | 88-1 | 64484.24 | 67628.87 | 68042.31 | 66718.47 | 2.92 | ppb |
| Sulfur | 34-1 | 17518.24 | 18664.34 | 18685.29 | 18289.29 | 3.65 | ppb |
| Terbium | 159-1 | | | | 117 | | % |
| Terbium | 159-2 | | | | 110 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 7.48 | ppb |
| Thallium | 205-1 | 0.02 | 0.01 | 0.01 | 0.01 | 11.58 | ppb |
| Tin | 118-1 | -0.17 | -0.16 | -0.14 | -0.16 | | ppb |
| Titanium | 47-1 | 0.49 | 0.42 | 0.40 | 0.44 | 10.47 | ppb |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-10 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:05:04 | DataFile Name : | 033SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.85 | 0.89 | 0.90 | 0.88 | 3.16 | ppb |
| Vanadium | 51-2 | 0.20 | 0.23 | 0.19 | 0.21 | 8.50 | ppb |
| Yttrium | 89-1 | | | | 115 | | % |
| Yttrium | 89-2 | | | | 109 | | % |
| Zinc | 66-2 | -3.00 | -2.90 | -2.97 | -2.96 | | ppb |
| Zirconium | 90-1 | 0.04 | 0.04 | 0.04 | 0.04 | 8.07 | ppb |
| Zirconium | 91-1 | 0.10 | 0.05 | 0.05 | 0.07 | 46.67 | ppb |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-11RE | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:08:12 | DataFile Name : | 034SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 12.56 | 19.90 | 13.19 | 15.22 | 26.75 | ppb |
| Antimony | 121-1 | 0.07 | 0.06 | 0.07 | 0.07 | 6.72 | ppb |
| Arsenic | 75-2 | 1.46 | 1.47 | 1.30 | 1.41 | 6.85 | ppb |
| Barium | 135-1 | 94.15 | 94.17 | 95.45 | 94.59 | 0.79 | ppb |
| Barium | 137-1 | 95.27 | 95.51 | 96.53 | 95.77 | 0.70 | ppb |
| Beryllium | 9-1 | 0.00 | -0.03 | -0.01 | -0.01 | | ppb |
| Bismuth | 209-1 | | | | 111 | | % |
| Bismuth | 209-2 | | | | 107 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | -0.01 | -0.03 | 0.01 | -0.01 | | ppb |
| Cadmium | 106-1 | -1.03 | -1.27 | -0.75 | -1.02 | | ppb |
| Cadmium | 111-1 | -0.07 | -0.09 | -0.06 | -0.07 | | ppb |
| Calcium | 43-1 | 77220.26 | 78069.42 | 77688.78 | 77659.49 | 0.55 | ppb |
| Calcium | 44-1 | 77549.40 | 76610.89 | 76428.57 | 76862.95 | 0.78 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.20 | 0.34 | 0.31 | 0.28 | 25.66 | ppb |
| Cobalt | 59-2 | 0.12 | 0.11 | 0.12 | 0.12 | 1.77 | ppb |
| Copper | 63-2 | 0.63 | 0.65 | 0.64 | 0.64 | 1.47 | 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 | | | | 113 | | % |
| Holmium | 165-2 | | | | 109 | | % |
| Indium | 115-1 | | | | 110 | | % |
| Indium | 115-2 | | | | 107 | | % |
| Iron | 56-2 | 59.88 | 57.81 | 58.80 | 58.83 | 1.76 | ppb |
| Iron | 57-2 | 452.92 | 446.52 | 462.15 | 453.86 | 1.73 | ppb |
| Iron | 54-2 | 56.01 | 59.87 | 58.17 | 58.02 | 3.34 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-11RE | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:08:12 | DataFile Name : | 034SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.07 | 0.05 | 0.06 | 0.06 | 18.92 | ppb |
| Lead | 207-1 | 0.05 | 0.05 | 0.05 | 0.05 | 2.04 | ppb |
| Lead | 208-1 | 0.05 | 0.05 | 0.05 | 0.05 | 2.85 | ppb |
| Lithium | 6-1 | | | | 106 | | % |
| Magnesium | 24-2 | 29327.73 | 29234.89 | 29347.36 | 29303.32 | 0.21 | ppb |
| Manganese | 55-2 | 74.13 | 73.30 | 74.84 | 74.09 | 1.04 | ppb |
| Molybdenum | 94-1 | 4.39 | 4.39 | 4.29 | 4.36 | 1.34 | ppb |
| Molybdenum | 95-1 | 5.27 | 5.36 | 5.23 | 5.29 | 1.23 | ppb |
| Molybdenum | 96-1 | 5.23 | 5.20 | 5.14 | 5.19 | 0.86 | ppb |
| Molybdenum | 97-1 | 5.27 | 5.43 | 5.23 | 5.31 | 1.94 | ppb |
| Molybdenum | 98-1 | 5.38 | 5.37 | 5.24 | 5.33 | 1.43 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 1.27 | 1.23 | 1.23 | 1.25 | 1.87 | ppb |
| Phosphorus | 31-2 | 21.82 | 16.50 | 16.10 | 18.14 | 17.60 | ppb |
| Potassium | 39-2 | 3965.07 | 3957.45 | 4014.68 | 3979.07 | 0.78 | ppb |
| Rhodium | 103-1 | | | | 108 | | % |
| Rhodium | 103-2 | | | | 106 | | % |
| Scandium | 45-1 | | | | 108 | | % |
| Scandium | 45-2 | | | | 107 | | % |
| Selenium | 82-1 | 0.00 | 0.05 | -0.13 | -0.03 | | ppb |
| Selenium | 77-2 | 0.12 | -0.06 | 0.02 | 0.02 | 362.46 | ppb |
| Selenium | 78-2 | -0.54 | -0.53 | -0.52 | -0.53 | | ppb |
| Silicon | 28-1 | 591.22 | 591.25 | 591.32 | 591.26 | 0.01 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 22.42 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 25.24 | ppb |
| Sodium | 23-2 | 16468.32 | 16263.08 | 16727.25 | 16486.22 | 1.41 | ppb |
| Strontium | 86-1 | 67073.69 | 68102.44 | 67263.91 | 67480.01 | 0.81 | ppb |
| Strontium | 88-1 | 67334.01 | 68715.55 | 67269.45 | 67773.00 | 1.21 | ppb |
| Sulfur | 34-1 | 17592.93 | 17200.38 | 17239.20 | 17344.17 | 1.25 | ppb |
| Terbium | 159-1 | | | | 112 | | % |
| Terbium | 159-2 | | | | 109 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 4.84 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 16.45 | ppb |
| Tin | 118-1 | -0.12 | -0.11 | -0.11 | -0.12 | | ppb |
| Titanium | 47-1 | 0.49 | 0.39 | 0.50 | 0.46 | 13.31 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-11RE | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:08:12 | DataFile Name : | 034SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.90 | 0.90 | 0.90 | 0.90 | 0.25 | ppb |
| Vanadium | 51-2 | 0.20 | 0.20 | 0.22 | 0.21 | 3.85 | ppb |
| Yttrium | 89-1 | | | | 111 | | % |
| Yttrium | 89-2 | | | | 108 | | % |
| Zinc | 66-2 | -3.06 | -2.93 | -3.00 | -3.00 | | ppb |
| Zirconium | 90-1 | 0.04 | 0.04 | 0.03 | 0.04 | 7.70 | ppb |
| Zirconium | 91-1 | 0.04 | 0.04 | 0.04 | 0.04 | 7.75 | ppb |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-10LX5 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2024-11-22 15:11:22 | DataFile Name : | 035SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2.77 | 2.18 | 2.86 | 2.60 | 14.21 | ppb |
| Antimony | 121-1 | 0.01 | 0.01 | 0.01 | 0.01 | 4.06 | ppb |
| Arsenic | 75-2 | 0.32 | 0.24 | 0.21 | 0.26 | 22.69 | ppb |
| Barium | 135-1 | 17.89 | 18.45 | 18.27 | 18.20 | 1.59 | ppb |
| Barium | 137-1 | 17.79 | 18.68 | 18.59 | 18.35 | 2.69 | ppb |
| Beryllium | 9-1 | -0.02 | -0.02 | -0.02 | -0.02 | | ppb |
| Bismuth | 209-1 | | | | 110 | | % |
| Bismuth | 209-2 | | | | 107 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.01 | -0.04 | 0.02 | 0.00 | | ppb |
| Cadmium | 106-1 | -0.79 | -1.02 | -1.33 | -1.05 | | ppb |
| Cadmium | 111-1 | -0.06 | -0.08 | -0.10 | -0.08 | | ppb |
| Calcium | 43-1 | 14697.52 | 15522.25 | 16029.35 | 15416.37 | 4.36 | ppb |
| Calcium | 44-1 | 14027.96 | 14841.53 | 14896.79 | 14588.76 | 3.33 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.02 | 0.04 | 0.01 | 0.01 | 312.02 | ppb |
| Cobalt | 59-2 | 0.01 | 0.01 | 0.01 | 0.01 | 22.57 | ppb |
| Copper | 63-2 | 0.12 | 0.12 | 0.13 | 0.13 | 4.86 | 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 | | | | 106 | | % |
| Indium | 115-1 | | | | 107 | | % |
| Indium | 115-2 | | | | 105 | | % |
| Iron | 56-2 | 9.42 | 9.63 | 9.69 | 9.58 | 1.48 | ppb |
| Iron | 57-2 | 81.97 | 87.30 | 87.60 | 85.63 | 3.70 | ppb |
| Iron | 54-2 | 8.32 | 9.17 | 9.49 | 9.00 | 6.76 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-10LX5 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2024-11-22 15:11:22 | DataFile Name : | 035SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.00 | 0.01 | 0.01 | 0.01 | 74.93 | ppb |
| Lead | 207-1 | 0.01 | 0.01 | 0.01 | 0.01 | 33.25 | ppb |
| Lead | 208-1 | 0.01 | 0.01 | 0.01 | 0.01 | 23.05 | ppb |
| Lithium | 6-1 | | | | 103 | | % |
| Magnesium | 24-2 | 5715.29 | 5728.52 | 5804.31 | 5749.37 | 0.84 | ppb |
| Manganese | 55-2 | 1.21 | 1.33 | 1.31 | 1.28 | 4.90 | ppb |
| Molybdenum | 94-1 | 0.79 | 0.86 | 0.84 | 0.83 | 4.50 | ppb |
| Molybdenum | 95-1 | 0.95 | 0.99 | 1.01 | 0.98 | 2.64 | ppb |
| Molybdenum | 96-1 | 0.94 | 1.00 | 0.97 | 0.97 | 3.24 | ppb |
| Molybdenum | 97-1 | 0.95 | 1.00 | 0.98 | 0.98 | 2.48 | ppb |
| Molybdenum | 98-1 | 0.96 | 1.01 | 1.03 | 1.00 | 3.84 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.19 | 0.17 | 0.16 | 0.17 | 9.32 | ppb |
| Phosphorus | 31-2 | -9.92 | -15.96 | -14.84 | -13.57 | | ppb |
| Potassium | 39-2 | 783.02 | 794.39 | 799.25 | 792.22 | 1.05 | ppb |
| Rhodium | 103-1 | | | | 106 | | % |
| Rhodium | 103-2 | | | | 106 | | % |
| Scandium | 45-1 | | | | 104 | | % |
| Scandium | 45-2 | | | | 104 | | % |
| Selenium | 82-1 | -0.02 | 0.05 | -0.10 | -0.03 | | ppb |
| Selenium | 77-2 | 0.03 | 0.03 | -0.06 | 0.00 | | ppb |
| Selenium | 78-2 | -0.95 | -0.85 | -0.56 | -0.79 | | ppb |
| Silicon | 28-1 | 108.52 | 113.37 | 118.35 | 113.41 | 4.33 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 106.53 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 59.23 | ppb |
| Sodium | 23-2 | 2893.92 | 2964.64 | 2979.59 | 2946.05 | 1.55 | ppb |
| Strontium | 86-1 | 12497.50 | 13267.99 | 13301.83 | 13022.44 | 3.49 | ppb |
| Strontium | 88-1 | 12559.96 | 13282.94 | 13154.66 | 12999.19 | 2.97 | ppb |
| Sulfur | 34-1 | 3075.06 | 3300.08 | 3422.73 | 3265.96 | 5.40 | ppb |
| Terbium | 159-1 | | | | 109 | | % |
| Terbium | 159-2 | | | | 108 | | % |
| Thallium | 203-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Thallium | 205-1 | 0.00 | 0.00 | 0.00 | 0.00 | 76.80 | ppb |
| Tin | 118-1 | -0.04 | -0.03 | 0.03 | -0.02 | | ppb |
| Titanium | 47-1 | 0.05 | 0.07 | 0.08 | 0.07 | 23.42 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-10LX5 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2024-11-22 15:11:22 | DataFile Name : | 035SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.16 | 0.17 | 0.17 | 0.17 | 3.62 | ppb |
| Vanadium | 51-2 | 0.04 | 0.03 | 0.04 | 0.04 | 9.41 | ppb |
| Yttrium | 89-1 | | | | 106 | | % |
| Yttrium | 89-2 | | | | 106 | | % |
| Zinc | 66-2 | -0.62 | -0.51 | -0.54 | -0.56 | | ppb |
| Zirconium | 90-1 | 0.00 | 0.00 | 0.00 | 0.00 | 29.14 | ppb |
| Zirconium | 91-1 | 0.01 | 0.00 | 0.02 | 0.01 | 77.75 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-10RE | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:14:32 | DataFile Name : | 036SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 15.44 | 13.84 | 14.09 | 14.46 | 5.93 | ppb |
| Antimony | 121-1 | 0.07 | 0.07 | 0.07 | 0.07 | 5.25 | ppb |
| Arsenic | 75-2 | 1.53 | 1.46 | 1.41 | 1.47 | 4.23 | ppb |
| Barium | 135-1 | 95.65 | 96.27 | 95.26 | 95.73 | 0.53 | ppb |
| Barium | 137-1 | 97.02 | 97.81 | 96.62 | 97.15 | 0.62 | ppb |
| Beryllium | 9-1 | -0.02 | -0.01 | -0.02 | -0.02 | | ppb |
| Bismuth | 209-1 | | | | 115 | | % |
| Bismuth | 209-2 | | | | 110 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.02 | -0.02 | -0.02 | -0.01 | | ppb |
| Cadmium | 106-1 | -0.50 | -1.49 | -1.64 | -1.21 | | ppb |
| Cadmium | 111-1 | -0.04 | -0.10 | -0.12 | -0.09 | | ppb |
| Calcium | 43-1 | 79369.62 | 78727.12 | 79686.80 | 79261.18 | 0.62 | ppb |
| Calcium | 44-1 | 78809.33 | 77714.88 | 78366.77 | 78297.00 | 0.70 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.16 | -0.16 | -0.13 | -0.15 | | ppb |
| Cobalt | 59-2 | 0.11 | 0.11 | 0.11 | 0.11 | 1.95 | ppb |
| Copper | 63-2 | 0.67 | 0.65 | 0.65 | 0.66 | 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 | | | | 118 | | % |
| Holmium | 165-2 | | | | 112 | | % |
| Indium | 115-1 | | | | 113 | | % |
| Indium | 115-2 | | | | 109 | | % |
| Iron | 56-2 | 53.12 | 53.32 | 54.27 | 53.57 | 1.15 | ppb |
| Iron | 57-2 | 449.76 | 461.42 | 467.74 | 459.64 | 1.98 | ppb |
| Iron | 54-2 | 52.85 | 52.65 | 53.75 | 53.08 | 1.11 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-10RE | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:14:32 | DataFile Name : | 036SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.09 | 0.09 | 0.09 | 0.09 | 5.19 | ppb |
| Lead | 207-1 | 0.09 | 0.09 | 0.08 | 0.08 | 8.14 | ppb |
| Lead | 208-1 | 0.09 | 0.09 | 0.08 | 0.08 | 5.33 | ppb |
| Lithium | 6-1 | | | | 110 | | % |
| Magnesium | 24-2 | 30300.09 | 29977.45 | 30571.18 | 30282.91 | 0.98 | ppb |
| Manganese | 55-2 | 6.25 | 6.38 | 6.29 | 6.31 | 1.09 | ppb |
| Molybdenum | 94-1 | 4.52 | 4.52 | 4.53 | 4.53 | 0.12 | ppb |
| Molybdenum | 95-1 | 5.33 | 5.31 | 5.24 | 5.29 | 0.81 | ppb |
| Molybdenum | 96-1 | 5.27 | 5.22 | 5.22 | 5.24 | 0.54 | ppb |
| Molybdenum | 97-1 | 5.39 | 5.42 | 5.35 | 5.38 | 0.67 | ppb |
| Molybdenum | 98-1 | 5.36 | 5.43 | 5.36 | 5.38 | 0.68 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.81 | 0.89 | 0.91 | 0.87 | 6.03 | ppb |
| Phosphorus | 31-2 | 17.81 | 16.56 | 15.54 | 16.64 | 6.83 | ppb |
| Potassium | 39-2 | 4021.37 | 4059.35 | 4089.11 | 4056.61 | 0.84 | ppb |
| Rhodium | 103-1 | | | | 111 | | % |
| Rhodium | 103-2 | | | | 109 | | % |
| Scandium | 45-1 | | | | 110 | | % |
| Scandium | 45-2 | | | | 108 | | % |
| Selenium | 82-1 | 0.33 | 0.00 | 0.10 | 0.14 | 120.79 | ppb |
| Selenium | 77-2 | 0.20 | 0.11 | 0.11 | 0.14 | 36.06 | ppb |
| Selenium | 78-2 | -0.08 | -0.78 | -0.83 | -0.57 | | ppb |
| Silicon | 28-1 | 613.94 | 596.89 | 602.92 | 604.59 | 1.43 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 39.12 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 76.66 | ppb |
| Sodium | 23-2 | 15366.65 | 15469.02 | 15528.24 | 15454.64 | 0.53 | ppb |
| Strontium | 86-1 | 68882.82 | 69274.76 | 68694.11 | 68950.57 | 0.43 | ppb |
| Strontium | 88-1 | 68895.15 | 68762.77 | 68633.81 | 68763.91 | 0.19 | ppb |
| Sulfur | 34-1 | 17899.29 | 17159.90 | 17741.63 | 17600.27 | 2.21 | ppb |
| Terbium | 159-1 | | | | 117 | | % |
| Terbium | 159-2 | | | | 113 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 26.28 | ppb |
| Thallium | 205-1 | 0.02 | 0.01 | 0.01 | 0.01 | 18.28 | ppb |
| Tin | 118-1 | -0.19 | -0.18 | -0.19 | -0.19 | | ppb |
| Titanium | 47-1 | 0.43 | 0.37 | 0.42 | 0.40 | 7.12 | ppb |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-10RE | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:14:32 | DataFile Name : | 036SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.91 | 0.92 | 0.92 | 0.92 | 0.66 | ppb |
| Vanadium | 51-2 | 0.22 | 0.23 | 0.21 | 0.22 | 5.18 | ppb |
| Yttrium | 89-1 | | | | 114 | | % |
| Yttrium | 89-2 | | | | 111 | | % |
| Zinc | 66-2 | -1.14 | -1.01 | -0.98 | -1.04 | | ppb |
| Zirconium | 90-1 | 0.31 | 0.03 | 0.04 | 0.13 | 123.79 | ppb |
| Zirconium | 91-1 | 0.03 | 0.04 | 0.04 | 0.04 | 12.38 | ppb |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-12 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:21:00 | DataFile Name : | 037SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1874.28 | 1846.74 | 1858.47 | 1859.83 | 0.74 | ppb |
| Antimony | 121-1 | 101.23 | 104.10 | 105.32 | 103.55 | 2.03 | ppb |
| Arsenic | 75-2 | 41.98 | 41.68 | 42.48 | 42.05 | 0.96 | ppb |
| Barium | 135-1 | 2045.12 | 2093.18 | 2096.27 | 2078.19 | 1.38 | ppb |
| Barium | 137-1 | 2038.58 | 2082.91 | 2116.71 | 2079.40 | 1.88 | ppb |
| Beryllium | 9-1 | 48.69 | 49.08 | 48.94 | 48.90 | 0.40 | ppb |
| Bismuth | 209-1 | | | | 117 | | % |
| Bismuth | 209-2 | | | | 109 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 44.90 | 45.28 | 46.15 | 45.44 | 1.40 | ppb |
| Cadmium | 106-1 | 41.90 | 43.05 | 43.15 | 42.70 | 1.64 | ppb |
| Cadmium | 111-1 | 50.67 | 51.98 | 52.74 | 51.79 | 2.02 | ppb |
| Calcium | 43-1 | 76321.24 | 78708.55 | 77474.28 | 77501.36 | 1.54 | ppb |
| Calcium | 44-1 | 75698.83 | 78128.94 | 77565.62 | 77131.13 | 1.65 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 209.75 | 203.98 | 207.24 | 206.99 | 1.40 | ppb |
| Cobalt | 59-2 | 518.72 | 518.41 | 512.50 | 516.54 | 0.68 | ppb |
| Copper | 63-2 | 247.90 | 242.41 | 248.03 | 246.11 | 1.30 | 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 | | | | 118 | | % |
| Holmium | 165-2 | | | | 112 | | % |
| Indium | 115-1 | | | | 114 | | % |
| Indium | 115-2 | | | | 107 | | % |
| Iron | 56-2 | 1106.99 | 1096.97 | 1103.75 | 1102.57 | 0.46 | ppb |
| Iron | 57-2 | 1534.14 | 1507.70 | 1523.60 | 1521.81 | 0.87 | ppb |
| Iron | 54-2 | 1291.85 | 1267.57 | 1280.98 | 1280.13 | 0.95 | ppb |
| Krypton | 83-1 | | | | | | cps |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-12 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:21:00 | DataFile Name : | 037SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 19.76 | 20.17 | 20.62 | 20.18 | 2.13 | ppb |
| Lead | 207-1 | 19.57 | 19.80 | 20.22 | 19.87 | 1.67 | ppb |
| Lead | 208-1 | 19.68 | 20.00 | 20.33 | 20.00 | 1.63 | ppb |
| Lithium | 6-1 | | | | 110 | | % |
| Magnesium | 24-2 | 30139.42 | 29200.38 | 29826.60 | 29722.13 | 1.61 | ppb |
| Manganese | 55-2 | 506.90 | 504.86 | 505.62 | 505.79 | 0.20 | ppb |
| Molybdenum | 94-1 | 4.39 | 4.59 | 4.43 | 4.47 | 2.30 | ppb |
| Molybdenum | 95-1 | 5.29 | 5.40 | 5.30 | 5.33 | 1.11 | ppb |
| Molybdenum | 96-1 | 5.09 | 5.25 | 5.28 | 5.21 | 1.95 | ppb |
| Molybdenum | 97-1 | 5.21 | 5.37 | 5.33 | 5.30 | 1.49 | ppb |
| Molybdenum | 98-1 | 5.27 | 5.41 | 5.39 | 5.36 | 1.42 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 526.88 | 510.58 | 520.13 | 519.20 | 1.58 | ppb |
| Phosphorus | 31-2 | 14.96 | 16.97 | 15.60 | 15.84 | 6.46 | ppb |
| Potassium | 39-2 | 3904.02 | 3898.42 | 3920.26 | 3907.57 | 0.29 | ppb |
| Rhodium | 103-1 | | | | 111 | | % |
| Rhodium | 103-2 | | | | 107 | | % |
| Scandium | 45-1 | | | | 110 | | % |
| Scandium | 45-2 | | | | 108 | | % |
| Selenium | 82-1 | 103.85 | 106.66 | 106.63 | 105.71 | 1.53 | ppb |
| Selenium | 77-2 | 108.77 | 104.43 | 99.45 | 104.21 | 4.48 | ppb |
| Selenium | 78-2 | 104.89 | 101.35 | 105.50 | 103.91 | 2.16 | ppb |
| Silicon | 28-1 | 585.63 | 607.91 | 602.58 | 598.71 | 1.94 | ppb |
| Silver | 107-1 | 50.25 | 51.04 | 51.88 | 51.06 | 1.60 | ppb |
| Silver | 109-1 | 50.04 | 51.31 | 51.77 | 51.04 | 1.76 | ppb |
| Sodium | 23-2 | 15535.31 | 14818.32 | 15136.66 | 15163.43 | 2.37 | ppb |
| Strontium | 86-1 | 67243.59 | 68309.29 | 68187.34 | 67913.41 | 0.86 | ppb |
| Strontium | 88-1 | 67242.39 | 68244.85 | 68361.25 | 67949.50 | 0.91 | ppb |
| Sulfur | 34-1 | 17214.29 | 17377.91 | 17660.86 | 17417.69 | 1.30 | ppb |
| Terbium | 159-1 | | | | 117 | | % |
| Terbium | 159-2 | | | | 112 | | % |
| Thallium | 203-1 | 48.54 | 49.58 | 50.49 | 49.54 | 1.97 | ppb |
| Thallium | 205-1 | 48.02 | 49.59 | 50.75 | 49.45 | 2.77 | ppb |
| Tin | 118-1 | -0.08 | -0.07 | -0.07 | -0.07 | | ppb |
| Titanium | 47-1 | 0.45 | 0.45 | 0.62 | 0.50 | 19.61 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-12 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:21:00 | DataFile Name : | 037SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.89 | 0.91 | 0.93 | 0.91 | 2.32 | ppb |
| Vanadium | 51-2 | 505.28 | 505.35 | 502.34 | 504.32 | 0.34 | ppb |
| Yttrium | 89-1 | | | | 114 | | % |
| Yttrium | 89-2 | | | | 109 | | % |
| Zinc | 66-2 | 529.29 | 520.78 | 524.79 | 524.95 | 0.81 | ppb |
| Zirconium | 90-1 | 0.04 | 0.04 | 0.04 | 0.04 | 10.59 | ppb |
| Zirconium | 91-1 | 0.05 | 0.06 | 0.05 | 0.05 | 2.77 | ppb |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-11 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:24:50 | DataFile Name : | 038SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 11.45 | 11.71 | 14.35 | 12.50 | 12.83 | ppb |
| Antimony | 121-1 | 0.07 | 0.07 | 0.08 | 0.07 | 4.69 | ppb |
| Arsenic | 75-2 | 1.54 | 1.63 | 1.42 | 1.53 | 6.96 | ppb |
| Barium | 135-1 | 94.62 | 94.64 | 95.22 | 94.83 | 0.36 | ppb |
| Barium | 137-1 | 95.79 | 95.92 | 96.32 | 96.01 | 0.29 | ppb |
| Beryllium | 9-1 | -0.01 | -0.02 | -0.02 | -0.02 | | ppb |
| Bismuth | 209-1 | | | | 115 | | % |
| Bismuth | 209-2 | | | | 110 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.00 | 0.00 | 0.04 | 0.01 | 157.57 | ppb |
| Cadmium | 106-1 | -1.17 | -1.91 | -1.54 | -1.54 | | ppb |
| Cadmium | 111-1 | -0.08 | -0.14 | -0.11 | -0.11 | | ppb |
| Calcium | 43-1 | 77391.61 | 77069.42 | 77220.28 | 77227.10 | 0.21 | ppb |
| Calcium | 44-1 | 76989.79 | 77148.32 | 76995.93 | 77044.68 | 0.12 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.08 | -0.11 | -0.07 | -0.09 | | ppb |
| Cobalt | 59-2 | 0.11 | 0.10 | 0.11 | 0.11 | 2.81 | ppb |
| Copper | 63-2 | 0.76 | 0.78 | 0.77 | 0.77 | 1.25 | 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 | | | | 116 | | % |
| Holmium | 165-2 | | | | 112 | | % |
| Indium | 115-1 | | | | 111 | | % |
| Indium | 115-2 | | | | 108 | | % |
| Iron | 56-2 | 50.11 | 50.60 | 49.45 | 50.05 | 1.16 | ppb |
| Iron | 57-2 | 430.71 | 448.74 | 452.72 | 444.06 | 2.64 | ppb |
| Iron | 54-2 | 46.78 | 47.94 | 50.18 | 48.30 | 3.58 | ppb |
| Krypton | 83-1 | | | | | | cps |

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| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-11 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:24:50 | DataFile Name : | 038SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.07 | 0.08 | 0.07 | 0.07 | 5.93 | ppb |
| Lead | 207-1 | 0.07 | 0.06 | 0.07 | 0.07 | 5.11 | ppb |
| Lead | 208-1 | 0.07 | 0.07 | 0.07 | 0.07 | 1.08 | ppb |
| Lithium | 6-1 | | | | 109 | | % |
| Magnesium | 24-2 | 29342.00 | 29805.86 | 29609.12 | 29585.66 | 0.79 | ppb |
| Manganese | 55-2 | 6.07 | 6.08 | 6.05 | 6.07 | 0.26 | ppb |
| Molybdenum | 94-1 | 4.39 | 4.52 | 4.46 | 4.46 | 1.51 | ppb |
| Molybdenum | 95-1 | 5.28 | 5.23 | 5.26 | 5.26 | 0.52 | ppb |
| Molybdenum | 96-1 | 5.19 | 5.16 | 5.11 | 5.15 | 0.80 | ppb |
| Molybdenum | 97-1 | 5.22 | 5.27 | 5.38 | 5.29 | 1.52 | ppb |
| Molybdenum | 98-1 | 5.23 | 5.28 | 5.31 | 5.27 | 0.75 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.87 | 0.98 | 0.86 | 0.90 | 7.46 | ppb |
| Phosphorus | 31-2 | 16.01 | 11.91 | 14.28 | 14.07 | 14.64 | ppb |
| Potassium | 39-2 | 3888.84 | 3952.57 | 3892.27 | 3911.23 | 0.92 | ppb |
| Rhodium | 103-1 | | | | 109 | | % |
| Rhodium | 103-2 | | | | 108 | | % |
| Scandium | 45-1 | | | | 109 | | % |
| Scandium | 45-2 | | | | 108 | | % |
| Selenium | 82-1 | 0.51 | 0.14 | 0.14 | 0.26 | 80.38 | ppb |
| Selenium | 77-2 | 0.02 | 0.38 | 0.11 | 0.17 | 107.71 | ppb |
| Selenium | 78-2 | -0.93 | -0.97 | -0.85 | -0.91 | | ppb |
| Silicon | 28-1 | 594.77 | 601.36 | 598.96 | 598.36 | 0.56 | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 7.36 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 20.94 | ppb |
| Sodium | 23-2 | 15266.47 | 15174.27 | 15313.90 | 15251.55 | 0.47 | ppb |
| Strontium | 86-1 | 68055.89 | 68127.25 | 68601.79 | 68261.64 | 0.43 | ppb |
| Strontium | 88-1 | 68655.78 | 68229.45 | 68356.61 | 68413.95 | 0.32 | ppb |
| Sulfur | 34-1 | 19102.15 | 18515.09 | 19057.06 | 18891.43 | 1.73 | ppb |
| Terbium | 159-1 | | | | 115 | | % |
| Terbium | 159-2 | | | | 111 | | % |
| Thallium | 203-1 | 0.02 | 0.02 | 0.02 | 0.02 | 22.01 | ppb |
| Thallium | 205-1 | 0.02 | 0.02 | 0.02 | 0.02 | 13.76 | ppb |
| Tin | 118-1 | -0.17 | -0.17 | -0.15 | -0.16 | | ppb |
| Titanium | 47-1 | 0.38 | 0.44 | 0.43 | 0.42 | 7.55 | ppb |

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-11 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:24:50 | DataFile Name : | 038SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.89 | 0.90 | 0.89 | 0.89 | 0.54 | ppb |
| Vanadium | 51-2 | 0.23 | 0.20 | 0.20 | 0.21 | 6.68 | ppb |
| Yttrium | 89-1 | | | | 112 | | % |
| Yttrium | 89-2 | | | | 109 | | % |
| Zinc | 66-2 | -2.78 | -2.78 | -2.83 | -2.79 | | ppb |
| Zirconium | 90-1 | 0.04 | 0.04 | 0.05 | 0.04 | 21.54 | ppb |
| Zirconium | 91-1 | 0.03 | 0.03 | 0.04 | 0.03 | 27.31 | ppb |

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-13 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:27:59 | DataFile Name : | 039SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 15.63 | 12.31 | 13.49 | 13.81 | 12.17 | ppb |
| Antimony | 121-1 | 0.07 | 0.08 | 0.08 | 0.08 | 3.96 | ppb |
| Arsenic | 75-2 | 1.78 | 1.40 | 1.45 | 1.54 | 13.28 | ppb |
| Barium | 135-1 | 89.85 | 91.04 | 91.60 | 90.83 | 0.98 | ppb |
| Barium | 137-1 | 91.47 | 93.24 | 92.33 | 92.35 | 0.96 | ppb |
| Beryllium | 9-1 | -0.02 | -0.01 | -0.02 | -0.02 | | ppb |
| Bismuth | 209-1 | | | | 115 | | % |
| Bismuth | 209-2 | | | | 104 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | -0.03 | 0.03 | -0.02 | -0.01 | | ppb |
| Cadmium | 106-1 | -0.63 | -0.29 | -1.13 | -0.68 | | ppb |
| Cadmium | 111-1 | -0.04 | -0.02 | -0.08 | -0.04 | | ppb |
| Calcium | 43-1 | 74083.30 | 76378.03 | 76987.72 | 75816.35 | 2.02 | ppb |
| Calcium | 44-1 | 73985.21 | 75250.69 | 75213.32 | 74816.40 | 0.96 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1.25 | 1.09 | 1.05 | 1.13 | 9.74 | ppb |
| Cobalt | 59-2 | 0.12 | 0.11 | 0.12 | 0.12 | 5.55 | ppb |
| Copper | 63-2 | 0.76 | 0.65 | 0.65 | 0.68 | 9.76 | 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 | | | | 117 | | % |
| Holmium | 165-2 | | | | 105 | | % |
| Indium | 115-1 | | | | 112 | | % |
| Indium | 115-2 | | | | 102 | | % |
| Iron | 56-2 | 67.95 | 58.73 | 57.50 | 61.39 | 9.30 | ppb |
| Iron | 57-2 | 514.62 | 460.45 | 451.91 | 475.66 | 7.15 | ppb |
| Iron | 54-2 | 66.63 | 57.68 | 56.80 | 60.37 | 9.01 | ppb |
| Krypton | 83-1 | | | | | | cps |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-13 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:27:59 | DataFile Name : | 039SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.09 | 0.08 | 0.09 | 0.09 | 7.85 | ppb |
| Lead | 207-1 | 0.08 | 0.07 | 0.07 | 0.08 | 5.29 | ppb |
| Lead | 208-1 | 0.08 | 0.08 | 0.08 | 0.08 | 3.78 | ppb |
| Lithium | 6-1 | | | | 111 | | % |
| Magnesium | 24-2 | 34187.63 | 29657.51 | 29059.25 | 30968.13 | 9.06 | ppb |
| Manganese | 55-2 | 6.14 | 5.07 | 4.93 | 5.38 | 12.25 | ppb |
| Molybdenum | 94-1 | 4.46 | 4.28 | 4.32 | 4.35 | 2.13 | ppb |
| Molybdenum | 95-1 | 5.07 | 5.16 | 5.13 | 5.12 | 0.93 | ppb |
| Molybdenum | 96-1 | 4.92 | 5.17 | 5.09 | 5.06 | 2.54 | ppb |
| Molybdenum | 97-1 | 5.12 | 5.28 | 5.15 | 5.18 | 1.69 | ppb |
| Molybdenum | 98-1 | 5.16 | 5.25 | 5.17 | 5.19 | 0.93 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 1.14 | 1.03 | 1.02 | 1.06 | 6.06 | ppb |
| Phosphorus | 31-2 | 30.37 | 22.04 | 22.00 | 24.80 | 19.43 | ppb |
| Potassium | 39-2 | 4580.07 | 3925.90 | 3911.96 | 4139.31 | 9.22 | ppb |
| Rhodium | 103-1 | | | | 110 | | % |
| Rhodium | 103-2 | | | | 102 | | % |
| Scandium | 45-1 | | | | 110 | | % |
| Scandium | 45-2 | | | | 101 | | % |
| Selenium | 82-1 | 0.29 | 0.14 | 0.04 | 0.16 | 79.67 | ppb |
| Selenium | 77-2 | -0.06 | -0.06 | 0.11 | -0.01 | | ppb |
| Selenium | 78-2 | -0.56 | -0.91 | -0.54 | -0.67 | | ppb |
| Silicon | 28-1 | 589.73 | 586.35 | 594.77 | 590.28 | 0.72 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 15.04 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 24.93 | ppb |
| Sodium | 23-2 | 17612.73 | 15216.33 | 15055.28 | 15961.45 | 8.97 | ppb |
| Strontium | 86-1 | 66722.88 | 68477.45 | 67346.63 | 67515.66 | 1.32 | ppb |
| Strontium | 88-1 | 66167.86 | 68243.25 | 67762.63 | 67391.25 | 1.61 | ppb |
| Sulfur | 34-1 | 16737.38 | 16797.68 | 17359.75 | 16964.93 | 2.02 | ppb |
| Terbium | 159-1 | | | | 116 | | % |
| Terbium | 159-2 | | | | 106 | | % |
| Thallium | 203-1 | 0.02 | 0.01 | 0.01 | 0.01 | 25.55 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 11.71 | ppb |
| Tin | 118-1 | -0.22 | -0.23 | -0.21 | -0.22 | | ppb |
| Titanium | 47-1 | 0.44 | 0.42 | 0.59 | 0.48 | 19.02 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-13 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:27:59 | DataFile Name : | 039SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.84 | 0.87 | 0.87 | 0.86 | 2.12 | ppb |
| Vanadium | 51-2 | 0.24 | 0.22 | 0.22 | 0.23 | 6.66 | ppb |
| Yttrium | 89-1 | | | | 113 | | % |
| Yttrium | 89-2 | | | | 103 | | % |
| Zinc | 66-2 | -3.01 | -3.37 | -3.71 | -3.36 | | ppb |
| Zirconium | 90-1 | 0.03 | 0.03 | 0.03 | 0.03 | 4.12 | ppb |
| Zirconium | 91-1 | 0.03 | 0.02 | 0.02 | 0.02 | 25.38 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-14 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A05 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:31:09 | DataFile Name : | 040SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 13.27 | 12.74 | 12.43 | 12.81 | 3.32 | ppb |
| Antimony | 121-1 | 0.08 | 0.08 | 0.08 | 0.08 | 3.00 | ppb |
| Arsenic | 75-2 | 1.46 | 1.40 | 1.49 | 1.45 | 3.21 | ppb |
| Barium | 135-1 | 97.46 | 96.43 | 96.60 | 96.83 | 0.57 | ppb |
| Barium | 137-1 | 98.80 | 98.25 | 97.65 | 98.24 | 0.59 | ppb |
| Beryllium | 9-1 | -0.03 | -0.04 | -0.01 | -0.03 | | ppb |
| Bismuth | 209-1 | | | | 113 | | % |
| Bismuth | 209-2 | | | | 109 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.01 | 0.03 | 0.02 | 0.02 | 47.68 | ppb |
| Cadmium | 106-1 | 0.14 | -0.81 | -0.88 | -0.52 | | ppb |
| Cadmium | 111-1 | 0.01 | -0.06 | -0.07 | -0.04 | | ppb |
| Calcium | 43-1 | 80928.73 | 80508.81 | 79290.16 | 80242.57 | 1.06 | ppb |
| Calcium | 44-1 | 80342.50 | 78460.28 | 78414.91 | 79072.56 | 1.39 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.03 | -0.04 | -0.04 | -0.04 | | ppb |
| Cobalt | 59-2 | 0.11 | 0.11 | 0.11 | 0.11 | 3.40 | ppb |
| Copper | 63-2 | 0.65 | 0.68 | 0.69 | 0.68 | 2.87 | 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 | | | | 115 | | % |
| Holmium | 165-2 | | | | 111 | | % |
| Indium | 115-1 | | | | 110 | | % |
| Indium | 115-2 | | | | 107 | | % |
| Iron | 56-2 | 52.80 | 54.00 | 54.22 | 53.67 | 1.43 | ppb |
| Iron | 57-2 | 454.76 | 462.23 | 469.24 | 462.08 | 1.57 | ppb |
| Iron | 54-2 | 50.19 | 54.16 | 53.06 | 52.47 | 3.90 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-14 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A05 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:31:09 | DataFile Name : | 040SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.05 | 0.05 | 0.06 | 0.05 | 10.32 | ppb |
| Lead | 207-1 | 0.06 | 0.04 | 0.05 | 0.05 | 16.72 | ppb |
| Lead | 208-1 | 0.05 | 0.05 | 0.05 | 0.05 | 2.83 | ppb |
| Lithium | 6-1 | | | | 110 | | % |
| Magnesium | 24-2 | 30058.52 | 30221.00 | 30427.59 | 30235.70 | 0.61 | ppb |
| Manganese | 55-2 | 4.09 | 4.22 | 4.30 | 4.20 | 2.54 | ppb |
| Molybdenum | 94-1 | 4.63 | 4.71 | 4.61 | 4.65 | 1.17 | ppb |
| Molybdenum | 95-1 | 5.47 | 5.57 | 5.55 | 5.53 | 0.89 | ppb |
| Molybdenum | 96-1 | 5.47 | 5.49 | 5.31 | 5.42 | 1.76 | ppb |
| Molybdenum | 97-1 | 5.56 | 5.43 | 5.58 | 5.52 | 1.54 | ppb |
| Molybdenum | 98-1 | 5.60 | 5.60 | 5.54 | 5.58 | 0.61 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.93 | 0.88 | 0.89 | 0.90 | 3.36 | ppb |
| Phosphorus | 31-2 | 14.13 | 15.15 | 15.96 | 15.08 | 6.11 | ppb |
| Potassium | 39-2 | 4071.16 | 4137.33 | 4164.57 | 4124.35 | 1.16 | ppb |
| Rhodium | 103-1 | | | | 108 | | % |
| Rhodium | 103-2 | | | | 107 | | % |
| Scandium | 45-1 | | | | 109 | | % |
| Scandium | 45-2 | | | | 108 | | % |
| Selenium | 82-1 | 0.25 | -0.10 | -0.21 | -0.02 | | ppb |
| Selenium | 77-2 | 0.02 | 0.20 | 0.11 | 0.11 | 78.47 | ppb |
| Selenium | 78-2 | -0.88 | -0.60 | -0.37 | -0.62 | | ppb |
| Silicon | 28-1 | 637.29 | 617.91 | 623.21 | 626.14 | 1.60 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 27.67 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 31.92 | ppb |
| Sodium | 23-2 | 15702.30 | 15937.41 | 15992.11 | 15877.27 | 0.97 | ppb |
| Strontium | 86-1 | 72289.49 | 72236.95 | 71939.75 | 72155.40 | 0.26 | ppb |
| Strontium | 88-1 | 72840.01 | 72154.74 | 71783.50 | 72259.42 | 0.74 | ppb |
| Sulfur | 34-1 | 18388.14 | 17608.84 | 17557.31 | 17851.43 | 2.61 | ppb |
| Terbium | 159-1 | | | | 114 | | % |
| Terbium | 159-2 | | | | 111 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 20.17 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 10.55 | ppb |
| Tin | 118-1 | 0.13 | -0.01 | 0.03 | 0.05 | 148.30 | ppb |
| Titanium | 47-1 | 0.42 | 0.53 | 0.39 | 0.45 | 16.06 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-14 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A05 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:31:09 | DataFile Name : | 040SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.91 | 0.91 | 0.92 | 0.91 | 0.31 | ppb |
| Vanadium | 51-2 | 0.20 | 0.28 | 0.21 | 0.23 | 17.52 | ppb |
| Yttrium | 89-1 | | | | 111 | | % |
| Yttrium | 89-2 | | | | 108 | | % |
| Zinc | 66-2 | -3.43 | -3.53 | -3.28 | -3.41 | | ppb |
| Zirconium | 90-1 | 0.03 | 0.03 | 0.03 | 0.03 | 3.23 | ppb |
| Zirconium | 91-1 | 0.02 | 0.18 | 0.05 | 0.08 | 100.43 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-15 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A07 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:34:18 | DataFile Name : | 041SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 15.29 | 13.28 | 13.73 | 14.10 | 7.48 | ppb |
| Antimony | 121-1 | 0.07 | 0.07 | 0.08 | 0.07 | 11.21 | ppb |
| Arsenic | 75-2 | 1.50 | 1.51 | 1.56 | 1.52 | 2.03 | ppb |
| Barium | 135-1 | 95.38 | 96.27 | 100.67 | 97.44 | 2.90 | ppb |
| Barium | 137-1 | 96.91 | 98.02 | 102.48 | 99.14 | 2.97 | ppb |
| Beryllium | 9-1 | -0.03 | -0.03 | -0.01 | -0.02 | | ppb |
| Bismuth | 209-1 | | | | 111 | | % |
| Bismuth | 209-2 | | | | 107 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | -0.03 | 0.05 | -0.04 | -0.01 | | ppb |
| Cadmium | 106-1 | 0.09 | -0.74 | -0.76 | -0.47 | | ppb |
| Cadmium | 111-1 | 0.01 | -0.06 | -0.05 | -0.03 | | ppb |
| Calcium | 43-1 | 77638.25 | 79961.52 | 82908.06 | 80169.27 | 3.29 | ppb |
| Calcium | 44-1 | 77673.57 | 77973.23 | 81945.03 | 79197.28 | 3.01 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.75 | 0.73 | 0.75 | 0.74 | 1.59 | ppb |
| Cobalt | 59-2 | 0.11 | 0.13 | 0.11 | 0.12 | 7.56 | ppb |
| Copper | 63-2 | 0.67 | 0.68 | 0.69 | 0.68 | 2.01 | 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 | | | | 114 | | % |
| Holmium | 165-2 | | | | 109 | | % |
| Indium | 115-1 | | | | 109 | | % |
| Indium | 115-2 | | | | 106 | | % |
| Iron | 56-2 | 52.93 | 52.67 | 52.70 | 52.77 | 0.27 | ppb |
| Iron | 57-2 | 454.33 | 453.17 | 458.69 | 455.39 | 0.64 | ppb |
| Iron | 54-2 | 51.33 | 51.26 | 50.93 | 51.17 | 0.41 | ppb |
| Krypton | 83-1 | | | | | | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-15 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A07 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:34:18 | DataFile Name : | 041SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.38 | 0.38 | 0.37 | 0.38 | 1.06 | ppb |
| Lead | 207-1 | 0.34 | 0.33 | 0.36 | 0.35 | 4.39 | ppb |
| Lead | 208-1 | 0.35 | 0.36 | 0.38 | 0.36 | 3.16 | ppb |
| Lithium | 6-1 | | | | 108 | | % |
| Magnesium | 24-2 | 29866.03 | 29896.20 | 29738.36 | 29833.53 | 0.28 | ppb |
| Manganese | 55-2 | 8.57 | 8.60 | 8.53 | 8.57 | 0.39 | ppb |
| Molybdenum | 94-1 | 4.54 | 4.60 | 4.77 | 4.64 | 2.58 | ppb |
| Molybdenum | 95-1 | 5.25 | 5.26 | 5.46 | 5.32 | 2.30 | ppb |
| Molybdenum | 96-1 | 5.12 | 5.24 | 5.46 | 5.27 | 3.21 | ppb |
| Molybdenum | 97-1 | 5.33 | 5.33 | 5.53 | 5.40 | 2.13 | ppb |
| Molybdenum | 98-1 | 5.21 | 5.28 | 5.54 | 5.34 | 3.20 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 1.02 | 1.04 | 1.03 | 1.03 | 1.23 | ppb |
| Phosphorus | 31-2 | 15.35 | 21.28 | 20.94 | 19.19 | 17.35 | ppb |
| Potassium | 39-2 | 4097.47 | 4022.21 | 4045.58 | 4055.09 | 0.95 | ppb |
| Rhodium | 103-1 | | | | 108 | | % |
| Rhodium | 103-2 | | | | 106 | | % |
| Scandium | 45-1 | | | | 108 | | % |
| Scandium | 45-2 | | | | 108 | | % |
| Selenium | 82-1 | 0.06 | -0.30 | -0.11 | -0.11 | | ppb |
| Selenium | 77-2 | -0.06 | 0.20 | 0.39 | 0.17 | 129.69 | ppb |
| Selenium | 78-2 | -0.95 | -0.86 | -0.84 | -0.88 | | ppb |
| Silicon | 28-1 | 604.68 | 618.09 | 639.03 | 620.60 | 2.79 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 29.79 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 34.63 | ppb |
| Sodium | 23-2 | 16103.31 | 16094.51 | 16049.79 | 16082.54 | 0.18 | ppb |
| Strontium | 86-1 | 65793.33 | 67160.75 | 69688.87 | 67547.65 | 2.93 | ppb |
| Strontium | 88-1 | 66438.15 | 66727.58 | 69386.36 | 67517.37 | 2.41 | ppb |
| Sulfur | 34-1 | 17452.64 | 17695.86 | 18766.12 | 17971.54 | 3.89 | ppb |
| Terbium | 159-1 | | | | 113 | | % |
| Terbium | 159-2 | | | | 109 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 15.43 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 9.07 | ppb |
| Tin | 118-1 | -0.14 | -0.13 | -0.13 | -0.14 | | ppb |
| Titanium | 47-1 | 3.30 | 0.43 | 0.45 | 1.39 | 118.54 | ppb |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-15 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A07 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:34:18 | DataFile Name : | 041SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.87 | 0.90 | 0.91 | 0.89 | 2.26 | ppb |
| Vanadium | 51-2 | 0.20 | 0.24 | 0.23 | 0.22 | 8.64 | ppb |
| Yttrium | 89-1 | | | | 111 | | % |
| Yttrium | 89-2 | | | | 107 | | % |
| Zinc | 66-2 | -3.32 | -3.18 | -3.11 | -3.20 | | ppb |
| Zirconium | 90-1 | 0.08 | 0.08 | 0.08 | 0.08 | 3.73 | ppb |
| Zirconium | 91-1 | 0.07 | 0.07 | 0.07 | 0.07 | 2.81 | ppb |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-16 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A09 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:37:28 | DataFile Name : | 042SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 16.01 | 16.74 | 16.17 | 16.30 | 2.34 | ppb |
| Antimony | 121-1 | 0.06 | 0.07 | 0.07 | 0.07 | 6.47 | ppb |
| Arsenic | 75-2 | 1.55 | 1.56 | 1.54 | 1.55 | 0.50 | ppb |
| Barium | 135-1 | 90.35 | 95.18 | 93.75 | 93.09 | 2.67 | ppb |
| Barium | 137-1 | 90.84 | 96.18 | 95.53 | 94.18 | 3.09 | ppb |
| Beryllium | 9-1 | -0.02 | -0.03 | -0.02 | -0.02 | | ppb |
| Bismuth | 209-1 | | | | 115 | | % |
| Bismuth | 209-2 | | | | 108 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.00 | 0.03 | 0.00 | 0.01 | 131.04 | ppb |
| Cadmium | 106-1 | -0.69 | -0.95 | -1.73 | -1.12 | | ppb |
| Cadmium | 111-1 | -0.05 | -0.07 | -0.12 | -0.08 | | ppb |
| Calcium | 43-1 | 73990.67 | 77939.81 | 77337.95 | 76422.81 | 2.78 | ppb |
| Calcium | 44-1 | 73435.00 | 76546.94 | 76542.51 | 75508.15 | 2.38 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.18 | -0.18 | -0.18 | -0.18 | | ppb |
| Cobalt | 59-2 | 0.12 | 0.12 | 0.12 | 0.12 | 1.84 | ppb |
| Copper | 63-2 | 0.67 | 0.63 | 0.68 | 0.66 | 3.73 | 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 | | | | 117 | | % |
| Holmium | 165-2 | | | | 109 | | % |
| Indium | 115-1 | | | | 113 | | % |
| Indium | 115-2 | | | | 107 | | % |
| Iron | 56-2 | 55.03 | 54.33 | 56.03 | 55.13 | 1.55 | ppb |
| Iron | 57-2 | 447.94 | 455.39 | 456.87 | 453.40 | 1.06 | ppb |
| Iron | 54-2 | 52.57 | 53.71 | 54.34 | 53.54 | 1.67 | ppb |
| Krypton | 83-1 | | | | | | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-16 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A09 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:37:28 | DataFile Name : | 042SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.13 | 0.14 | 0.12 | 0.13 | 6.10 | ppb |
| Lead | 207-1 | 0.12 | 0.13 | 0.12 | 0.12 | 4.28 | ppb |
| Lead | 208-1 | 0.12 | 0.13 | 0.12 | 0.12 | 6.18 | ppb |
| Lithium | 6-1 | | | | 110 | | % |
| Magnesium | 24-2 | 29797.32 | 29264.28 | 29621.00 | 29560.87 | 0.92 | ppb |
| Manganese | 55-2 | 5.97 | 5.86 | 6.01 | 5.95 | 1.35 | ppb |
| Molybdenum | 94-1 | 4.21 | 4.38 | 4.35 | 4.31 | 2.11 | ppb |
| Molybdenum | 95-1 | 5.00 | 5.25 | 5.28 | 5.18 | 2.93 | ppb |
| Molybdenum | 96-1 | 4.95 | 5.16 | 5.10 | 5.07 | 2.14 | ppb |
| Molybdenum | 97-1 | 5.05 | 5.29 | 5.26 | 5.20 | 2.45 | ppb |
| Molybdenum | 98-1 | 5.15 | 5.28 | 5.24 | 5.22 | 1.34 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.91 | 0.89 | 0.86 | 0.89 | 2.81 | ppb |
| Phosphorus | 31-2 | 16.45 | 13.32 | 20.25 | 16.67 | 20.79 | ppb |
| Potassium | 39-2 | 4007.28 | 3983.59 | 4014.81 | 4001.89 | 0.41 | ppb |
| Rhodium | 103-1 | | | | 110 | | % |
| Rhodium | 103-2 | | | | 106 | | % |
| Scandium | 45-1 | | | | 111 | | % |
| Scandium | 45-2 | | | | 108 | | % |
| Selenium | 82-1 | -0.08 | -0.18 | 0.07 | -0.06 | | ppb |
| Selenium | 77-2 | 0.20 | 0.11 | 0.03 | 0.11 | 77.63 | ppb |
| Selenium | 78-2 | -0.37 | -0.64 | -0.35 | -0.45 | | ppb |
| Silicon | 28-1 | 582.06 | 601.07 | 589.29 | 590.81 | 1.62 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 30.66 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 81.59 | ppb |
| Sodium | 23-2 | 15559.05 | 15230.72 | 15615.84 | 15468.54 | 1.34 | ppb |
| Strontium | 86-1 | 64382.76 | 67310.71 | 66853.33 | 66182.27 | 2.38 | ppb |
| Strontium | 88-1 | 64691.99 | 67013.48 | 66822.16 | 66175.88 | 1.95 | ppb |
| Sulfur | 34-1 | 16406.62 | 17423.90 | 17178.01 | 17002.84 | 3.12 | ppb |
| Terbium | 159-1 | | | | 117 | | % |
| Terbium | 159-2 | | | | 110 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 20.38 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 32.72 | ppb |
| Tin | 118-1 | -0.21 | -0.20 | -0.21 | -0.21 | | ppb |
| Titanium | 47-1 | 0.45 | 0.78 | 0.52 | 0.59 | 29.76 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-16 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A09 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:37:28 | DataFile Name : | 042SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.83 | 0.87 | 0.87 | 0.86 | 3.18 | ppb |
| Vanadium | 51-2 | 0.22 | 0.22 | 0.23 | 0.22 | 2.14 | ppb |
| Yttrium | 89-1 | | | | 114 | | % |
| Yttrium | 89-2 | | | | 108 | | % |
| Zinc | 66-2 | -2.66 | -2.85 | -2.59 | -2.70 | | ppb |
| Zirconium | 90-1 | 0.04 | 0.04 | 0.03 | 0.04 | 15.90 | ppb |
| Zirconium | 91-1 | 0.04 | 0.03 | 0.03 | 0.03 | 5.08 | ppb |

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On:11/25/2024 6:19:44 AM
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| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-17 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A20 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:40:37 | DataFile Name : | 043SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 0.68 | 0.74 | 0.75 | 0.72 | 5.56 | ppb |
| Antimony | 121-1 | 0.00 | 0.00 | 0.00 | 0.00 | 225.46 | ppb |
| Arsenic | 75-2 | -0.02 | -0.02 | -0.02 | -0.02 | | ppb |
| Barium | 135-1 | -0.02 | -0.03 | -0.02 | -0.02 | | ppb |
| Barium | 137-1 | -0.02 | -0.03 | -0.03 | -0.03 | | ppb |
| Beryllium | 9-1 | -0.03 | -0.04 | -0.04 | -0.03 | | ppb |
| Bismuth | 209-1 | | | | 114 | | % |
| Bismuth | 209-2 | | | | 110 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | -0.04 | -0.03 | -0.01 | -0.03 | | ppb |
| Cadmium | 106-1 | -0.83 | -1.76 | -0.95 | -1.18 | | ppb |
| Cadmium | 111-1 | -0.07 | -0.14 | -0.08 | -0.09 | | ppb |
| Calcium | 43-1 | -37.77 | -45.33 | -46.85 | -43.32 | | ppb |
| Calcium | 44-1 | -38.23 | -40.79 | -41.70 | -40.24 | | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.19 | -0.19 | -0.19 | -0.19 | | ppb |
| Cobalt | 59-2 | -0.02 | -0.02 | -0.02 | -0.02 | | ppb |
| Copper | 63-2 | -0.03 | -0.03 | -0.02 | -0.03 | | 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 | | | | 114 | | % |
| Holmium | 165-2 | | | | 109 | | % |
| Indium | 115-1 | | | | 111 | | % |
| Indium | 115-2 | | | | 107 | | % |
| Iron | 56-2 | -0.32 | -0.30 | -0.39 | -0.34 | | ppb |
| Iron | 57-2 | -0.93 | -1.24 | -1.06 | -1.08 | | ppb |
| Iron | 54-2 | -2.00 | -2.65 | -2.20 | -2.28 | | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-17 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A20 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:40:37 | DataFile Name : | 043SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | -0.02 | -0.02 | -0.02 | -0.02 | | ppb |
| Lead | 207-1 | -0.02 | -0.02 | -0.02 | -0.02 | | ppb |
| Lead | 208-1 | -0.02 | -0.02 | -0.02 | -0.02 | | ppb |
| Lithium | 6-1 | | | | 106 | | % |
| Magnesium | 24-2 | -0.91 | -1.12 | -0.98 | -1.01 | | ppb |
| Manganese | 55-2 | -1.00 | -1.00 | -1.04 | -1.02 | | ppb |
| Molybdenum | 94-1 | -0.02 | -0.01 | -0.01 | -0.02 | | ppb |
| Molybdenum | 95-1 | -0.01 | -0.02 | -0.02 | -0.02 | | ppb |
| Molybdenum | 96-1 | -0.01 | -0.02 | -0.02 | -0.02 | | ppb |
| Molybdenum | 97-1 | -0.01 | -0.01 | -0.02 | -0.01 | | ppb |
| Molybdenum | 98-1 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.04 | -0.06 | -0.08 | -0.06 | | ppb |
| Phosphorus | 31-2 | -17.49 | -18.78 | -19.89 | -18.72 | | ppb |
| Potassium | 39-2 | 1.05 | 0.48 | 1.34 | 0.96 | 45.46 | ppb |
| Rhodium | 103-1 | | | | 110 | | % |
| Rhodium | 103-2 | | | | 108 | | % |
| Scandium | 45-1 | | | | 106 | | % |
| Scandium | 45-2 | | | | 105 | | % |
| Selenium | 82-1 | -0.07 | -0.20 | -0.27 | -0.18 | | ppb |
| Selenium | 77-2 | -0.06 | 0.02 | 0.03 | 0.00 | | ppb |
| Selenium | 78-2 | -0.67 | -0.74 | -1.30 | -0.90 | | ppb |
| Silicon | 28-1 | -1.75 | -1.72 | -1.57 | -1.68 | | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 275.83 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 160.93 | ppb |
| Sodium | 23-2 | -11.60 | -11.74 | -11.46 | -11.60 | | ppb |
| Strontium | 86-1 | 6.03 | 4.00 | 2.72 | 4.25 | 39.19 | ppb |
| Strontium | 88-1 | 6.08 | 3.98 | 2.61 | 4.22 | 41.38 | ppb |
| Sulfur | 34-1 | 65.13 | 70.86 | 179.99 | 105.32 | 61.45 | ppb |
| Terbium | 159-1 | | | | 113 | | % |
| Terbium | 159-2 | | | | 110 | | % |
| Thallium | 203-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Thallium | 205-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Tin | 118-1 | -0.16 | -0.17 | -0.14 | -0.15 | | ppb |
| Titanium | 47-1 | -0.04 | -0.02 | -0.03 | -0.03 | | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-17 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A20 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:40:37 | DataFile Name : | 043SMPL.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 | 0.01 | 0.01 | 0.01 | 0.01 | 7.88 | ppb |
| Yttrium | 89-1 | | | | 109 | | % |
| Yttrium | 89-2 | | | | 107 | | % |
| Zinc | 66-2 | -4.29 | -4.27 | -4.26 | -4.27 | | ppb |
| Zirconium | 90-1 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |
| Zirconium | 91-1 | 0.00 | -0.01 | 0.00 | -0.01 | | ppb |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-18 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A24 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:43:55 | DataFile Name : | 044SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 0.82 | 0.72 | 1.08 | 0.87 | 21.46 | ppb |
| Antimony | 121-1 | 0.00 | 0.00 | 0.00 | 0.00 | 310.74 | ppb |
| Arsenic | 75-2 | -0.02 | -0.01 | -0.01 | -0.01 | | ppb |
| Barium | 135-1 | -0.01 | -0.03 | -0.01 | -0.02 | | ppb |
| Barium | 137-1 | -0.02 | -0.02 | -0.02 | -0.02 | | ppb |
| Beryllium | 9-1 | -0.03 | -0.02 | -0.02 | -0.02 | | ppb |
| Bismuth | 209-1 | | | | 117 | | % |
| Bismuth | 209-2 | | | | 110 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | -0.03 | -0.02 | 0.00 | -0.02 | | ppb |
| Cadmium | 106-1 | -0.05 | -1.13 | -1.05 | -0.74 | | ppb |
| Cadmium | 111-1 | -0.01 | -0.09 | -0.08 | -0.06 | | ppb |
| Calcium | 43-1 | -42.93 | -39.13 | -40.45 | -40.84 | | ppb |
| Calcium | 44-1 | -43.28 | -43.91 | -44.23 | -43.81 | | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.10 | -0.11 | -0.04 | -0.08 | | ppb |
| Cobalt | 59-2 | -0.01 | -0.02 | -0.01 | -0.01 | | ppb |
| Copper | 63-2 | 0.00 | 0.01 | 0.00 | 0.00 | 279.23 | 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 | | | | 114 | | % |
| Holmium | 165-2 | | | | 108 | | % |
| Indium | 115-1 | | | | 111 | | % |
| Indium | 115-2 | | | | 106 | | % |
| Iron | 56-2 | 0.00 | 0.12 | 0.38 | 0.17 | 115.15 | ppb |
| Iron | 57-2 | -1.36 | -0.58 | -0.02 | -0.65 | | ppb |
| Iron | 54-2 | -1.89 | -1.70 | -1.09 | -1.56 | | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-18 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A24 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:43:55 | DataFile Name : | 044SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | -0.02 | -0.01 | -0.02 | -0.02 | | ppb |
| Lead | 207-1 | -0.02 | -0.02 | -0.01 | -0.02 | | ppb |
| Lead | 208-1 | -0.01 | -0.02 | -0.02 | -0.01 | | ppb |
| Lithium | 6-1 | | | | 109 | | % |
| Magnesium | 24-2 | -1.67 | -1.57 | -1.47 | -1.57 | | ppb |
| Manganese | 55-2 | -0.75 | -0.74 | -0.64 | -0.71 | | ppb |
| Molybdenum | 94-1 | -0.01 | -0.03 | -0.03 | -0.02 | | ppb |
| Molybdenum | 95-1 | -0.02 | -0.01 | -0.01 | -0.01 | | ppb |
| Molybdenum | 96-1 | -0.02 | -0.02 | -0.01 | -0.02 | | ppb |
| Molybdenum | 97-1 | -0.02 | -0.02 | -0.01 | -0.02 | | ppb |
| Molybdenum | 98-1 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.08 | 0.10 | 0.12 | 0.10 | 17.40 | ppb |
| Phosphorus | 31-2 | -21.10 | -21.13 | -19.39 | -20.54 | | ppb |
| Potassium | 39-2 | 1.12 | 1.16 | 6.70 | 2.99 | 107.18 | ppb |
| Rhodium | 103-1 | | | | 111 | | % |
| Rhodium | 103-2 | | | | 107 | | % |
| Scandium | 45-1 | | | | 107 | | % |
| Scandium | 45-2 | | | | 104 | | % |
| Selenium | 82-1 | 0.01 | 0.14 | 0.07 | 0.07 | 90.10 | ppb |
| Selenium | 77-2 | -0.06 | 0.02 | -0.06 | -0.03 | | ppb |
| Selenium | 78-2 | -0.70 | -0.54 | -0.55 | -0.60 | | ppb |
| Silicon | 28-1 | -2.08 | -1.95 | -1.90 | -1.98 | | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 141.97 | ppb |
| Sodium | 23-2 | -10.73 | -10.25 | -6.24 | -9.07 | | ppb |
| Strontium | 86-1 | -0.48 | -0.52 | -0.75 | -0.58 | | ppb |
| Strontium | 88-1 | -0.45 | -0.49 | -0.44 | -0.46 | | ppb |
| Sulfur | 34-1 | 47.52 | 80.13 | 74.24 | 67.30 | 25.82 | ppb |
| Terbium | 159-1 | | | | 113 | | % |
| Terbium | 159-2 | | | | 108 | | % |
| Thallium | 203-1 | 0.00 | -0.01 | -0.01 | 0.00 | | ppb |
| Thallium | 205-1 | 0.00 | 0.00 | -0.01 | 0.00 | | ppb |
| Tin | 118-1 | -0.12 | -0.12 | -0.13 | -0.12 | | ppb |
| Titanium | 47-1 | -0.02 | -0.03 | -0.02 | -0.03 | | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-18 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A24 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:43:55 | DataFile Name : | 044SMPL.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 | 0.00 | 0.00 | 33.99 | ppb |
| Yttrium | 89-1 | | | | 109 | | % |
| Yttrium | 89-2 | | | | 106 | | % |
| Zinc | 66-2 | -4.29 | -4.06 | -3.89 | -4.08 | | ppb |
| Zirconium | 90-1 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |
| Zirconium | 91-1 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCV002 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV002 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:50:25 | DataFile Name : | 046CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 49945.67 | 50582.23 | 49447.34 | 49991.75 | 1.14 | ppb |
| Antimony | 121-1 | 517.39 | 516.28 | 518.78 | 517.48 | 0.24 | ppb |
| Arsenic | 75-2 | 523.79 | 532.37 | 530.17 | 528.77 | 0.84 | ppb |
| Barium | 135-1 | 2533.77 | 2566.39 | 2567.19 | 2555.78 | 0.75 | ppb |
| Barium | 137-1 | 2531.33 | 2559.37 | 2588.78 | 2559.83 | 1.12 | ppb |
| Beryllium | 9-1 | 495.61 | 516.14 | 518.17 | 509.97 | 2.45 | ppb |
| Bismuth | 209-1 | | | | 100 | | % |
| Bismuth | 209-2 | | | | 96 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 520.68 | 532.10 | 530.36 | 527.71 | 1.17 | ppb |
| Cadmium | 106-1 | 525.21 | 533.44 | 529.95 | 529.53 | 0.78 | ppb |
| Cadmium | 111-1 | 521.65 | 524.94 | 526.30 | 524.30 | 0.46 | ppb |
| Calcium | 43-1 | 252635.67 | 256635.72 | 252660.40 | 253977.26 | 0.91 | ppb |
| Calcium | 44-1 | 250629.11 | 256213.20 | 251748.50 | 252863.60 | 1.17 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 506.64 | 518.84 | 516.66 | 514.05 | 1.26 | ppb |
| Cobalt | 59-2 | 528.29 | 535.39 | 520.22 | 527.97 | 1.44 | ppb |
| Copper | 63-2 | 5180.03 | 5205.70 | 5037.35 | 5141.03 | 1.76 | 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 | | | | 105 | | % |
| Indium | 115-1 | | | | 100 | | % |
| Indium | 115-2 | | | | 99 | | % |
| Iron | 56-2 | 129976.65 | 129904.56 | 127124.23 | 129001.81 | 1.26 | ppb |
| Iron | 57-2 | 127976.50 | 131091.93 | 127943.61 | 129004.02 | 1.40 | ppb |
| Iron | 54-2 | 128134.40 | 130007.92 | 129327.95 | 129156.76 | 0.73 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCV002 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV002 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:50:25 | DataFile Name : | 046CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2620.64 | 2655.38 | 2630.45 | 2635.49 | 0.68 | ppb |
| Lead | 207-1 | 2596.84 | 2621.43 | 2628.49 | 2615.59 | 0.64 | ppb |
| Lead | 208-1 | 2598.02 | 2629.01 | 2622.58 | 2616.54 | 0.63 | ppb |
| Lithium | 6-1 | | | | 99 | | % |
| Magnesium | 24-2 | 259070.24 | 259865.95 | 254312.15 | 257749.45 | 1.17 | ppb |
| Manganese | 55-2 | 5088.24 | 5108.10 | 5088.46 | 5094.94 | 0.22 | ppb |
| Molybdenum | 94-1 | 5166.87 | 5180.27 | 5086.01 | 5144.38 | 0.99 | ppb |
| Molybdenum | 95-1 | 5148.23 | 5160.30 | 5048.78 | 5119.10 | 1.20 | ppb |
| Molybdenum | 96-1 | 5133.63 | 5125.72 | 5052.61 | 5103.99 | 0.88 | ppb |
| Molybdenum | 97-1 | 5130.59 | 5180.60 | 5094.94 | 5135.37 | 0.84 | ppb |
| Molybdenum | 98-1 | 5121.90 | 5210.88 | 5143.54 | 5158.78 | 0.90 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 522.18 | 525.88 | 516.52 | 521.53 | 0.90 | ppb |
| Phosphorus | 31-2 | 10251.47 | 10486.56 | 10228.12 | 10322.05 | 1.38 | ppb |
| Potassium | 39-2 | 124541.01 | 126340.22 | 124605.52 | 125162.25 | 0.82 | ppb |
| Rhodium | 103-1 | | | | 96 | | % |
| Rhodium | 103-2 | | | | 97 | | % |
| Scandium | 45-1 | | | | 101 | | % |
| Scandium | 45-2 | | | | 103 | | % |
| Selenium | 82-1 | 516.64 | 524.76 | 512.85 | 518.08 | 1.17 | ppb |
| Selenium | 77-2 | 528.50 | 521.20 | 514.50 | 521.40 | 1.34 | ppb |
| Selenium | 78-2 | 512.12 | 506.94 | 510.76 | 509.94 | 0.53 | ppb |
| Silicon | 28-1 | 371.74 | 373.32 | 371.26 | 372.11 | 0.29 | ppb |
| Silver | 107-1 | 507.90 | 511.62 | 513.76 | 511.10 | 0.58 | ppb |
| Silver | 109-1 | 512.29 | 506.26 | 510.03 | 509.53 | 0.60 | ppb |
| Sodium | 23-2 | 262709.23 | 259760.14 | 254503.51 | 258990.96 | 1.60 | ppb |
| Strontium | 86-1 | 13016.02 | 12989.12 | 12717.35 | 12907.50 | 1.28 | ppb |
| Strontium | 88-1 | 12847.88 | 12991.55 | 12725.74 | 12855.05 | 1.04 | ppb |
| Sulfur | 34-1 | 9938.68 | 11459.45 | 11375.61 | 10924.58 | 7.82 | ppb |
| Terbium | 159-1 | | | | 108 | | % |
| Terbium | 159-2 | | | | 105 | | % |
| Thallium | 203-1 | 518.21 | 525.76 | 529.07 | 524.35 | 1.06 | ppb |
| Thallium | 205-1 | 527.46 | 532.64 | 529.48 | 529.86 | 0.49 | ppb |
| Tin | 118-1 | 506.91 | 509.22 | 511.36 | 509.16 | 0.44 | ppb |
| Titanium | 47-1 | 5065.70 | 5126.65 | 5083.44 | 5091.93 | 0.62 | ppb |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCV002 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV002 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:50:25 | DataFile Name : | 046CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 523.88 | 532.64 | 526.88 | 527.80 | 0.84 | ppb |
| Vanadium | 51-2 | 514.33 | 521.82 | 513.17 | 516.44 | 0.91 | ppb |
| Yttrium | 89-1 | | | | 103 | | % |
| Yttrium | 89-2 | | | | 104 | | % |
| Zinc | 66-2 | 5156.89 | 5185.08 | 5065.82 | 5135.93 | 1.21 | ppb |
| Zirconium | 90-1 | 513.05 | 518.82 | 513.92 | 515.26 | 0.60 | ppb |
| Zirconium | 91-1 | 514.25 | 520.62 | 510.70 | 515.19 | 0.98 | ppb |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCB002 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB002 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:53:06 | DataFile Name : | 047CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1.74 | 1.47 | 1.25 | 1.49 | 16.49 | ppb |
| Antimony | 121-1 | 0.24 | 0.23 | 0.31 | 0.26 | 17.02 | ppb |
| Arsenic | 75-2 | 0.01 | 0.02 | 0.01 | 0.01 | 64.45 | ppb |
| Barium | 135-1 | 0.42 | 0.20 | 0.15 | 0.25 | 56.55 | ppb |
| Barium | 137-1 | 0.44 | 0.19 | 0.13 | 0.25 | 65.29 | ppb |
| Beryllium | 9-1 | 0.11 | 0.04 | 0.04 | 0.06 | 69.48 | ppb |
| Bismuth | 209-1 | | | | 108 | | % |
| Bismuth | 209-2 | | | | 107 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.13 | 0.04 | 0.06 | 0.08 | 62.63 | ppb |
| Cadmium | 106-1 | -0.45 | -1.03 | -1.44 | -0.97 | | ppb |
| Cadmium | 111-1 | 0.06 | -0.02 | -0.06 | -0.01 | | ppb |
| Calcium | 43-1 | 56.82 | 25.46 | 15.66 | 32.65 | 65.84 | ppb |
| Calcium | 44-1 | 55.13 | 23.33 | 16.71 | 31.72 | 64.74 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.03 | 0.00 | 0.04 | 0.02 | 100.12 | ppb |
| Cobalt | 59-2 | 0.01 | 0.00 | 0.00 | 0.00 | 187.67 | ppb |
| Copper | 63-2 | 0.24 | 0.20 | 0.20 | 0.21 | 11.14 | 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 | | | | 107 | | % |
| Indium | 115-1 | | | | 106 | | % |
| Indium | 115-2 | | | | 105 | | % |
| Iron | 56-2 | 4.68 | 3.90 | 3.30 | 3.96 | 17.38 | ppb |
| Iron | 57-2 | 3.43 | 2.47 | 3.79 | 3.23 | 21.07 | ppb |
| Iron | 54-2 | 5.00 | 4.16 | 3.27 | 4.14 | 20.79 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCB002 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB002 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:53:06 | DataFile Name : | 047CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.45 | 0.23 | 0.15 | 0.28 | 56.78 | ppb |
| Lead | 207-1 | 0.45 | 0.23 | 0.15 | 0.28 | 55.53 | ppb |
| Lead | 208-1 | 0.45 | 0.21 | 0.16 | 0.27 | 56.79 | ppb |
| Lithium | 6-1 | | | | 102 | | % |
| Magnesium | 24-2 | 7.76 | 6.47 | 5.56 | 6.60 | 16.76 | ppb |
| Manganese | 55-2 | 0.27 | 0.24 | 0.20 | 0.23 | 15.12 | ppb |
| Molybdenum | 94-1 | 1.17 | 0.72 | 0.64 | 0.84 | 33.61 | ppb |
| Molybdenum | 95-1 | 0.99 | 0.55 | 0.40 | 0.64 | 47.72 | ppb |
| Molybdenum | 96-1 | 1.01 | 0.56 | 0.43 | 0.67 | 45.82 | ppb |
| Molybdenum | 97-1 | 1.00 | 0.55 | 0.39 | 0.65 | 48.78 | ppb |
| Molybdenum | 98-1 | 0.98 | 0.55 | 0.40 | 0.64 | 46.81 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.04 | 0.02 | 0.01 | 0.02 | 83.16 | ppb |
| Phosphorus | 31-2 | -19.74 | -17.67 | -16.85 | -18.08 | | ppb |
| Potassium | 39-2 | 10.45 | 8.02 | 7.07 | 8.51 | 20.50 | ppb |
| Rhodium | 103-1 | | | | 106 | | % |
| Rhodium | 103-2 | | | | 107 | | % |
| Scandium | 45-1 | | | | 103 | | % |
| Scandium | 45-2 | | | | 104 | | % |
| Selenium | 82-1 | 0.48 | 0.09 | -0.08 | 0.16 | 180.60 | ppb |
| Selenium | 77-2 | -0.06 | -0.06 | -0.06 | -0.06 | | ppb |
| Selenium | 78-2 | -0.47 | -0.90 | -0.44 | -0.60 | | ppb |
| Silicon | 28-1 | 0.16 | -0.62 | -0.61 | -0.36 | | ppb |
| Silver | 107-1 | 0.10 | 0.05 | 0.04 | 0.06 | 51.92 | ppb |
| Silver | 109-1 | 0.11 | 0.05 | 0.04 | 0.07 | 55.77 | ppb |
| Sodium | 23-2 | 7.51 | 5.06 | 3.92 | 5.50 | 33.30 | ppb |
| Strontium | 86-1 | 2.73 | 1.52 | 0.67 | 1.64 | 62.86 | ppb |
| Strontium | 88-1 | 2.44 | 1.07 | 0.61 | 1.38 | 68.98 | ppb |
| Sulfur | 34-1 | 167.06 | -60.33 | -26.12 | 26.87 | 456.28 | ppb |
| Terbium | 159-1 | | | | 107 | | % |
| Terbium | 159-2 | | | | 108 | | % |
| Thallium | 203-1 | 0.09 | 0.06 | 0.04 | 0.06 | 43.13 | ppb |
| Thallium | 205-1 | 0.09 | 0.05 | 0.04 | 0.06 | 43.70 | ppb |
| Tin | 118-1 | 0.13 | 0.05 | 0.06 | 0.08 | 54.94 | ppb |
| Titanium | 47-1 | 0.84 | 0.44 | 0.26 | 0.51 | 57.74 | ppb |

Reviewed By:Mohan
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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCB002 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB002 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:53:06 | DataFile Name : | 047CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.09 | 0.04 | 0.03 | 0.05 | 60.66 | ppb |
| Vanadium | 51-2 | 0.02 | 0.02 | 0.01 | 0.02 | 39.49 | ppb |
| Yttrium | 89-1 | | | | 105 | | % |
| Yttrium | 89-2 | | | | 107 | | % |
| Zinc | 66-2 | 0.48 | 0.20 | 0.39 | 0.36 | 40.80 | ppb |
| Zirconium | 90-1 | 0.19 | 0.15 | 0.17 | 0.17 | 12.40 | ppb |
| Zirconium | 91-1 | 0.19 | 0.16 | 0.14 | 0.17 | 14.76 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-01 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:56:23 | DataFile Name : | 048SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1.13 | 1.23 | 1.28 | 1.22 | 6.33 | ppb |
| Antimony | 121-1 | 0.09 | 0.10 | 0.11 | 0.10 | 9.85 | ppb |
| Arsenic | 75-2 | 1.44 | 1.46 | 1.49 | 1.46 | 1.94 | ppb |
| Barium | 135-1 | 90.67 | 91.04 | 89.41 | 90.37 | 0.95 | ppb |
| Barium | 137-1 | 92.04 | 92.18 | 90.83 | 91.69 | 0.81 | ppb |
| Beryllium | 9-1 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |
| Bismuth | 209-1 | | | | 115 | | % |
| Bismuth | 209-2 | | | | 109 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.03 | 0.03 | 0.02 | 0.03 | 13.64 | ppb |
| Cadmium | 106-1 | 0.18 | -0.47 | -0.98 | -0.42 | | ppb |
| Cadmium | 111-1 | 0.02 | -0.03 | -0.07 | -0.03 | | ppb |
| Calcium | 43-1 | 76824.97 | 76386.37 | 77696.33 | 76969.23 | 0.87 | ppb |
| Calcium | 44-1 | 76678.62 | 76338.76 | 76388.49 | 76468.62 | 0.24 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.52 | 0.59 | 0.58 | 0.56 | 6.49 | ppb |
| Cobalt | 59-2 | 0.11 | 0.11 | 0.11 | 0.11 | 0.21 | ppb |
| Copper | 63-2 | 1.19 | 1.12 | 1.19 | 1.17 | 3.23 | 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 | | | | 118 | | % |
| Holmium | 165-2 | | | | 112 | | % |
| Indium | 115-1 | | | | 115 | | % |
| Indium | 115-2 | | | | 110 | | % |
| Iron | 56-2 | 16.16 | 15.30 | 16.35 | 15.94 | 3.48 | ppb |
| Iron | 57-2 | 410.41 | 412.53 | 415.24 | 412.73 | 0.59 | ppb |
| Iron | 54-2 | 14.94 | 14.31 | 13.48 | 14.24 | 5.13 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-01 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:56:23 | DataFile Name : | 048SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.04 | 0.03 | 0.02 | 0.03 | 24.89 | ppb |
| Lead | 207-1 | 0.04 | 0.03 | 0.02 | 0.03 | 34.22 | ppb |
| Lead | 208-1 | 0.03 | 0.03 | 0.02 | 0.03 | 24.26 | ppb |
| Lithium | 6-1 | | | | 113 | | % |
| Magnesium | 24-2 | 30068.45 | 29677.56 | 30010.52 | 29918.84 | 0.71 | ppb |
| Manganese | 55-2 | 2.72 | 2.66 | 2.67 | 2.68 | 1.19 | ppb |
| Molybdenum | 94-1 | 4.40 | 4.44 | 4.45 | 4.43 | 0.64 | ppb |
| Molybdenum | 95-1 | 5.16 | 5.21 | 5.22 | 5.20 | 0.62 | ppb |
| Molybdenum | 96-1 | 5.12 | 5.03 | 5.09 | 5.08 | 0.87 | ppb |
| Molybdenum | 97-1 | 5.15 | 5.25 | 5.31 | 5.23 | 1.50 | ppb |
| Molybdenum | 98-1 | 5.19 | 5.19 | 5.22 | 5.20 | 0.35 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 1.38 | 1.35 | 1.40 | 1.38 | 1.81 | ppb |
| Phosphorus | 31-2 | 17.86 | 16.23 | 19.50 | 17.86 | 9.13 | ppb |
| Potassium | 39-2 | 3976.21 | 3924.85 | 3935.98 | 3945.68 | 0.68 | ppb |
| Rhodium | 103-1 | | | | 113 | | % |
| Rhodium | 103-2 | | | | 109 | | % |
| Scandium | 45-1 | | | | 114 | | % |
| Scandium | 45-2 | | | | 111 | | % |
| Selenium | 82-1 | 0.13 | 0.26 | -0.09 | 0.10 | 171.66 | ppb |
| Selenium | 77-2 | 0.02 | 0.02 | -0.06 | -0.01 | | ppb |
| Selenium | 78-2 | -0.97 | -0.90 | -0.47 | -0.78 | | ppb |
| Silicon | 28-1 | 573.89 | 575.33 | 592.64 | 580.62 | 1.80 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 11.71 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 6.94 | ppb |
| Sodium | 23-2 | 15081.36 | 14885.70 | 14951.16 | 14972.74 | 0.67 | ppb |
| Strontium | 86-1 | 63600.32 | 63296.61 | 63349.16 | 63415.36 | 0.26 | ppb |
| Strontium | 88-1 | 63575.03 | 62549.13 | 63170.97 | 63098.38 | 0.82 | ppb |
| Sulfur | 34-1 | 16058.46 | 16097.76 | 16724.18 | 16293.47 | 2.29 | ppb |
| Terbium | 159-1 | | | | 118 | | % |
| Terbium | 159-2 | | | | 112 | | % |
| Thallium | 203-1 | 0.03 | 0.03 | 0.03 | 0.03 | 5.34 | ppb |
| Thallium | 205-1 | 0.03 | 0.03 | 0.03 | 0.03 | 9.69 | ppb |
| Tin | 118-1 | -0.19 | -0.18 | -0.16 | -0.18 | | ppb |
| Titanium | 47-1 | 0.20 | 0.20 | 0.24 | 0.21 | 11.31 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-01 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:56:23 | DataFile Name : | 048SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.86 | 0.88 | 0.88 | 0.87 | 1.66 | ppb |
| Vanadium | 51-2 | 0.22 | 0.19 | 0.20 | 0.20 | 5.47 | ppb |
| Yttrium | 89-1 | | | | 116 | | % |
| Yttrium | 89-2 | | | | 111 | | % |
| Zinc | 66-2 | -1.05 | -1.26 | -1.05 | -1.12 | | ppb |
| Zirconium | 90-1 | 0.05 | 0.04 | 0.07 | 0.05 | 25.74 | ppb |
| Zirconium | 91-1 | 0.04 | 0.06 | 0.08 | 0.06 | 29.37 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-02 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z4 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:59:30 | DataFile Name : | 049SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1.54 | 1.36 | 1.14 | 1.35 | 14.91 | ppb |
| Antimony | 121-1 | 0.07 | 0.08 | 0.08 | 0.07 | 6.44 | ppb |
| Arsenic | 75-2 | 1.53 | 1.48 | 1.49 | 1.50 | 1.58 | ppb |
| Barium | 135-1 | 90.34 | 92.01 | 91.83 | 91.40 | 1.00 | ppb |
| Barium | 137-1 | 91.54 | 93.46 | 92.31 | 92.43 | 1.04 | ppb |
| Beryllium | 9-1 | -0.01 | -0.02 | -0.01 | -0.01 | | ppb |
| Bismuth | 209-1 | | | | 115 | | % |
| Bismuth | 209-2 | | | | 110 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.05 | -0.03 | 0.02 | 0.01 | 359.73 | ppb |
| Cadmium | 106-1 | 0.03 | -0.66 | -1.18 | -0.60 | | ppb |
| Cadmium | 111-1 | 0.00 | -0.04 | -0.09 | -0.04 | | ppb |
| Calcium | 43-1 | 78141.92 | 77319.41 | 77950.90 | 77804.07 | 0.55 | ppb |
| Calcium | 44-1 | 76428.37 | 76596.91 | 77716.83 | 76914.04 | 0.91 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.11 | -0.13 | -0.12 | -0.12 | | ppb |
| Cobalt | 59-2 | 0.10 | 0.11 | 0.09 | 0.10 | 7.78 | ppb |
| Copper | 63-2 | 0.78 | 0.80 | 0.77 | 0.78 | 1.99 | 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 | | | | 118 | | % |
| Holmium | 165-2 | | | | 112 | | % |
| Indium | 115-1 | | | | 114 | | % |
| Indium | 115-2 | | | | 110 | | % |
| Iron | 56-2 | 15.92 | 16.23 | 15.96 | 16.04 | 1.05 | ppb |
| Iron | 57-2 | 396.83 | 413.49 | 409.39 | 406.57 | 2.14 | ppb |
| Iron | 54-2 | 13.36 | 13.87 | 13.25 | 13.49 | 2.44 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-02 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z4 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:59:30 | DataFile Name : | 049SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.08 | 0.09 | 0.09 | 0.09 | 4.35 | ppb |
| Lead | 207-1 | 0.07 | 0.06 | 0.07 | 0.07 | 6.27 | ppb |
| Lead | 208-1 | 0.08 | 0.08 | 0.08 | 0.08 | 1.77 | ppb |
| Lithium | 6-1 | | | | 113 | | % |
| Magnesium | 24-2 | 29678.74 | 30311.63 | 29925.82 | 29972.06 | 1.06 | ppb |
| Manganese | 55-2 | 2.61 | 2.73 | 2.59 | 2.64 | 2.75 | ppb |
| Molybdenum | 94-1 | 4.40 | 4.35 | 4.31 | 4.35 | 1.03 | ppb |
| Molybdenum | 95-1 | 5.18 | 5.15 | 5.05 | 5.13 | 1.28 | ppb |
| Molybdenum | 96-1 | 5.07 | 5.06 | 4.99 | 5.04 | 0.88 | ppb |
| Molybdenum | 97-1 | 5.23 | 5.18 | 5.19 | 5.20 | 0.51 | ppb |
| Molybdenum | 98-1 | 5.24 | 5.20 | 5.26 | 5.24 | 0.57 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.88 | 0.93 | 0.91 | 0.91 | 3.02 | ppb |
| Phosphorus | 31-2 | 16.33 | 16.60 | 19.20 | 17.38 | 9.12 | ppb |
| Potassium | 39-2 | 3922.74 | 4042.14 | 3987.68 | 3984.19 | 1.50 | ppb |
| Rhodium | 103-1 | | | | 112 | | % |
| Rhodium | 103-2 | | | | 109 | | % |
| Scandium | 45-1 | | | | 112 | | % |
| Scandium | 45-2 | | | | 111 | | % |
| Selenium | 82-1 | 0.25 | -0.11 | -0.07 | 0.02 | 790.76 | ppb |
| Selenium | 77-2 | 0.19 | -0.06 | -0.06 | 0.02 | 683.42 | ppb |
| Selenium | 78-2 | -0.47 | -0.44 | -0.71 | -0.54 | | ppb |
| Silicon | 28-1 | 579.77 | 584.90 | 581.92 | 582.19 | 0.44 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 30.10 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 8.86 | ppb |
| Sodium | 23-2 | 14858.77 | 15098.03 | 14897.79 | 14951.53 | 0.86 | ppb |
| Strontium | 86-1 | 64392.96 | 64232.81 | 63267.14 | 63964.30 | 0.95 | ppb |
| Strontium | 88-1 | 64120.23 | 64043.57 | 63626.92 | 63930.24 | 0.42 | ppb |
| Sulfur | 34-1 | 16573.98 | 16845.91 | 16793.86 | 16737.92 | 0.86 | ppb |
| Terbium | 159-1 | | | | 117 | | % |
| Terbium | 159-2 | | | | 113 | | % |
| Thallium | 203-1 | 0.02 | 0.02 | 0.02 | 0.02 | 6.90 | ppb |
| Thallium | 205-1 | 0.02 | 0.02 | 0.02 | 0.02 | 2.69 | ppb |
| Tin | 118-1 | -0.17 | -0.17 | -0.16 | -0.16 | | ppb |
| Titanium | 47-1 | 0.17 | 0.17 | 0.21 | 0.18 | 14.09 | ppb |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-02 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z4 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:59:30 | DataFile Name : | 049SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.87 | 0.88 | 0.89 | 0.88 | 1.32 | ppb |
| Vanadium | 51-2 | 0.19 | 0.20 | 0.20 | 0.19 | 3.45 | ppb |
| Yttrium | 89-1 | | | | 115 | | % |
| Yttrium | 89-2 | | | | 111 | | % |
| Zinc | 66-2 | -4.14 | -4.24 | -4.14 | -4.18 | | ppb |
| Zirconium | 90-1 | 0.05 | 0.05 | 0.06 | 0.05 | 13.19 | ppb |
| Zirconium | 91-1 | 0.05 | 0.05 | 0.06 | 0.05 | 10.86 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-03 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z6 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:02:40 | DataFile Name : | 050SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1.05 | 1.26 | 1.24 | 1.18 | 10.06 | ppb |
| Antimony | 121-1 | 0.07 | 0.07 | 0.08 | 0.07 | 5.77 | ppb |
| Arsenic | 75-2 | 1.37 | 1.37 | 1.34 | 1.36 | 1.36 | ppb |
| Barium | 135-1 | 88.52 | 89.45 | 88.98 | 88.99 | 0.52 | ppb |
| Barium | 137-1 | 90.58 | 90.07 | 90.90 | 90.52 | 0.47 | ppb |
| Beryllium | 9-1 | -0.02 | -0.01 | -0.01 | -0.02 | | ppb |
| Bismuth | 209-1 | | | | 115 | | % |
| Bismuth | 209-2 | | | | 108 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | -0.02 | 0.04 | 0.00 | 0.01 | 607.98 | ppb |
| Cadmium | 106-1 | 0.26 | -0.26 | -0.59 | -0.20 | | ppb |
| Cadmium | 111-1 | 0.02 | -0.02 | -0.04 | -0.01 | | ppb |
| Calcium | 43-1 | 76817.74 | 76589.25 | 77229.70 | 76878.90 | 0.42 | ppb |
| Calcium | 44-1 | 75305.38 | 75873.46 | 75185.80 | 75454.88 | 0.49 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.27 | 0.23 | 0.20 | 0.24 | 13.86 | ppb |
| Cobalt | 59-2 | 0.10 | 0.10 | 0.10 | 0.10 | 1.93 | ppb |
| Copper | 63-2 | 0.73 | 0.78 | 0.73 | 0.75 | 3.53 | 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 | | | | 116 | | % |
| Holmium | 165-2 | | | | 110 | | % |
| Indium | 115-1 | | | | 113 | | % |
| Indium | 115-2 | | | | 108 | | % |
| Iron | 56-2 | 20.00 | 19.80 | 18.87 | 19.56 | 3.09 | ppb |
| Iron | 57-2 | 413.58 | 417.84 | 405.23 | 412.22 | 1.56 | ppb |
| Iron | 54-2 | 18.47 | 18.06 | 16.65 | 17.73 | 5.41 | ppb |
| Krypton | 83-1 | | | | | | cps |

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-03 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z6 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:02:40 | DataFile Name : | 050SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.07 | 0.22 | 0.07 | 0.12 | 72.98 | ppb |
| Lead | 207-1 | 0.06 | 0.19 | 0.07 | 0.11 | 68.42 | ppb |
| Lead | 208-1 | 0.06 | 0.18 | 0.06 | 0.10 | 71.69 | ppb |
| Lithium | 6-1 | | | | 112 | | % |
| Magnesium | 24-2 | 30703.18 | 30188.58 | 29267.22 | 30053.00 | 2.42 | ppb |
| Manganese | 55-2 | 17.45 | 17.31 | 16.58 | 17.12 | 2.72 | ppb |
| Molybdenum | 94-1 | 4.23 | 4.35 | 4.29 | 4.29 | 1.35 | ppb |
| Molybdenum | 95-1 | 4.97 | 5.09 | 5.12 | 5.06 | 1.59 | ppb |
| Molybdenum | 96-1 | 4.88 | 4.94 | 4.95 | 4.92 | 0.76 | ppb |
| Molybdenum | 97-1 | 5.07 | 5.14 | 5.20 | 5.14 | 1.32 | ppb |
| Molybdenum | 98-1 | 5.00 | 5.11 | 5.13 | 5.08 | 1.38 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.81 | 0.78 | 0.78 | 0.79 | 2.21 | ppb |
| Phosphorus | 31-2 | 19.13 | 20.39 | 19.60 | 19.71 | 3.22 | ppb |
| Potassium | 39-2 | 4079.28 | 4016.91 | 3888.64 | 3994.94 | 2.43 | ppb |
| Rhodium | 103-1 | | | | 110 | | % |
| Rhodium | 103-2 | | | | 107 | | % |
| Scandium | 45-1 | | | | 110 | | % |
| Scandium | 45-2 | | | | 108 | | % |
| Selenium | 82-1 | -0.14 | -0.01 | -0.14 | -0.10 | | ppb |
| Selenium | 77-2 | 0.11 | -0.06 | -0.06 | -0.01 | | ppb |
| Selenium | 78-2 | -1.07 | -0.59 | -0.59 | -0.75 | | ppb |
| Silicon | 28-1 | 572.74 | 585.33 | 574.30 | 577.46 | 1.19 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 17.75 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 14.64 | ppb |
| Sodium | 23-2 | 14965.13 | 14711.23 | 14300.65 | 14659.00 | 2.29 | ppb |
| Strontium | 86-1 | 62453.29 | 64252.50 | 63183.01 | 63296.27 | 1.43 | ppb |
| Strontium | 88-1 | 62389.95 | 64485.17 | 63004.94 | 63293.35 | 1.70 | ppb |
| Sulfur | 34-1 | 16523.49 | 16785.59 | 16507.58 | 16605.55 | 0.94 | ppb |
| Terbium | 159-1 | | | | 115 | | % |
| Terbium | 159-2 | | | | 110 | | % |
| Thallium | 203-1 | 0.03 | 0.02 | 0.02 | 0.02 | 21.98 | ppb |
| Thallium | 205-1 | 0.02 | 0.03 | 0.02 | 0.02 | 22.18 | ppb |
| Tin | 118-1 | -0.20 | -0.18 | -0.20 | -0.19 | | ppb |
| Titanium | 47-1 | 0.17 | 0.30 | 0.25 | 0.24 | 26.92 | ppb |

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-03 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z6 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:02:40 | DataFile Name : | 050SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.88 | 0.89 | 0.86 | 0.88 | 1.66 | ppb |
| Vanadium | 51-2 | 0.18 | 0.19 | 0.19 | 0.19 | 2.59 | ppb |
| Yttrium | 89-1 | | | | 113 | | % |
| Yttrium | 89-2 | | | | 109 | | % |
| Zinc | 66-2 | -2.13 | -2.36 | -2.58 | -2.36 | | ppb |
| Zirconium | 90-1 | 0.02 | 0.03 | 0.03 | 0.03 | 8.06 | ppb |
| Zirconium | 91-1 | 0.02 | 0.02 | 0.03 | 0.02 | 42.58 | ppb |

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| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-04 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z8 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:05:48 | DataFile Name : | 051SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1.97 | 1.71 | 1.93 | 1.87 | 7.30 | ppb |
| Antimony | 121-1 | 0.06 | 0.07 | 0.07 | 0.07 | 6.83 | ppb |
| Arsenic | 75-2 | 1.58 | 1.40 | 1.47 | 1.48 | 5.95 | ppb |
| Barium | 135-1 | 89.64 | 90.38 | 90.93 | 90.31 | 0.72 | ppb |
| Barium | 137-1 | 90.65 | 91.93 | 90.91 | 91.17 | 0.74 | ppb |
| Beryllium | 9-1 | -0.02 | -0.01 | -0.02 | -0.02 | | ppb |
| Bismuth | 209-1 | | | | 112 | | % |
| Bismuth | 209-2 | | | | 108 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | -0.02 | -0.01 | -0.01 | -0.01 | | ppb |
| Cadmium | 106-1 | -0.73 | -1.43 | -1.41 | -1.19 | | ppb |
| Cadmium | 111-1 | -0.05 | -0.10 | -0.10 | -0.09 | | ppb |
| Calcium | 43-1 | 77397.15 | 78162.12 | 77601.05 | 77720.11 | 0.51 | ppb |
| Calcium | 44-1 | 76733.19 | 76929.81 | 76897.13 | 76853.38 | 0.14 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.02 | 0.01 | 0.07 | 0.03 | 96.68 | ppb |
| Cobalt | 59-2 | 0.10 | 0.10 | 0.10 | 0.10 | 2.50 | ppb |
| Copper | 63-2 | 1.27 | 1.31 | 1.37 | 1.32 | 3.73 | 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 | | | | 115 | | % |
| Holmium | 165-2 | | | | 109 | | % |
| Indium | 115-1 | | | | 112 | | % |
| Indium | 115-2 | | | | 107 | | % |
| Iron | 56-2 | 16.19 | 16.33 | 16.88 | 16.47 | 2.20 | ppb |
| Iron | 57-2 | 408.62 | 419.48 | 427.18 | 418.43 | 2.23 | ppb |
| Iron | 54-2 | 14.49 | 14.85 | 15.36 | 14.90 | 2.94 | ppb |
| Krypton | 83-1 | | | | | | cps |

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| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-04 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z8 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:05:48 | DataFile Name : | 051SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.13 | 0.13 | 0.14 | 0.13 | 1.89 | ppb |
| Lead | 207-1 | 0.11 | 0.13 | 0.11 | 0.12 | 8.06 | ppb |
| Lead | 208-1 | 0.12 | 0.13 | 0.13 | 0.13 | 2.06 | ppb |
| Lithium | 6-1 | | | | 109 | | % |
| Magnesium | 24-2 | 29807.07 | 30605.61 | 31104.92 | 30505.87 | 2.15 | ppb |
| Manganese | 55-2 | 9.28 | 9.46 | 9.78 | 9.51 | 2.62 | ppb |
| Molybdenum | 94-1 | 4.28 | 4.30 | 4.26 | 4.28 | 0.40 | ppb |
| Molybdenum | 95-1 | 5.10 | 5.09 | 5.12 | 5.11 | 0.36 | ppb |
| Molybdenum | 96-1 | 4.91 | 4.95 | 4.97 | 4.94 | 0.65 | ppb |
| Molybdenum | 97-1 | 5.05 | 5.11 | 5.15 | 5.10 | 0.96 | ppb |
| Molybdenum | 98-1 | 5.08 | 5.10 | 5.20 | 5.13 | 1.19 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.85 | 0.84 | 0.92 | 0.87 | 5.11 | ppb |
| Phosphorus | 31-2 | 16.28 | 16.52 | 17.80 | 16.87 | 4.84 | ppb |
| Potassium | 39-2 | 3887.68 | 3907.01 | 3989.04 | 3927.91 | 1.37 | ppb |
| Rhodium | 103-1 | | | | 108 | | % |
| Rhodium | 103-2 | | | | 106 | | % |
| Scandium | 45-1 | | | | 110 | | % |
| Scandium | 45-2 | | | | 107 | | % |
| Selenium | 82-1 | -0.14 | 0.17 | -0.17 | -0.05 | | ppb |
| Selenium | 77-2 | 0.11 | 0.11 | -0.06 | 0.05 | 189.85 | ppb |
| Selenium | 78-2 | -0.94 | -0.63 | -0.44 | -0.67 | | ppb |
| Silicon | 28-1 | 580.01 | 592.55 | 585.31 | 585.96 | 1.07 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 25.70 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 52.13 | ppb |
| Sodium | 23-2 | 15082.54 | 15111.13 | 15457.36 | 15217.01 | 1.37 | ppb |
| Strontium | 86-1 | 63883.57 | 64759.24 | 64644.45 | 64429.08 | 0.74 | ppb |
| Strontium | 88-1 | 63708.87 | 64385.94 | 64258.73 | 64117.85 | 0.56 | ppb |
| Sulfur | 34-1 | 16718.41 | 16670.23 | 16335.85 | 16574.83 | 1.26 | ppb |
| Terbium | 159-1 | | | | 115 | | % |
| Terbium | 159-2 | | | | 110 | | % |
| Thallium | 203-1 | 0.02 | 0.02 | 0.02 | 0.02 | 7.01 | ppb |
| Thallium | 205-1 | 0.02 | 0.02 | 0.02 | 0.02 | 4.69 | ppb |
| Tin | 118-1 | -0.13 | -0.12 | -0.13 | -0.13 | | ppb |
| Titanium | 47-1 | 0.22 | 0.23 | 0.19 | 0.21 | 10.62 | ppb |

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-04 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z8 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:05:48 | DataFile Name : | 051SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.89 | 0.89 | 0.90 | 0.89 | 0.27 | ppb |
| Vanadium | 51-2 | 0.21 | 0.22 | 0.21 | 0.21 | 1.14 | ppb |
| Yttrium | 89-1 | | | | 113 | | % |
| Yttrium | 89-2 | | | | 108 | | % |
| Zinc | 66-2 | -2.48 | -2.46 | -2.37 | -2.44 | | ppb |
| Zirconium | 90-1 | 0.03 | 0.03 | 0.03 | 0.03 | 7.14 | ppb |
| Zirconium | 91-1 | 0.03 | 0.02 | 0.02 | 0.03 | 16.58 | ppb |

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-05 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A14 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:08:57 | DataFile Name : | 052SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1.09 | 1.21 | 1.41 | 1.24 | 12.76 | ppb |
| Antimony | 121-1 | 0.06 | 0.07 | 0.07 | 0.07 | 6.29 | ppb |
| Arsenic | 75-2 | 1.43 | 1.49 | 1.45 | 1.46 | 2.09 | ppb |
| Barium | 135-1 | 91.53 | 91.40 | 91.67 | 91.53 | 0.15 | ppb |
| Barium | 137-1 | 92.52 | 91.66 | 92.46 | 92.21 | 0.52 | ppb |
| Beryllium | 9-1 | -0.02 | -0.03 | -0.02 | -0.02 | | ppb |
| Bismuth | 209-1 | | | | 112 | | % |
| Bismuth | 209-2 | | | | 107 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.04 | 0.01 | -0.02 | 0.01 | 266.45 | ppb |
| Cadmium | 106-1 | -1.75 | -0.76 | -1.52 | -1.34 | | ppb |
| Cadmium | 111-1 | -0.13 | -0.05 | -0.11 | -0.10 | | ppb |
| Calcium | 43-1 | 79373.31 | 78908.19 | 80012.66 | 79431.38 | 0.70 | ppb |
| Calcium | 44-1 | 78407.68 | 78072.76 | 78312.67 | 78264.37 | 0.22 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.57 | 0.57 | 0.53 | 0.56 | 4.37 | ppb |
| Cobalt | 59-2 | 0.13 | 0.12 | 0.14 | 0.13 | 7.39 | ppb |
| Copper | 63-2 | 1.30 | 1.31 | 1.29 | 1.30 | 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 | | | | 114 | | % |
| Holmium | 165-2 | | | | 110 | | % |
| Indium | 115-1 | | | | 111 | | % |
| Indium | 115-2 | | | | 107 | | % |
| Iron | 56-2 | 17.98 | 17.35 | 17.48 | 17.60 | 1.90 | ppb |
| Iron | 57-2 | 419.32 | 421.97 | 425.74 | 422.34 | 0.76 | ppb |
| Iron | 54-2 | 15.46 | 15.61 | 15.68 | 15.58 | 0.72 | ppb |
| Krypton | 83-1 | | | | | | cps |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-05 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A14 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:08:57 | DataFile Name : | 052SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.07 | 0.08 | 0.07 | 0.07 | 2.46 | ppb |
| Lead | 207-1 | 0.05 | 0.07 | 0.08 | 0.07 | 23.70 | ppb |
| Lead | 208-1 | 0.07 | 0.07 | 0.08 | 0.07 | 6.53 | ppb |
| Lithium | 6-1 | | | | 108 | | % |
| Magnesium | 24-2 | 30976.78 | 30795.97 | 30661.11 | 30811.28 | 0.51 | ppb |
| Manganese | 55-2 | 8.70 | 8.64 | 8.62 | 8.65 | 0.51 | ppb |
| Molybdenum | 94-1 | 4.33 | 4.31 | 4.34 | 4.33 | 0.43 | ppb |
| Molybdenum | 95-1 | 5.12 | 5.09 | 5.25 | 5.15 | 1.63 | ppb |
| Molybdenum | 96-1 | 5.07 | 5.03 | 5.11 | 5.07 | 0.75 | ppb |
| Molybdenum | 97-1 | 5.18 | 5.27 | 5.27 | 5.24 | 0.97 | ppb |
| Molybdenum | 98-1 | 5.26 | 5.22 | 5.31 | 5.26 | 0.81 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 2.25 | 2.24 | 2.33 | 2.28 | 2.21 | ppb |
| Phosphorus | 31-2 | 25.02 | 21.16 | 20.33 | 22.17 | 11.30 | ppb |
| Potassium | 39-2 | 4143.51 | 4120.80 | 4157.38 | 4140.56 | 0.45 | ppb |
| Rhodium | 103-1 | | | | 109 | | % |
| Rhodium | 103-2 | | | | 106 | | % |
| Scandium | 45-1 | | | | 108 | | % |
| Scandium | 45-2 | | | | 106 | | % |
| Selenium | 82-1 | 0.25 | 0.07 | -0.01 | 0.10 | 129.59 | ppb |
| Selenium | 77-2 | -0.06 | 0.02 | 0.11 | 0.02 | 363.43 | ppb |
| Selenium | 78-2 | -1.24 | -0.03 | -0.77 | -0.68 | | ppb |
| Silicon | 28-1 | 589.35 | 592.03 | 594.78 | 592.05 | 0.46 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 41.86 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 47.39 | ppb |
| Sodium | 23-2 | 15360.81 | 14968.33 | 15067.69 | 15132.27 | 1.35 | ppb |
| Strontium | 86-1 | 64642.71 | 64236.87 | 65815.79 | 64898.46 | 1.26 | ppb |
| Strontium | 88-1 | 64330.77 | 64914.16 | 65305.77 | 64850.23 | 0.76 | ppb |
| Sulfur | 34-1 | 16868.75 | 16660.92 | 17183.40 | 16904.36 | 1.56 | ppb |
| Terbium | 159-1 | | | | 114 | | % |
| Terbium | 159-2 | | | | 109 | | % |
| Thallium | 203-1 | 0.02 | 0.02 | 0.02 | 0.02 | 8.72 | ppb |
| Thallium | 205-1 | 0.02 | 0.02 | 0.02 | 0.02 | 12.02 | ppb |
| Tin | 118-1 | -0.16 | -0.16 | -0.15 | -0.16 | | ppb |
| Titanium | 47-1 | 0.21 | 0.21 | 0.20 | 0.20 | 1.73 | ppb |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-05 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A14 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:08:57 | DataFile Name : | 052SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.88 | 0.86 | 0.89 | 0.88 | 2.14 | ppb |
| Vanadium | 51-2 | 0.20 | 0.20 | 0.19 | 0.20 | 1.80 | ppb |
| Yttrium | 89-1 | | | | 112 | | % |
| Yttrium | 89-2 | | | | 108 | | % |
| Zinc | 66-2 | 2.39 | 2.27 | 2.09 | 2.25 | 6.70 | ppb |
| Zirconium | 90-1 | 0.02 | 0.02 | 0.03 | 0.03 | 12.29 | ppb |
| Zirconium | 91-1 | 0.04 | 0.03 | 0.03 | 0.03 | 18.82 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-06 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A00 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:12:06 | DataFile Name : | 053SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1.86 | 1.94 | 1.73 | 1.84 | 5.85 | ppb |
| Antimony | 121-1 | 0.06 | 0.07 | 0.08 | 0.07 | 9.36 | ppb |
| Arsenic | 75-2 | 1.50 | 1.49 | 1.60 | 1.53 | 3.94 | ppb |
| Barium | 135-1 | 89.92 | 92.61 | 94.30 | 92.27 | 2.39 | ppb |
| Barium | 137-1 | 90.17 | 94.05 | 95.69 | 93.30 | 3.04 | ppb |
| Beryllium | 9-1 | -0.03 | -0.04 | -0.03 | -0.03 | | ppb |
| Bismuth | 209-1 | | | | 115 | | % |
| Bismuth | 209-2 | | | | 109 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.02 | -0.05 | -0.02 | -0.02 | | ppb |
| Cadmium | 106-1 | -0.54 | -1.15 | -0.99 | -0.89 | | ppb |
| Cadmium | 111-1 | -0.04 | -0.08 | -0.07 | -0.06 | | ppb |
| Calcium | 43-1 | 77723.05 | 77359.75 | 79503.75 | 78195.52 | 1.47 | ppb |
| Calcium | 44-1 | 76179.06 | 77492.45 | 79294.42 | 77655.31 | 2.01 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.12 | -0.10 | -0.11 | -0.11 | | ppb |
| Cobalt | 59-2 | 0.09 | 0.10 | 0.10 | 0.10 | 5.19 | ppb |
| Copper | 63-2 | 0.92 | 0.92 | 0.93 | 0.92 | 0.57 | 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 | | | | 118 | | % |
| Holmium | 165-2 | | | | 111 | | % |
| Indium | 115-1 | | | | 114 | | % |
| Indium | 115-2 | | | | 110 | | % |
| Iron | 56-2 | 18.72 | 18.96 | 18.93 | 18.87 | 0.69 | ppb |
| Iron | 57-2 | 413.75 | 424.95 | 428.76 | 422.49 | 1.85 | ppb |
| Iron | 54-2 | 16.77 | 17.19 | 16.37 | 16.78 | 2.45 | ppb |
| Krypton | 83-1 | | | | | | cps |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-06 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A00 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:12:06 | DataFile Name : | 053SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.05 | 0.05 | 0.06 | 0.05 | 13.64 | ppb |
| Lead | 207-1 | 0.03 | 0.03 | 0.04 | 0.03 | 10.49 | ppb |
| Lead | 208-1 | 0.04 | 0.04 | 0.05 | 0.04 | 10.05 | ppb |
| Lithium | 6-1 | | | | 111 | | % |
| Magnesium | 24-2 | 30780.86 | 31159.64 | 30609.13 | 30849.88 | 0.91 | ppb |
| Manganese | 55-2 | 3.43 | 3.35 | 3.41 | 3.40 | 1.20 | ppb |
| Molybdenum | 94-1 | 4.20 | 4.38 | 4.44 | 4.34 | 2.91 | ppb |
| Molybdenum | 95-1 | 5.10 | 5.17 | 5.31 | 5.19 | 2.08 | ppb |
| Molybdenum | 96-1 | 4.94 | 5.09 | 5.13 | 5.05 | 1.91 | ppb |
| Molybdenum | 97-1 | 5.03 | 5.16 | 5.25 | 5.15 | 2.12 | ppb |
| Molybdenum | 98-1 | 5.13 | 5.24 | 5.29 | 5.22 | 1.52 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.78 | 0.81 | 0.78 | 0.79 | 2.41 | ppb |
| Phosphorus | 31-2 | 9.59 | 9.51 | 5.23 | 8.11 | 30.78 | ppb |
| Potassium | 39-2 | 3921.64 | 3965.29 | 3883.26 | 3923.40 | 1.05 | ppb |
| Rhodium | 103-1 | | | | 111 | | % |
| Rhodium | 103-2 | | | | 108 | | % |
| Scandium | 45-1 | | | | 111 | | % |
| Scandium | 45-2 | | | | 110 | | % |
| Selenium | 82-1 | 0.19 | 0.35 | 0.31 | 0.28 | 28.18 | ppb |
| Selenium | 77-2 | 0.02 | -0.06 | 0.02 | -0.01 | | ppb |
| Selenium | 78-2 | -0.15 | -0.69 | -0.23 | -0.35 | | ppb |
| Silicon | 28-1 | 569.41 | 588.00 | 589.56 | 582.32 | 1.93 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 60.72 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 35.92 | ppb |
| Sodium | 23-2 | 15197.07 | 15224.43 | 15216.72 | 15212.74 | 0.09 | ppb |
| Strontium | 86-1 | 64398.52 | 66703.66 | 66559.67 | 65887.28 | 1.96 | ppb |
| Strontium | 88-1 | 63833.59 | 65768.10 | 66473.58 | 65358.43 | 2.09 | ppb |
| Sulfur | 34-1 | 15810.93 | 16226.47 | 16104.10 | 16047.17 | 1.33 | ppb |
| Terbium | 159-1 | | | | 117 | | % |
| Terbium | 159-2 | | | | 111 | | % |
| Thallium | 203-1 | 0.02 | 0.02 | 0.01 | 0.02 | 14.53 | ppb |
| Thallium | 205-1 | 0.02 | 0.02 | 0.01 | 0.01 | 13.14 | ppb |
| Tin | 118-1 | -0.17 | -0.17 | -0.17 | -0.17 | | ppb |
| Titanium | 47-1 | 0.15 | 0.21 | 0.19 | 0.18 | 16.48 | ppb |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-06 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A00 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:12:06 | DataFile Name : | 053SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.88 | 0.89 | 0.91 | 0.89 | 1.80 | ppb |
| Vanadium | 51-2 | 0.18 | 0.19 | 0.19 | 0.19 | 3.82 | ppb |
| Yttrium | 89-1 | | | | 115 | | % |
| Yttrium | 89-2 | | | | 110 | | % |
| Zinc | 66-2 | -3.70 | -3.89 | -3.74 | -3.77 | | ppb |
| Zirconium | 90-1 | 0.03 | 0.03 | 0.02 | 0.03 | 14.57 | ppb |
| Zirconium | 91-1 | 0.02 | 0.03 | 0.02 | 0.02 | 6.37 | ppb |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-07 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:15:16 | DataFile Name : | 054SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1.37 | 1.15 | 1.20 | 1.24 | 9.56 | ppb |
| Antimony | 121-1 | 0.08 | 0.07 | 0.07 | 0.07 | 5.80 | ppb |
| Arsenic | 75-2 | 1.42 | 1.42 | 1.56 | 1.47 | 5.49 | ppb |
| Barium | 135-1 | 98.09 | 98.44 | 98.14 | 98.23 | 0.19 | ppb |
| Barium | 137-1 | 99.85 | 99.20 | 98.81 | 99.29 | 0.53 | ppb |
| Beryllium | 9-1 | -0.03 | -0.03 | -0.02 | -0.03 | | ppb |
| Bismuth | 209-1 | | | | 113 | | % |
| Bismuth | 209-2 | | | | 109 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.04 | -0.01 | 0.02 | 0.02 | 142.24 | ppb |
| Cadmium | 106-1 | -0.66 | -0.43 | -1.15 | -0.75 | | ppb |
| Cadmium | 111-1 | -0.05 | -0.03 | -0.09 | -0.05 | | ppb |
| Calcium | 43-1 | 82766.98 | 82280.96 | 79571.35 | 81539.76 | 2.11 | ppb |
| Calcium | 44-1 | 80859.34 | 80800.69 | 79025.25 | 80228.43 | 1.30 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.07 | 0.06 | 0.03 | 0.05 | 39.95 | ppb |
| Cobalt | 59-2 | 0.10 | 0.11 | 0.11 | 0.11 | 4.41 | ppb |
| Copper | 63-2 | 1.40 | 1.47 | 1.45 | 1.44 | 2.59 | 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 | | | | 115 | | % |
| Holmium | 165-2 | | | | 111 | | % |
| Indium | 115-1 | | | | 112 | | % |
| Indium | 115-2 | | | | 109 | | % |
| Iron | 56-2 | 16.64 | 17.15 | 17.04 | 16.94 | 1.57 | ppb |
| Iron | 57-2 | 407.91 | 423.21 | 428.07 | 419.73 | 2.51 | ppb |
| Iron | 54-2 | 15.30 | 15.29 | 14.77 | 15.12 | 2.03 | ppb |
| Krypton | 83-1 | | | | | | cps |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-07 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:15:16 | DataFile Name : | 054SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.12 | 0.13 | 0.13 | 0.13 | 4.12 | ppb |
| Lead | 207-1 | 0.12 | 0.12 | 0.11 | 0.12 | 3.29 | ppb |
| Lead | 208-1 | 0.12 | 0.12 | 0.12 | 0.12 | 0.89 | ppb |
| Lithium | 6-1 | | | | 109 | | % |
| Magnesium | 24-2 | 29968.38 | 30279.57 | 30200.96 | 30149.64 | 0.54 | ppb |
| Manganese | 55-2 | 1.61 | 1.65 | 1.60 | 1.62 | 1.72 | ppb |
| Molybdenum | 94-1 | 4.56 | 4.71 | 4.56 | 4.61 | 1.92 | ppb |
| Molybdenum | 95-1 | 5.43 | 5.63 | 5.48 | 5.51 | 1.90 | ppb |
| Molybdenum | 96-1 | 5.41 | 5.43 | 5.37 | 5.40 | 0.52 | ppb |
| Molybdenum | 97-1 | 5.50 | 5.61 | 5.58 | 5.56 | 1.04 | ppb |
| Molybdenum | 98-1 | 5.56 | 5.62 | 5.55 | 5.58 | 0.66 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.83 | 0.85 | 0.86 | 0.85 | 1.60 | ppb |
| Phosphorus | 31-2 | 2.28 | 8.98 | 11.34 | 7.54 | 62.36 | ppb |
| Potassium | 39-2 | 3951.75 | 3986.12 | 4094.15 | 4010.67 | 1.85 | ppb |
| Rhodium | 103-1 | | | | 110 | | % |
| Rhodium | 103-2 | | | | 108 | | % |
| Scandium | 45-1 | | | | 109 | | % |
| Scandium | 45-2 | | | | 110 | | % |
| Selenium | 82-1 | 0.52 | 0.12 | 0.25 | 0.30 | 70.18 | ppb |
| Selenium | 77-2 | 0.02 | 0.11 | -0.06 | 0.02 | 388.82 | ppb |
| Selenium | 78-2 | -0.87 | -0.48 | -0.46 | -0.61 | | ppb |
| Silicon | 28-1 | 620.73 | 618.43 | 610.80 | 616.65 | 0.84 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 116.40 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 50.50 | ppb |
| Sodium | 23-2 | 15246.98 | 15469.32 | 15439.71 | 15385.34 | 0.78 | ppb |
| Strontium | 86-1 | 69310.12 | 70827.12 | 69437.47 | 69858.24 | 1.20 | ppb |
| Strontium | 88-1 | 69601.83 | 71037.18 | 70148.81 | 70262.61 | 1.03 | ppb |
| Sulfur | 34-1 | 18120.10 | 17958.12 | 17571.31 | 17883.18 | 1.58 | ppb |
| Terbium | 159-1 | | | | 114 | | % |
| Terbium | 159-2 | | | | 112 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 25.66 | ppb |
| Thallium | 205-1 | 0.01 | 0.02 | 0.02 | 0.02 | 8.05 | ppb |
| Tin | 118-1 | -0.21 | -0.20 | -0.21 | -0.20 | | ppb |
| Titanium | 47-1 | 0.18 | 0.19 | 0.20 | 0.19 | 4.65 | ppb |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-07 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:15:16 | DataFile Name : | 054SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.92 | 0.93 | 0.92 | 0.92 | 0.82 | ppb |
| Vanadium | 51-2 | 0.19 | 0.18 | 0.19 | 0.18 | 3.17 | ppb |
| Yttrium | 89-1 | | | | 113 | | % |
| Yttrium | 89-2 | | | | 111 | | % |
| Zinc | 66-2 | -3.21 | -3.14 | -3.02 | -3.12 | | ppb |
| Zirconium | 90-1 | 0.02 | 0.03 | 0.03 | 0.03 | 12.59 | ppb |
| Zirconium | 91-1 | 0.03 | 0.03 | 0.02 | 0.03 | 11.37 | ppb |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-08 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A02D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:18:24 | DataFile Name : | 055SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1.61 | 1.58 | 1.42 | 1.54 | 6.69 | ppb |
| Antimony | 121-1 | 0.07 | 0.07 | 0.07 | 0.07 | 0.70 | ppb |
| Arsenic | 75-2 | 1.41 | 1.49 | 1.46 | 1.45 | 2.81 | ppb |
| Barium | 135-1 | 96.47 | 97.44 | 96.60 | 96.83 | 0.54 | ppb |
| Barium | 137-1 | 97.27 | 99.39 | 98.53 | 98.39 | 1.08 | ppb |
| Beryllium | 9-1 | -0.04 | -0.03 | -0.02 | -0.03 | | ppb |
| Bismuth | 209-1 | | | | 113 | | % |
| Bismuth | 209-2 | | | | 108 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.03 | 0.05 | 0.03 | 0.04 | 33.66 | ppb |
| Cadmium | 106-1 | -0.38 | -1.16 | -1.75 | -1.10 | | ppb |
| Cadmium | 111-1 | -0.02 | -0.08 | -0.13 | -0.08 | | ppb |
| Calcium | 43-1 | 80385.82 | 82958.67 | 81047.72 | 81464.07 | 1.64 | ppb |
| Calcium | 44-1 | 79558.96 | 81127.43 | 80690.72 | 80459.04 | 1.01 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.21 | 0.23 | 0.17 | 0.20 | 15.16 | ppb |
| Cobalt | 59-2 | 0.10 | 0.10 | 0.10 | 0.10 | 2.17 | ppb |
| Copper | 63-2 | 0.80 | 0.81 | 0.80 | 0.80 | 0.49 | 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 | | | | 115 | | % |
| Holmium | 165-2 | | | | 111 | | % |
| Indium | 115-1 | | | | 112 | | % |
| Indium | 115-2 | | | | 108 | | % |
| Iron | 56-2 | 22.04 | 21.33 | 21.37 | 21.58 | 1.85 | ppb |
| Iron | 57-2 | 427.45 | 432.67 | 434.25 | 431.46 | 0.82 | ppb |
| Iron | 54-2 | 21.02 | 20.98 | 20.37 | 20.79 | 1.76 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-08 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A02D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:18:24 | DataFile Name : | 055SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.03 | 0.04 | 0.04 | 0.04 | 18.20 | ppb |
| Lead | 207-1 | 0.02 | 0.04 | 0.03 | 0.03 | 39.49 | ppb |
| Lead | 208-1 | 0.03 | 0.04 | 0.04 | 0.03 | 20.76 | ppb |
| Lithium | 6-1 | | | | 108 | | % |
| Magnesium | 24-2 | 31078.42 | 30679.46 | 30773.32 | 30843.73 | 0.68 | ppb |
| Manganese | 55-2 | 2.13 | 2.19 | 2.20 | 2.18 | 1.83 | ppb |
| Molybdenum | 94-1 | 4.55 | 4.66 | 4.64 | 4.62 | 1.30 | ppb |
| Molybdenum | 95-1 | 5.58 | 5.57 | 5.57 | 5.57 | 0.08 | ppb |
| Molybdenum | 96-1 | 5.35 | 5.51 | 5.47 | 5.44 | 1.55 | ppb |
| Molybdenum | 97-1 | 5.51 | 5.74 | 5.69 | 5.65 | 2.10 | ppb |
| Molybdenum | 98-1 | 5.56 | 5.67 | 5.61 | 5.61 | 0.96 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 1.02 | 1.00 | 1.01 | 1.01 | 1.30 | ppb |
| Phosphorus | 31-2 | 3.27 | 6.25 | 5.42 | 4.98 | 30.84 | ppb |
| Potassium | 39-2 | 4134.69 | 4007.54 | 4069.87 | 4070.70 | 1.56 | ppb |
| Rhodium | 103-1 | | | | 110 | | % |
| Rhodium | 103-2 | | | | 108 | | % |
| Scandium | 45-1 | | | | 110 | | % |
| Scandium | 45-2 | | | | 108 | | % |
| Selenium | 82-1 | 0.32 | 0.08 | 0.00 | 0.13 | 126.99 | ppb |
| Selenium | 77-2 | 0.02 | 0.28 | 0.02 | 0.11 | 136.91 | ppb |
| Selenium | 78-2 | -0.99 | -0.98 | -0.23 | -0.73 | | ppb |
| Silicon | 28-1 | 602.20 | 612.98 | 610.95 | 608.71 | 0.94 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 91.89 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 20.28 | ppb |
| Sodium | 23-2 | 15999.49 | 15599.62 | 15761.78 | 15786.96 | 1.27 | ppb |
| Strontium | 86-1 | 69467.21 | 69899.72 | 70337.27 | 69901.40 | 0.62 | ppb |
| Strontium | 88-1 | 69888.88 | 70628.52 | 70755.39 | 70424.26 | 0.66 | ppb |
| Sulfur | 34-1 | 17744.97 | 18371.18 | 17662.07 | 17926.07 | 2.16 | ppb |
| Terbium | 159-1 | | | | 116 | | % |
| Terbium | 159-2 | | | | 111 | | % |
| Thallium | 203-1 | 0.02 | 0.01 | 0.01 | 0.02 | 17.59 | ppb |
| Thallium | 205-1 | 0.02 | 0.02 | 0.01 | 0.02 | 16.35 | ppb |
| Tin | 118-1 | -0.18 | -0.17 | -0.19 | -0.18 | | ppb |
| Titanium | 47-1 | 0.22 | 0.21 | 0.21 | 0.21 | 2.39 | ppb |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-08 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A02D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:18:24 | DataFile Name : | 055SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.92 | 0.96 | 0.93 | 0.94 | 2.27 | ppb |
| Vanadium | 51-2 | 0.19 | 0.20 | 0.18 | 0.19 | 3.92 | ppb |
| Yttrium | 89-1 | | | | 113 | | % |
| Yttrium | 89-2 | | | | 110 | | % |
| Zinc | 66-2 | -1.45 | -1.20 | -1.39 | -1.35 | | ppb |
| Zirconium | 90-1 | 0.02 | 0.03 | 0.03 | 0.02 | 22.27 | ppb |
| Zirconium | 91-1 | 0.02 | 0.02 | 0.03 | 0.02 | 20.15 | ppb |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-07LX5 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A02L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2024-11-22 16:21:34 | DataFile Name : | 056SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 0.74 | 0.83 | 0.92 | 0.83 | 10.53 | ppb |
| Antimony | 121-1 | 0.01 | 0.01 | 0.02 | 0.01 | 22.94 | ppb |
| Arsenic | 75-2 | 0.28 | 0.28 | 0.28 | 0.28 | 1.11 | ppb |
| Barium | 135-1 | 18.86 | 18.82 | 18.86 | 18.85 | 0.11 | ppb |
| Barium | 137-1 | 19.26 | 19.29 | 19.20 | 19.25 | 0.23 | ppb |
| Beryllium | 9-1 | -0.04 | -0.03 | -0.03 | -0.03 | | ppb |
| Bismuth | 209-1 | | | | 109 | | % |
| Bismuth | 209-2 | | | | 108 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | -0.03 | -0.04 | -0.01 | -0.02 | | ppb |
| Cadmium | 106-1 | -0.67 | -1.10 | -1.59 | -1.12 | | ppb |
| Cadmium | 111-1 | -0.05 | -0.08 | -0.11 | -0.08 | | ppb |
| Calcium | 43-1 | 16101.51 | 16260.29 | 15934.78 | 16098.86 | 1.01 | ppb |
| Calcium | 44-1 | 15264.06 | 15441.98 | 15395.10 | 15367.05 | 0.60 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.00 | 0.00 | 0.01 | 0.00 | 143.67 | ppb |
| Cobalt | 59-2 | 0.01 | 0.01 | 0.00 | 0.01 | 33.81 | ppb |
| Copper | 63-2 | 0.31 | 0.28 | 0.28 | 0.29 | 5.98 | 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 | | | | 107 | | % |
| Indium | 115-1 | | | | 107 | | % |
| Indium | 115-2 | | | | 106 | | % |
| Iron | 56-2 | 3.23 | 3.24 | 3.00 | 3.15 | 4.30 | ppb |
| Iron | 57-2 | 80.41 | 82.67 | 84.73 | 82.60 | 2.62 | ppb |
| Iron | 54-2 | 2.32 | 3.17 | 2.43 | 2.64 | 17.43 | ppb |
| Krypton | 83-1 | | | | | | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-07LX5 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A02L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2024-11-22 16:21:34 | DataFile Name : | 056SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.02 | 0.02 | 0.02 | 0.02 | 5.91 | ppb |
| Lead | 207-1 | 0.02 | 0.02 | 0.02 | 0.02 | 13.43 | ppb |
| Lead | 208-1 | 0.02 | 0.02 | 0.02 | 0.02 | 8.38 | ppb |
| Lithium | 6-1 | | | | 105 | | % |
| Magnesium | 24-2 | 6014.39 | 5983.98 | 5970.62 | 5989.66 | 0.37 | ppb |
| Manganese | 55-2 | 0.37 | 0.40 | 0.34 | 0.37 | 7.65 | ppb |
| Molybdenum | 94-1 | 0.89 | 0.92 | 0.92 | 0.91 | 2.09 | ppb |
| Molybdenum | 95-1 | 1.08 | 1.10 | 1.04 | 1.07 | 2.78 | ppb |
| Molybdenum | 96-1 | 1.02 | 1.04 | 1.05 | 1.04 | 1.79 | ppb |
| Molybdenum | 97-1 | 1.07 | 1.06 | 1.08 | 1.07 | 0.93 | ppb |
| Molybdenum | 98-1 | 1.08 | 1.08 | 1.06 | 1.07 | 1.27 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.16 | 0.16 | 0.15 | 0.16 | 4.56 | ppb |
| Phosphorus | 31-2 | -15.07 | -16.57 | -13.01 | -14.88 | | ppb |
| Potassium | 39-2 | 822.56 | 825.96 | 808.97 | 819.16 | 1.10 | ppb |
| Rhodium | 103-1 | | | | 107 | | % |
| Rhodium | 103-2 | | | | 107 | | % |
| Scandium | 45-1 | | | | 105 | | % |
| Scandium | 45-2 | | | | 105 | | % |
| Selenium | 82-1 | 0.48 | -0.03 | -0.15 | 0.10 | 331.79 | ppb |
| Selenium | 77-2 | -0.06 | -0.06 | 0.03 | -0.03 | | ppb |
| Selenium | 78-2 | -0.35 | -0.34 | -0.94 | -0.55 | | ppb |
| Silicon | 28-1 | 120.15 | 121.14 | 118.55 | 119.95 | 1.09 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 76.03 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 94.75 | ppb |
| Sodium | 23-2 | 3028.78 | 3099.33 | 3000.75 | 3042.95 | 1.67 | ppb |
| Strontium | 86-1 | 13690.47 | 14120.98 | 13691.92 | 13834.45 | 1.79 | ppb |
| Strontium | 88-1 | 13593.51 | 13802.42 | 13808.92 | 13734.95 | 0.89 | ppb |
| Sulfur | 34-1 | 3324.75 | 3308.06 | 3213.23 | 3282.01 | 1.83 | ppb |
| Terbium | 159-1 | | | | 110 | | % |
| Terbium | 159-2 | | | | 109 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 15.19 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 24.71 | ppb |
| Tin | 118-1 | -0.02 | -0.04 | -0.03 | -0.03 | | ppb |
| Titanium | 47-1 | 0.03 | 0.02 | 0.02 | 0.02 | 27.90 | ppb |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-07LX5 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A02L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2024-11-22 16:21:34 | DataFile Name : | 056SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.18 | 0.17 | 0.17 | 0.17 | 2.47 | ppb |
| Vanadium | 51-2 | 0.05 | 0.03 | 0.03 | 0.04 | 18.25 | ppb |
| Yttrium | 89-1 | | | | 107 | | % |
| Yttrium | 89-2 | | | | 106 | | % |
| Zinc | 66-2 | -0.53 | -0.51 | -0.63 | -0.56 | | ppb |
| Zirconium | 90-1 | 0.01 | 0.01 | 0.01 | 0.01 | 19.64 | ppb |
| Zirconium | 91-1 | 0.01 | 0.01 | 0.02 | 0.01 | 44.17 | ppb |

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-09 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A02S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:24:43 | DataFile Name : | 057SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1815.65 | 1798.61 | 1859.04 | 1824.43 | 1.71 | ppb |
| Antimony | 121-1 | 103.73 | 103.81 | 104.49 | 104.01 | 0.40 | ppb |
| Arsenic | 75-2 | 42.55 | 43.18 | 43.20 | 42.98 | 0.86 | ppb |
| Barium | 135-1 | 2093.17 | 2085.89 | 2091.21 | 2090.09 | 0.18 | ppb |
| Barium | 137-1 | 2096.37 | 2096.80 | 2105.33 | 2099.50 | 0.24 | ppb |
| Beryllium | 9-1 | 48.86 | 49.16 | 49.83 | 49.28 | 1.01 | ppb |
| Bismuth | 209-1 | | | | 116 | | % |
| Bismuth | 209-2 | | | | 109 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 46.03 | 45.77 | 46.11 | 45.97 | 0.38 | ppb |
| Cadmium | 106-1 | 44.49 | 44.86 | 44.78 | 44.71 | 0.44 | ppb |
| Cadmium | 111-1 | 51.99 | 52.43 | 52.54 | 52.32 | 0.55 | ppb |
| Calcium | 43-1 | 78123.70 | 77990.32 | 79493.58 | 78535.87 | 1.06 | ppb |
| Calcium | 44-1 | 76802.62 | 77348.51 | 78231.84 | 77460.99 | 0.93 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 206.18 | 204.22 | 209.30 | 206.56 | 1.24 | ppb |
| Cobalt | 59-2 | 510.67 | 503.68 | 517.10 | 510.48 | 1.32 | ppb |
| Copper | 63-2 | 244.52 | 240.21 | 248.37 | 244.37 | 1.67 | 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 | | | | 118 | | % |
| Holmium | 165-2 | | | | 112 | | % |
| Indium | 115-1 | | | | 113 | | % |
| Indium | 115-2 | | | | 108 | | % |
| Iron | 56-2 | 1053.39 | 1046.17 | 1066.02 | 1055.19 | 0.95 | ppb |
| Iron | 57-2 | 1465.85 | 1466.98 | 1496.76 | 1476.53 | 1.19 | ppb |
| Iron | 54-2 | 1240.37 | 1230.14 | 1258.37 | 1242.96 | 1.15 | ppb |
| Krypton | 83-1 | | | | | | cps |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-09 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A02S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:24:43 | DataFile Name : | 057SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 20.52 | 20.60 | 20.75 | 20.62 | 0.56 | ppb |
| Lead | 207-1 | 19.91 | 20.10 | 20.08 | 20.03 | 0.52 | ppb |
| Lead | 208-1 | 20.18 | 20.33 | 20.39 | 20.30 | 0.55 | ppb |
| Lithium | 6-1 | | | | 108 | | % |
| Magnesium | 24-2 | 29035.40 | 28998.34 | 30023.15 | 29352.30 | 1.98 | ppb |
| Manganese | 55-2 | 498.87 | 490.06 | 500.30 | 496.41 | 1.12 | ppb |
| Molybdenum | 94-1 | 4.41 | 4.48 | 4.56 | 4.48 | 1.68 | ppb |
| Molybdenum | 95-1 | 5.27 | 5.26 | 5.41 | 5.31 | 1.61 | ppb |
| Molybdenum | 96-1 | 5.20 | 5.22 | 5.38 | 5.27 | 1.92 | ppb |
| Molybdenum | 97-1 | 5.27 | 5.37 | 5.49 | 5.38 | 2.05 | ppb |
| Molybdenum | 98-1 | 5.31 | 5.36 | 5.48 | 5.38 | 1.62 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 512.11 | 513.17 | 522.59 | 515.96 | 1.12 | ppb |
| Phosphorus | 31-2 | 8.49 | 9.99 | 14.47 | 10.98 | 28.31 | ppb |
| Potassium | 39-2 | 3825.90 | 3831.64 | 3891.29 | 3849.61 | 0.94 | ppb |
| Rhodium | 103-1 | | | | 110 | | % |
| Rhodium | 103-2 | | | | 107 | | % |
| Scandium | 45-1 | | | | 110 | | % |
| Scandium | 45-2 | | | | 109 | | % |
| Selenium | 82-1 | 108.81 | 107.00 | 110.69 | 108.83 | 1.70 | ppb |
| Selenium | 77-2 | 106.92 | 112.98 | 109.23 | 109.71 | 2.79 | ppb |
| Selenium | 78-2 | 110.17 | 110.35 | 107.33 | 109.28 | 1.55 | ppb |
| Silicon | 28-1 | 596.52 | 589.77 | 607.92 | 598.07 | 1.53 | ppb |
| Silver | 107-1 | 51.22 | 51.67 | 51.64 | 51.51 | 0.49 | ppb |
| Silver | 109-1 | 50.75 | 51.35 | 51.66 | 51.25 | 0.90 | ppb |
| Sodium | 23-2 | 14980.02 | 14856.82 | 15476.40 | 15104.41 | 2.17 | ppb |
| Strontium | 86-1 | 67841.15 | 67079.02 | 68000.83 | 67640.33 | 0.73 | ppb |
| Strontium | 88-1 | 67329.11 | 66997.09 | 68342.83 | 67556.35 | 1.04 | ppb |
| Sulfur | 34-1 | 17563.49 | 16795.75 | 17525.19 | 17294.81 | 2.50 | ppb |
| Terbium | 159-1 | | | | 118 | | % |
| Terbium | 159-2 | | | | 113 | | % |
| Thallium | 203-1 | 49.71 | 50.46 | 50.78 | 50.31 | 1.09 | ppb |
| Thallium | 205-1 | 51.04 | 50.48 | 50.63 | 50.72 | 0.57 | ppb |
| Tin | 118-1 | -0.09 | -0.10 | -0.10 | -0.10 | | ppb |
| Titanium | 47-1 | 0.22 | 0.24 | 0.22 | 0.23 | 4.50 | ppb |

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-09 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A02S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:24:43 | DataFile Name : | 057SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.89 | 0.91 | 0.91 | 0.90 | 1.17 | ppb |
| Vanadium | 51-2 | 502.26 | 494.92 | 503.44 | 500.21 | 0.92 | ppb |
| Yttrium | 89-1 | | | | 114 | | % |
| Yttrium | 89-2 | | | | 109 | | % |
| Zinc | 66-2 | 515.32 | 512.86 | 525.00 | 517.73 | 1.24 | ppb |
| Zirconium | 90-1 | 0.02 | 0.02 | 0.03 | 0.02 | 15.85 | ppb |
| Zirconium | 91-1 | 0.04 | 0.03 | 0.04 | 0.04 | 13.75 | ppb |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-10 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A04 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:27:39 | DataFile Name : | 058SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1.38 | 1.42 | 1.51 | 1.43 | 4.77 | ppb |
| Antimony | 121-1 | 0.08 | 0.08 | 0.09 | 0.08 | 3.13 | ppb |
| Arsenic | 75-2 | 1.58 | 1.47 | 1.53 | 1.53 | 3.75 | ppb |
| Barium | 135-1 | 96.23 | 99.47 | 109.78 | 101.83 | 6.95 | ppb |
| Barium | 137-1 | 97.30 | 101.02 | 111.63 | 103.32 | 7.20 | ppb |
| Beryllium | 9-1 | -0.03 | -0.03 | -0.01 | -0.02 | | ppb |
| Bismuth | 209-1 | | | | 111 | | % |
| Bismuth | 209-2 | | | | 108 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | -0.03 | -0.02 | 0.05 | 0.00 | | ppb |
| Cadmium | 106-1 | -0.19 | -1.45 | -0.64 | -0.76 | | ppb |
| Cadmium | 111-1 | -0.01 | -0.10 | -0.04 | -0.05 | | ppb |
| Calcium | 43-1 | 78752.57 | 81702.42 | 90927.12 | 83794.04 | 7.58 | ppb |
| Calcium | 44-1 | 77867.23 | 81647.46 | 89421.62 | 82978.77 | 7.10 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.07 | -0.06 | -0.06 | -0.06 | | ppb |
| Cobalt | 59-2 | 0.12 | 0.12 | 0.12 | 0.12 | 1.02 | ppb |
| Copper | 63-2 | 1.23 | 1.21 | 1.25 | 1.23 | 1.87 | 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 | | | | 112 | | % |
| Holmium | 165-2 | | | | 110 | | % |
| Indium | 115-1 | | | | 108 | | % |
| Indium | 115-2 | | | | 108 | | % |
| Iron | 56-2 | 17.67 | 17.28 | 17.83 | 17.59 | 1.62 | ppb |
| Iron | 57-2 | 420.27 | 419.09 | 433.09 | 424.15 | 1.83 | ppb |
| Iron | 54-2 | 15.83 | 15.27 | 15.17 | 15.42 | 2.29 | ppb |
| Krypton | 83-1 | | | | | | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-10 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A04 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:27:39 | DataFile Name : | 058SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.04 | 0.04 | 0.07 | 0.05 | 38.27 | ppb |
| Lead | 207-1 | 0.03 | 0.04 | 0.06 | 0.04 | 33.45 | ppb |
| Lead | 208-1 | 0.04 | 0.04 | 0.06 | 0.05 | 29.96 | ppb |
| Lithium | 6-1 | | | | 105 | | % |
| Magnesium | 24-2 | 31331.60 | 30211.70 | 31384.46 | 30975.92 | 2.14 | ppb |
| Manganese | 55-2 | 2.82 | 2.83 | 2.92 | 2.86 | 1.99 | ppb |
| Molybdenum | 94-1 | 4.56 | 4.76 | 5.17 | 4.83 | 6.47 | ppb |
| Molybdenum | 95-1 | 5.40 | 5.85 | 6.21 | 5.82 | 7.01 | ppb |
| Molybdenum | 96-1 | 5.31 | 5.67 | 6.19 | 5.73 | 7.73 | ppb |
| Molybdenum | 97-1 | 5.58 | 5.82 | 6.38 | 5.92 | 6.91 | ppb |
| Molybdenum | 98-1 | 5.49 | 5.84 | 6.32 | 5.88 | 7.02 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.91 | 0.88 | 0.89 | 0.89 | 1.68 | ppb |
| Phosphorus | 31-2 | 6.51 | 4.38 | 6.54 | 5.81 | 21.28 | ppb |
| Potassium | 39-2 | 4107.43 | 4069.36 | 4131.14 | 4102.64 | 0.76 | ppb |
| Rhodium | 103-1 | | | | 106 | | % |
| Rhodium | 103-2 | | | | 106 | | % |
| Scandium | 45-1 | | | | 105 | | % |
| Scandium | 45-2 | | | | 107 | | % |
| Selenium | 82-1 | 0.26 | 0.23 | 0.22 | 0.24 | 8.96 | ppb |
| Selenium | 77-2 | 0.30 | 0.02 | -0.06 | 0.09 | 220.07 | ppb |
| Selenium | 78-2 | -1.25 | -0.91 | 0.00 | -0.72 | | ppb |
| Silicon | 28-1 | 598.32 | 624.86 | 688.34 | 637.17 | 7.26 | ppb |
| Silver | 107-1 | 0.01 | 0.01 | 0.01 | 0.01 | 22.84 | ppb |
| Silver | 109-1 | 0.01 | 0.01 | 0.01 | 0.01 | 7.80 | ppb |
| Sodium | 23-2 | 16110.65 | 15661.43 | 16148.14 | 15973.41 | 1.70 | ppb |
| Strontium | 86-1 | 69943.46 | 74396.12 | 81404.15 | 75247.91 | 7.68 | ppb |
| Strontium | 88-1 | 70027.84 | 74542.46 | 80612.96 | 75061.09 | 7.08 | ppb |
| Sulfur | 34-1 | 17232.31 | 18159.82 | 19895.97 | 18429.37 | 7.34 | ppb |
| Terbium | 159-1 | | | | 111 | | % |
| Terbium | 159-2 | | | | 111 | | % |
| Thallium | 203-1 | 0.03 | 0.03 | 0.03 | 0.03 | 7.39 | ppb |
| Thallium | 205-1 | 0.03 | 0.03 | 0.03 | 0.03 | 2.26 | ppb |
| Tin | 118-1 | -0.18 | -0.18 | -0.16 | -0.18 | | ppb |
| Titanium | 47-1 | 0.20 | 0.22 | 0.25 | 0.22 | 11.65 | ppb |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-10 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A04 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:27:39 | DataFile Name : | 058SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.89 | 0.94 | 1.04 | 0.96 | 8.23 | ppb |
| Vanadium | 51-2 | 0.23 | 0.24 | 0.23 | 0.23 | 0.90 | ppb |
| Yttrium | 89-1 | | | | 108 | | % |
| Yttrium | 89-2 | | | | 108 | | % |
| Zinc | 66-2 | -3.44 | -3.39 | -3.28 | -3.37 | | ppb |
| Zirconium | 90-1 | 0.03 | 0.03 | 0.03 | 0.03 | 3.17 | ppb |
| Zirconium | 91-1 | 0.02 | 0.03 | 0.03 | 0.03 | 13.85 | ppb |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-11 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A06 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:30:47 | DataFile Name : | 059SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2.76 | 2.01 | 2.23 | 2.33 | 16.49 | ppb |
| Antimony | 121-1 | 0.07 | 0.07 | 0.07 | 0.07 | 1.13 | ppb |
| Arsenic | 75-2 | 1.55 | 1.47 | 1.44 | 1.49 | 3.88 | ppb |
| Barium | 135-1 | 94.77 | 94.92 | 96.33 | 95.34 | 0.91 | ppb |
| Barium | 137-1 | 96.04 | 95.79 | 97.63 | 96.49 | 1.04 | ppb |
| Beryllium | 9-1 | -0.03 | -0.02 | -0.04 | -0.03 | | ppb |
| Bismuth | 209-1 | | | | 115 | | % |
| Bismuth | 209-2 | | | | 109 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.07 | 0.05 | -0.01 | 0.04 | 109.30 | ppb |
| Cadmium | 106-1 | -0.28 | -1.55 | -0.70 | -0.84 | | ppb |
| Cadmium | 111-1 | -0.03 | -0.12 | -0.05 | -0.07 | | ppb |
| Calcium | 43-1 | 77756.88 | 79008.05 | 78671.22 | 78478.71 | 0.82 | ppb |
| Calcium | 44-1 | 76572.80 | 78458.04 | 78270.33 | 77767.06 | 1.34 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.10 | -0.08 | -0.13 | -0.10 | | ppb |
| Cobalt | 59-2 | 0.11 | 0.10 | 0.11 | 0.11 | 3.62 | ppb |
| Copper | 63-2 | 1.45 | 1.42 | 1.40 | 1.43 | 1.84 | 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 | | | | 116 | | % |
| Holmium | 165-2 | | | | 111 | | % |
| Indium | 115-1 | | | | 113 | | % |
| Indium | 115-2 | | | | 108 | | % |
| Iron | 56-2 | 15.31 | 14.99 | 14.61 | 14.97 | 2.35 | ppb |
| Iron | 57-2 | 412.46 | 410.84 | 408.81 | 410.70 | 0.45 | ppb |
| Iron | 54-2 | 12.41 | 12.48 | 13.05 | 12.64 | 2.76 | ppb |
| Krypton | 83-1 | | | | | | cps |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-11 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A06 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:30:47 | DataFile Name : | 059SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.00 | -0.01 | 0.00 | 0.00 | | ppb |
| Lead | 207-1 | -0.01 | -0.01 | 0.00 | -0.01 | | ppb |
| Lead | 208-1 | -0.01 | -0.01 | 0.00 | 0.00 | | ppb |
| Lithium | 6-1 | | | | 109 | | % |
| Magnesium | 24-2 | 30680.89 | 30347.49 | 29534.10 | 30187.50 | 1.95 | ppb |
| Manganese | 55-2 | 1.53 | 1.48 | 1.45 | 1.49 | 2.76 | ppb |
| Molybdenum | 94-1 | 4.54 | 4.57 | 4.57 | 4.56 | 0.42 | ppb |
| Molybdenum | 95-1 | 5.37 | 5.42 | 5.53 | 5.44 | 1.51 | ppb |
| Molybdenum | 96-1 | 5.37 | 5.37 | 5.38 | 5.37 | 0.09 | ppb |
| Molybdenum | 97-1 | 5.54 | 5.58 | 5.58 | 5.57 | 0.39 | ppb |
| Molybdenum | 98-1 | 5.57 | 5.61 | 5.63 | 5.61 | 0.56 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.94 | 0.91 | 0.86 | 0.90 | 4.10 | ppb |
| Phosphorus | 31-2 | 7.58 | 7.89 | 10.70 | 8.72 | 19.72 | ppb |
| Potassium | 39-2 | 4194.19 | 4063.44 | 4022.38 | 4093.34 | 2.19 | ppb |
| Rhodium | 103-1 | | | | 110 | | % |
| Rhodium | 103-2 | | | | 108 | | % |
| Scandium | 45-1 | | | | 110 | | % |
| Scandium | 45-2 | | | | 108 | | % |
| Selenium | 82-1 | 0.34 | 0.00 | -0.12 | 0.07 | 333.07 | ppb |
| Selenium | 77-2 | 0.37 | 0.02 | 0.11 | 0.17 | 106.57 | ppb |
| Selenium | 78-2 | -0.19 | 0.00 | -0.57 | -0.25 | | ppb |
| Silicon | 28-1 | 591.29 | 604.15 | 618.18 | 604.54 | 2.23 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.01 | 0.00 | 14.39 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 23.04 | ppb |
| Sodium | 23-2 | 16323.61 | 16143.57 | 15602.69 | 16023.29 | 2.34 | ppb |
| Strontium | 86-1 | 71094.17 | 71118.83 | 71088.96 | 71100.65 | 0.02 | ppb |
| Strontium | 88-1 | 70856.18 | 70760.42 | 71410.18 | 71008.93 | 0.49 | ppb |
| Sulfur | 34-1 | 16906.43 | 17115.91 | 17241.78 | 17088.04 | 0.99 | ppb |
| Terbium | 159-1 | | | | 116 | | % |
| Terbium | 159-2 | | | | 112 | | % |
| Thallium | 203-1 | 0.02 | 0.01 | 0.02 | 0.02 | 13.31 | ppb |
| Thallium | 205-1 | 0.02 | 0.02 | 0.02 | 0.02 | 6.62 | ppb |
| Tin | 118-1 | -0.19 | -0.20 | -0.20 | -0.20 | | ppb |
| Titanium | 47-1 | 0.18 | 0.19 | 0.17 | 0.18 | 5.07 | ppb |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-11 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A06 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:30:47 | DataFile Name : | 059SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.90 | 0.88 | 0.90 | 0.89 | 1.05 | ppb |
| Vanadium | 51-2 | 0.20 | 0.19 | 0.21 | 0.20 | 4.83 | ppb |
| Yttrium | 89-1 | | | | 113 | | % |
| Yttrium | 89-2 | | | | 109 | | % |
| Zinc | 66-2 | -3.67 | -3.65 | -3.69 | -3.67 | | ppb |
| Zirconium | 90-1 | 0.03 | 0.03 | 0.03 | 0.03 | 18.09 | ppb |
| Zirconium | 91-1 | 0.02 | 0.03 | 0.03 | 0.02 | 15.89 | ppb |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-12 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A08 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:33:59 | DataFile Name : | 060SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1.45 | 1.21 | 1.23 | 1.30 | 10.21 | ppb |
| Antimony | 121-1 | 0.07 | 0.07 | 0.07 | 0.07 | 1.98 | ppb |
| Arsenic | 75-2 | 1.55 | 1.46 | 1.46 | 1.49 | 3.48 | ppb |
| Barium | 135-1 | 97.83 | 96.70 | 97.66 | 97.40 | 0.62 | ppb |
| Barium | 137-1 | 99.15 | 98.32 | 98.81 | 98.76 | 0.42 | ppb |
| Beryllium | 9-1 | -0.03 | -0.03 | -0.02 | -0.03 | | ppb |
| Bismuth | 209-1 | | | | 113 | | % |
| Bismuth | 209-2 | | | | 109 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.02 | -0.02 | -0.02 | -0.01 | | ppb |
| Cadmium | 106-1 | -0.71 | -0.83 | -0.93 | -0.82 | | ppb |
| Cadmium | 111-1 | -0.05 | -0.06 | -0.07 | -0.06 | | ppb |
| Calcium | 43-1 | 81896.94 | 80604.89 | 81492.28 | 81331.37 | 0.81 | ppb |
| Calcium | 44-1 | 80082.64 | 80052.18 | 80379.98 | 80171.60 | 0.23 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | -0.12 | -0.15 | -0.14 | -0.13 | | ppb |
| Cobalt | 59-2 | 0.11 | 0.11 | 0.11 | 0.11 | 0.59 | ppb |
| Copper | 63-2 | 1.26 | 1.23 | 1.27 | 1.25 | 1.77 | 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 | | | | 115 | | % |
| Holmium | 165-2 | | | | 110 | | % |
| Indium | 115-1 | | | | 111 | | % |
| Indium | 115-2 | | | | 108 | | % |
| Iron | 56-2 | 14.62 | 14.38 | 14.35 | 14.45 | 1.03 | ppb |
| Iron | 57-2 | 419.19 | 423.37 | 423.55 | 422.04 | 0.58 | ppb |
| Iron | 54-2 | 12.47 | 12.16 | 12.45 | 12.36 | 1.42 | ppb |
| Krypton | 83-1 | | | | | | cps |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-12 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A08 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:33:59 | DataFile Name : | 060SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | -0.01 | 0.00 | 0.01 | 0.00 | 533.34 | ppb |
| Lead | 207-1 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Lead | 208-1 | 0.00 | 0.00 | 0.00 | 0.00 | 174.98 | ppb |
| Lithium | 6-1 | | | | 108 | | % |
| Magnesium | 24-2 | 30855.14 | 30888.39 | 30263.41 | 30668.98 | 1.15 | ppb |
| Manganese | 55-2 | 2.83 | 2.81 | 2.87 | 2.84 | 0.96 | ppb |
| Molybdenum | 94-1 | 4.52 | 4.59 | 4.49 | 4.53 | 1.17 | ppb |
| Molybdenum | 95-1 | 5.42 | 5.44 | 5.40 | 5.42 | 0.41 | ppb |
| Molybdenum | 96-1 | 5.30 | 5.30 | 5.37 | 5.32 | 0.74 | ppb |
| Molybdenum | 97-1 | 5.54 | 5.55 | 5.41 | 5.50 | 1.46 | ppb |
| Molybdenum | 98-1 | 5.48 | 5.49 | 5.35 | 5.44 | 1.49 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.90 | 0.82 | 0.89 | 0.87 | 4.85 | ppb |
| Phosphorus | 31-2 | 10.63 | 11.70 | 10.63 | 10.99 | 5.61 | ppb |
| Potassium | 39-2 | 4176.10 | 4074.78 | 4118.49 | 4123.12 | 1.23 | ppb |
| Rhodium | 103-1 | | | | 109 | | % |
| Rhodium | 103-2 | | | | 107 | | % |
| Scandium | 45-1 | | | | 108 | | % |
| Scandium | 45-2 | | | | 108 | | % |
| Selenium | 82-1 | 0.18 | 0.10 | -0.26 | 0.01 | 4673.27 | ppb |
| Selenium | 77-2 | 0.11 | 0.11 | 0.20 | 0.14 | 35.75 | ppb |
| Selenium | 78-2 | -0.39 | -0.52 | -0.83 | -0.58 | | ppb |
| Silicon | 28-1 | 632.34 | 609.74 | 624.08 | 622.05 | 1.84 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 106.35 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 23.23 | ppb |
| Sodium | 23-2 | 16742.03 | 16658.25 | 16408.19 | 16602.82 | 1.05 | ppb |
| Strontium | 86-1 | 68201.42 | 68622.39 | 67686.07 | 68169.96 | 0.69 | ppb |
| Strontium | 88-1 | 67882.02 | 68473.05 | 67717.97 | 68024.35 | 0.58 | ppb |
| Sulfur | 34-1 | 18139.52 | 17564.00 | 17753.13 | 17818.89 | 1.65 | ppb |
| Terbium | 159-1 | | | | 115 | | % |
| Terbium | 159-2 | | | | 111 | | % |
| Thallium | 203-1 | 0.02 | 0.02 | 0.01 | 0.02 | 25.68 | ppb |
| Thallium | 205-1 | 0.02 | 0.01 | 0.02 | 0.02 | 13.43 | ppb |
| Tin | 118-1 | -0.18 | -0.17 | -0.16 | -0.17 | | ppb |
| Titanium | 47-1 | 0.23 | 0.25 | 0.19 | 0.22 | 12.74 | ppb |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-12 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A08 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:33:59 | DataFile Name : | 060SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.88 | 0.88 | 0.88 | 0.88 | 0.50 | ppb |
| Vanadium | 51-2 | 0.18 | 0.20 | 0.20 | 0.19 | 4.74 | ppb |
| Yttrium | 89-1 | | | | 112 | | % |
| Yttrium | 89-2 | | | | 110 | | % |
| Zinc | 66-2 | -3.83 | -3.89 | -3.94 | -3.89 | | ppb |
| Zirconium | 90-1 | 0.02 | 0.02 | 0.03 | 0.02 | 16.07 | ppb |
| Zirconium | 91-1 | 0.02 | 0.03 | 0.04 | 0.03 | 28.80 | ppb |

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On:11/25/2024 6:19:44 AM
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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-13 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A10 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:37:08 | DataFile Name : | 061SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1.76 | 1.79 | 1.69 | 1.75 | 3.03 | ppb |
| Antimony | 121-1 | 0.07 | 0.07 | 0.07 | 0.07 | 3.00 | ppb |
| Arsenic | 75-2 | 1.52 | 1.59 | 1.53 | 1.55 | 2.43 | ppb |
| Barium | 135-1 | 95.98 | 95.96 | 94.95 | 95.63 | 0.62 | ppb |
| Barium | 137-1 | 96.45 | 96.57 | 95.69 | 96.24 | 0.50 | ppb |
| Beryllium | 9-1 | -0.01 | -0.03 | -0.01 | -0.02 | | ppb |
| Bismuth | 209-1 | | | | 113 | | % |
| Bismuth | 209-2 | | | | 107 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | -0.02 | 0.03 | 0.01 | 0.01 | 390.05 | ppb |
| Cadmium | 106-1 | 0.24 | -0.38 | -1.28 | -0.47 | | ppb |
| Cadmium | 111-1 | 0.02 | -0.02 | -0.09 | -0.03 | | ppb |
| Calcium | 43-1 | 77645.28 | 77630.42 | 79599.93 | 78291.88 | 1.45 | ppb |
| Calcium | 44-1 | 77987.71 | 77211.62 | 77832.36 | 77677.23 | 0.53 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.30 | 0.30 | 0.28 | 0.29 | 4.43 | ppb |
| Cobalt | 59-2 | 0.13 | 0.13 | 0.12 | 0.12 | 4.87 | ppb |
| Copper | 63-2 | 1.39 | 1.34 | 1.34 | 1.36 | 2.05 | 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 | | | | 116 | | % |
| Holmium | 165-2 | | | | 109 | | % |
| Indium | 115-1 | | | | 112 | | % |
| Indium | 115-2 | | | | 106 | | % |
| Iron | 56-2 | 20.51 | 20.09 | 19.65 | 20.08 | 2.13 | ppb |
| Iron | 57-2 | 413.12 | 420.50 | 417.25 | 416.96 | 0.89 | ppb |
| Iron | 54-2 | 18.72 | 17.46 | 17.90 | 18.03 | 3.53 | ppb |
| Krypton | 83-1 | | | | | | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-13 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A10 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:37:08 | DataFile Name : | 061SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.02 | 0.03 | 0.02 | 0.02 | 15.34 | ppb |
| Lead | 207-1 | 0.02 | 0.02 | 0.01 | 0.02 | 26.13 | ppb |
| Lead | 208-1 | 0.02 | 0.02 | 0.02 | 0.02 | 15.87 | ppb |
| Lithium | 6-1 | | | | 109 | | % |
| Magnesium | 24-2 | 30229.23 | 29993.07 | 29687.67 | 29969.99 | 0.91 | ppb |
| Manganese | 55-2 | 3.22 | 3.14 | 3.05 | 3.14 | 2.68 | ppb |
| Molybdenum | 94-1 | 4.45 | 4.52 | 4.54 | 4.50 | 1.08 | ppb |
| Molybdenum | 95-1 | 5.26 | 5.48 | 5.33 | 5.36 | 2.05 | ppb |
| Molybdenum | 96-1 | 5.19 | 5.28 | 5.29 | 5.25 | 1.03 | ppb |
| Molybdenum | 97-1 | 5.43 | 5.54 | 5.34 | 5.44 | 1.76 | ppb |
| Molybdenum | 98-1 | 5.44 | 5.43 | 5.41 | 5.43 | 0.27 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 1.51 | 1.55 | 1.50 | 1.52 | 1.87 | ppb |
| Phosphorus | 31-2 | 9.49 | 8.00 | 7.82 | 8.44 | 10.88 | ppb |
| Potassium | 39-2 | 4067.70 | 4071.51 | 3999.87 | 4046.36 | 1.00 | ppb |
| Rhodium | 103-1 | | | | 109 | | % |
| Rhodium | 103-2 | | | | 105 | | % |
| Scandium | 45-1 | | | | 109 | | % |
| Scandium | 45-2 | | | | 107 | | % |
| Selenium | 82-1 | 0.01 | 0.16 | -0.23 | -0.02 | | ppb |
| Selenium | 77-2 | 0.21 | 0.03 | -0.06 | 0.06 | 247.84 | ppb |
| Selenium | 78-2 | -0.73 | -0.46 | -0.51 | -0.57 | | ppb |
| Silicon | 28-1 | 592.71 | 599.98 | 611.83 | 601.51 | 1.60 | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.00 | 0.00 | 14.70 | ppb |
| Silver | 109-1 | 0.00 | 0.00 | 0.00 | 0.00 | 53.73 | ppb |
| Sodium | 23-2 | 15981.16 | 15979.12 | 15752.95 | 15904.41 | 0.82 | ppb |
| Strontium | 86-1 | 67182.03 | 68624.66 | 67887.91 | 67898.20 | 1.06 | ppb |
| Strontium | 88-1 | 67607.27 | 68346.54 | 67545.07 | 67832.96 | 0.66 | ppb |
| Sulfur | 34-1 | 17417.67 | 17059.82 | 17700.69 | 17392.73 | 1.85 | ppb |
| Terbium | 159-1 | | | | 115 | | % |
| Terbium | 159-2 | | | | 109 | | % |
| Thallium | 203-1 | 0.01 | 0.02 | 0.01 | 0.01 | 30.38 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 8.11 | ppb |
| Tin | 118-1 | -0.14 | -0.13 | -0.16 | -0.14 | | ppb |
| Titanium | 47-1 | 0.19 | 0.23 | 0.20 | 0.21 | 9.36 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-13 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A10 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:37:08 | DataFile Name : | 061SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.89 | 0.87 | 0.90 | 0.89 | 1.69 | ppb |
| Vanadium | 51-2 | 0.22 | 0.22 | 0.21 | 0.22 | 3.68 | ppb |
| Yttrium | 89-1 | | | | 113 | | % |
| Yttrium | 89-2 | | | | 107 | | % |
| Zinc | 66-2 | -3.14 | -3.40 | -3.30 | -3.28 | | ppb |
| Zirconium | 90-1 | 0.03 | 0.03 | 0.03 | 0.03 | 10.68 | ppb |
| Zirconium | 91-1 | 0.03 | 0.02 | 0.02 | 0.02 | 13.33 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCV003 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV003 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:43:37 | DataFile Name : | 063CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 47423.84 | 48663.88 | 47659.86 | 47915.86 | 1.37 | ppb |
| Antimony | 121-1 | 487.43 | 503.99 | 502.14 | 497.85 | 1.82 | ppb |
| Arsenic | 75-2 | 515.01 | 513.51 | 507.18 | 511.90 | 0.81 | ppb |
| Barium | 135-1 | 2392.72 | 2481.90 | 2518.56 | 2464.39 | 2.63 | ppb |
| Barium | 137-1 | 2393.14 | 2489.63 | 2501.59 | 2461.45 | 2.42 | ppb |
| Beryllium | 9-1 | 466.93 | 488.70 | 473.61 | 476.42 | 2.34 | ppb |
| Bismuth | 209-1 | | | | 102 | | % |
| Bismuth | 209-2 | | | | 96 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 487.68 | 503.25 | 511.68 | 500.87 | 2.43 | ppb |
| Cadmium | 106-1 | 488.51 | 509.14 | 512.46 | 503.37 | 2.58 | ppb |
| Cadmium | 111-1 | 479.10 | 503.69 | 510.54 | 497.78 | 3.32 | ppb |
| Calcium | 43-1 | 237686.92 | 247570.50 | 247891.01 | 244382.81 | 2.37 | ppb |
| Calcium | 44-1 | 236673.22 | 247187.88 | 244659.46 | 242840.19 | 2.26 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 503.71 | 496.29 | 493.65 | 497.89 | 1.05 | ppb |
| Cobalt | 59-2 | 510.97 | 512.93 | 511.08 | 511.66 | 0.21 | ppb |
| Copper | 63-2 | 5037.44 | 5008.95 | 5007.86 | 5018.08 | 0.33 | 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 | | | | 111 | | % |
| Holmium | 165-2 | | | | 105 | | % |
| Indium | 115-1 | | | | 102 | | % |
| Indium | 115-2 | | | | 100 | | % |
| Iron | 56-2 | 124692.66 | 123845.15 | 124748.79 | 124428.87 | 0.41 | ppb |
| Iron | 57-2 | 124420.27 | 124389.68 | 126060.08 | 124956.67 | 0.76 | ppb |
| Iron | 54-2 | 125178.30 | 123750.20 | 126648.76 | 125192.42 | 1.16 | ppb |
| Krypton | 83-1 | | | | | | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCV003 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV003 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:43:37 | DataFile Name : | 063CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2454.53 | 2570.16 | 2533.87 | 2519.52 | 2.35 | ppb |
| Lead | 207-1 | 2425.39 | 2555.70 | 2507.30 | 2496.13 | 2.64 | ppb |
| Lead | 208-1 | 2436.50 | 2552.48 | 2537.52 | 2508.83 | 2.51 | ppb |
| Lithium | 6-1 | | | | 102 | | % |
| Magnesium | 24-2 | 249026.88 | 251408.02 | 246726.68 | 249053.86 | 0.94 | ppb |
| Manganese | 55-2 | 4906.79 | 4909.58 | 4913.76 | 4910.04 | 0.07 | ppb |
| Molybdenum | 94-1 | 4844.68 | 4987.82 | 5068.18 | 4966.89 | 2.28 | ppb |
| Molybdenum | 95-1 | 4839.77 | 4980.89 | 5037.96 | 4952.87 | 2.06 | ppb |
| Molybdenum | 96-1 | 4815.42 | 4956.89 | 5019.25 | 4930.52 | 2.12 | ppb |
| Molybdenum | 97-1 | 4822.14 | 4923.62 | 5072.78 | 4939.51 | 2.55 | ppb |
| Molybdenum | 98-1 | 4791.90 | 4938.65 | 5039.52 | 4923.36 | 2.53 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 514.81 | 510.17 | 504.22 | 509.74 | 1.04 | ppb |
| Phosphorus | 31-2 | 9817.02 | 9839.01 | 9842.64 | 9832.89 | 0.14 | ppb |
| Potassium | 39-2 | 121261.12 | 121389.62 | 122094.64 | 121581.79 | 0.37 | ppb |
| Rhodium | 103-1 | | | | 98 | | % |
| Rhodium | 103-2 | | | | 98 | | % |
| Scandium | 45-1 | | | | 103 | | % |
| Scandium | 45-2 | | | | 104 | | % |
| Selenium | 82-1 | 482.90 | 500.25 | 500.26 | 494.47 | 2.03 | ppb |
| Selenium | 77-2 | 484.61 | 504.64 | 491.91 | 493.72 | 2.05 | ppb |
| Selenium | 78-2 | 495.79 | 492.46 | 482.55 | 490.27 | 1.41 | ppb |
| Silicon | 28-1 | 425.61 | 431.60 | 437.94 | 431.72 | 1.43 | ppb |
| Silver | 107-1 | 489.79 | 499.27 | 508.32 | 499.13 | 1.86 | ppb |
| Silver | 109-1 | 484.32 | 498.31 | 505.42 | 496.02 | 2.16 | ppb |
| Sodium | 23-2 | 253521.16 | 250842.85 | 251662.45 | 252008.82 | 0.54 | ppb |
| Strontium | 86-1 | 12312.16 | 12566.19 | 12572.86 | 12483.74 | 1.19 | ppb |
| Strontium | 88-1 | 12127.23 | 12556.43 | 12618.39 | 12434.01 | 2.15 | ppb |
| Sulfur | 34-1 | 9044.40 | 9263.61 | 9265.35 | 9191.12 | 1.38 | ppb |
| Terbium | 159-1 | | | | 110 | | % |
| Terbium | 159-2 | | | | 106 | | % |
| Thallium | 203-1 | 488.96 | 511.65 | 502.59 | 501.07 | 2.28 | ppb |
| Thallium | 205-1 | 495.01 | 515.92 | 512.91 | 507.95 | 2.23 | ppb |
| Tin | 118-1 | 478.43 | 497.16 | 497.57 | 491.05 | 2.23 | ppb |
| Titanium | 47-1 | 4740.85 | 4994.37 | 4979.89 | 4905.04 | 2.90 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCV003 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV003 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:43:37 | DataFile Name : | 063CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 484.61 | 512.83 | 508.47 | 501.97 | 3.03 | ppb |
| Vanadium | 51-2 | 510.57 | 509.92 | 506.47 | 508.99 | 0.43 | ppb |
| Yttrium | 89-1 | | | | 105 | | % |
| Yttrium | 89-2 | | | | 105 | | % |
| Zinc | 66-2 | 4980.46 | 4992.79 | 4970.94 | 4981.39 | 0.22 | ppb |
| Zirconium | 90-1 | 482.20 | 503.63 | 507.05 | 497.63 | 2.71 | ppb |
| Zirconium | 91-1 | 484.27 | 504.94 | 509.04 | 499.42 | 2.66 | ppb |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCB003 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB003 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:46:18 | DataFile Name : | 064CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1.64 | 1.02 | 1.08 | 1.25 | 27.16 | ppb |
| Antimony | 121-1 | 0.25 | 0.27 | 0.30 | 0.27 | 8.80 | ppb |
| Arsenic | 75-2 | -0.01 | 0.01 | 0.01 | 0.01 | 149.10 | ppb |
| Barium | 135-1 | 0.58 | 0.36 | 0.20 | 0.38 | 49.08 | ppb |
| Barium | 137-1 | 0.60 | 0.38 | 0.21 | 0.40 | 50.18 | ppb |
| Beryllium | 9-1 | 0.08 | 0.07 | 0.03 | 0.06 | 40.05 | ppb |
| Bismuth | 209-1 | | | | 108 | | % |
| Bismuth | 209-2 | | | | 107 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.13 | 0.05 | 0.04 | 0.07 | 64.34 | ppb |
| Cadmium | 106-1 | -1.04 | -1.42 | -1.45 | -1.30 | | ppb |
| Cadmium | 111-1 | 0.04 | -0.02 | -0.06 | -0.02 | | ppb |
| Calcium | 43-1 | 56.51 | 38.14 | 25.24 | 39.96 | 39.32 | ppb |
| Calcium | 44-1 | 64.00 | 38.72 | 25.75 | 42.82 | 45.42 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.01 | 0.00 | -0.01 | 0.00 | 2420.32 | ppb |
| Cobalt | 59-2 | 0.00 | 0.00 | 0.00 | 0.00 | | ppb |
| Copper | 63-2 | 0.18 | 0.14 | 0.10 | 0.14 | 28.59 | 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 | | | | 109 | | % |
| Holmium | 165-2 | | | | 108 | | % |
| Indium | 115-1 | | | | 107 | | % |
| Indium | 115-2 | | | | 107 | | % |
| Iron | 56-2 | 3.47 | 2.54 | 1.92 | 2.64 | 29.53 | ppb |
| Iron | 57-2 | 3.02 | 2.31 | 1.80 | 2.38 | 25.70 | ppb |
| Iron | 54-2 | 2.57 | 2.42 | 1.57 | 2.18 | 24.66 | ppb |
| Krypton | 83-1 | | | | | | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCB003 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB003 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:46:18 | DataFile Name : | 064CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.59 | 0.37 | 0.21 | 0.39 | 48.95 | ppb |
| Lead | 207-1 | 0.58 | 0.36 | 0.21 | 0.38 | 49.51 | ppb |
| Lead | 208-1 | 0.58 | 0.38 | 0.21 | 0.39 | 47.67 | ppb |
| Lithium | 6-1 | | | | 101 | | % |
| Magnesium | 24-2 | 5.49 | 3.78 | 3.21 | 4.16 | 28.53 | ppb |
| Manganese | 55-2 | 0.09 | 0.05 | 0.09 | 0.08 | 30.30 | ppb |
| Molybdenum | 94-1 | 1.42 | 1.00 | 0.76 | 1.06 | 31.55 | ppb |
| Molybdenum | 95-1 | 1.19 | 0.84 | 0.58 | 0.87 | 35.26 | ppb |
| Molybdenum | 96-1 | 1.28 | 0.88 | 0.55 | 0.90 | 40.53 | ppb |
| Molybdenum | 97-1 | 1.23 | 0.84 | 0.55 | 0.87 | 38.93 | ppb |
| Molybdenum | 98-1 | 1.24 | 0.85 | 0.55 | 0.88 | 39.46 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.01 | -0.02 | -0.02 | -0.01 | | ppb |
| Phosphorus | 31-2 | -21.53 | -20.48 | -20.90 | -20.97 | | ppb |
| Potassium | 39-2 | 6.02 | 3.77 | 5.05 | 4.95 | 22.83 | ppb |
| Rhodium | 103-1 | | | | 107 | | % |
| Rhodium | 103-2 | | | | 108 | | % |
| Scandium | 45-1 | | | | 103 | | % |
| Scandium | 45-2 | | | | 108 | | % |
| Selenium | 82-1 | 0.46 | -0.14 | -0.31 | 0.00 | 9976.98 | ppb |
| Selenium | 77-2 | -0.06 | 0.02 | 0.02 | -0.01 | | ppb |
| Selenium | 78-2 | -0.42 | -0.65 | -0.09 | -0.38 | | ppb |
| Silicon | 28-1 | 0.19 | -0.22 | -0.20 | -0.08 | | ppb |
| Silver | 107-1 | 0.14 | 0.08 | 0.04 | 0.08 | 56.03 | ppb |
| Silver | 109-1 | 0.14 | 0.08 | 0.05 | 0.09 | 53.32 | ppb |
| Sodium | 23-2 | 4.75 | 1.90 | 2.87 | 3.17 | 45.70 | ppb |
| Strontium | 86-1 | 3.48 | 1.62 | 1.25 | 2.12 | 56.42 | ppb |
| Strontium | 88-1 | 2.92 | 1.86 | 1.10 | 1.96 | 46.63 | ppb |
| Sulfur | 34-1 | -108.73 | -198.15 | -148.57 | -151.82 | | ppb |
| Terbium | 159-1 | | | | 108 | | % |
| Terbium | 159-2 | | | | 108 | | % |
| Thallium | 203-1 | 0.12 | 0.07 | 0.04 | 0.08 | 54.77 | ppb |
| Thallium | 205-1 | 0.12 | 0.07 | 0.04 | 0.08 | 50.83 | ppb |
| Tin | 118-1 | 0.13 | 0.11 | 0.07 | 0.10 | 28.26 | ppb |
| Titanium | 47-1 | 1.19 | 0.88 | 0.47 | 0.84 | 42.95 | ppb |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCB003 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB003 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:46:18 | DataFile Name : | 064CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.11 | 0.07 | 0.04 | 0.07 | 42.48 | ppb |
| Vanadium | 51-2 | 0.01 | 0.01 | 0.01 | 0.01 | 25.01 | ppb |
| Yttrium | 89-1 | | | | 106 | | % |
| Yttrium | 89-2 | | | | 108 | | % |
| Zinc | 66-2 | 0.21 | 0.05 | 0.21 | 0.16 | 58.97 | ppb |
| Zirconium | 90-1 | 0.20 | 0.18 | 0.17 | 0.18 | 10.80 | ppb |
| Zirconium | 91-1 | 0.21 | 0.18 | 0.16 | 0.18 | 14.13 | ppb |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-19 | Instrumnet Name : | P7 |
| Client Sample ID : | E29S9 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:49:32 | DataFile Name : | 065SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 0.23 | 0.00 | 0.27 | 0.17 | 85.18 | ppb |
| Antimony | 121-1 | 0.02 | 0.03 | 0.05 | 0.03 | 38.19 | ppb |
| Arsenic | 75-2 | -0.01 | -0.01 | -0.01 | -0.01 | | ppb |
| Barium | 135-1 | -0.03 | -0.03 | -0.01 | -0.02 | | ppb |
| Barium | 137-1 | -0.02 | -0.03 | -0.01 | -0.02 | | ppb |
| Beryllium | 9-1 | -0.02 | -0.02 | -0.01 | -0.02 | | ppb |
| Bismuth | 209-1 | | | | 119 | | % |
| Bismuth | 209-2 | | | | 114 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | -0.03 | -0.05 | -0.03 | -0.03 | | ppb |
| Cadmium | 106-1 | -1.05 | -1.57 | -1.16 | -1.26 | | ppb |
| Cadmium | 111-1 | -0.08 | -0.12 | -0.08 | -0.09 | | ppb |
| Calcium | 43-1 | -70.46 | -72.93 | -71.00 | -71.46 | | ppb |
| Calcium | 44-1 | -71.97 | -72.01 | -71.94 | -71.97 | | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.44 | 0.42 | 0.48 | 0.44 | 7.55 | ppb |
| Cobalt | 59-2 | 0.00 | 0.00 | -0.01 | 0.00 | | ppb |
| Copper | 63-2 | 0.03 | 0.01 | 0.02 | 0.02 | 41.82 | 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 | | | | 119 | | % |
| Holmium | 165-2 | | | | 113 | | % |
| Indium | 115-1 | | | | 118 | | % |
| Indium | 115-2 | | | | 114 | | % |
| Iron | 56-2 | 2.49 | 1.99 | 2.85 | 2.45 | 17.63 | ppb |
| Iron | 57-2 | 0.93 | 3.80 | 1.85 | 2.19 | 66.69 | ppb |
| Iron | 54-2 | -0.13 | 0.20 | 0.06 | 0.04 | 393.76 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-19 | Instrumnet Name : | P7 |
| Client Sample ID : | E29S9 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:49:32 | DataFile Name : | 065SMPL.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | -0.03 | -0.04 | -0.04 | -0.04 | | ppb |
| Lead | 207-1 | -0.03 | -0.03 | -0.03 | -0.03 | | ppb |
| Lead | 208-1 | -0.04 | -0.04 | -0.04 | -0.04 | | ppb |
| Lithium | 6-1 | | | | 112 | | % |
| Magnesium | 24-2 | -2.35 | -2.08 | -2.12 | -2.18 | | ppb |
| Manganese | 55-2 | -1.28 | -1.29 | -1.32 | -1.30 | | ppb |
| Molybdenum | 94-1 | 0.05 | 0.01 | 0.14 | 0.07 | 95.34 | ppb |
| Molybdenum | 95-1 | 0.04 | 0.04 | 0.12 | 0.07 | 72.32 | ppb |
| Molybdenum | 96-1 | 0.03 | 0.03 | 0.08 | 0.05 | 51.51 | ppb |
| Molybdenum | 97-1 | 0.04 | 0.03 | 0.19 | 0.09 | 97.90 | ppb |
| Molybdenum | 98-1 | 0.04 | 0.04 | 0.09 | 0.06 | 54.06 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 0.50 | 0.59 | 0.62 | 0.57 | 11.16 | ppb |
| Phosphorus | 31-2 | -23.08 | -23.33 | -23.41 | -23.28 | | ppb |
| Potassium | 39-2 | 0.17 | 0.34 | 0.15 | 0.22 | 46.41 | ppb |
| Rhodium | 103-1 | | | | 118 | | % |
| Rhodium | 103-2 | | | | 115 | | % |
| Scandium | 45-1 | | | | 114 | | % |
| Scandium | 45-2 | | | | 112 | | % |
| Selenium | 82-1 | 0.20 | 0.07 | 0.25 | 0.17 | 55.25 | ppb |
| Selenium | 77-2 | 0.02 | 0.02 | -0.06 | -0.01 | | ppb |
| Selenium | 78-2 | -1.04 | -0.73 | -0.01 | -0.59 | | ppb |
| Silicon | 28-1 | -2.00 | -1.70 | -1.73 | -1.81 | | ppb |
| Silver | 107-1 | 0.00 | 0.00 | 0.01 | 0.00 | 42.66 | ppb |
| Silver | 109-1 | 0.01 | 0.00 | 0.01 | 0.01 | 23.88 | ppb |
| Sodium | 23-2 | -14.71 | -14.32 | -14.86 | -14.63 | | ppb |
| Strontium | 86-1 | -0.17 | -0.76 | 8.98 | 2.69 | 203.39 | ppb |
| Strontium | 88-1 | -0.19 | -0.22 | 13.23 | 4.27 | 181.62 | ppb |
| Sulfur | 34-1 | -457.72 | -361.31 | -426.88 | -415.30 | | ppb |
| Terbium | 159-1 | | | | 120 | | % |
| Terbium | 159-2 | | | | 114 | | % |
| Thallium | 203-1 | 0.01 | 0.01 | 0.01 | 0.01 | 29.64 | ppb |
| Thallium | 205-1 | 0.01 | 0.01 | 0.01 | 0.01 | 12.66 | ppb |
| Tin | 118-1 | -0.11 | -0.11 | -0.09 | -0.10 | | ppb |
| Titanium | 47-1 | 0.00 | -0.03 | 0.00 | -0.01 | | ppb |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-19 | Instrumnet Name : | P7 |
| Client Sample ID : | E29S9 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:49:32 | DataFile Name : | 065SMPL.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 | 0.01 | 0.01 | 0.01 | 0.01 | 26.24 | ppb |
| Yttrium | 89-1 | | | | 117 | | % |
| Yttrium | 89-2 | | | | 113 | | % |
| Zinc | 66-2 | -5.68 | -5.78 | -5.75 | -5.74 | | ppb |
| Zirconium | 90-1 | -0.01 | -0.01 | 0.01 | 0.00 | | ppb |
| Zirconium | 91-1 | -0.01 | -0.01 | 0.00 | -0.01 | | ppb |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCV004 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV004 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:52:48 | DataFile Name : | 066CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 47086.77 | 47008.58 | 46763.23 | 46952.86 | 0.36 | ppb |
| Antimony | 121-1 | 488.81 | 503.12 | 510.26 | 500.73 | 2.18 | ppb |
| Arsenic | 75-2 | 515.71 | 511.62 | 514.81 | 514.04 | 0.42 | ppb |
| Barium | 135-1 | 2419.85 | 2478.47 | 2494.05 | 2464.13 | 1.59 | ppb |
| Barium | 137-1 | 2422.88 | 2494.07 | 2523.95 | 2480.30 | 2.09 | ppb |
| Beryllium | 9-1 | 462.19 | 480.08 | 482.11 | 474.80 | 2.31 | ppb |
| Bismuth | 209-1 | | | | 103 | | % |
| Bismuth | 209-2 | | | | 97 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 497.29 | 510.00 | 517.46 | 508.25 | 2.01 | ppb |
| Cadmium | 106-1 | 496.72 | 515.63 | 517.82 | 510.06 | 2.27 | ppb |
| Cadmium | 111-1 | 496.03 | 509.00 | 517.05 | 507.36 | 2.09 | ppb |
| Calcium | 43-1 | 232781.59 | 237404.67 | 241381.72 | 237189.33 | 1.81 | ppb |
| Calcium | 44-1 | 233759.21 | 239822.60 | 242623.01 | 238734.94 | 1.90 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 500.48 | 497.86 | 497.66 | 498.67 | 0.31 | ppb |
| Cobalt | 59-2 | 509.25 | 509.32 | 504.48 | 507.69 | 0.55 | ppb |
| Copper | 63-2 | 5023.81 | 4997.38 | 4996.67 | 5005.95 | 0.31 | 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 | | | | 112 | | % |
| Holmium | 165-2 | | | | 108 | | % |
| Indium | 115-1 | | | | 105 | | % |
| Indium | 115-2 | | | | 101 | | % |
| Iron | 56-2 | 124950.41 | 123895.04 | 123384.50 | 124076.65 | 0.64 | ppb |
| Iron | 57-2 | 125024.50 | 124997.09 | 124363.81 | 124795.13 | 0.30 | ppb |
| Iron | 54-2 | 125179.02 | 125405.56 | 124469.66 | 125018.08 | 0.39 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCV004 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV004 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:52:48 | DataFile Name : | 066CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2472.60 | 2507.62 | 2542.36 | 2507.53 | 1.39 | ppb |
| Lead | 207-1 | 2439.52 | 2489.26 | 2520.77 | 2483.18 | 1.65 | ppb |
| Lead | 208-1 | 2449.46 | 2492.18 | 2519.60 | 2487.08 | 1.42 | ppb |
| Lithium | 6-1 | | | | 103 | | % |
| Magnesium | 24-2 | 250402.69 | 247290.70 | 247673.96 | 248455.79 | 0.68 | ppb |
| Manganese | 55-2 | 4923.30 | 4951.20 | 4885.72 | 4920.07 | 0.67 | ppb |
| Molybdenum | 94-1 | 4771.43 | 4979.11 | 5011.25 | 4920.59 | 2.65 | ppb |
| Molybdenum | 95-1 | 4840.67 | 4966.39 | 4965.55 | 4924.20 | 1.47 | ppb |
| Molybdenum | 96-1 | 4818.82 | 4970.76 | 4936.37 | 4908.65 | 1.62 | ppb |
| Molybdenum | 97-1 | 4806.78 | 4944.81 | 4956.95 | 4902.85 | 1.70 | ppb |
| Molybdenum | 98-1 | 4786.16 | 4939.63 | 4972.75 | 4899.51 | 2.03 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | 504.96 | 505.61 | 496.60 | 502.39 | 1.00 | ppb |
| Phosphorus | 31-2 | 9918.34 | 9839.22 | 9765.06 | 9840.87 | 0.78 | ppb |
| Potassium | 39-2 | 121965.46 | 121461.10 | 121100.66 | 121509.07 | 0.36 | ppb |
| Rhodium | 103-1 | | | | 101 | | % |
| Rhodium | 103-2 | | | | 98 | | % |
| Scandium | 45-1 | | | | 108 | | % |
| Scandium | 45-2 | | | | 106 | | % |
| Selenium | 82-1 | 480.52 | 493.12 | 493.50 | 489.05 | 1.51 | ppb |
| Selenium | 77-2 | 486.59 | 495.08 | 508.34 | 496.67 | 2.21 | ppb |
| Selenium | 78-2 | 495.97 | 494.43 | 496.15 | 495.52 | 0.19 | ppb |
| Silicon | 28-1 | 416.88 | 428.95 | 429.61 | 425.15 | 1.69 | ppb |
| Silver | 107-1 | 494.60 | 506.81 | 512.02 | 504.48 | 1.77 | ppb |
| Silver | 109-1 | 498.75 | 506.20 | 512.05 | 505.66 | 1.32 | ppb |
| Sodium | 23-2 | 251356.17 | 253320.36 | 251955.31 | 252210.61 | 0.40 | ppb |
| Strontium | 86-1 | 12219.48 | 12428.85 | 12477.73 | 12375.35 | 1.11 | ppb |
| Strontium | 88-1 | 12097.45 | 12312.91 | 12496.95 | 12302.44 | 1.63 | ppb |
| Sulfur | 34-1 | 8645.63 | 8891.84 | 8966.71 | 8834.73 | 1.90 | ppb |
| Terbium | 159-1 | | | | 111 | | % |
| Terbium | 159-2 | | | | 107 | | % |
| Thallium | 203-1 | 499.41 | 502.14 | 514.14 | 505.23 | 1.55 | ppb |
| Thallium | 205-1 | 501.62 | 500.53 | 513.02 | 505.05 | 1.37 | ppb |
| Tin | 118-1 | 482.03 | 491.23 | 503.75 | 492.34 | 2.21 | ppb |
| Titanium | 47-1 | 4756.22 | 4886.52 | 4921.28 | 4854.67 | 1.79 | ppb |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCV004 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV004 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:52:48 | DataFile Name : | 066CCV.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 485.91 | 501.66 | 512.50 | 500.02 | 2.67 | ppb |
| Vanadium | 51-2 | 505.05 | 502.24 | 508.92 | 505.40 | 0.66 | ppb |
| Yttrium | 89-1 | | | | 110 | | % |
| Yttrium | 89-2 | | | | 106 | | % |
| Zinc | 66-2 | 5022.69 | 4960.98 | 4920.64 | 4968.10 | 1.03 | ppb |
| Zirconium | 90-1 | 481.62 | 498.08 | 501.11 | 493.60 | 2.12 | ppb |
| Zirconium | 91-1 | 483.01 | 497.85 | 508.38 | 496.41 | 2.57 | ppb |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCB004 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB004 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:55:27 | DataFile Name : | 067CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1.17 | 0.87 | 0.40 | 0.81 | 47.26 | ppb |
| Antimony | 121-1 | 0.28 | 0.27 | 0.33 | 0.29 | 10.72 | ppb |
| Arsenic | 75-2 | 0.00 | 0.03 | 0.00 | 0.01 | 134.34 | ppb |
| Barium | 135-1 | 0.67 | 0.38 | 0.15 | 0.40 | 65.70 | ppb |
| Barium | 137-1 | 0.74 | 0.37 | 0.17 | 0.43 | 66.99 | ppb |
| Beryllium | 9-1 | 0.16 | 0.07 | 0.08 | 0.11 | 48.10 | ppb |
| Bismuth | 209-1 | | | | 109 | | % |
| Bismuth | 209-2 | | | | 109 | | % |
| Bromine | 81-1 | | | | | | cps |
| Bromine | 81-2 | | | | | | cps |
| Cadmium | 108-1 | 0.12 | 0.04 | 0.00 | 0.05 | 107.33 | ppb |
| Cadmium | 106-1 | -0.24 | -1.07 | -0.81 | -0.71 | | ppb |
| Cadmium | 111-1 | 0.14 | 0.03 | -0.01 | 0.05 | 147.86 | ppb |
| Calcium | 43-1 | 77.86 | 44.29 | 20.62 | 47.59 | 60.44 | ppb |
| Calcium | 44-1 | 76.61 | 45.67 | 20.37 | 47.55 | 59.24 | ppb |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 0.04 | 0.06 | 0.02 | 0.04 | 47.59 | ppb |
| Cobalt | 59-2 | 0.00 | 0.00 | -0.01 | 0.00 | | ppb |
| Copper | 63-2 | 0.16 | 0.12 | 0.09 | 0.12 | 26.28 | 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 | | | | 109 | | % |
| Holmium | 165-2 | | | | 108 | | % |
| Indium | 115-1 | | | | 108 | | % |
| Indium | 115-2 | | | | 107 | | % |
| Iron | 56-2 | 2.59 | 1.84 | 1.22 | 1.88 | 36.43 | ppb |
| Iron | 57-2 | 1.19 | 1.27 | 0.63 | 1.03 | 33.69 | ppb |
| Iron | 54-2 | 2.14 | 1.10 | 0.71 | 1.32 | 55.99 | ppb |
| Krypton | 83-1 | | | | | | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCB004 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB004 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:55:27 | DataFile Name : | 067CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 0.74 | 0.40 | 0.20 | 0.45 | 60.26 | ppb |
| Lead | 207-1 | 0.73 | 0.38 | 0.20 | 0.44 | 61.94 | ppb |
| Lead | 208-1 | 0.73 | 0.39 | 0.20 | 0.44 | 61.41 | ppb |
| Lithium | 6-1 | | | | 105 | | % |
| Magnesium | 24-2 | 3.53 | 2.03 | 1.79 | 2.45 | 38.73 | ppb |
| Manganese | 55-2 | 0.17 | 0.11 | 0.06 | 0.11 | 49.47 | ppb |
| Molybdenum | 94-1 | 1.68 | 1.06 | 0.75 | 1.16 | 40.96 | ppb |
| Molybdenum | 95-1 | 1.52 | 0.87 | 0.49 | 0.96 | 54.31 | ppb |
| Molybdenum | 96-1 | 1.54 | 0.91 | 0.52 | 0.99 | 51.87 | ppb |
| Molybdenum | 97-1 | 1.57 | 0.93 | 0.51 | 1.00 | 53.31 | ppb |
| Molybdenum | 98-1 | 1.53 | 0.88 | 0.50 | 0.97 | 53.79 | ppb |
| Neodymium | 150-1 | | | | | | cps |
| Neodymium | 150-2 | | | | | | cps |
| Nickel | 60-2 | -0.01 | -0.02 | -0.01 | -0.01 | | ppb |
| Phosphorus | 31-2 | -20.91 | -20.40 | -17.54 | -19.62 | | ppb |
| Potassium | 39-2 | 7.25 | 8.01 | 7.97 | 7.74 | 5.54 | ppb |
| Rhodium | 103-1 | | | | 108 | | % |
| Rhodium | 103-2 | | | | 109 | | % |
| Scandium | 45-1 | | | | 104 | | % |
| Scandium | 45-2 | | | | 107 | | % |
| Selenium | 82-1 | 0.53 | 0.08 | 0.13 | 0.25 | 99.80 | ppb |
| Selenium | 77-2 | 0.11 | 0.11 | 0.02 | 0.08 | 61.89 | ppb |
| Selenium | 78-2 | -0.95 | -0.55 | -0.50 | -0.67 | | ppb |
| Silicon | 28-1 | -0.12 | -0.24 | -0.47 | -0.27 | | ppb |
| Silver | 107-1 | 0.16 | 0.09 | 0.04 | 0.10 | 64.17 | ppb |
| Silver | 109-1 | 0.17 | 0.09 | 0.04 | 0.10 | 66.77 | ppb |
| Sodium | 23-2 | 4.25 | 4.34 | 2.75 | 3.78 | 23.72 | ppb |
| Strontium | 86-1 | 3.56 | 2.02 | 0.78 | 2.12 | 65.87 | ppb |
| Strontium | 88-1 | 3.64 | 1.92 | 0.89 | 2.15 | 64.57 | ppb |
| Sulfur | 34-1 | -190.18 | -170.42 | -195.06 | -185.22 | | ppb |
| Terbium | 159-1 | | | | 109 | | % |
| Terbium | 159-2 | | | | 109 | | % |
| Thallium | 203-1 | 0.15 | 0.08 | 0.04 | 0.09 | 61.83 | ppb |
| Thallium | 205-1 | 0.15 | 0.08 | 0.04 | 0.09 | 63.74 | ppb |
| Tin | 118-1 | 0.19 | 0.11 | 0.04 | 0.11 | 63.38 | ppb |
| Titanium | 47-1 | 1.43 | 0.83 | 0.36 | 0.87 | 61.69 | ppb |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCB004 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB004 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:55:27 | DataFile Name : | 067CCBE.d |

| Parameter | Mass | ConRep1 | ConRep2 | ConRep3 | Avg. Conc. | ConcRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 0.13 | 0.08 | 0.04 | 0.08 | 59.38 | ppb |
| Vanadium | 51-2 | 0.01 | 0.01 | 0.00 | 0.01 | 56.03 | ppb |
| Yttrium | 89-1 | | | | 107 | | % |
| Yttrium | 89-2 | | | | 108 | | % |
| Zinc | 66-2 | 0.06 | 0.42 | 0.19 | 0.22 | 80.50 | ppb |
| Zirconium | 90-1 | 0.24 | 0.19 | 0.18 | 0.21 | 15.70 | ppb |
| Zirconium | 91-1 | 0.24 | 0.18 | 0.17 | 0.20 | 17.32 | ppb |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S00 | Instrumnet Name : | P7 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:25:55 | DataFile Name : | 004CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 527 | 413 | 520 | 487 | 13.07 | cps |
| Antimony | 121-1 | 77 | 87 | 90 | 84 | 8.22 | cps |
| Arsenic | 75-2 | 30 | 23 | 20 | 24 | 20.83 | cps |
| Barium | 135-1 | 387 | 350 | 360 | 366 | 5.19 | cps |
| Barium | 137-1 | 697 | 670 | 603 | 657 | 7.32 | cps |
| Beryllium | 9-1 | 139 | 117 | 111 | 122 | 12.03 | cps |
| Bismuth | 209-1 | 17405637 | 17441704 | 17505951 | 17451098 | 0.29 | cps |
| Bismuth | 209-2 | 14229518 | 14254305 | 14270060 | 14251294 | 0.14 | cps |
| Bromine | 81-1 | 15448 | 16102 | 15545 | 15698 | 2.25 | cps |
| Bromine | 81-2 | 127 | 150 | 167 | 148 | 13.60 | cps |
| Cadmium | 108-1 | 37 | 33 | 37 | 36 | 5.42 | cps |
| Cadmium | 106-1 | 9593 | 9707 | 9537 | 9612 | 0.90 | cps |
| Cadmium | 111-1 | 6753 | 6815 | 6730 | 6766 | 0.65 | cps |
| Calcium | 43-1 | 6121 | 6175 | 6161 | 6152 | 0.45 | cps |
| Calcium | 44-1 | 110703 | 111912 | 112664 | 111760 | 0.89 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 6291 | 6045 | 5975 | 6104 | 2.73 | cps |
| Cobalt | 59-2 | 357 | 370 | 410 | 379 | 7.33 | cps |
| Copper | 63-2 | 2400 | 2564 | 2197 | 2387 | 7.70 | cps |
| Dysprosium | 156-1 | 40 | 23 | 30 | 31 | 26.97 | cps |
| Dysprosium | 156-2 | 10 | 23 | 20 | 18 | 39.03 | cps |
| Erbium | 164-1 | 97 | 70 | 133 | 100 | 31.80 | cps |
| Erbium | 164-2 | 70 | 97 | 87 | 84 | 15.95 | cps |
| Gadolinium | 160-1 | 137 | 153 | 140 | 143 | 6.15 | cps |
| Gadolinium | 160-2 | 1327 | 1437 | 1343 | 1369 | 4.33 | cps |
| Holmium | 165-1 | 28827030 | 28750625 | 29017775 | 28865143 | 0.48 | cps |
| Holmium | 165-2 | 20486434 | 20565145 | 20567585 | 20539721 | 0.22 | cps |
| Indium | 115-1 | 24884163 | 24737309 | 25026576 | 24882682 | 0.58 | cps |
| Indium | 115-2 | 8950165 | 8962491 | 8990601 | 8967752 | 0.23 | cps |
| Iron | 56-2 | 41868 | 41751 | 41795 | 41805 | 0.14 | cps |
| Iron | 57-2 | 1870 | 2030 | 1950 | 1950 | 4.10 | cps |
| Iron | 54-2 | 5068 | 5444 | 5244 | 5252 | 3.59 | cps |
| Krypton | 83-1 | 240 | 243 | 290 | 258 | 10.85 | cps |

Reviewed By:Mohan
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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S00 | Instrumnet Name : | P7 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:25:55 | DataFile Name : | 004CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2027 | 2070 | 2390 | 2162 | 9.18 | cps |
| Lead | 207-1 | 1870 | 1880 | 1753 | 1835 | 3.84 | cps |
| Lead | 208-1 | 8308 | 8314 | 8805 | 8476 | 3.36 | cps |
| Lithium | 6-1 | 2981035 | 3019833 | 3052581 | 3017816 | 1.19 | cps |
| Magnesium | 24-2 | 4327 | 4224 | 4224 | 4258 | 1.40 | cps |
| Manganese | 55-2 | 13256 | 12649 | 12849 | 12918 | 2.40 | cps |
| Molybdenum | 94-1 | 650 | 713 | 777 | 713 | 8.88 | cps |
| Molybdenum | 95-1 | 253 | 307 | 273 | 278 | 9.70 | cps |
| Molybdenum | 96-1 | 500 | 387 | 333 | 407 | 20.93 | cps |
| Molybdenum | 97-1 | 163 | 157 | 203 | 174 | 14.47 | cps |
| Molybdenum | 98-1 | 430 | 350 | 330 | 370 | 14.30 | cps |
| Neodymium | 150-1 | 17 | 13 | 17 | 16 | 12.40 | cps |
| Neodymium | 150-2 | 3 | 3 | 13 | 7 | 86.65 | cps |
| Nickel | 60-2 | 710 | 713 | 847 | 757 | 10.30 | cps |
| Phosphorus | 31-2 | 457 | 477 | 533 | 489 | 8.13 | cps |
| Potassium | 39-2 | 70499 | 70944 | 71537 | 70993 | 0.73 | cps |
| Rhodium | 103-1 | 23611727 | 23578059 | 23628184 | 23605990 | 0.11 | cps |
| Rhodium | 103-2 | 14165096 | 14162850 | 14316211 | 14214719 | 0.62 | cps |
| Scandium | 45-1 | 13730693 | 13669508 | 13787603 | 13729268 | 0.43 | cps |
| Scandium | 45-2 | 1224268 | 1226697 | 1232538 | 1227835 | 0.35 | cps |
| Selenium | 82-1 | 480 | 480 | 291 | 417 | 26.09 | cps |
| Selenium | 77-2 | 0 | 7 | 0 | 2 | 173.21 | cps |
| Selenium | 78-2 | 507 | 473 | 540 | 507 | 6.58 | cps |
| Silicon | 28-1 | 824799 | 832701 | 832735 | 830078 | 0.55 | cps |
| Silver | 107-1 | 177 | 177 | 133 | 162 | 15.42 | cps |
| Silver | 109-1 | 50 | 70 | 63 | 61 | 16.66 | cps |
| Sodium | 23-2 | 67972 | 68575 | 68448 | 68332 | 0.46 | cps |
| Strontium | 86-1 | 847 | 920 | 743 | 837 | 10.61 | cps |
| Strontium | 88-1 | 3607 | 3844 | 3877 | 3776 | 3.90 | cps |
| Sulfur | 34-1 | 285179 | 286642 | 285186 | 285669 | 0.30 | cps |
| Terbium | 159-1 | 29703093 | 29748868 | 29555843 | 29669268 | 0.34 | cps |
| Terbium | 159-2 | 20259576 | 20300603 | 20057216 | 20205798 | 0.64 | cps |
| Thallium | 203-1 | 333 | 247 | 287 | 289 | 15.02 | cps |
| Thallium | 205-1 | 667 | 680 | 630 | 659 | 3.93 | cps |
| Tin | 118-1 | 7382 | 7535 | 7512 | 7476 | 1.11 | cps |
| Titanium | 47-1 | 257 | 327 | 253 | 279 | 14.85 | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S00 | Instrumnet Name : | P7 |
| Client Sample ID : | S0 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:25:55 | DataFile Name : | 004CALB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 127 | 73 | 97 | 99 | 27.04 | cps |
| Vanadium | 51-2 | 50 | 60 | 63 | 58 | 12.01 | cps |
| Yttrium | 89-1 | 32720212 | 33025440 | 33466066 | 33070573 | 1.13 | cps |
| Yttrium | 89-2 | 8633784 | 8597365 | 8673495 | 8634881 | 0.44 | cps |
| Zinc | 66-2 | 13066 | 12912 | 13129 | 13036 | 0.86 | cps |
| Zirconium | 90-1 | 1773 | 1840 | 1930 | 1848 | 4.25 | cps |
| Zirconium | 91-1 | 330 | 447 | 383 | 387 | 15.10 | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S02 | Instrumnet Name : | P7 |
| Client Sample ID : | S02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:32:32 | DataFile Name : | 006CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 9820 | 9723 | 9580 | 9708 | 1.24 | cps |
| Antimony | 121-1 | 42613 | 42820 | 43459 | 42964 | 1.03 | cps |
| Arsenic | 75-2 | 1277 | 1200 | 1183 | 1220 | 4.08 | cps |
| Barium | 135-1 | 50794 | 51439 | 51643 | 51292 | 0.86 | cps |
| Barium | 137-1 | 89389 | 90042 | 90439 | 89957 | 0.59 | cps |
| Beryllium | 9-1 | 2484 | 2589 | 2372 | 2482 | 4.37 | cps |
| Bismuth | 209-1 | 17618273 | 17784457 | 17618898 | 17673876 | 0.54 | cps |
| Bismuth | 209-2 | 14229726 | 14477784 | 14323338 | 14343616 | 0.87 | cps |
| Bromine | 81-1 | 15805 | 15959 | 15368 | 15711 | 1.95 | cps |
| Bromine | 81-2 | 130 | 127 | 157 | 138 | 11.93 | cps |
| Cadmium | 108-1 | 443 | 460 | 393 | 432 | 8.03 | cps |
| Cadmium | 106-1 | 10544 | 10597 | 9773 | 10305 | 4.47 | cps |
| Cadmium | 111-1 | 12855 | 12914 | 12367 | 12712 | 2.36 | cps |
| Calcium | 43-1 | 35582 | 34893 | 35775 | 35417 | 1.31 | cps |
| Calcium | 44-1 | 573966 | 585414 | 586829 | 582070 | 1.21 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 24827 | 24924 | 24403 | 24718 | 1.12 | cps |
| Cobalt | 59-2 | 15308 | 15612 | 15878 | 15599 | 1.83 | cps |
| Copper | 63-2 | 23018 | 23569 | 22921 | 23169 | 1.51 | cps |
| Dysprosium | 156-1 | 37 | 33 | 43 | 38 | 13.48 | cps |
| Dysprosium | 156-2 | 43 | 17 | 3 | 21 | 96.48 | cps |
| Erbium | 164-1 | 110 | 133 | 110 | 118 | 11.44 | cps |
| Erbium | 164-2 | 110 | 103 | 80 | 98 | 16.11 | cps |
| Gadolinium | 160-1 | 130 | 133 | 137 | 133 | 2.50 | cps |
| Gadolinium | 160-2 | 1273 | 1277 | 1247 | 1266 | 1.30 | cps |
| Holmium | 165-1 | 29036208 | 29244644 | 29210749 | 29163867 | 0.38 | cps |
| Holmium | 165-2 | 20646906 | 20613584 | 20763800 | 20674764 | 0.38 | cps |
| Indium | 115-1 | 25210122 | 24892853 | 25126454 | 25076476 | 0.66 | cps |
| Indium | 115-2 | 8945260 | 9022654 | 8839247 | 8935720 | 1.03 | cps |
| Iron | 56-2 | 480575 | 481124 | 476039 | 479246 | 0.58 | cps |
| Iron | 57-2 | 13149 | 13626 | 13499 | 13425 | 1.84 | cps |
| Iron | 54-2 | 30167 | 29663 | 30083 | 29971 | 0.90 | cps |
| Krypton | 83-1 | 223 | 230 | 233 | 229 | 2.22 | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S02 | Instrumnet Name : | P7 |
| Client Sample ID : | S02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:32:32 | DataFile Name : | 006CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 16764 | 17098 | 17755 | 17205 | 2.93 | cps |
| Lead | 207-1 | 14875 | 15566 | 14868 | 15103 | 2.65 | cps |
| Lead | 208-1 | 67750 | 69433 | 70132 | 69105 | 1.77 | cps |
| Lithium | 6-1 | 3039930 | 3090783 | 3103002 | 3077905 | 1.09 | cps |
| Magnesium | 24-2 | 411297 | 414688 | 411017 | 412334 | 0.50 | cps |
| Manganese | 55-2 | 19756 | 20207 | 20220 | 20061 | 1.32 | cps |
| Molybdenum | 94-1 | 44414 | 43989 | 44721 | 44375 | 0.83 | cps |
| Molybdenum | 95-1 | 54196 | 54444 | 54782 | 54474 | 0.54 | cps |
| Molybdenum | 96-1 | 59122 | 60524 | 59738 | 59795 | 1.18 | cps |
| Molybdenum | 97-1 | 33315 | 33926 | 33916 | 33719 | 1.04 | cps |
| Molybdenum | 98-1 | 85485 | 87004 | 87788 | 86759 | 1.35 | cps |
| Neodymium | 150-1 | 20 | 3 | 13 | 12 | 68.66 | cps |
| Neodymium | 150-2 | 13 | 7 | 3 | 8 | 65.47 | cps |
| Nickel | 60-2 | 4781 | 4501 | 4694 | 4659 | 3.08 | cps |
| Phosphorus | 31-2 | 1363 | 1177 | 1170 | 1237 | 8.87 | cps |
| Potassium | 39-2 | 571081 | 572593 | 573717 | 572464 | 0.23 | cps |
| Rhodium | 103-1 | 23769176 | 23914063 | 23935765 | 23873002 | 0.38 | cps |
| Rhodium | 103-2 | 14229872 | 14355670 | 14240961 | 14275501 | 0.49 | cps |
| Scandium | 45-1 | 13847233 | 13855011 | 13825960 | 13842735 | 0.11 | cps |
| Scandium | 45-2 | 1232210 | 1237690 | 1227517 | 1232472 | 0.41 | cps |
| Selenium | 82-1 | 2134 | 2085 | 2098 | 2105 | 1.20 | cps |
| Selenium | 77-2 | 193 | 190 | 123 | 169 | 23.38 | cps |
| Selenium | 78-2 | 1033 | 1167 | 993 | 1064 | 8.53 | cps |
| Silicon | 28-1 | 872373 | 882640 | 883845 | 879619 | 0.72 | cps |
| Silver | 107-1 | 27894 | 28391 | 29026 | 28437 | 2.00 | cps |
| Silver | 109-1 | 26888 | 27239 | 27566 | 27231 | 1.25 | cps |
| Sodium | 23-2 | 692464 | 694448 | 690151 | 692354 | 0.31 | cps |
| Strontium | 86-1 | 7435 | 7805 | 7582 | 7608 | 2.45 | cps |
| Strontium | 88-1 | 62994 | 63369 | 63757 | 63373 | 0.60 | cps |
| Sulfur | 34-1 | 295670 | 294784 | 293061 | 294505 | 0.45 | cps |
| Terbium | 159-1 | 29895105 | 29780134 | 30005008 | 29893415 | 0.38 | cps |
| Terbium | 159-2 | 20183828 | 20227035 | 20170535 | 20193799 | 0.15 | cps |
| Thallium | 203-1 | 19367 | 19611 | 19491 | 19490 | 0.63 | cps |
| Thallium | 205-1 | 44720 | 45961 | 46054 | 45578 | 1.63 | cps |
| Tin | 118-1 | 95031 | 98360 | 98799 | 97396 | 2.12 | cps |
| Titanium | 47-1 | 13399 | 13740 | 13229 | 13456 | 1.93 | cps |

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S02 | Instrumnet Name : | P7 |
| Client Sample ID : | S02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:32:32 | DataFile Name : | 006CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 56111 | 56077 | 56195 | 56128 | 0.11 | cps |
| Vanadium | 51-2 | 38870 | 39806 | 39568 | 39415 | 1.23 | cps |
| Yttrium | 89-1 | 33367550 | 33353599 | 33314196 | 33345115 | 0.08 | cps |
| Yttrium | 89-2 | 8723689 | 8742485 | 8695275 | 8720483 | 0.27 | cps |
| Zinc | 66-2 | 21486 | 21716 | 21659 | 21620 | 0.56 | cps |
| Zirconium | 90-1 | 37317 | 38293 | 37885 | 37832 | 1.30 | cps |
| Zirconium | 91-1 | 8429 | 8569 | 8389 | 8463 | 1.12 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S03 | Instrumnet Name : | P7 |
| Client Sample ID : | S03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:35:48 | DataFile Name : | 007CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 497620 | 492010 | 494051 | 494560 | 0.57 | cps |
| Antimony | 121-1 | 1055656 | 1062913 | 1066903 | 1061824 | 0.54 | cps |
| Arsenic | 75-2 | 58033 | 57374 | 57190 | 57532 | 0.77 | cps |
| Barium | 135-1 | 1283798 | 1301626 | 1299400 | 1294941 | 0.75 | cps |
| Barium | 137-1 | 2191893 | 2215763 | 2234899 | 2214185 | 0.97 | cps |
| Beryllium | 9-1 | 114238 | 115918 | 116533 | 115563 | 1.03 | cps |
| Bismuth | 209-1 | 17435003 | 17839692 | 17745352 | 17673349 | 1.20 | cps |
| Bismuth | 209-2 | 13430941 | 14043729 | 14159256 | 13877975 | 2.82 | cps |
| Bromine | 81-1 | 15265 | 15301 | 15341 | 15302 | 0.25 | cps |
| Bromine | 81-2 | 110 | 93 | 117 | 107 | 11.27 | cps |
| Cadmium | 108-1 | 21266 | 21980 | 21506 | 21584 | 1.68 | cps |
| Cadmium | 106-1 | 40015 | 39921 | 39938 | 39958 | 0.12 | cps |
| Cadmium | 111-1 | 296813 | 297473 | 300113 | 298133 | 0.59 | cps |
| Calcium | 43-1 | 297066 | 302716 | 302678 | 300820 | 1.08 | cps |
| Calcium | 44-1 | 4572620 | 4608659 | 4565285 | 4582188 | 0.51 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 454555 | 454826 | 453444 | 454275 | 0.16 | cps |
| Cobalt | 59-2 | 727836 | 726282 | 722801 | 725639 | 0.36 | cps |
| Copper | 63-2 | 5519818 | 5513929 | 5334113 | 5455954 | 1.93 | cps |
| Dysprosium | 156-1 | 50 | 50 | 40 | 47 | 12.37 | cps |
| Dysprosium | 156-2 | 87 | 90 | 63 | 80 | 18.17 | cps |
| Erbium | 164-1 | 137 | 157 | 160 | 151 | 8.35 | cps |
| Erbium | 164-2 | 90 | 103 | 93 | 96 | 7.26 | cps |
| Gadolinium | 160-1 | 200 | 137 | 120 | 152 | 27.73 | cps |
| Gadolinium | 160-2 | 1253 | 1233 | 1297 | 1261 | 2.57 | cps |
| Holmium | 165-1 | 29128931 | 29215515 | 29236120 | 29193522 | 0.19 | cps |
| Holmium | 165-2 | 19407525 | 20095814 | 19976460 | 19826600 | 1.86 | cps |
| Indium | 115-1 | 24795623 | 24921799 | 24864367 | 24860596 | 0.25 | cps |
| Indium | 115-2 | 8485526 | 8684576 | 8809208 | 8659770 | 1.89 | cps |
| Iron | 56-2 | 21073638 | 21217088 | 21262691 | 21184473 | 0.47 | cps |
| Iron | 57-2 | 556799 | 551478 | 543250 | 550509 | 1.24 | cps |
| Iron | 54-2 | 1211051 | 1196603 | 1201970 | 1203208 | 0.61 | cps |
| Krypton | 83-1 | 217 | 253 | 267 | 246 | 10.54 | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S03 | Instrumnet Name : | P7 |
| Client Sample ID : | S03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:35:48 | DataFile Name : | 007CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 3752667 | 3809360 | 3809339 | 3790455 | 0.86 | cps |
| Lead | 207-1 | 3335287 | 3422555 | 3411788 | 3389877 | 1.40 | cps |
| Lead | 208-1 | 15117539 | 15455789 | 15427496 | 15333608 | 1.22 | cps |
| Lithium | 6-1 | 3119625 | 3155598 | 3167957 | 3147726 | 0.80 | cps |
| Magnesium | 24-2 | 4235536 | 4140346 | 4111210 | 4162364 | 1.56 | cps |
| Manganese | 55-2 | 3503915 | 3459605 | 3555206 | 3506242 | 1.36 | cps |
| Molybdenum | 94-1 | 3696390 | 3727961 | 3783348 | 3735900 | 1.18 | cps |
| Molybdenum | 95-1 | 5419730 | 5491306 | 5521643 | 5477560 | 0.96 | cps |
| Molybdenum | 96-1 | 5967715 | 6045639 | 6048199 | 6020518 | 0.76 | cps |
| Molybdenum | 97-1 | 3370565 | 3396677 | 3435327 | 3400856 | 0.96 | cps |
| Molybdenum | 98-1 | 8594785 | 8796183 | 8738319 | 8709762 | 1.19 | cps |
| Neodymium | 150-1 | 77 | 113 | 93 | 94 | 19.44 | cps |
| Neodymium | 150-2 | 30 | 20 | 13 | 21 | 39.75 | cps |
| Nickel | 60-2 | 188589 | 191205 | 190672 | 190155 | 0.73 | cps |
| Phosphorus | 31-2 | 24146 | 24797 | 24102 | 24348 | 1.60 | cps |
| Potassium | 39-2 | 2486161 | 2458802 | 2453039 | 2466001 | 0.72 | cps |
| Rhodium | 103-1 | 23760790 | 23884745 | 23539670 | 23728401 | 0.74 | cps |
| Rhodium | 103-2 | 13421767 | 13748034 | 14020490 | 13730097 | 2.18 | cps |
| Scandium | 45-1 | 13795269 | 13744399 | 13764495 | 13768054 | 0.19 | cps |
| Scandium | 45-2 | 1172570 | 1203542 | 1204892 | 1193668 | 1.53 | cps |
| Selenium | 82-1 | 17065 | 17258 | 17560 | 17294 | 1.44 | cps |
| Selenium | 77-2 | 1777 | 1800 | 1793 | 1790 | 0.67 | cps |
| Selenium | 78-2 | 6505 | 6291 | 6592 | 6463 | 2.39 | cps |
| Silicon | 28-1 | 4648468 | 4725594 | 4793307 | 4722457 | 1.53 | cps |
| Silver | 107-1 | 1451983 | 1474885 | 1472995 | 1466621 | 0.87 | cps |
| Silver | 109-1 | 1389396 | 1407965 | 1401890 | 1399750 | 0.68 | cps |
| Sodium | 23-2 | 6621275 | 6589981 | 6482704 | 6564654 | 1.11 | cps |
| Strontium | 86-1 | 332024 | 340154 | 340560 | 337579 | 1.43 | cps |
| Strontium | 88-1 | 2891607 | 2929838 | 2926080 | 2915842 | 0.72 | cps |
| Sulfur | 34-1 | 370896 | 370191 | 370764 | 370617 | 0.10 | cps |
| Terbium | 159-1 | 29855524 | 30081446 | 30167936 | 30034969 | 0.54 | cps |
| Terbium | 159-2 | 19552114 | 19853842 | 19800590 | 19735515 | 0.82 | cps |
| Thallium | 203-1 | 950115 | 983732 | 973357 | 969068 | 1.78 | cps |
| Thallium | 205-1 | 2247205 | 2323691 | 2286680 | 2285859 | 1.67 | cps |
| Tin | 118-1 | 900712 | 908973 | 914717 | 908134 | 0.78 | cps |
| Titanium | 47-1 | 1333624 | 1300294 | 1334476 | 1322798 | 1.47 | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S03 | Instrumnet Name : | P7 |
| Client Sample ID : | S03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:35:48 | DataFile Name : | 007CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 2875526 | 2951244 | 2927458 | 2918076 | 1.33 | cps |
| Vanadium | 51-2 | 394050 | 387138 | 386337 | 389175 | 1.09 | cps |
| Yttrium | 89-1 | 32748340 | 33145195 | 33007181 | 32966905 | 0.61 | cps |
| Yttrium | 89-2 | 8290170 | 8483903 | 8378967 | 8384347 | 1.16 | cps |
| Zinc | 66-2 | 890421 | 886069 | 884371 | 886954 | 0.35 | cps |
| Zirconium | 90-1 | 1811646 | 1809800 | 1850437 | 1823961 | 1.26 | cps |
| Zirconium | 91-1 | 403394 | 408683 | 413619 | 408566 | 1.25 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S04 | Instrumnet Name : | P7 |
| Client Sample ID : | S04 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:38:44 | DataFile Name : | 008CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1178318 | 1210232 | 1189142 | 1192564 | 1.36 | cps |
| Antimony | 121-1 | 2655947 | 2641848 | 2652705 | 2650167 | 0.28 | cps |
| Arsenic | 75-2 | 141614 | 140901 | 141399 | 141305 | 0.26 | cps |
| Barium | 135-1 | 3238488 | 3271617 | 3302773 | 3270960 | 0.98 | cps |
| Barium | 137-1 | 5526579 | 5589039 | 5564239 | 5559952 | 0.57 | cps |
| Beryllium | 9-1 | 283483 | 288528 | 291283 | 287765 | 1.37 | cps |
| Bismuth | 209-1 | 17547742 | 17618461 | 17581166 | 17582456 | 0.20 | cps |
| Bismuth | 209-2 | 13979129 | 13794444 | 13960794 | 13911455 | 0.73 | cps |
| Bromine | 81-1 | 15201 | 14347 | 15128 | 14892 | 3.18 | cps |
| Bromine | 81-2 | 137 | 120 | 113 | 123 | 9.75 | cps |
| Cadmium | 108-1 | 53254 | 54324 | 55265 | 54281 | 1.85 | cps |
| Cadmium | 106-1 | 83877 | 84799 | 84836 | 84504 | 0.64 | cps |
| Cadmium | 111-1 | 727941 | 728829 | 730091 | 728954 | 0.15 | cps |
| Calcium | 43-1 | 724049 | 732849 | 733961 | 730286 | 0.74 | cps |
| Calcium | 44-1 | 11027864 | 11267819 | 11137710 | 11144464 | 1.08 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1116567 | 1107269 | 1091669 | 1105168 | 1.14 | cps |
| Cobalt | 59-2 | 1786476 | 1776395 | 1756825 | 1773232 | 0.85 | cps |
| Copper | 63-2 | 13144334 | 13005361 | 13022663 | 13057453 | 0.58 | cps |
| Dysprosium | 156-1 | 103 | 43 | 107 | 84 | 42.21 | cps |
| Dysprosium | 156-2 | 147 | 167 | 207 | 173 | 17.62 | cps |
| Erbium | 164-1 | 140 | 180 | 180 | 167 | 13.86 | cps |
| Erbium | 164-2 | 140 | 97 | 137 | 124 | 19.38 | cps |
| Gadolinium | 160-1 | 140 | 197 | 157 | 164 | 17.71 | cps |
| Gadolinium | 160-2 | 1337 | 1250 | 1277 | 1288 | 3.45 | cps |
| Holmium | 165-1 | 28753410 | 29270416 | 28909460 | 28977762 | 0.92 | cps |
| Holmium | 165-2 | 20313799 | 20258746 | 20059747 | 20210764 | 0.66 | cps |
| Indium | 115-1 | 24591425 | 24232540 | 24391882 | 24405283 | 0.74 | cps |
| Indium | 115-2 | 8585960 | 8600882 | 8478935 | 8555259 | 0.78 | cps |
| Iron | 56-2 | 51894129 | 51182359 | 50690264 | 51255584 | 1.18 | cps |
| Iron | 57-2 | 1341282 | 1328733 | 1334282 | 1334765 | 0.47 | cps |
| Iron | 54-2 | 2842503 | 2854324 | 2839993 | 2845607 | 0.27 | cps |
| Krypton | 83-1 | 267 | 243 | 280 | 263 | 7.05 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S04 | Instrumnet Name : | P7 |
| Client Sample ID : | S04 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:38:44 | DataFile Name : | 008CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 9495157 | 9850417 | 9564112 | 9636562 | 1.95 | cps |
| Lead | 207-1 | 8437491 | 8616560 | 8546670 | 8533574 | 1.06 | cps |
| Lead | 208-1 | 38468582 | 39448180 | 38836325 | 38917696 | 1.27 | cps |
| Lithium | 6-1 | 3081476 | 3108618 | 3118683 | 3102926 | 0.62 | cps |
| Magnesium | 24-2 | 10213032 | 10294779 | 10201893 | 10236568 | 0.50 | cps |
| Manganese | 55-2 | 8532748 | 8608261 | 8423496 | 8521502 | 1.09 | cps |
| Molybdenum | 94-1 | 9245097 | 9411031 | 9321706 | 9325945 | 0.89 | cps |
| Molybdenum | 95-1 | 13562676 | 13639709 | 13541893 | 13581426 | 0.38 | cps |
| Molybdenum | 96-1 | 14924580 | 14932277 | 14953104 | 14936654 | 0.10 | cps |
| Molybdenum | 97-1 | 8385695 | 8423475 | 8458679 | 8422616 | 0.43 | cps |
| Molybdenum | 98-1 | 21433124 | 21727310 | 21994509 | 21718314 | 1.29 | cps |
| Neodymium | 150-1 | 213 | 170 | 217 | 200 | 13.02 | cps |
| Neodymium | 150-2 | 53 | 57 | 67 | 59 | 11.79 | cps |
| Nickel | 60-2 | 459600 | 459860 | 456619 | 458693 | 0.39 | cps |
| Phosphorus | 31-2 | 59468 | 58445 | 57916 | 58609 | 1.35 | cps |
| Potassium | 39-2 | 5934536 | 5986621 | 5885853 | 5935670 | 0.85 | cps |
| Rhodium | 103-1 | 23244440 | 22985073 | 22752092 | 22993868 | 1.07 | cps |
| Rhodium | 103-2 | 13796283 | 13724541 | 13491192 | 13670672 | 1.17 | cps |
| Scandium | 45-1 | 13461302 | 13433217 | 13344467 | 13412995 | 0.45 | cps |
| Scandium | 45-2 | 1174826 | 1176651 | 1153761 | 1168413 | 1.09 | cps |
| Selenium | 82-1 | 42890 | 42369 | 42361 | 42540 | 0.71 | cps |
| Selenium | 77-2 | 4417 | 4377 | 4431 | 4408 | 0.63 | cps |
| Selenium | 78-2 | 15315 | 14998 | 15008 | 15107 | 1.19 | cps |
| Silicon | 28-1 | 8448488 | 8534187 | 8549558 | 8510744 | 0.64 | cps |
| Silver | 107-1 | 3579112 | 3579333 | 3586997 | 3581814 | 0.13 | cps |
| Silver | 109-1 | 3459142 | 3423106 | 3416989 | 3433079 | 0.66 | cps |
| Sodium | 23-2 | 15993244 | 16206797 | 15999691 | 16066577 | 0.76 | cps |
| Strontium | 86-1 | 828012 | 840175 | 837505 | 835231 | 0.77 | cps |
| Strontium | 88-1 | 7257418 | 7320526 | 7265353 | 7281099 | 0.47 | cps |
| Sulfur | 34-1 | 476693 | 476213 | 474113 | 475673 | 0.29 | cps |
| Terbium | 159-1 | 30005250 | 29993740 | 29870281 | 29956424 | 0.25 | cps |
| Terbium | 159-2 | 20223824 | 19800984 | 20162310 | 20062373 | 1.14 | cps |
| Thallium | 203-1 | 2431477 | 2449328 | 2431341 | 2437382 | 0.42 | cps |
| Thallium | 205-1 | 5727421 | 5837644 | 5743346 | 5769470 | 1.03 | cps |
| Tin | 118-1 | 2226928 | 2264405 | 2239234 | 2243522 | 0.85 | cps |
| Titanium | 47-1 | 3230658 | 3284157 | 3330585 | 3281800 | 1.52 | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S04 | Instrumnet Name : | P7 |
| Client Sample ID : | S04 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:38:44 | DataFile Name : | 008CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 7429961 | 7446161 | 7575930 | 7484017 | 1.07 | cps |
| Vanadium | 51-2 | 949318 | 947657 | 936203 | 944392 | 0.76 | cps |
| Yttrium | 89-1 | 32676132 | 32555305 | 32109836 | 32447091 | 0.92 | cps |
| Yttrium | 89-2 | 8409012 | 8438160 | 8210209 | 8352460 | 1.49 | cps |
| Zinc | 66-2 | 2172048 | 2132972 | 2128685 | 2144568 | 1.11 | cps |
| Zirconium | 90-1 | 4546213 | 4545200 | 4499317 | 4530243 | 0.59 | cps |
| Zirconium | 91-1 | 1003677 | 1015360 | 1015482 | 1011506 | 0.67 | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S05 | Instrumnet Name : | P7 |
| Client Sample ID : | S05 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:41:30 | DataFile Name : | 009CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 2299726 | 2293830 | 2321501 | 2305019 | 0.63 | cps |
| Antimony | 121-1 | 5123177 | 5198555 | 5123050 | 5148260 | 0.85 | cps |
| Arsenic | 75-2 | 274045 | 272836 | 273077 | 273319 | 0.23 | cps |
| Barium | 135-1 | 6241321 | 6312571 | 6340853 | 6298248 | 0.81 | cps |
| Barium | 137-1 | 10754580 | 10895679 | 10865278 | 10838512 | 0.69 | cps |
| Beryllium | 9-1 | 552678 | 557805 | 555111 | 555198 | 0.46 | cps |
| Bismuth | 209-1 | 17452776 | 17500415 | 17483682 | 17478958 | 0.14 | cps |
| Bismuth | 209-2 | 13846431 | 13906849 | 14062272 | 13938518 | 0.80 | cps |
| Bromine | 81-1 | 13857 | 14110 | 13626 | 13864 | 1.75 | cps |
| Bromine | 81-2 | 137 | 150 | 87 | 124 | 26.83 | cps |
| Cadmium | 108-1 | 102049 | 104177 | 103865 | 103364 | 1.11 | cps |
| Cadmium | 106-1 | 150914 | 153548 | 152248 | 152237 | 0.87 | cps |
| Cadmium | 111-1 | 1372764 | 1395892 | 1391641 | 1386765 | 0.89 | cps |
| Calcium | 43-1 | 1315934 | 1334805 | 1338753 | 1329831 | 0.92 | cps |
| Calcium | 44-1 | 21381570 | 21353392 | 21411233 | 21382065 | 0.14 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 2135175 | 2089040 | 2132042 | 2118752 | 1.22 | cps |
| Cobalt | 59-2 | 3422634 | 3395350 | 3402607 | 3406864 | 0.41 | cps |
| Copper | 63-2 | 25324947 | 24850579 | 24824373 | 24999966 | 1.13 | cps |
| Dysprosium | 156-1 | 113 | 97 | 127 | 112 | 13.39 | cps |
| Dysprosium | 156-2 | 387 | 340 | 370 | 366 | 6.47 | cps |
| Erbium | 164-1 | 180 | 197 | 190 | 189 | 4.44 | cps |
| Erbium | 164-2 | 170 | 117 | 177 | 154 | 21.29 | cps |
| Gadolinium | 160-1 | 200 | 233 | 213 | 216 | 7.78 | cps |
| Gadolinium | 160-2 | 1170 | 1200 | 1183 | 1185 | 1.27 | cps |
| Holmium | 165-1 | 28222009 | 28596635 | 28826230 | 28548291 | 1.07 | cps |
| Holmium | 165-2 | 20165470 | 20093031 | 20327372 | 20195291 | 0.59 | cps |
| Indium | 115-1 | 23889535 | 23801219 | 23750421 | 23813725 | 0.30 | cps |
| Indium | 115-2 | 8662204 | 8463693 | 8516986 | 8547627 | 1.20 | cps |
| Iron | 56-2 | 99894065 | 98461429 | 98045315 | 98800270 | 0.98 | cps |
| Iron | 57-2 | 2552360 | 2463453 | 2422925 | 2479579 | 2.67 | cps |
| Iron | 54-2 | 5502451 | 5407795 | 5467902 | 5459383 | 0.88 | cps |
| Krypton | 83-1 | 250 | 260 | 273 | 261 | 4.48 | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S05 | Instrumnet Name : | P7 |
| Client Sample ID : | S05 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:41:30 | DataFile Name : | 009CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 18600714 | 19160435 | 18855664 | 18872271 | 1.48 | cps |
| Lead | 207-1 | 16603313 | 16941409 | 16735495 | 16760072 | 1.02 | cps |
| Lead | 208-1 | 75296054 | 76617853 | 76305579 | 76073162 | 0.91 | cps |
| Lithium | 6-1 | 3048793 | 3032560 | 3067429 | 3049594 | 0.57 | cps |
| Magnesium | 24-2 | 19571344 | 19460083 | 19601846 | 19544424 | 0.38 | cps |
| Manganese | 55-2 | 16486751 | 16450596 | 16411563 | 16449636 | 0.23 | cps |
| Molybdenum | 94-1 | 17837920 | 18155504 | 18072284 | 18021903 | 0.91 | cps |
| Molybdenum | 95-1 | 26086570 | 26490239 | 26400898 | 26325902 | 0.81 | cps |
| Molybdenum | 96-1 | 28512977 | 29069442 | 29135354 | 28905924 | 1.18 | cps |
| Molybdenum | 97-1 | 16143926 | 16400807 | 16527278 | 16357337 | 1.19 | cps |
| Molybdenum | 98-1 | 41397741 | 42376124 | 42208182 | 41994015 | 1.25 | cps |
| Neodymium | 150-1 | 323 | 390 | 333 | 349 | 10.31 | cps |
| Neodymium | 150-2 | 90 | 100 | 93 | 94 | 5.39 | cps |
| Nickel | 60-2 | 881178 | 873563 | 877204 | 877315 | 0.43 | cps |
| Phosphorus | 31-2 | 112557 | 111596 | 111026 | 111726 | 0.69 | cps |
| Potassium | 39-2 | 11325265 | 11260614 | 11354770 | 11313550 | 0.43 | cps |
| Rhodium | 103-1 | 22192442 | 22468829 | 22279027 | 22313433 | 0.63 | cps |
| Rhodium | 103-2 | 13445751 | 13364991 | 13508983 | 13439909 | 0.54 | cps |
| Scandium | 45-1 | 13090967 | 12944718 | 13123340 | 13053008 | 0.73 | cps |
| Scandium | 45-2 | 1155051 | 1142037 | 1158773 | 1151954 | 0.76 | cps |
| Selenium | 82-1 | 80209 | 81575 | 81465 | 81083 | 0.94 | cps |
| Selenium | 77-2 | 8189 | 8442 | 7929 | 8187 | 3.14 | cps |
| Selenium | 78-2 | 28050 | 27830 | 28050 | 27976 | 0.45 | cps |
| Silicon | 28-1 | 18000946 | 18224231 | 18198206 | 18141128 | 0.67 | cps |
| Silver | 107-1 | 6799507 | 6892313 | 6788138 | 6826653 | 0.84 | cps |
| Silver | 109-1 | 6489584 | 6564872 | 6579638 | 6544698 | 0.74 | cps |
| Sodium | 23-2 | 30567930 | 30448015 | 30863864 | 30626603 | 0.70 | cps |
| Strontium | 86-1 | 1589063 | 1629825 | 1629653 | 1616180 | 1.45 | cps |
| Strontium | 88-1 | 13960004 | 14020360 | 14083586 | 14021317 | 0.44 | cps |
| Sulfur | 34-1 | 631456 | 632438 | 630431 | 631442 | 0.16 | cps |
| Terbium | 159-1 | 29527602 | 29722093 | 29712048 | 29653914 | 0.37 | cps |
| Terbium | 159-2 | 20056483 | 20022196 | 19993205 | 20023961 | 0.16 | cps |
| Thallium | 203-1 | 4710600 | 4783730 | 4773610 | 4755980 | 0.83 | cps |
| Thallium | 205-1 | 11243761 | 11400924 | 11328042 | 11324242 | 0.69 | cps |
| Tin | 118-1 | 4296121 | 4356160 | 4380848 | 4344376 | 1.00 | cps |
| Titanium | 47-1 | 6228423 | 6287617 | 6225915 | 6247318 | 0.56 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S05 | Instrumnet Name : | P7 |
| Client Sample ID : | S05 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:41:30 | DataFile Name : | 009CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 14453593 | 14854988 | 14807722 | 14705434 | 1.49 | cps |
| Vanadium | 51-2 | 1855922 | 1832760 | 1823555 | 1837412 | 0.91 | cps |
| Yttrium | 89-1 | 31800297 | 31505914 | 31875285 | 31727165 | 0.62 | cps |
| Yttrium | 89-2 | 8274031 | 8114011 | 8210812 | 8199618 | 0.98 | cps |
| Zinc | 66-2 | 4104651 | 4069365 | 4046105 | 4073374 | 0.72 | cps |
| Zirconium | 90-1 | 8675559 | 8876656 | 8881558 | 8811258 | 1.33 | cps |
| Zirconium | 91-1 | 1926433 | 1967367 | 1963815 | 1952539 | 1.16 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S06 | Instrumnet Name : | P7 |
| Client Sample ID : | S06 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:44:16 | DataFile Name : | 010CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 4494035 | 4457239 | 4477489 | 4476255 | 0.41 | cps |
| Antimony | 121-1 | 9831266 | 10250070 | 10079805 | 10053714 | 2.09 | cps |
| Arsenic | 75-2 | 542664 | 542187 | 540696 | 541849 | 0.19 | cps |
| Barium | 135-1 | 12114364 | 12562975 | 12430794 | 12369378 | 1.86 | cps |
| Barium | 137-1 | 20989188 | 21542307 | 21247876 | 21259790 | 1.30 | cps |
| Beryllium | 9-1 | 1085216 | 1105392 | 1117000 | 1102536 | 1.46 | cps |
| Bismuth | 209-1 | 17982504 | 17466450 | 17293523 | 17580826 | 2.04 | cps |
| Bismuth | 209-2 | 13891427 | 14039566 | 13854611 | 13928535 | 0.70 | cps |
| Bromine | 81-1 | 14023 | 13506 | 13840 | 13790 | 1.90 | cps |
| Bromine | 81-2 | 133 | 130 | 123 | 129 | 3.95 | cps |
| Cadmium | 108-1 | 197084 | 200925 | 199935 | 199314 | 1.00 | cps |
| Cadmium | 106-1 | 283135 | 288977 | 288766 | 286959 | 1.15 | cps |
| Cadmium | 111-1 | 2641643 | 2702183 | 2696264 | 2680030 | 1.25 | cps |
| Calcium | 43-1 | 2569708 | 2616540 | 2572301 | 2586183 | 1.02 | cps |
| Calcium | 44-1 | 40670847 | 41749229 | 41623038 | 41347705 | 1.43 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 4160735 | 4144600 | 4188797 | 4164711 | 0.54 | cps |
| Cobalt | 59-2 | 6636573 | 6649935 | 6665124 | 6650544 | 0.21 | cps |
| Copper | 63-2 | 48689638 | 49360559 | 48923768 | 48991321 | 0.70 | cps |
| Dysprosium | 156-1 | 210 | 253 | 240 | 234 | 9.47 | cps |
| Dysprosium | 156-2 | 723 | 683 | 817 | 741 | 9.23 | cps |
| Erbium | 164-1 | 320 | 313 | 280 | 304 | 7.04 | cps |
| Erbium | 164-2 | 227 | 193 | 157 | 192 | 18.21 | cps |
| Gadolinium | 160-1 | 303 | 297 | 297 | 299 | 1.29 | cps |
| Gadolinium | 160-2 | 1287 | 1307 | 1277 | 1290 | 1.18 | cps |
| Holmium | 165-1 | 30356035 | 29853095 | 28977360 | 29728830 | 2.35 | cps |
| Holmium | 165-2 | 20562533 | 20524617 | 20555804 | 20547651 | 0.10 | cps |
| Indium | 115-1 | 24501138 | 23798135 | 23805462 | 24034912 | 1.68 | cps |
| Indium | 115-2 | 8464851 | 8499441 | 8444104 | 8469466 | 0.33 | cps |
| Iron | 56-2 | 194012377 | 194797924 | 194364617 | 194391639 | 0.20 | cps |
| Iron | 57-2 | 4872762 | 4913489 | 4869588 | 4885279 | 0.50 | cps |
| Iron | 54-2 | 10733425 | 10677548 | 10690890 | 10700621 | 0.27 | cps |
| Krypton | 83-1 | 250 | 293 | 297 | 280 | 9.30 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S06 | Instrumnet Name : | P7 |
| Client Sample ID : | S06 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:44:16 | DataFile Name : | 010CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 36916043 | 37570120 | 37207566 | 37231243 | 0.88 | cps |
| Lead | 207-1 | 32779478 | 33402088 | 33197643 | 33126403 | 0.96 | cps |
| Lead | 208-1 | 148164814 | 151755772 | 151050494 | 150323694 | 1.27 | cps |
| Lithium | 6-1 | 3082256 | 2973665 | 2968914 | 3008278 | 2.13 | cps |
| Magnesium | 24-2 | 38141429 | 37985219 | 38293278 | 38139975 | 0.40 | cps |
| Manganese | 55-2 | 32501049 | 32335413 | 32404704 | 32413722 | 0.26 | cps |
| Molybdenum | 94-1 | 35373028 | 36135429 | 35846263 | 35784906 | 1.08 | cps |
| Molybdenum | 95-1 | 51358951 | 52067064 | 52212948 | 51879654 | 0.88 | cps |
| Molybdenum | 96-1 | 56774912 | 57113154 | 57291602 | 57059890 | 0.46 | cps |
| Molybdenum | 97-1 | 32118760 | 32531619 | 32670614 | 32440331 | 0.88 | cps |
| Molybdenum | 98-1 | 82203377 | 83672902 | 83664275 | 83180185 | 1.02 | cps |
| Neodymium | 150-1 | 697 | 680 | 677 | 684 | 1.57 | cps |
| Neodymium | 150-2 | 213 | 133 | 220 | 189 | 25.53 | cps |
| Nickel | 60-2 | 1734688 | 1744247 | 1704852 | 1727929 | 1.19 | cps |
| Phosphorus | 31-2 | 220917 | 216282 | 220072 | 219090 | 1.13 | cps |
| Potassium | 39-2 | 22408461 | 22337535 | 22554541 | 22433512 | 0.49 | cps |
| Rhodium | 103-1 | 22933244 | 22294572 | 22085313 | 22437710 | 1.97 | cps |
| Rhodium | 103-2 | 13264178 | 13350166 | 13322954 | 13312432 | 0.33 | cps |
| Scandium | 45-1 | 13381071 | 13173636 | 13091724 | 13215477 | 1.13 | cps |
| Scandium | 45-2 | 1151428 | 1157551 | 1165446 | 1158142 | 0.61 | cps |
| Selenium | 82-1 | 155771 | 159590 | 159391 | 158251 | 1.36 | cps |
| Selenium | 77-2 | 16826 | 16433 | 16506 | 16588 | 1.26 | cps |
| Selenium | 78-2 | 55487 | 55028 | 55259 | 55258 | 0.42 | cps |
| Silicon | 28-1 | 40950076 | 42102709 | 41536980 | 41529922 | 1.39 | cps |
| Silver | 107-1 | 13150770 | 13455759 | 13302094 | 13302874 | 1.15 | cps |
| Silver | 109-1 | 12499890 | 12841493 | 12783151 | 12708178 | 1.44 | cps |
| Sodium | 23-2 | 60559386 | 60730981 | 59964622 | 60418330 | 0.67 | cps |
| Strontium | 86-1 | 3068215 | 3220867 | 3219592 | 3169558 | 2.77 | cps |
| Strontium | 88-1 | 27262077 | 27857000 | 28034951 | 27718010 | 1.46 | cps |
| Sulfur | 34-1 | 962391 | 972625 | 969613 | 968209 | 0.54 | cps |
| Terbium | 159-1 | 31027245 | 29865983 | 29684485 | 30192571 | 2.41 | cps |
| Terbium | 159-2 | 20449204 | 20498757 | 20223129 | 20390363 | 0.72 | cps |
| Thallium | 203-1 | 9339407 | 9501285 | 9512404 | 9451032 | 1.02 | cps |
| Thallium | 205-1 | 22225836 | 22370426 | 22420425 | 22338896 | 0.45 | cps |
| Tin | 118-1 | 8241249 | 8596443 | 8513981 | 8450557 | 2.20 | cps |
| Titanium | 47-1 | 12165622 | 12542038 | 12316199 | 12341286 | 1.54 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S06 | Instrumnet Name : | P7 |
| Client Sample ID : | S06 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:44:16 | DataFile Name : | 010CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 29000957 | 30114350 | 29630206 | 29581838 | 1.89 | cps |
| Vanadium | 51-2 | 3679747 | 3642839 | 3654194 | 3658927 | 0.52 | cps |
| Yttrium | 89-1 | 33229243 | 31914915 | 32240188 | 32461448 | 2.11 | cps |
| Yttrium | 89-2 | 8392025 | 8420586 | 8265815 | 8359475 | 0.99 | cps |
| Zinc | 66-2 | 8004643 | 8077708 | 7920515 | 8000955 | 0.98 | cps |
| Zirconium | 90-1 | 17155487 | 17670321 | 17626191 | 17483999 | 1.63 | cps |
| Zirconium | 91-1 | 3776428 | 3875698 | 3917917 | 3856681 | 1.88 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S07 | Instrumnet Name : | P7 |
| Client Sample ID : | S07 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:46:59 | DataFile Name : | 011CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 9515863 | 9415648 | 9460261 | 9463924 | 0.53 | cps |
| Antimony | 121-1 | 21677696 | 21834700 | 21440941 | 21651112 | 0.92 | cps |
| Arsenic | 75-2 | 1144190 | 1139094 | 1144292 | 1142525 | 0.26 | cps |
| Barium | 135-1 | 26460713 | 26916271 | 26351619 | 26576201 | 1.13 | cps |
| Barium | 137-1 | 45433746 | 45796973 | 45320119 | 45516946 | 0.55 | cps |
| Beryllium | 9-1 | 2257628 | 2239608 | 2215535 | 2237590 | 0.94 | cps |
| Bismuth | 209-1 | 18129728 | 17909266 | 18066543 | 18035179 | 0.63 | cps |
| Bismuth | 209-2 | 14280570 | 14342090 | 14349832 | 14324164 | 0.26 | cps |
| Bromine | 81-1 | 14264 | 14894 | 14250 | 14469 | 2.54 | cps |
| Bromine | 81-2 | 110 | 140 | 130 | 127 | 12.06 | cps |
| Cadmium | 108-1 | 420428 | 421440 | 423020 | 421629 | 0.31 | cps |
| Cadmium | 106-1 | 593187 | 597471 | 593273 | 594644 | 0.41 | cps |
| Cadmium | 111-1 | 5631017 | 5633290 | 5626314 | 5630207 | 0.06 | cps |
| Calcium | 43-1 | 5523029 | 5504118 | 5500309 | 5509152 | 0.22 | cps |
| Calcium | 44-1 | 88464149 | 88387509 | 88063242 | 88304966 | 0.24 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 8730581 | 8723028 | 8792926 | 8748845 | 0.44 | cps |
| Cobalt | 59-2 | 13865216 | 13840204 | 13946065 | 13883828 | 0.40 | cps |
| Copper | 63-2 | 101696208 | 100715702 | 101241818 | 101217910 | 0.48 | cps |
| Dysprosium | 156-1 | 550 | 440 | 473 | 488 | 11.56 | cps |
| Dysprosium | 156-2 | 1327 | 1410 | 1393 | 1377 | 3.20 | cps |
| Erbium | 164-1 | 460 | 483 | 483 | 476 | 2.83 | cps |
| Erbium | 164-2 | 320 | 250 | 370 | 313 | 19.24 | cps |
| Gadolinium | 160-1 | 417 | 417 | 430 | 421 | 1.83 | cps |
| Gadolinium | 160-2 | 1413 | 1407 | 1357 | 1392 | 2.22 | cps |
| Holmium | 165-1 | 30850035 | 30619314 | 31025546 | 30831631 | 0.66 | cps |
| Holmium | 165-2 | 21464786 | 21639250 | 21682218 | 21595418 | 0.53 | cps |
| Indium | 115-1 | 24605504 | 24624730 | 24709178 | 24646471 | 0.22 | cps |
| Indium | 115-2 | 8785833 | 8752215 | 8809838 | 8782629 | 0.33 | cps |
| Iron | 56-2 | 406252554 | 406053127 | 408700914 | 407002198 | 0.36 | cps |
| Iron | 57-2 | 10331221 | 10166840 | 10096089 | 10198050 | 1.18 | cps |
| Iron | 54-2 | 22642725 | 22276563 | 22508941 | 22476076 | 0.82 | cps |
| Krypton | 83-1 | 280 | 283 | 310 | 291 | 5.65 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S07 | Instrumnet Name : | P7 |
| Client Sample ID : | S07 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:46:59 | DataFile Name : | 011CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 78521861 | 79113909 | 79339982 | 78991917 | 0.53 | cps |
| Lead | 207-1 | 69195047 | 70027321 | 70105881 | 69776083 | 0.72 | cps |
| Lead | 208-1 | 315030085 | 317617964 | 319430947 | 317359665 | 0.70 | cps |
| Lithium | 6-1 | 3023935 | 3012723 | 2932530 | 2989729 | 1.67 | cps |
| Magnesium | 24-2 | 81586304 | 80899597 | 81475770 | 81320557 | 0.45 | cps |
| Manganese | 55-2 | 68049404 | 67940841 | 67757087 | 67915777 | 0.22 | cps |
| Molybdenum | 94-1 | 76681409 | 76453277 | 76351869 | 76495518 | 0.22 | cps |
| Molybdenum | 95-1 | 111649792 | 111439322 | 111837592 | 111642235 | 0.18 | cps |
| Molybdenum | 96-1 | 122175778 | 122632365 | 122639058 | 122482400 | 0.22 | cps |
| Molybdenum | 97-1 | 69455681 | 68825464 | 69187326 | 69156157 | 0.46 | cps |
| Molybdenum | 98-1 | 178194531 | 178385457 | 178986237 | 178522075 | 0.23 | cps |
| Neodymium | 150-1 | 1357 | 1343 | 1483 | 1395 | 5.54 | cps |
| Neodymium | 150-2 | 423 | 290 | 377 | 363 | 18.62 | cps |
| Nickel | 60-2 | 3557354 | 3540188 | 3541749 | 3546430 | 0.27 | cps |
| Phosphorus | 31-2 | 466792 | 463839 | 466516 | 465715 | 0.35 | cps |
| Potassium | 39-2 | 46998718 | 47140864 | 47230799 | 47123460 | 0.25 | cps |
| Rhodium | 103-1 | 23088080 | 22970105 | 22960526 | 23006237 | 0.31 | cps |
| Rhodium | 103-2 | 13634974 | 13588216 | 13607252 | 13610147 | 0.17 | cps |
| Scandium | 45-1 | 13508949 | 13686394 | 13567332 | 13587559 | 0.67 | cps |
| Scandium | 45-2 | 1217685 | 1212849 | 1225758 | 1218764 | 0.54 | cps |
| Selenium | 82-1 | 335466 | 340140 | 337928 | 337845 | 0.69 | cps |
| Selenium | 77-2 | 35259 | 35175 | 35245 | 35226 | 0.13 | cps |
| Selenium | 78-2 | 117743 | 117992 | 119389 | 118375 | 0.75 | cps |
| Silicon | 28-1 | 77603081 | 76043796 | 75803056 | 76483311 | 1.28 | cps |
| Silver | 107-1 | 27623662 | 28005890 | 27773329 | 27800960 | 0.69 | cps |
| Silver | 109-1 | 26363845 | 26643448 | 26568492 | 26525262 | 0.55 | cps |
| Sodium | 23-2 | 127047318 | 126596131 | 126926011 | 126856487 | 0.18 | cps |
| Strontium | 86-1 | 6702719 | 6794244 | 6793556 | 6763507 | 0.78 | cps |
| Strontium | 88-1 | 58819572 | 59521234 | 59162504 | 59167770 | 0.59 | cps |
| Sulfur | 34-1 | 1865593 | 1877399 | 1861228 | 1868073 | 0.45 | cps |
| Terbium | 159-1 | 31767510 | 31682377 | 31522752 | 31657546 | 0.39 | cps |
| Terbium | 159-2 | 21169434 | 21230290 | 21393726 | 21264483 | 0.55 | cps |
| Thallium | 203-1 | 19820247 | 20035890 | 19897022 | 19917720 | 0.55 | cps |
| Thallium | 205-1 | 47225924 | 47363963 | 47164129 | 47251339 | 0.22 | cps |
| Tin | 118-1 | 17892371 | 18053826 | 18046906 | 17997701 | 0.51 | cps |
| Titanium | 47-1 | 26269060 | 25976559 | 25981307 | 26075642 | 0.64 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S07 | Instrumnet Name : | P7 |
| Client Sample ID : | S07 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:46:59 | DataFile Name : | 011CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 62282607 | 62437432 | 61901007 | 62207016 | 0.44 | cps |
| Vanadium | 51-2 | 7673868 | 7608007 | 7640813 | 7640896 | 0.43 | cps |
| Yttrium | 89-1 | 33646237 | 33632803 | 33551158 | 33610066 | 0.15 | cps |
| Yttrium | 89-2 | 8794945 | 8677766 | 8768357 | 8747023 | 0.70 | cps |
| Zinc | 66-2 | 16686693 | 16500580 | 16623502 | 16603592 | 0.57 | cps |
| Zirconium | 90-1 | 37430612 | 37407694 | 37273180 | 37370496 | 0.23 | cps |
| Zirconium | 91-1 | 8289164 | 8172987 | 8220043 | 8227398 | 0.71 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S08 | Instrumnet Name : | P7 |
| Client Sample ID : | S08 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:49:45 | DataFile Name : | 012CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 49706064 | 50714354 | 49805239 | 50075219 | 1.11 | cps |
| Antimony | 121-1 | 9723 | 10097 | 11178 | 10333 | 7.31 | cps |
| Arsenic | 75-2 | 657 | 633 | 580 | 623 | 6.30 | cps |
| Barium | 135-1 | 11328 | 10714 | 10257 | 10766 | 4.99 | cps |
| Barium | 137-1 | 19724 | 18222 | 17988 | 18645 | 5.05 | cps |
| Beryllium | 9-1 | 489 | 272 | 383 | 381 | 28.40 | cps |
| Bismuth | 209-1 | 15927923 | 15844404 | 15729210 | 15833846 | 0.63 | cps |
| Bismuth | 209-2 | 12405804 | 12645704 | 12394836 | 12482115 | 1.14 | cps |
| Bromine | 81-1 | 16052 | 16316 | 16773 | 16380 | 2.23 | cps |
| Bromine | 81-2 | 107 | 157 | 140 | 134 | 18.94 | cps |
| Cadmium | 108-1 | 200 | 210 | 223 | 211 | 5.55 | cps |
| Cadmium | 106-1 | 9506 | 9350 | 9590 | 9482 | 1.29 | cps |
| Cadmium | 111-1 | 7768 | 7411 | 7627 | 7602 | 2.36 | cps |
| Calcium | 43-1 | 26648864 | 27173626 | 27158267 | 26993586 | 1.11 | cps |
| Calcium | 44-1 | 431141220 | 436715607 | 439284353 | 435713727 | 0.96 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 16903 | 17097 | 17167 | 17055 | 0.80 | cps |
| Cobalt | 59-2 | 37176 | 36955 | 37096 | 37076 | 0.30 | cps |
| Copper | 63-2 | 19596 | 19192 | 18885 | 19225 | 1.85 | cps |
| Dysprosium | 156-1 | 903 | 970 | 877 | 917 | 5.24 | cps |
| Dysprosium | 156-2 | 757 | 643 | 637 | 679 | 9.93 | cps |
| Erbium | 164-1 | 1040 | 1003 | 930 | 991 | 5.65 | cps |
| Erbium | 164-2 | 690 | 717 | 690 | 699 | 2.20 | cps |
| Gadolinium | 160-1 | 897 | 810 | 887 | 864 | 5.49 | cps |
| Gadolinium | 160-2 | 1770 | 1720 | 1870 | 1787 | 4.28 | cps |
| Holmium | 165-1 | 29685610 | 29851170 | 29576836 | 29704539 | 0.47 | cps |
| Holmium | 165-2 | 20555233 | 20602985 | 20510720 | 20556313 | 0.22 | cps |
| Indium | 115-1 | 23630760 | 23445337 | 23592834 | 23556310 | 0.42 | cps |
| Indium | 115-2 | 8592633 | 8711989 | 8514924 | 8606515 | 1.15 | cps |
| Iron | 56-2 | 2000715384 | 2039413836 | 2035602370 | 2025243863 | 1.05 | cps |
| Iron | 57-2 | 50318596 | 51005069 | 50195864 | 50506510 | 0.86 | cps |
| Iron | 54-2 | 109796755 | 110312352 | 110091278 | 110066795 | 0.24 | cps |
| Krypton | 83-1 | 310 | 363 | 263 | 312 | 16.03 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S08 | Instrumnet Name : | P7 |
| Client Sample ID : | S08 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:49:45 | DataFile Name : | 012CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 12463 | 10434 | 9503 | 10800 | 14.01 | cps |
| Lead | 207-1 | 10411 | 8870 | 8046 | 9109 | 13.18 | cps |
| Lead | 208-1 | 48805 | 40951 | 37177 | 42311 | 14.02 | cps |
| Lithium | 6-1 | 2850487 | 2893116 | 2930182 | 2891261 | 1.38 | cps |
| Magnesium | 24-2 | 413864781 | 415344140 | 421586274 | 416931732 | 0.98 | cps |
| Manganese | 55-2 | 37741 | 37346 | 37533 | 37540 | 0.53 | cps |
| Molybdenum | 94-1 | 21212 | 18518 | 17594 | 19108 | 9.84 | cps |
| Molybdenum | 95-1 | 21559 | 17691 | 16990 | 18747 | 13.13 | cps |
| Molybdenum | 96-1 | 37652 | 34437 | 33458 | 35182 | 6.24 | cps |
| Molybdenum | 97-1 | 12959 | 10521 | 9877 | 11119 | 14.62 | cps |
| Molybdenum | 98-1 | 32333 | 27125 | 25218 | 28225 | 13.05 | cps |
| Neodymium | 150-1 | 480 | 477 | 473 | 477 | 0.70 | cps |
| Neodymium | 150-2 | 233 | 280 | 260 | 258 | 9.08 | cps |
| Nickel | 60-2 | 10907 | 10637 | 11184 | 10910 | 2.51 | cps |
| Phosphorus | 31-2 | 623 | 577 | 587 | 596 | 4.13 | cps |
| Potassium | 39-2 | 247258676 | 247322736 | 244961996 | 246514470 | 0.55 | cps |
| Rhodium | 103-1 | 21263329 | 21202203 | 21072316 | 21179283 | 0.46 | cps |
| Rhodium | 103-2 | 12573238 | 12690825 | 12520744 | 12594936 | 0.69 | cps |
| Scandium | 45-1 | 13490339 | 13426337 | 13725774 | 13547483 | 1.16 | cps |
| Scandium | 45-2 | 1243568 | 1269896 | 1242728 | 1252064 | 1.23 | cps |
| Selenium | 82-1 | 736 | 589 | 753 | 692 | 13.04 | cps |
| Selenium | 77-2 | 3 | 20 | 17 | 13 | 66.16 | cps |
| Selenium | 78-2 | 483 | 457 | 513 | 484 | 5.85 | cps |
| Silicon | 28-1 | 916788 | 908342 | 898347 | 907826 | 1.02 | cps |
| Silver | 107-1 | 4097 | 3380 | 3220 | 3566 | 13.10 | cps |
| Silver | 109-1 | 3914 | 3347 | 2777 | 3346 | 16.99 | cps |
| Sodium | 23-2 | 629997764 | 645221444 | 644167217 | 639795475 | 1.33 | cps |
| Strontium | 86-1 | 23499 | 23662 | 23011 | 23391 | 1.45 | cps |
| Strontium | 88-1 | 197645 | 199125 | 198791 | 198521 | 0.39 | cps |
| Sulfur | 34-1 | 227928 | 240494 | 250933 | 239785 | 4.80 | cps |
| Terbium | 159-1 | 30448200 | 30115754 | 30216771 | 30260242 | 0.56 | cps |
| Terbium | 159-2 | 20154781 | 20340898 | 20397418 | 20297699 | 0.63 | cps |
| Thallium | 203-1 | 1930 | 1340 | 1060 | 1443 | 30.77 | cps |
| Thallium | 205-1 | 4454 | 3127 | 2840 | 3474 | 24.78 | cps |
| Tin | 118-1 | 9370 | 8719 | 8486 | 8858 | 5.17 | cps |
| Titanium | 47-1 | 4537 | 3720 | 3494 | 3917 | 14.01 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | S08 | Instrumnet Name : | P7 |
| Client Sample ID : | S08 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 13:49:45 | DataFile Name : | 012CALS.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 5898 | 3767 | 3090 | 4252 | 34.46 | cps |
| Vanadium | 51-2 | 2107 | 2167 | 2110 | 2128 | 1.58 | cps |
| Yttrium | 89-1 | 32664724 | 32595507 | 33015836 | 32758689 | 0.69 | cps |
| Yttrium | 89-2 | 8801776 | 8831250 | 8717706 | 8783577 | 0.67 | cps |
| Zinc | 66-2 | 9366 | 9556 | 9273 | 9399 | 1.54 | cps |
| Zirconium | 90-1 | 22751 | 21866 | 22010 | 22209 | 2.14 | cps |
| Zirconium | 91-1 | 5118 | 4898 | 4904 | 4973 | 2.52 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | ICV001 | Instrumnet Name : | P7 |
| Client Sample ID : | ICV001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:01:56 | DataFile Name : | 013ICV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 245077 | 242195 | 242611 | 243294 | 0.64 | cps |
| Antimony | 121-1 | 4214472 | 4248463 | 4327101 | 4263345 | 1.36 | cps |
| Arsenic | 75-2 | 242683 | 242123 | 239106 | 241304 | 0.80 | cps |
| Barium | 135-1 | 508581 | 526644 | 528316 | 521181 | 2.10 | cps |
| Barium | 137-1 | 887125 | 912162 | 918557 | 905948 | 1.83 | cps |
| Beryllium | 9-1 | 224060 | 233572 | 229825 | 229153 | 2.09 | cps |
| Bismuth | 209-1 | 18356933 | 17940381 | 17778047 | 18025120 | 1.66 | cps |
| Bismuth | 209-2 | 14609399 | 14397283 | 14567588 | 14524757 | 0.77 | cps |
| Bromine | 81-1 | 16172 | 16523 | 16586 | 16427 | 1.36 | cps |
| Bromine | 81-2 | 143 | 150 | 153 | 149 | 3.42 | cps |
| Cadmium | 108-1 | 37926 | 38919 | 39330 | 38725 | 1.86 | cps |
| Cadmium | 106-1 | 60043 | 61878 | 63250 | 61724 | 2.61 | cps |
| Cadmium | 111-1 | 581879 | 594263 | 598802 | 591648 | 1.48 | cps |
| Calcium | 43-1 | 119680 | 124673 | 123393 | 122582 | 2.12 | cps |
| Calcium | 44-1 | 1859309 | 1891674 | 1895566 | 1882183 | 1.06 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 971239 | 960922 | 958173 | 963445 | 0.72 | cps |
| Cobalt | 59-2 | 1530851 | 1558433 | 1539765 | 1543016 | 0.91 | cps |
| Copper | 63-2 | 1079323 | 1077019 | 1074989 | 1077110 | 0.20 | cps |
| Dysprosium | 156-1 | 23 | 20 | 30 | 24 | 20.83 | cps |
| Dysprosium | 156-2 | 57 | 43 | 50 | 50 | 13.34 | cps |
| Erbium | 164-1 | 130 | 113 | 117 | 120 | 7.35 | cps |
| Erbium | 164-2 | 137 | 93 | 80 | 103 | 28.67 | cps |
| Gadolinium | 160-1 | 190 | 130 | 117 | 146 | 26.84 | cps |
| Gadolinium | 160-2 | 1337 | 1297 | 1310 | 1315 | 1.55 | cps |
| Holmium | 165-1 | 30156160 | 29551940 | 29593305 | 29767135 | 1.13 | cps |
| Holmium | 165-2 | 21205032 | 21094296 | 20935368 | 21078232 | 0.64 | cps |
| Indium | 115-1 | 26400270 | 25369099 | 25402853 | 25724074 | 2.28 | cps |
| Indium | 115-2 | 9232240 | 9292067 | 9194803 | 9239703 | 0.53 | cps |
| Iron | 56-2 | 17272278 | 17213120 | 17015051 | 17166816 | 0.78 | cps |
| Iron | 57-2 | 444234 | 445362 | 443410 | 444335 | 0.22 | cps |
| Iron | 54-2 | 1008698 | 1005970 | 1008500 | 1007722 | 0.15 | cps |
| Krypton | 83-1 | 250 | 223 | 253 | 242 | 6.79 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | ICV001 | Instrumnet Name : | P7 |
| Client Sample ID : | ICV001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:01:56 | DataFile Name : | 013ICV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 3176402 | 3291292 | 3258203 | 3241966 | 1.82 | cps |
| Lead | 207-1 | 2700139 | 2803598 | 2748085 | 2750607 | 1.88 | cps |
| Lead | 208-1 | 12475167 | 12950722 | 12806703 | 12744197 | 1.91 | cps |
| Lithium | 6-1 | 3167264 | 3166626 | 3116443 | 3150111 | 0.93 | cps |
| Magnesium | 24-2 | 956486 | 955607 | 939104 | 950399 | 1.03 | cps |
| Manganese | 55-2 | 741540 | 739493 | 730269 | 737101 | 0.81 | cps |
| Molybdenum | 94-1 | 1527 | 1690 | 1807 | 1675 | 8.40 | cps |
| Molybdenum | 95-1 | 660 | 587 | 577 | 608 | 7.49 | cps |
| Molybdenum | 96-1 | 1200 | 1137 | 1040 | 1126 | 7.16 | cps |
| Molybdenum | 97-1 | 403 | 407 | 420 | 410 | 2.15 | cps |
| Molybdenum | 98-1 | 1113 | 977 | 1007 | 1032 | 6.96 | cps |
| Neodymium | 150-1 | 50 | 57 | 53 | 53 | 6.25 | cps |
| Neodymium | 150-2 | 10 | 10 | 23 | 14 | 53.28 | cps |
| Nickel | 60-2 | 400234 | 399174 | 398292 | 399233 | 0.24 | cps |
| Phosphorus | 31-2 | 470 | 590 | 473 | 511 | 13.37 | cps |
| Potassium | 39-2 | 2051814 | 2061356 | 2041435 | 2051535 | 0.49 | cps |
| Rhodium | 103-1 | 25169653 | 24325704 | 24327422 | 24607593 | 1.98 | cps |
| Rhodium | 103-2 | 14697622 | 14609651 | 14463746 | 14590340 | 0.81 | cps |
| Scandium | 45-1 | 15039208 | 14394227 | 14279860 | 14571098 | 2.81 | cps |
| Scandium | 45-2 | 1301374 | 1272099 | 1254774 | 1276082 | 1.85 | cps |
| Selenium | 82-1 | 69307 | 70330 | 71298 | 70312 | 1.42 | cps |
| Selenium | 77-2 | 7662 | 7615 | 7759 | 7679 | 0.95 | cps |
| Selenium | 78-2 | 25449 | 25265 | 25345 | 25353 | 0.36 | cps |
| Silicon | 28-1 | 833909 | 832366 | 836533 | 834269 | 0.25 | cps |
| Silver | 107-1 | 1415177 | 1444089 | 1461688 | 1440318 | 1.63 | cps |
| Silver | 109-1 | 1348508 | 1379220 | 1390677 | 1372802 | 1.59 | cps |
| Sodium | 23-2 | 2694735 | 2725296 | 2682842 | 2700958 | 0.81 | cps |
| Strontium | 86-1 | 2490 | 2447 | 2574 | 2504 | 2.57 | cps |
| Strontium | 88-1 | 18288 | 18755 | 18602 | 18548 | 1.28 | cps |
| Sulfur | 34-1 | 296867 | 295840 | 295512 | 296073 | 0.24 | cps |
| Terbium | 159-1 | 31193949 | 30131075 | 29884046 | 30403023 | 2.29 | cps |
| Terbium | 159-2 | 20975824 | 20860064 | 20788561 | 20874816 | 0.45 | cps |
| Thallium | 203-1 | 3924573 | 4020547 | 4098487 | 4014536 | 2.17 | cps |
| Thallium | 205-1 | 9337108 | 9478931 | 9548188 | 9454742 | 1.14 | cps |
| Tin | 118-1 | 7669 | 7599 | 7846 | 7704 | 1.65 | cps |
| Titanium | 47-1 | 400 | 297 | 297 | 331 | 18.02 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | ICV001 | Instrumnet Name : | P7 |
| Client Sample ID : | ICV001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:01:56 | DataFile Name : | 013ICV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 173 | 147 | 163 | 161 | 8.36 | cps |
| Vanadium | 51-2 | 799490 | 799515 | 798789 | 799265 | 0.05 | cps |
| Yttrium | 89-1 | 35619578 | 34141589 | 33877790 | 34546319 | 2.72 | cps |
| Yttrium | 89-2 | 9044855 | 8934148 | 8852475 | 8943826 | 1.08 | cps |
| Zinc | 66-2 | 365296 | 367076 | 362868 | 365080 | 0.58 | cps |
| Zirconium | 90-1 | 3214 | 3520 | 3787 | 3507 | 8.18 | cps |
| Zirconium | 91-1 | 1173 | 1167 | 1230 | 1190 | 2.93 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | ICB001 | Instrumnet Name : | P7 |
| Client Sample ID : | ICB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:05:00 | DataFile Name : | 014CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 523 | 560 | 557 | 547 | 3.71 | cps |
| Antimony | 121-1 | 2054 | 1890 | 2067 | 2003 | 4.91 | cps |
| Arsenic | 75-2 | 23 | 40 | 33 | 32 | 26.04 | cps |
| Barium | 135-1 | 407 | 393 | 337 | 379 | 9.81 | cps |
| Barium | 137-1 | 640 | 650 | 597 | 629 | 4.51 | cps |
| Beryllium | 9-1 | 183 | 172 | 178 | 178 | 3.12 | cps |
| Bismuth | 209-1 | 17510821 | 17456148 | 17737922 | 17568297 | 0.85 | cps |
| Bismuth | 209-2 | 14661866 | 14470188 | 14426275 | 14519443 | 0.86 | cps |
| Bromine | 81-1 | 16489 | 16483 | 16579 | 16517 | 0.33 | cps |
| Bromine | 81-2 | 107 | 147 | 133 | 129 | 15.80 | cps |
| Cadmium | 108-1 | 40 | 47 | 27 | 38 | 26.95 | cps |
| Cadmium | 106-1 | 9723 | 9670 | 9443 | 9612 | 1.55 | cps |
| Cadmium | 111-1 | 6975 | 6823 | 6678 | 6825 | 2.17 | cps |
| Calcium | 43-1 | 6075 | 6491 | 6732 | 6433 | 5.17 | cps |
| Calcium | 44-1 | 116721 | 118824 | 118495 | 118013 | 0.96 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 6431 | 6648 | 6518 | 6533 | 1.67 | cps |
| Cobalt | 59-2 | 360 | 343 | 323 | 342 | 5.36 | cps |
| Copper | 63-2 | 2490 | 2627 | 2444 | 2520 | 3.78 | cps |
| Dysprosium | 156-1 | 20 | 13 | 27 | 20 | 33.35 | cps |
| Dysprosium | 156-2 | 13 | 10 | 7 | 10 | 33.30 | cps |
| Erbium | 164-1 | 130 | 140 | 90 | 120 | 22.05 | cps |
| Erbium | 164-2 | 67 | 63 | 57 | 62 | 8.18 | cps |
| Gadolinium | 160-1 | 163 | 130 | 123 | 139 | 15.43 | cps |
| Gadolinium | 160-2 | 1263 | 1270 | 1240 | 1258 | 1.25 | cps |
| Holmium | 165-1 | 29051630 | 29117455 | 29291100 | 29153395 | 0.42 | cps |
| Holmium | 165-2 | 21248077 | 20935558 | 20960226 | 21047954 | 0.83 | cps |
| Indium | 115-1 | 24944656 | 25268531 | 25495557 | 25236248 | 1.10 | cps |
| Indium | 115-2 | 9186914 | 9145858 | 9156927 | 9163233 | 0.23 | cps |
| Iron | 56-2 | 44158 | 49552 | 44078 | 45929 | 6.83 | cps |
| Iron | 57-2 | 1930 | 2077 | 1900 | 1969 | 4.80 | cps |
| Iron | 54-2 | 5444 | 5544 | 5468 | 5485 | 0.95 | cps |
| Krypton | 83-1 | 263 | 303 | 317 | 294 | 9.43 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | ICB001 | Instrumnet Name : | P7 |
| Client Sample ID : | ICB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:05:00 | DataFile Name : | 014CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 3164 | 2727 | 2834 | 2908 | 7.83 | cps |
| Lead | 207-1 | 2520 | 2474 | 2134 | 2376 | 8.89 | cps |
| Lead | 208-1 | 12292 | 10952 | 10318 | 11188 | 9.01 | cps |
| Lithium | 6-1 | 3093749 | 3163704 | 3190315 | 3149256 | 1.58 | cps |
| Magnesium | 24-2 | 4447 | 4461 | 4571 | 4493 | 1.51 | cps |
| Manganese | 55-2 | 13546 | 13563 | 13313 | 13474 | 1.04 | cps |
| Molybdenum | 94-1 | 920 | 910 | 873 | 901 | 2.73 | cps |
| Molybdenum | 95-1 | 237 | 253 | 303 | 264 | 13.12 | cps |
| Molybdenum | 96-1 | 437 | 437 | 533 | 469 | 11.90 | cps |
| Molybdenum | 97-1 | 140 | 143 | 250 | 178 | 35.20 | cps |
| Molybdenum | 98-1 | 423 | 413 | 400 | 412 | 2.84 | cps |
| Neodymium | 150-1 | 13 | 23 | 27 | 21 | 32.88 | cps |
| Neodymium | 150-2 | 17 | 10 | 13 | 13 | 25.01 | cps |
| Nickel | 60-2 | 1033 | 1043 | 1163 | 1080 | 6.70 | cps |
| Phosphorus | 31-2 | 487 | 570 | 513 | 523 | 8.13 | cps |
| Potassium | 39-2 | 81091 | 81423 | 80551 | 81022 | 0.54 | cps |
| Rhodium | 103-1 | 24042440 | 24367408 | 24379988 | 24263279 | 0.79 | cps |
| Rhodium | 103-2 | 14825279 | 14578070 | 14708149 | 14703833 | 0.84 | cps |
| Scandium | 45-1 | 14059616 | 14306220 | 14223453 | 14196430 | 0.88 | cps |
| Scandium | 45-2 | 1281198 | 1263902 | 1281873 | 1275657 | 0.80 | cps |
| Selenium | 82-1 | 412 | 350 | 339 | 367 | 10.75 | cps |
| Selenium | 77-2 | 7 | 0 | 0 | 2 | 173.21 | cps |
| Selenium | 78-2 | 493 | 460 | 437 | 463 | 6.15 | cps |
| Silicon | 28-1 | 823384 | 823748 | 828912 | 825348 | 0.37 | cps |
| Silver | 107-1 | 633 | 447 | 387 | 489 | 26.31 | cps |
| Silver | 109-1 | 543 | 367 | 373 | 428 | 23.41 | cps |
| Sodium | 23-2 | 74760 | 75229 | 74633 | 74874 | 0.42 | cps |
| Strontium | 86-1 | 833 | 757 | 803 | 798 | 4.84 | cps |
| Strontium | 88-1 | 3490 | 3437 | 3804 | 3577 | 5.54 | cps |
| Sulfur | 34-1 | 295221 | 297682 | 298113 | 297005 | 0.53 | cps |
| Terbium | 159-1 | 30039126 | 30352607 | 30244020 | 30211918 | 0.53 | cps |
| Terbium | 159-2 | 20892867 | 20782196 | 20436755 | 20703939 | 1.15 | cps |
| Thallium | 203-1 | 977 | 650 | 727 | 784 | 21.78 | cps |
| Thallium | 205-1 | 2267 | 1520 | 1477 | 1755 | 25.32 | cps |
| Tin | 118-1 | 7652 | 7956 | 7585 | 7731 | 2.55 | cps |
| Titanium | 47-1 | 190 | 227 | 210 | 209 | 8.79 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | ICB001 | Instrumnet Name : | P7 |
| Client Sample ID : | ICB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:05:00 | DataFile Name : | 014CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 80 | 63 | 90 | 78 | 17.32 | cps |
| Vanadium | 51-2 | 53 | 43 | 63 | 53 | 18.75 | cps |
| Yttrium | 89-1 | 33615846 | 34187429 | 33886837 | 33896704 | 0.84 | cps |
| Yttrium | 89-2 | 8936365 | 8962644 | 8970371 | 8956460 | 0.20 | cps |
| Zinc | 66-2 | 13276 | 13790 | 13550 | 13538 | 1.90 | cps |
| Zirconium | 90-1 | 2137 | 2124 | 2327 | 2196 | 5.18 | cps |
| Zirconium | 91-1 | 467 | 473 | 473 | 471 | 0.82 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | ICSA001 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSA001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:08:17 | DataFile Name : | 015ICSA.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 45402073 | 45412749 | 45131846 | 45315556 | 0.35 | cps |
| Antimony | 121-1 | 23770 | 24488 | 25459 | 24572 | 3.45 | cps |
| Arsenic | 75-2 | 417 | 420 | 430 | 422 | 1.64 | cps |
| Barium | 135-1 | 7812 | 7766 | 7816 | 7798 | 0.36 | cps |
| Barium | 137-1 | 13059 | 13643 | 13667 | 13456 | 2.56 | cps |
| Beryllium | 9-1 | 744 | 683 | 728 | 719 | 4.40 | cps |
| Bismuth | 209-1 | 16601711 | 16888834 | 17046339 | 16845628 | 1.34 | cps |
| Bismuth | 209-2 | 13570756 | 13669966 | 13764370 | 13668364 | 0.71 | cps |
| Bromine | 81-1 | 16906 | 17731 | 17567 | 17401 | 2.51 | cps |
| Bromine | 81-2 | 320 | 273 | 280 | 291 | 8.67 | cps |
| Cadmium | 108-1 | 4094 | 4201 | 4071 | 4122 | 1.68 | cps |
| Cadmium | 106-1 | 9006 | 8849 | 8943 | 8933 | 0.88 | cps |
| Cadmium | 111-1 | 8423 | 8375 | 8675 | 8491 | 1.90 | cps |
| Calcium | 43-1 | 5393879 | 5505685 | 5524623 | 5474729 | 1.29 | cps |
| Calcium | 44-1 | 87299049 | 88762145 | 88913139 | 88324778 | 1.01 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 190193 | 191195 | 190318 | 190569 | 0.29 | cps |
| Cobalt | 59-2 | 17831 | 18131 | 18168 | 18043 | 1.03 | cps |
| Copper | 63-2 | 79158 | 79366 | 79805 | 79443 | 0.42 | cps |
| Dysprosium | 156-1 | 103 | 133 | 77 | 104 | 27.14 | cps |
| Dysprosium | 156-2 | 63 | 100 | 90 | 84 | 22.45 | cps |
| Erbium | 164-1 | 193 | 183 | 203 | 193 | 5.17 | cps |
| Erbium | 164-2 | 133 | 90 | 143 | 122 | 23.20 | cps |
| Gadolinium | 160-1 | 217 | 213 | 240 | 223 | 6.51 | cps |
| Gadolinium | 160-2 | 1207 | 1300 | 1267 | 1258 | 3.76 | cps |
| Holmium | 165-1 | 29870882 | 29889870 | 30338477 | 30033076 | 0.88 | cps |
| Holmium | 165-2 | 20886738 | 21224763 | 21175466 | 21095656 | 0.87 | cps |
| Indium | 115-1 | 23745976 | 24566259 | 24890275 | 24400837 | 2.42 | cps |
| Indium | 115-2 | 8743541 | 8871053 | 8915593 | 8843396 | 1.01 | cps |
| Iron | 56-2 | 837784548 | 836140148 | 836591801 | 836838832 | 0.10 | cps |
| Iron | 57-2 | 20844104 | 20672010 | 20961102 | 20825739 | 0.70 | cps |
| Iron | 54-2 | 44992948 | 45543446 | 46128568 | 45554987 | 1.25 | cps |
| Krypton | 83-1 | 250 | 320 | 273 | 281 | 12.68 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | ICSA001 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSA001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:08:17 | DataFile Name : | 015ICSA.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 76547 | 75280 | 76316 | 76048 | 0.89 | cps |
| Lead | 207-1 | 61354 | 60641 | 59285 | 60427 | 1.74 | cps |
| Lead | 208-1 | 287714 | 284174 | 283115 | 285001 | 0.85 | cps |
| Lithium | 6-1 | 2836515 | 2803616 | 2772675 | 2804269 | 1.14 | cps |
| Magnesium | 24-2 | 78588781 | 79481184 | 79144900 | 79071622 | 0.57 | cps |
| Manganese | 55-2 | 67427 | 67748 | 68073 | 67749 | 0.48 | cps |
| Molybdenum | 94-1 | 11862406 | 12206091 | 12295236 | 12121244 | 1.89 | cps |
| Molybdenum | 95-1 | 21316161 | 21671841 | 21826711 | 21604904 | 1.21 | cps |
| Molybdenum | 96-1 | 22718015 | 23527078 | 23718162 | 23321085 | 2.28 | cps |
| Molybdenum | 97-1 | 13155301 | 13410426 | 13652059 | 13405929 | 1.85 | cps |
| Molybdenum | 98-1 | 33815895 | 34355079 | 35255992 | 34475655 | 2.11 | cps |
| Neodymium | 150-1 | 97 | 100 | 110 | 102 | 6.79 | cps |
| Neodymium | 150-2 | 50 | 80 | 47 | 59 | 31.17 | cps |
| Nickel | 60-2 | 21389 | 21509 | 20971 | 21290 | 1.32 | cps |
| Phosphorus | 31-2 | 2346614 | 2408104 | 2349851 | 2368190 | 1.46 | cps |
| Potassium | 39-2 | 95391452 | 96317642 | 96291049 | 96000047 | 0.55 | cps |
| Rhodium | 103-1 | 22213303 | 22213882 | 22795410 | 22407532 | 1.50 | cps |
| Rhodium | 103-2 | 13608797 | 13720435 | 13829443 | 13719558 | 0.80 | cps |
| Scandium | 45-1 | 13460292 | 13492049 | 13683942 | 13545428 | 0.89 | cps |
| Scandium | 45-2 | 1235153 | 1234338 | 1236710 | 1235401 | 0.10 | cps |
| Selenium | 82-1 | 488 | 349 | 341 | 393 | 21.03 | cps |
| Selenium | 77-2 | 3 | 7 | 7 | 6 | 34.70 | cps |
| Selenium | 78-2 | 513 | 527 | 507 | 516 | 1.98 | cps |
| Silicon | 28-1 | 1161292 | 1177404 | 1189999 | 1176232 | 1.22 | cps |
| Silver | 107-1 | 897 | 1000 | 960 | 952 | 5.47 | cps |
| Silver | 109-1 | 803 | 803 | 823 | 810 | 1.43 | cps |
| Sodium | 23-2 | 127133358 | 128572621 | 128292455 | 127999478 | 0.60 | cps |
| Strontium | 86-1 | 231028 | 237458 | 238941 | 235809 | 1.78 | cps |
| Strontium | 88-1 | 2027939 | 2046567 | 2117575 | 2064027 | 2.29 | cps |
| Sulfur | 34-1 | 8035391 | 8143659 | 8077229 | 8085426 | 0.68 | cps |
| Terbium | 159-1 | 30614715 | 30730550 | 31160655 | 30835307 | 0.93 | cps |
| Terbium | 159-2 | 20690808 | 20937200 | 20923136 | 20850381 | 0.66 | cps |
| Thallium | 203-1 | 1877 | 2270 | 2580 | 2242 | 15.72 | cps |
| Thallium | 205-1 | 5014 | 5478 | 5765 | 5419 | 6.99 | cps |
| Tin | 118-1 | 10617 | 11151 | 11101 | 10956 | 2.69 | cps |
| Titanium | 47-1 | 5184184 | 5323371 | 5373242 | 5293599 | 1.85 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | ICSA001 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSA001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:08:17 | DataFile Name : | 015ICSA.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 1123 | 1147 | 967 | 1079 | 9.07 | cps |
| Vanadium | 51-2 | 1407 | 1577 | 1550 | 1511 | 6.05 | cps |
| Yttrium | 89-1 | 32767427 | 32814525 | 33863574 | 33148508 | 1.87 | cps |
| Yttrium | 89-2 | 8844438 | 8831560 | 8773704 | 8816567 | 0.43 | cps |
| Zinc | 66-2 | 30535 | 30762 | 30481 | 30593 | 0.49 | cps |
| Zirconium | 90-1 | 2430 | 2500 | 2974 | 2635 | 11.22 | cps |
| Zirconium | 91-1 | 513 | 560 | 610 | 561 | 8.62 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB001 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSAB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:11:18 | DataFile Name : | 016ICSB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 45711581 | 46358479 | 46280803 | 46116954 | 0.77 | cps |
| Antimony | 121-1 | 465975 | 476187 | 483057 | 475073 | 1.81 | cps |
| Arsenic | 75-2 | 24377 | 24270 | 23986 | 24211 | 0.83 | cps |
| Barium | 135-1 | 115726 | 116885 | 118538 | 117049 | 1.21 | cps |
| Barium | 137-1 | 199330 | 206372 | 205482 | 203728 | 1.88 | cps |
| Beryllium | 9-1 | 40420 | 41494 | 40726 | 40880 | 1.35 | cps |
| Bismuth | 209-1 | 17505681 | 17646932 | 17750721 | 17634445 | 0.70 | cps |
| Bismuth | 209-2 | 13977943 | 13717356 | 13979441 | 13891580 | 1.09 | cps |
| Bromine | 81-1 | 19543 | 19864 | 19613 | 19673 | 0.86 | cps |
| Bromine | 81-2 | 593 | 707 | 657 | 652 | 8.71 | cps |
| Cadmium | 108-1 | 10991 | 11461 | 11325 | 11259 | 2.15 | cps |
| Cadmium | 106-1 | 19670 | 19670 | 19413 | 19584 | 0.76 | cps |
| Cadmium | 111-1 | 122274 | 124367 | 125378 | 124006 | 1.28 | cps |
| Calcium | 43-1 | 5551869 | 5689705 | 5693703 | 5645092 | 1.43 | cps |
| Calcium | 44-1 | 89495359 | 91302412 | 91475799 | 90757856 | 1.21 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 378892 | 377361 | 377577 | 377944 | 0.22 | cps |
| Cobalt | 59-2 | 315659 | 309372 | 310929 | 311987 | 1.05 | cps |
| Copper | 63-2 | 282437 | 284229 | 283174 | 283280 | 0.32 | cps |
| Dysprosium | 156-1 | 100 | 117 | 107 | 108 | 7.78 | cps |
| Dysprosium | 156-2 | 63 | 70 | 60 | 64 | 7.90 | cps |
| Erbium | 164-1 | 220 | 220 | 210 | 217 | 2.66 | cps |
| Erbium | 164-2 | 140 | 103 | 170 | 138 | 24.24 | cps |
| Gadolinium | 160-1 | 237 | 217 | 227 | 227 | 4.41 | cps |
| Gadolinium | 160-2 | 1300 | 1163 | 1287 | 1250 | 6.03 | cps |
| Holmium | 165-1 | 31152583 | 31590689 | 31537101 | 31426791 | 0.76 | cps |
| Holmium | 165-2 | 21554610 | 21373817 | 21294209 | 21407545 | 0.62 | cps |
| Indium | 115-1 | 25445498 | 25560572 | 25883210 | 25629760 | 0.89 | cps |
| Indium | 115-2 | 9117223 | 8997757 | 9014651 | 9043210 | 0.71 | cps |
| Iron | 56-2 | 850126121 | 844598494 | 846759667 | 847161427 | 0.33 | cps |
| Iron | 57-2 | 21206492 | 21007151 | 21112296 | 21108646 | 0.47 | cps |
| Iron | 54-2 | 45891553 | 46479563 | 46328919 | 46233345 | 0.66 | cps |
| Krypton | 83-1 | 323 | 293 | 303 | 307 | 4.98 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB001 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSAB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:11:18 | DataFile Name : | 016ICSB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 405378 | 415066 | 424675 | 415040 | 2.32 | cps |
| Lead | 207-1 | 343334 | 347308 | 353203 | 347948 | 1.43 | cps |
| Lead | 208-1 | 1579681 | 1615752 | 1640637 | 1612024 | 1.90 | cps |
| Lithium | 6-1 | 2730100 | 2700935 | 2710047 | 2713694 | 0.55 | cps |
| Magnesium | 24-2 | 79470939 | 81631690 | 80058159 | 80386929 | 1.39 | cps |
| Manganese | 55-2 | 208758 | 208595 | 207707 | 208353 | 0.27 | cps |
| Molybdenum | 94-1 | 12531935 | 12794457 | 12880240 | 12735544 | 1.42 | cps |
| Molybdenum | 95-1 | 22215137 | 22525596 | 22672729 | 22471154 | 1.04 | cps |
| Molybdenum | 96-1 | 23859552 | 24517427 | 24454109 | 24277029 | 1.49 | cps |
| Molybdenum | 97-1 | 13635484 | 13995087 | 14077376 | 13902649 | 1.69 | cps |
| Molybdenum | 98-1 | 35222561 | 35921769 | 36102556 | 35748962 | 1.30 | cps |
| Neodymium | 150-1 | 103 | 110 | 127 | 113 | 10.60 | cps |
| Neodymium | 150-2 | 103 | 80 | 23 | 69 | 59.72 | cps |
| Nickel | 60-2 | 94116 | 94803 | 95642 | 94854 | 0.81 | cps |
| Phosphorus | 31-2 | 2393664 | 2418081 | 2414498 | 2408748 | 0.55 | cps |
| Potassium | 39-2 | 98922822 | 97962539 | 98125112 | 98336824 | 0.52 | cps |
| Rhodium | 103-1 | 23120310 | 23619412 | 23774755 | 23504826 | 1.45 | cps |
| Rhodium | 103-2 | 14137884 | 13922624 | 14155060 | 14071856 | 0.92 | cps |
| Scandium | 45-1 | 14010146 | 13945668 | 13995754 | 13983856 | 0.24 | cps |
| Scandium | 45-2 | 1261436 | 1242160 | 1270982 | 1258193 | 1.17 | cps |
| Selenium | 82-1 | 7256 | 7309 | 7242 | 7269 | 0.48 | cps |
| Selenium | 77-2 | 690 | 767 | 750 | 736 | 5.48 | cps |
| Selenium | 78-2 | 2770 | 2707 | 2927 | 2801 | 4.04 | cps |
| Silicon | 28-1 | 1212148 | 1209655 | 1193288 | 1205030 | 0.85 | cps |
| Silver | 107-1 | 547186 | 561115 | 565505 | 557935 | 1.71 | cps |
| Silver | 109-1 | 521187 | 531840 | 540549 | 531192 | 1.83 | cps |
| Sodium | 23-2 | 129774268 | 130199641 | 131186041 | 130386650 | 0.56 | cps |
| Strontium | 86-1 | 240157 | 246343 | 249586 | 245362 | 1.95 | cps |
| Strontium | 88-1 | 2091560 | 2145791 | 2134996 | 2124116 | 1.35 | cps |
| Sulfur | 34-1 | 7930764 | 7983359 | 8176148 | 8030090 | 1.61 | cps |
| Terbium | 159-1 | 31978940 | 32341748 | 32245404 | 32188697 | 0.58 | cps |
| Terbium | 159-2 | 21268219 | 21311125 | 21333131 | 21304158 | 0.15 | cps |
| Thallium | 203-1 | 419578 | 429371 | 439158 | 429369 | 2.28 | cps |
| Thallium | 205-1 | 1006487 | 1025298 | 1041390 | 1024392 | 1.71 | cps |
| Tin | 118-1 | 9974 | 10054 | 10264 | 10097 | 1.48 | cps |
| Titanium | 47-1 | 5371231 | 5488754 | 5459624 | 5439870 | 1.13 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | ICSAB001 | Instrumnet Name : | P7 |
| Client Sample ID : | ICSAB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:11:18 | DataFile Name : | 016ICSB.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 1163 | 1087 | 1090 | 1113 | 3.89 | cps |
| Vanadium | 51-2 | 159506 | 160874 | 158637 | 159672 | 0.71 | cps |
| Yttrium | 89-1 | 34661915 | 35141014 | 35385935 | 35062955 | 1.05 | cps |
| Yttrium | 89-2 | 9086751 | 9052680 | 8975115 | 9038182 | 0.63 | cps |
| Zinc | 66-2 | 64703 | 65017 | 64662 | 64794 | 0.30 | cps |
| Zirconium | 90-1 | 2527 | 2437 | 2604 | 2522 | 3.31 | cps |
| Zirconium | 91-1 | 463 | 597 | 597 | 552 | 13.94 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCV001 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:14:21 | DataFile Name : | 017CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 25019603 | 25048475 | 24919904 | 24995994 | 0.27 | cps |
| Antimony | 121-1 | 11326854 | 11702942 | 11720046 | 11583281 | 1.92 | cps |
| Arsenic | 75-2 | 624179 | 621173 | 613625 | 619659 | 0.88 | cps |
| Barium | 135-1 | 13866323 | 13967679 | 14147139 | 13993714 | 1.02 | cps |
| Barium | 137-1 | 23590172 | 24335536 | 24339738 | 24088482 | 1.79 | cps |
| Beryllium | 9-1 | 1049489 | 1093164 | 1073621 | 1072091 | 2.04 | cps |
| Bismuth | 209-1 | 17690387 | 17788037 | 17823875 | 17767433 | 0.39 | cps |
| Bismuth | 209-2 | 13714504 | 13781019 | 13745868 | 13747131 | 0.24 | cps |
| Bromine | 81-1 | 17180 | 16429 | 16686 | 16765 | 2.28 | cps |
| Bromine | 81-2 | 197 | 187 | 133 | 172 | 19.77 | cps |
| Cadmium | 108-1 | 222840 | 227523 | 226318 | 225560 | 1.08 | cps |
| Cadmium | 106-1 | 321420 | 330018 | 326924 | 326121 | 1.34 | cps |
| Cadmium | 111-1 | 3001842 | 3108300 | 3109323 | 3073155 | 2.01 | cps |
| Calcium | 43-1 | 13966232 | 14500001 | 14468351 | 14311528 | 2.09 | cps |
| Calcium | 44-1 | 225011177 | 235861356 | 233327717 | 231400083 | 2.45 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 4686302 | 4792905 | 4691055 | 4723421 | 1.27 | cps |
| Cobalt | 59-2 | 7694908 | 7602705 | 7595530 | 7631048 | 0.73 | cps |
| Copper | 63-2 | 55498129 | 54317053 | 53933638 | 54582940 | 1.49 | cps |
| Dysprosium | 156-1 | 567 | 610 | 637 | 604 | 5.84 | cps |
| Dysprosium | 156-2 | 1010 | 1053 | 1060 | 1041 | 2.61 | cps |
| Erbium | 164-1 | 763 | 717 | 687 | 722 | 5.35 | cps |
| Erbium | 164-2 | 493 | 470 | 457 | 473 | 3.92 | cps |
| Gadolinium | 160-1 | 640 | 577 | 587 | 601 | 5.66 | cps |
| Gadolinium | 160-2 | 1747 | 1550 | 1513 | 1603 | 7.83 | cps |
| Holmium | 165-1 | 32095935 | 32049364 | 32229890 | 32125063 | 0.29 | cps |
| Holmium | 165-2 | 21786683 | 21670704 | 21803745 | 21753711 | 0.33 | cps |
| Indium | 115-1 | 25772201 | 25800882 | 25692968 | 25755350 | 0.22 | cps |
| Indium | 115-2 | 8960367 | 9022743 | 8896780 | 8959963 | 0.70 | cps |
| Iron | 56-2 | 1058702944 | 1061256304 | 1058083691 | 1059347646 | 0.16 | cps |
| Iron | 57-2 | 26518850 | 26291170 | 26454569 | 26421529 | 0.44 | cps |
| Iron | 54-2 | 58116642 | 57819519 | 57936549 | 57957570 | 0.26 | cps |
| Krypton | 83-1 | 373 | 327 | 343 | 348 | 6.80 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCV001 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:14:21 | DataFile Name : | 017CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 39539030 | 40547449 | 41115944 | 40400807 | 1.98 | cps |
| Lead | 207-1 | 35067401 | 35876364 | 36234018 | 35725928 | 1.67 | cps |
| Lead | 208-1 | 158329630 | 162941304 | 164568220 | 161946385 | 2.00 | cps |
| Lithium | 6-1 | 2781722 | 2844686 | 2840649 | 2822353 | 1.25 | cps |
| Magnesium | 24-2 | 216512830 | 214395390 | 215552510 | 215486910 | 0.49 | cps |
| Manganese | 55-2 | 36220665 | 36252492 | 36187113 | 36220090 | 0.09 | cps |
| Molybdenum | 94-1 | 40284349 | 41708179 | 41447339 | 41146622 | 1.84 | cps |
| Molybdenum | 95-1 | 58706832 | 60557187 | 60191701 | 59818574 | 1.64 | cps |
| Molybdenum | 96-1 | 64397127 | 66449081 | 66570732 | 65805647 | 1.86 | cps |
| Molybdenum | 97-1 | 36326514 | 37655968 | 37473404 | 37151962 | 1.94 | cps |
| Molybdenum | 98-1 | 93911329 | 96771889 | 96634465 | 95772561 | 1.68 | cps |
| Neodymium | 150-1 | 897 | 910 | 937 | 914 | 2.23 | cps |
| Neodymium | 150-2 | 267 | 263 | 287 | 272 | 4.64 | cps |
| Nickel | 60-2 | 1965974 | 1903432 | 1920897 | 1930101 | 1.67 | cps |
| Phosphorus | 31-2 | 246328 | 246200 | 243622 | 245383 | 0.62 | cps |
| Potassium | 39-2 | 125288701 | 126023778 | 124610335 | 125307605 | 0.56 | cps |
| Rhodium | 103-1 | 23374414 | 23775615 | 23187435 | 23445822 | 1.28 | cps |
| Rhodium | 103-2 | 13794914 | 13856742 | 13739682 | 13797113 | 0.42 | cps |
| Scandium | 45-1 | 14318664 | 14332118 | 14477527 | 14376103 | 0.61 | cps |
| Scandium | 45-2 | 1273583 | 1292777 | 1280862 | 1282408 | 0.76 | cps |
| Selenium | 82-1 | 177796 | 182939 | 182269 | 181001 | 1.54 | cps |
| Selenium | 77-2 | 18245 | 18582 | 18632 | 18486 | 1.14 | cps |
| Selenium | 78-2 | 62130 | 61611 | 60798 | 61513 | 1.09 | cps |
| Silicon | 28-1 | 29462415 | 30424223 | 30459964 | 30115534 | 1.88 | cps |
| Silver | 107-1 | 14671182 | 14828256 | 14760544 | 14753327 | 0.53 | cps |
| Silver | 109-1 | 13983686 | 14153906 | 14063594 | 14067062 | 0.61 | cps |
| Sodium | 23-2 | 333002795 | 335556608 | 335636088 | 334731831 | 0.45 | cps |
| Strontium | 86-1 | 3610366 | 3740607 | 3736128 | 3695700 | 2.00 | cps |
| Strontium | 88-1 | 31226328 | 32172370 | 32114527 | 31837741 | 1.67 | cps |
| Sulfur | 34-1 | 1005738 | 1021590 | 1021179 | 1016169 | 0.89 | cps |
| Terbium | 159-1 | 32773320 | 32789185 | 32689349 | 32750618 | 0.16 | cps |
| Terbium | 159-2 | 21381746 | 21514968 | 21239396 | 21378703 | 0.64 | cps |
| Thallium | 203-1 | 10104152 | 10151296 | 10371790 | 10209080 | 1.40 | cps |
| Thallium | 205-1 | 23917409 | 24582519 | 24739368 | 24413099 | 1.79 | cps |
| Tin | 118-1 | 9396304 | 9600450 | 9645206 | 9547320 | 1.39 | cps |
| Titanium | 47-1 | 13553307 | 14189606 | 14066869 | 13936594 | 2.42 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCV001 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:14:21 | DataFile Name : | 017CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 31435491 | 32634410 | 32232172 | 32100691 | 1.90 | cps |
| Vanadium | 51-2 | 4111468 | 4157417 | 4137681 | 4135522 | 0.56 | cps |
| Yttrium | 89-1 | 35272524 | 35777346 | 35697646 | 35582505 | 0.76 | cps |
| Yttrium | 89-2 | 9136668 | 9126234 | 8957721 | 9073541 | 1.11 | cps |
| Zinc | 66-2 | 9057579 | 8892042 | 8862090 | 8937237 | 1.18 | cps |
| Zirconium | 90-1 | 19535201 | 20368916 | 20297335 | 20067150 | 2.30 | cps |
| Zirconium | 91-1 | 4329736 | 4490655 | 4485786 | 4435392 | 2.06 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCB001 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:17:01 | DataFile Name : | 018CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1137 | 947 | 977 | 1020 | 10.01 | cps |
| Antimony | 121-1 | 5321 | 5204 | 6268 | 5598 | 10.42 | cps |
| Arsenic | 75-2 | 43 | 63 | 57 | 54 | 18.71 | cps |
| Barium | 135-1 | 3094 | 1313 | 960 | 1789 | 63.92 | cps |
| Barium | 137-1 | 5531 | 2594 | 1740 | 3288 | 60.48 | cps |
| Beryllium | 9-1 | 422 | 283 | 144 | 283 | 49.02 | cps |
| Bismuth | 209-1 | 18568820 | 18751133 | 19196593 | 18838849 | 1.71 | cps |
| Bismuth | 209-2 | 15034048 | 15213967 | 14597703 | 14948573 | 2.12 | cps |
| Bromine | 81-1 | 16322 | 15985 | 16586 | 16298 | 1.85 | cps |
| Bromine | 81-2 | 133 | 130 | 200 | 154 | 25.57 | cps |
| Cadmium | 108-1 | 90 | 60 | 47 | 66 | 33.85 | cps |
| Cadmium | 106-1 | 9660 | 9640 | 9497 | 9599 | 0.93 | cps |
| Cadmium | 111-1 | 7489 | 7106 | 6862 | 7152 | 4.42 | cps |
| Calcium | 43-1 | 9366 | 7208 | 6975 | 7850 | 16.80 | cps |
| Calcium | 44-1 | 164870 | 135388 | 126845 | 142368 | 14.01 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 6665 | 6645 | 6598 | 6636 | 0.52 | cps |
| Cobalt | 59-2 | 517 | 437 | 330 | 428 | 21.89 | cps |
| Copper | 63-2 | 3984 | 3997 | 3821 | 3934 | 2.50 | cps |
| Dysprosium | 156-1 | 10 | 17 | 33 | 20 | 60.08 | cps |
| Dysprosium | 156-2 | 20 | 20 | 13 | 18 | 21.66 | cps |
| Erbium | 164-1 | 157 | 120 | 167 | 148 | 16.63 | cps |
| Erbium | 164-2 | 83 | 60 | 90 | 78 | 20.25 | cps |
| Gadolinium | 160-1 | 167 | 100 | 173 | 147 | 27.65 | cps |
| Gadolinium | 160-2 | 1277 | 1307 | 1280 | 1288 | 1.28 | cps |
| Holmium | 165-1 | 30597296 | 31442170 | 31577152 | 31205540 | 1.70 | cps |
| Holmium | 165-2 | 21541610 | 21503312 | 20915904 | 21320275 | 1.65 | cps |
| Indium | 115-1 | 25999853 | 26796585 | 26708281 | 26501573 | 1.65 | cps |
| Indium | 115-2 | 9398464 | 9379841 | 9028981 | 9269095 | 2.25 | cps |
| Iron | 56-2 | 70996 | 66694 | 63868 | 67186 | 5.34 | cps |
| Iron | 57-2 | 2614 | 2257 | 2464 | 2445 | 7.33 | cps |
| Iron | 54-2 | 6795 | 6582 | 6658 | 6678 | 1.62 | cps |
| Krypton | 83-1 | 280 | 263 | 290 | 278 | 4.85 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCB001 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:17:01 | DataFile Name : | 018CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 11198 | 6138 | 4678 | 7338 | 46.63 | cps |
| Lead | 207-1 | 9437 | 5328 | 4051 | 6272 | 44.87 | cps |
| Lead | 208-1 | 44420 | 24345 | 18672 | 29146 | 46.42 | cps |
| Lithium | 6-1 | 2909338 | 2948633 | 2991760 | 2949911 | 1.40 | cps |
| Magnesium | 24-2 | 8546 | 7999 | 7012 | 7852 | 9.90 | cps |
| Manganese | 55-2 | 14374 | 14160 | 13816 | 14117 | 1.99 | cps |
| Molybdenum | 94-1 | 10324 | 5454 | 4417 | 6732 | 46.85 | cps |
| Molybdenum | 95-1 | 13140 | 6155 | 4324 | 7873 | 59.09 | cps |
| Molybdenum | 96-1 | 14855 | 6845 | 5208 | 8969 | 57.56 | cps |
| Molybdenum | 97-1 | 8379 | 3831 | 2887 | 5032 | 58.36 | cps |
| Molybdenum | 98-1 | 21226 | 10347 | 6982 | 12852 | 57.93 | cps |
| Neodymium | 150-1 | 7 | 13 | 23 | 14 | 58.06 | cps |
| Neodymium | 150-2 | 13 | 23 | 17 | 18 | 28.64 | cps |
| Nickel | 60-2 | 1190 | 1117 | 1103 | 1137 | 4.11 | cps |
| Phosphorus | 31-2 | 500 | 533 | 537 | 523 | 3.87 | cps |
| Potassium | 39-2 | 92227 | 91030 | 91848 | 91702 | 0.67 | cps |
| Rhodium | 103-1 | 24525330 | 25026399 | 25105245 | 24885658 | 1.26 | cps |
| Rhodium | 103-2 | 15205181 | 15115649 | 14444799 | 14921876 | 2.79 | cps |
| Scandium | 45-1 | 13790014 | 13917261 | 13994857 | 13900711 | 0.74 | cps |
| Scandium | 45-2 | 1292423 | 1265483 | 1215726 | 1257878 | 3.09 | cps |
| Selenium | 82-1 | 477 | 427 | 427 | 444 | 6.48 | cps |
| Selenium | 77-2 | 0 | 0 | 7 | 2 | 173.21 | cps |
| Selenium | 78-2 | 523 | 513 | 473 | 503 | 5.26 | cps |
| Silicon | 28-1 | 823522 | 825010 | 819958 | 822830 | 0.32 | cps |
| Silver | 107-1 | 3287 | 1567 | 1263 | 2039 | 53.52 | cps |
| Silver | 109-1 | 3314 | 1537 | 1057 | 1969 | 60.38 | cps |
| Sodium | 23-2 | 88908 | 87383 | 87215 | 87835 | 1.06 | cps |
| Strontium | 86-1 | 1527 | 1123 | 1023 | 1225 | 21.76 | cps |
| Strontium | 88-1 | 9807 | 6095 | 5031 | 6977 | 35.93 | cps |
| Sulfur | 34-1 | 249522 | 251825 | 251060 | 250802 | 0.47 | cps |
| Terbium | 159-1 | 31397751 | 32020475 | 31910330 | 31776185 | 1.05 | cps |
| Terbium | 159-2 | 21763858 | 21417385 | 20776450 | 21319231 | 2.35 | cps |
| Thallium | 203-1 | 3374 | 2524 | 2057 | 2651 | 25.18 | cps |
| Thallium | 205-1 | 8066 | 5411 | 4668 | 6048 | 29.54 | cps |
| Tin | 118-1 | 10267 | 9336 | 8933 | 9512 | 7.19 | cps |
| Titanium | 47-1 | 3067 | 1433 | 923 | 1808 | 61.94 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCB001 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB001 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:17:01 | DataFile Name : | 018CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 6578 | 2744 | 1583 | 3635 | 71.91 | cps |
| Vanadium | 51-2 | 153 | 87 | 110 | 117 | 29.00 | cps |
| Yttrium | 89-1 | 34336742 | 34760850 | 35176292 | 34757961 | 1.21 | cps |
| Yttrium | 89-2 | 9175336 | 9134598 | 8732264 | 9014066 | 2.72 | cps |
| Zinc | 66-2 | 13409 | 13456 | 13786 | 13551 | 1.52 | cps |
| Zirconium | 90-1 | 8232 | 5921 | 5905 | 6686 | 20.03 | cps |
| Zirconium | 91-1 | 1760 | 1277 | 1347 | 1461 | 17.88 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | PB165157BL | Instrumnet Name : | P7 |
| Client Sample ID : | PBW157 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:20:18 | DataFile Name : | 019CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 690 | 723 | 740 | 718 | 3.55 | cps |
| Antimony | 121-1 | 993 | 1190 | 1603 | 1262 | 24.67 | cps |
| Arsenic | 75-2 | 13 | 23 | 17 | 18 | 28.64 | cps |
| Barium | 135-1 | 347 | 333 | 373 | 351 | 5.80 | cps |
| Barium | 137-1 | 583 | 643 | 537 | 588 | 9.10 | cps |
| Beryllium | 9-1 | 117 | 111 | 111 | 113 | 2.84 | cps |
| Bismuth | 209-1 | 18707074 | 18911510 | 18995945 | 18871510 | 0.79 | cps |
| Bismuth | 209-2 | 15370244 | 15268723 | 15218379 | 15285782 | 0.51 | cps |
| Bromine | 81-1 | 17254 | 17557 | 16630 | 17147 | 2.76 | cps |
| Bromine | 81-2 | 130 | 93 | 137 | 120 | 19.45 | cps |
| Cadmium | 108-1 | 17 | 33 | 37 | 29 | 37.08 | cps |
| Cadmium | 106-1 | 9813 | 9803 | 9830 | 9816 | 0.14 | cps |
| Cadmium | 111-1 | 7001 | 6916 | 6939 | 6952 | 0.64 | cps |
| Calcium | 43-1 | 6415 | 6488 | 6578 | 6494 | 1.26 | cps |
| Calcium | 44-1 | 120242 | 122829 | 122006 | 121692 | 1.09 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 6925 | 6652 | 6505 | 6694 | 3.19 | cps |
| Cobalt | 59-2 | 313 | 300 | 287 | 300 | 4.44 | cps |
| Copper | 63-2 | 2847 | 2817 | 2820 | 2828 | 0.58 | cps |
| Dysprosium | 156-1 | 23 | 27 | 20 | 23 | 14.29 | cps |
| Dysprosium | 156-2 | 20 | 10 | 27 | 19 | 44.42 | cps |
| Erbium | 164-1 | 143 | 103 | 150 | 132 | 19.09 | cps |
| Erbium | 164-2 | 67 | 77 | 77 | 73 | 7.87 | cps |
| Gadolinium | 160-1 | 107 | 160 | 120 | 129 | 21.53 | cps |
| Gadolinium | 160-2 | 1217 | 1200 | 1297 | 1238 | 4.18 | cps |
| Holmium | 165-1 | 30881869 | 31308326 | 31349599 | 31179931 | 0.83 | cps |
| Holmium | 165-2 | 22074230 | 22030785 | 21619481 | 21908165 | 1.15 | cps |
| Indium | 115-1 | 26430869 | 26879608 | 26826637 | 26712372 | 0.92 | cps |
| Indium | 115-2 | 9514564 | 9443067 | 9498234 | 9485288 | 0.39 | cps |
| Iron | 56-2 | 47371 | 46348 | 51899 | 48539 | 6.09 | cps |
| Iron | 57-2 | 2167 | 2077 | 2204 | 2149 | 3.03 | cps |
| Iron | 54-2 | 6151 | 5481 | 5641 | 5758 | 6.08 | cps |
| Krypton | 83-1 | 300 | 253 | 283 | 279 | 8.48 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | PB165157BL | Instrumnet Name : | P7 |
| Client Sample ID : | PBW157 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:20:18 | DataFile Name : | 019CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 3060 | 2817 | 2627 | 2835 | 7.66 | cps |
| Lead | 207-1 | 2590 | 2224 | 2380 | 2398 | 7.67 | cps |
| Lead | 208-1 | 11682 | 10678 | 10882 | 11081 | 4.79 | cps |
| Lithium | 6-1 | 2926383 | 2997756 | 2953385 | 2959174 | 1.22 | cps |
| Magnesium | 24-2 | 4697 | 4691 | 4627 | 4672 | 0.83 | cps |
| Manganese | 55-2 | 14647 | 14127 | 14337 | 14370 | 1.82 | cps |
| Molybdenum | 94-1 | 1253 | 1193 | 1367 | 1271 | 6.93 | cps |
| Molybdenum | 95-1 | 653 | 507 | 697 | 619 | 16.09 | cps |
| Molybdenum | 96-1 | 893 | 747 | 987 | 876 | 13.82 | cps |
| Molybdenum | 97-1 | 383 | 360 | 440 | 394 | 10.43 | cps |
| Molybdenum | 98-1 | 1037 | 940 | 933 | 970 | 5.96 | cps |
| Neodymium | 150-1 | 20 | 23 | 30 | 24 | 20.83 | cps |
| Neodymium | 150-2 | 20 | 17 | 10 | 16 | 32.73 | cps |
| Nickel | 60-2 | 1127 | 1227 | 1193 | 1182 | 4.31 | cps |
| Phosphorus | 31-2 | 413 | 500 | 483 | 466 | 9.88 | cps |
| Potassium | 39-2 | 86400 | 85991 | 86534 | 86308 | 0.33 | cps |
| Rhodium | 103-1 | 24974904 | 25117650 | 25553835 | 25215463 | 1.20 | cps |
| Rhodium | 103-2 | 15334576 | 15214989 | 15364753 | 15304773 | 0.52 | cps |
| Scandium | 45-1 | 14187297 | 14289473 | 14405326 | 14294032 | 0.76 | cps |
| Scandium | 45-2 | 1276013 | 1288861 | 1322201 | 1295692 | 1.84 | cps |
| Selenium | 82-1 | 448 | 503 | 444 | 465 | 7.15 | cps |
| Selenium | 77-2 | 3 | 0 | 0 | 1 | 173.21 | cps |
| Selenium | 78-2 | 553 | 467 | 480 | 500 | 9.33 | cps |
| Silicon | 28-1 | 800365 | 807034 | 810211 | 805870 | 0.62 | cps |
| Silver | 107-1 | 397 | 393 | 333 | 374 | 9.52 | cps |
| Silver | 109-1 | 353 | 343 | 260 | 319 | 16.07 | cps |
| Sodium | 23-2 | 79393 | 79021 | 78753 | 79056 | 0.41 | cps |
| Strontium | 86-1 | 837 | 980 | 907 | 908 | 7.90 | cps |
| Strontium | 88-1 | 3964 | 4117 | 3761 | 3947 | 4.53 | cps |
| Sulfur | 34-1 | 265757 | 265211 | 265971 | 265646 | 0.15 | cps |
| Terbium | 159-1 | 31758986 | 32188040 | 32250245 | 32065757 | 0.83 | cps |
| Terbium | 159-2 | 21764064 | 22135811 | 21486502 | 21795459 | 1.49 | cps |
| Thallium | 203-1 | 1347 | 1183 | 1247 | 1259 | 6.54 | cps |
| Thallium | 205-1 | 3024 | 3040 | 2867 | 2977 | 3.21 | cps |
| Tin | 118-1 | 13263 | 13210 | 12749 | 13074 | 2.16 | cps |
| Titanium | 47-1 | 303 | 273 | 213 | 263 | 17.40 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | PB165157BL | Instrumnet Name : | P7 |
| Client Sample ID : | PBW157 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:20:18 | DataFile Name : | 019CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 220 | 123 | 90 | 144 | 46.74 | cps |
| Vanadium | 51-2 | 60 | 47 | 60 | 56 | 13.85 | cps |
| Yttrium | 89-1 | 34781621 | 35236725 | 35135520 | 35051289 | 0.68 | cps |
| Yttrium | 89-2 | 9313218 | 9276702 | 9253732 | 9281218 | 0.32 | cps |
| Zinc | 66-2 | 14274 | 13967 | 14457 | 14232 | 1.74 | cps |
| Zirconium | 90-1 | 2584 | 2697 | 2927 | 2736 | 6.40 | cps |
| Zirconium | 91-1 | 460 | 567 | 617 | 548 | 14.61 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | PB165157BS | Instrumnet Name : | P7 |
| Client Sample ID : | LCS157 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:23:31 | DataFile Name : | 020LCSE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 22630 | 22814 | 22917 | 22787 | 0.64 | cps |
| Antimony | 121-1 | 97024 | 99813 | 101390 | 99409 | 2.22 | cps |
| Arsenic | 75-2 | 2507 | 2834 | 2670 | 2670 | 6.12 | cps |
| Barium | 135-1 | 115094 | 118242 | 121012 | 118116 | 2.51 | cps |
| Barium | 137-1 | 201554 | 205796 | 209930 | 205760 | 2.04 | cps |
| Beryllium | 9-1 | 4651 | 4912 | 4784 | 4782 | 2.73 | cps |
| Bismuth | 209-1 | 18538788 | 18953259 | 18956693 | 18816247 | 1.28 | cps |
| Bismuth | 209-2 | 15082748 | 15162354 | 15157692 | 15134264 | 0.30 | cps |
| Bromine | 81-1 | 17380 | 16616 | 16630 | 16875 | 2.59 | cps |
| Bromine | 81-2 | 97 | 97 | 110 | 101 | 7.61 | cps |
| Cadmium | 108-1 | 960 | 1087 | 957 | 1001 | 7.40 | cps |
| Cadmium | 106-1 | 11438 | 11655 | 10864 | 11319 | 3.61 | cps |
| Cadmium | 111-1 | 19693 | 20530 | 20455 | 20226 | 2.29 | cps |
| Calcium | 43-1 | 68507 | 70121 | 71269 | 69966 | 1.98 | cps |
| Calcium | 44-1 | 1121422 | 1159092 | 1165375 | 1148630 | 2.07 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 49247 | 49611 | 50484 | 49781 | 1.28 | cps |
| Cobalt | 59-2 | 35044 | 34894 | 34770 | 34903 | 0.39 | cps |
| Copper | 63-2 | 54482 | 55319 | 55349 | 55050 | 0.89 | cps |
| Dysprosium | 156-1 | 40 | 50 | 37 | 42 | 16.43 | cps |
| Dysprosium | 156-2 | 37 | 40 | 30 | 36 | 14.32 | cps |
| Erbium | 164-1 | 150 | 157 | 133 | 147 | 8.19 | cps |
| Erbium | 164-2 | 110 | 63 | 120 | 98 | 30.94 | cps |
| Gadolinium | 160-1 | 143 | 127 | 163 | 144 | 12.71 | cps |
| Gadolinium | 160-2 | 1253 | 1317 | 1417 | 1329 | 6.20 | cps |
| Holmium | 165-1 | 30793321 | 31288445 | 31349866 | 31143877 | 0.98 | cps |
| Holmium | 165-2 | 22177876 | 21882455 | 21802657 | 21954329 | 0.90 | cps |
| Indium | 115-1 | 26194599 | 27012012 | 26993913 | 26733508 | 1.75 | cps |
| Indium | 115-2 | 9633649 | 9570139 | 9516860 | 9573550 | 0.61 | cps |
| Iron | 56-2 | 4020973 | 4023994 | 3963287 | 4002752 | 0.85 | cps |
| Iron | 57-2 | 103913 | 104413 | 104303 | 104209 | 0.25 | cps |
| Iron | 54-2 | 230440 | 228667 | 229082 | 229396 | 0.40 | cps |
| Krypton | 83-1 | 257 | 253 | 260 | 257 | 1.30 | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | PB165157BS | Instrumnet Name : | P7 |
| Client Sample ID : | LCS157 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:23:31 | DataFile Name : | 020LCSE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 38414 | 39414 | 38708 | 38845 | 1.32 | cps |
| Lead | 207-1 | 33344 | 34721 | 34711 | 34259 | 2.31 | cps |
| Lead | 208-1 | 152721 | 158645 | 158638 | 156668 | 2.18 | cps |
| Lithium | 6-1 | 3007842 | 3037029 | 3038923 | 3027932 | 0.58 | cps |
| Magnesium | 24-2 | 933288 | 931980 | 936873 | 934047 | 0.27 | cps |
| Manganese | 55-2 | 31957 | 31486 | 31199 | 31548 | 1.21 | cps |
| Molybdenum | 94-1 | 101744 | 105825 | 105930 | 104499 | 2.28 | cps |
| Molybdenum | 95-1 | 122720 | 126211 | 126995 | 125309 | 1.82 | cps |
| Molybdenum | 96-1 | 136981 | 140649 | 142502 | 140044 | 2.01 | cps |
| Molybdenum | 97-1 | 77038 | 80456 | 80168 | 79221 | 2.39 | cps |
| Molybdenum | 98-1 | 196271 | 203574 | 208101 | 202649 | 2.95 | cps |
| Neodymium | 150-1 | 13 | 30 | 27 | 23 | 37.81 | cps |
| Neodymium | 150-2 | 17 | 10 | 13 | 13 | 25.01 | cps |
| Nickel | 60-2 | 10040 | 10017 | 10354 | 10137 | 1.86 | cps |
| Phosphorus | 31-2 | 447 | 463 | 473 | 461 | 2.92 | cps |
| Potassium | 39-2 | 1199333 | 1188954 | 1191179 | 1193155 | 0.46 | cps |
| Rhodium | 103-1 | 25289380 | 25581609 | 25739286 | 25536758 | 0.89 | cps |
| Rhodium | 103-2 | 15370964 | 15287046 | 15336558 | 15331522 | 0.28 | cps |
| Scandium | 45-1 | 14340638 | 14566319 | 14598510 | 14501822 | 0.97 | cps |
| Scandium | 45-2 | 1295507 | 1309136 | 1324216 | 1309620 | 1.10 | cps |
| Selenium | 82-1 | 4185 | 4450 | 4223 | 4286 | 3.34 | cps |
| Selenium | 77-2 | 413 | 400 | 397 | 403 | 2.19 | cps |
| Selenium | 78-2 | 1880 | 1760 | 1917 | 1852 | 4.42 | cps |
| Silicon | 28-1 | 1280694 | 1320401 | 1321800 | 1307631 | 1.78 | cps |
| Silver | 107-1 | 63445 | 65872 | 67643 | 65653 | 3.21 | cps |
| Silver | 109-1 | 60094 | 63280 | 64482 | 62619 | 3.62 | cps |
| Sodium | 23-2 | 1570011 | 1555383 | 1550692 | 1558695 | 0.65 | cps |
| Strontium | 86-1 | 16603 | 16966 | 16926 | 16832 | 1.18 | cps |
| Strontium | 88-1 | 137073 | 141886 | 142351 | 140437 | 2.08 | cps |
| Sulfur | 34-1 | 276835 | 278064 | 277317 | 277406 | 0.22 | cps |
| Terbium | 159-1 | 31887777 | 32408709 | 32361430 | 32219305 | 0.89 | cps |
| Terbium | 159-2 | 21656397 | 21616590 | 21537970 | 21603652 | 0.28 | cps |
| Thallium | 203-1 | 44911 | 45345 | 46001 | 45419 | 1.21 | cps |
| Thallium | 205-1 | 105475 | 107638 | 109157 | 107423 | 1.72 | cps |
| Tin | 118-1 | 8176 | 8393 | 8546 | 8371 | 2.22 | cps |
| Titanium | 47-1 | 29222 | 30614 | 30457 | 30098 | 2.53 | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | PB165157BS | Instrumnet Name : | P7 |
| Client Sample ID : | LCS157 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:23:31 | DataFile Name : | 020LCSE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 128535 | 131794 | 131526 | 130619 | 1.38 | cps |
| Vanadium | 51-2 | 91002 | 90472 | 89775 | 90416 | 0.68 | cps |
| Yttrium | 89-1 | 35457273 | 35640150 | 35777654 | 35625026 | 0.45 | cps |
| Yttrium | 89-2 | 9266790 | 9303779 | 9226280 | 9265616 | 0.42 | cps |
| Zinc | 66-2 | 35509 | 35105 | 34613 | 35076 | 1.28 | cps |
| Zirconium | 90-1 | 87224 | 90443 | 90275 | 89314 | 2.03 | cps |
| Zirconium | 91-1 | 19393 | 19967 | 20084 | 19815 | 1.87 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | PB165158BL | Instrumnet Name : | P7 |
| Client Sample ID : | PBW158 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:26:45 | DataFile Name : | 021CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 697 | 633 | 600 | 643 | 7.63 | cps |
| Antimony | 121-1 | 380 | 420 | 590 | 463 | 24.07 | cps |
| Arsenic | 75-2 | 20 | 23 | 27 | 23 | 14.29 | cps |
| Barium | 135-1 | 377 | 363 | 357 | 366 | 2.79 | cps |
| Barium | 137-1 | 607 | 630 | 707 | 648 | 8.08 | cps |
| Beryllium | 9-1 | 83 | 100 | 133 | 106 | 24.12 | cps |
| Bismuth | 209-1 | 18533398 | 18610610 | 18732153 | 18625387 | 0.54 | cps |
| Bismuth | 209-2 | 14987179 | 15015650 | 14862577 | 14955135 | 0.54 | cps |
| Bromine | 81-1 | 17537 | 17714 | 17607 | 17619 | 0.51 | cps |
| Bromine | 81-2 | 120 | 97 | 187 | 134 | 34.74 | cps |
| Cadmium | 108-1 | 43 | 13 | 27 | 28 | 54.11 | cps |
| Cadmium | 106-1 | 9970 | 10027 | 9700 | 9899 | 1.76 | cps |
| Cadmium | 111-1 | 7029 | 7089 | 6838 | 6985 | 1.88 | cps |
| Calcium | 43-1 | 6808 | 6642 | 6942 | 6797 | 2.21 | cps |
| Calcium | 44-1 | 120682 | 123182 | 122980 | 122281 | 1.14 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 6912 | 7095 | 6808 | 6938 | 2.09 | cps |
| Cobalt | 59-2 | 330 | 293 | 267 | 297 | 10.72 | cps |
| Copper | 63-2 | 2700 | 2667 | 2767 | 2711 | 1.88 | cps |
| Dysprosium | 156-1 | 20 | 7 | 20 | 16 | 49.47 | cps |
| Dysprosium | 156-2 | 3 | 17 | 10 | 10 | 66.70 | cps |
| Erbium | 164-1 | 140 | 120 | 127 | 129 | 7.90 | cps |
| Erbium | 164-2 | 110 | 90 | 127 | 109 | 16.86 | cps |
| Gadolinium | 160-1 | 140 | 127 | 167 | 144 | 14.10 | cps |
| Gadolinium | 160-2 | 1290 | 1213 | 1403 | 1302 | 7.34 | cps |
| Holmium | 165-1 | 31102350 | 31351370 | 31342470 | 31265397 | 0.45 | cps |
| Holmium | 165-2 | 21571443 | 21984558 | 21318019 | 21624673 | 1.56 | cps |
| Indium | 115-1 | 26705345 | 27104117 | 26704003 | 26837822 | 0.86 | cps |
| Indium | 115-2 | 9514502 | 9487246 | 9401272 | 9467673 | 0.62 | cps |
| Iron | 56-2 | 46358 | 45599 | 45552 | 45836 | 0.99 | cps |
| Iron | 57-2 | 2107 | 1960 | 2064 | 2043 | 3.69 | cps |
| Iron | 54-2 | 5798 | 5835 | 5668 | 5767 | 1.52 | cps |
| Krypton | 83-1 | 277 | 243 | 290 | 270 | 8.90 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | PB165158BL | Instrumnet Name : | P7 |
| Client Sample ID : | PBW158 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:26:45 | DataFile Name : | 021CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2664 | 2577 | 2457 | 2566 | 4.05 | cps |
| Lead | 207-1 | 2047 | 2167 | 2294 | 2169 | 5.69 | cps |
| Lead | 208-1 | 10185 | 10058 | 10195 | 10146 | 0.75 | cps |
| Lithium | 6-1 | 3048111 | 3019043 | 3072559 | 3046571 | 0.88 | cps |
| Magnesium | 24-2 | 4514 | 4667 | 4267 | 4483 | 4.50 | cps |
| Manganese | 55-2 | 14150 | 14561 | 14063 | 14258 | 1.86 | cps |
| Molybdenum | 94-1 | 967 | 857 | 1037 | 953 | 9.52 | cps |
| Molybdenum | 95-1 | 303 | 353 | 283 | 313 | 11.51 | cps |
| Molybdenum | 96-1 | 483 | 497 | 527 | 502 | 4.42 | cps |
| Molybdenum | 97-1 | 230 | 177 | 180 | 196 | 15.28 | cps |
| Molybdenum | 98-1 | 440 | 447 | 487 | 458 | 5.51 | cps |
| Neodymium | 150-1 | 30 | 13 | 20 | 21 | 39.75 | cps |
| Neodymium | 150-2 | 7 | 7 | 0 | 4 | 86.60 | cps |
| Nickel | 60-2 | 1213 | 1063 | 1160 | 1146 | 6.64 | cps |
| Phosphorus | 31-2 | 477 | 497 | 440 | 471 | 6.10 | cps |
| Potassium | 39-2 | 82596 | 83212 | 83832 | 83213 | 0.74 | cps |
| Rhodium | 103-1 | 25419266 | 25836275 | 25902490 | 25719344 | 1.02 | cps |
| Rhodium | 103-2 | 15221638 | 15217164 | 15160933 | 15199912 | 0.22 | cps |
| Scandium | 45-1 | 14318580 | 14601046 | 14672518 | 14530715 | 1.29 | cps |
| Scandium | 45-2 | 1311427 | 1312617 | 1301487 | 1308510 | 0.47 | cps |
| Selenium | 82-1 | 472 | 475 | 351 | 432 | 16.37 | cps |
| Selenium | 77-2 | 0 | 3 | 0 | 1 | 173.21 | cps |
| Selenium | 78-2 | 477 | 513 | 513 | 501 | 4.22 | cps |
| Silicon | 28-1 | 824784 | 825516 | 824844 | 825048 | 0.05 | cps |
| Silver | 107-1 | 417 | 340 | 380 | 379 | 10.12 | cps |
| Silver | 109-1 | 310 | 330 | 287 | 309 | 7.02 | cps |
| Sodium | 23-2 | 71578 | 72134 | 72412 | 72042 | 0.59 | cps |
| Strontium | 86-1 | 990 | 817 | 940 | 916 | 9.74 | cps |
| Strontium | 88-1 | 3841 | 4021 | 3941 | 3934 | 2.29 | cps |
| Sulfur | 34-1 | 283128 | 281102 | 279612 | 281281 | 0.63 | cps |
| Terbium | 159-1 | 32211868 | 32385049 | 32198912 | 32265276 | 0.32 | cps |
| Terbium | 159-2 | 21391059 | 21492022 | 21523586 | 21468889 | 0.32 | cps |
| Thallium | 203-1 | 757 | 687 | 730 | 724 | 4.88 | cps |
| Thallium | 205-1 | 1963 | 1903 | 1727 | 1865 | 6.60 | cps |
| Tin | 118-1 | 7869 | 8016 | 8176 | 8020 | 1.91 | cps |
| Titanium | 47-1 | 250 | 200 | 247 | 232 | 12.04 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | PB165158BL | Instrumnet Name : | P7 |
| Client Sample ID : | PBW158 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:26:45 | DataFile Name : | 021CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 123 | 53 | 67 | 81 | 45.83 | cps |
| Vanadium | 51-2 | 97 | 50 | 80 | 76 | 31.30 | cps |
| Yttrium | 89-1 | 36044989 | 35998696 | 35970592 | 36004759 | 0.10 | cps |
| Yttrium | 89-2 | 9244049 | 9209619 | 9057195 | 9170288 | 1.08 | cps |
| Zinc | 66-2 | 14480 | 13626 | 14250 | 14119 | 3.13 | cps |
| Zirconium | 90-1 | 1990 | 2290 | 2527 | 2269 | 11.86 | cps |
| Zirconium | 91-1 | 403 | 473 | 443 | 440 | 7.98 | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | PB165158BS | Instrumnet Name : | P7 |
| Client Sample ID : | LCS158 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:29:59 | DataFile Name : | 022CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 24062 | 23862 | 23698 | 23874 | 0.76 | cps |
| Antimony | 121-1 | 95884 | 99779 | 101032 | 98898 | 2.71 | cps |
| Arsenic | 75-2 | 2800 | 2710 | 2714 | 2741 | 1.86 | cps |
| Barium | 135-1 | 117171 | 118521 | 120743 | 118812 | 1.52 | cps |
| Barium | 137-1 | 201616 | 206023 | 210119 | 205919 | 2.07 | cps |
| Beryllium | 9-1 | 5090 | 5045 | 5212 | 5116 | 1.69 | cps |
| Bismuth | 209-1 | 18409671 | 18559663 | 18488589 | 18485974 | 0.41 | cps |
| Bismuth | 209-2 | 14769631 | 14726550 | 14975441 | 14823874 | 0.90 | cps |
| Bromine | 81-1 | 17831 | 17554 | 18265 | 17883 | 2.00 | cps |
| Bromine | 81-2 | 90 | 100 | 80 | 90 | 11.11 | cps |
| Cadmium | 108-1 | 833 | 917 | 980 | 910 | 8.08 | cps |
| Cadmium | 106-1 | 10998 | 10988 | 11231 | 11072 | 1.24 | cps |
| Cadmium | 111-1 | 19670 | 19962 | 20685 | 20106 | 2.60 | cps |
| Calcium | 43-1 | 68507 | 71745 | 71946 | 70733 | 2.73 | cps |
| Calcium | 44-1 | 1127324 | 1170841 | 1177653 | 1158606 | 2.36 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 50511 | 49554 | 50628 | 50231 | 1.17 | cps |
| Cobalt | 59-2 | 34867 | 34693 | 35001 | 34854 | 0.44 | cps |
| Copper | 63-2 | 54281 | 55907 | 55195 | 55128 | 1.48 | cps |
| Dysprosium | 156-1 | 17 | 40 | 33 | 30 | 40.05 | cps |
| Dysprosium | 156-2 | 20 | 50 | 50 | 40 | 43.30 | cps |
| Erbium | 164-1 | 130 | 107 | 110 | 116 | 10.92 | cps |
| Erbium | 164-2 | 100 | 90 | 110 | 100 | 10.00 | cps |
| Gadolinium | 160-1 | 153 | 180 | 137 | 157 | 13.95 | cps |
| Gadolinium | 160-2 | 1277 | 1363 | 1357 | 1332 | 3.62 | cps |
| Holmium | 165-1 | 30601490 | 30837127 | 31224279 | 30887632 | 1.02 | cps |
| Holmium | 165-2 | 21438097 | 21363885 | 21494237 | 21432073 | 0.31 | cps |
| Indium | 115-1 | 26664383 | 26808491 | 26830031 | 26767635 | 0.34 | cps |
| Indium | 115-2 | 9289911 | 9469375 | 9471910 | 9410399 | 1.11 | cps |
| Iron | 56-2 | 4041950 | 3970755 | 4010102 | 4007602 | 0.89 | cps |
| Iron | 57-2 | 104278 | 103839 | 104503 | 104207 | 0.32 | cps |
| Iron | 54-2 | 232098 | 230951 | 230389 | 231146 | 0.38 | cps |
| Krypton | 83-1 | 280 | 270 | 270 | 273 | 2.11 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | PB165158BS | Instrumnet Name : | P7 |
| Client Sample ID : | LCS158 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:29:59 | DataFile Name : | 022CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 37652 | 39073 | 39267 | 38664 | 2.28 | cps |
| Lead | 207-1 | 33147 | 33905 | 34210 | 33754 | 1.62 | cps |
| Lead | 208-1 | 150193 | 154668 | 155472 | 153444 | 1.85 | cps |
| Lithium | 6-1 | 3055947 | 3043555 | 3022636 | 3040713 | 0.55 | cps |
| Magnesium | 24-2 | 950593 | 941051 | 940426 | 944023 | 0.60 | cps |
| Manganese | 55-2 | 30999 | 30748 | 31486 | 31078 | 1.21 | cps |
| Molybdenum | 94-1 | 102781 | 104453 | 106020 | 104418 | 1.55 | cps |
| Molybdenum | 95-1 | 122770 | 127856 | 127761 | 126129 | 2.31 | cps |
| Molybdenum | 96-1 | 136665 | 140561 | 142725 | 139984 | 2.19 | cps |
| Molybdenum | 97-1 | 76623 | 80399 | 80279 | 79100 | 2.71 | cps |
| Molybdenum | 98-1 | 198808 | 206110 | 205470 | 203463 | 1.99 | cps |
| Neodymium | 150-1 | 37 | 43 | 33 | 38 | 13.48 | cps |
| Neodymium | 150-2 | 13 | 7 | 20 | 13 | 49.99 | cps |
| Nickel | 60-2 | 10270 | 10190 | 10150 | 10204 | 0.60 | cps |
| Phosphorus | 31-2 | 553 | 413 | 530 | 499 | 15.04 | cps |
| Potassium | 39-2 | 1227960 | 1216483 | 1206902 | 1217115 | 0.87 | cps |
| Rhodium | 103-1 | 25415353 | 25428705 | 25515588 | 25453215 | 0.21 | cps |
| Rhodium | 103-2 | 15050697 | 15021134 | 15194759 | 15088864 | 0.62 | cps |
| Scandium | 45-1 | 14281289 | 14693034 | 14739673 | 14571332 | 1.73 | cps |
| Scandium | 45-2 | 1331329 | 1300569 | 1294134 | 1308677 | 1.52 | cps |
| Selenium | 82-1 | 4395 | 4341 | 4428 | 4388 | 1.01 | cps |
| Selenium | 77-2 | 440 | 383 | 380 | 401 | 8.41 | cps |
| Selenium | 78-2 | 1987 | 1820 | 1770 | 1859 | 6.10 | cps |
| Silicon | 28-1 | 1276717 | 1318399 | 1348670 | 1314596 | 2.75 | cps |
| Silver | 107-1 | 63723 | 66853 | 67770 | 66115 | 3.21 | cps |
| Silver | 109-1 | 61239 | 64332 | 64342 | 63304 | 2.83 | cps |
| Sodium | 23-2 | 1577419 | 1556018 | 1567337 | 1566925 | 0.68 | cps |
| Strontium | 86-1 | 15915 | 17244 | 17367 | 16842 | 4.78 | cps |
| Strontium | 88-1 | 139212 | 143845 | 145764 | 142940 | 2.36 | cps |
| Sulfur | 34-1 | 291057 | 290846 | 291934 | 291279 | 0.20 | cps |
| Terbium | 159-1 | 31365515 | 31999518 | 31962547 | 31775860 | 1.12 | cps |
| Terbium | 159-2 | 21052491 | 21560240 | 21063249 | 21225326 | 1.37 | cps |
| Thallium | 203-1 | 43429 | 44235 | 45479 | 44381 | 2.33 | cps |
| Thallium | 205-1 | 103043 | 105945 | 106795 | 105261 | 1.87 | cps |
| Tin | 118-1 | 8236 | 8937 | 8449 | 8541 | 4.21 | cps |
| Titanium | 47-1 | 29612 | 31152 | 32288 | 31017 | 4.33 | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | PB165158BS | Instrumnet Name : | P7 |
| Client Sample ID : | LCS158 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:29:59 | DataFile Name : | 022CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 125303 | 130947 | 130884 | 129045 | 2.51 | cps |
| Vanadium | 51-2 | 92226 | 90653 | 90787 | 91222 | 0.96 | cps |
| Yttrium | 89-1 | 35390647 | 35656732 | 35678098 | 35575159 | 0.45 | cps |
| Yttrium | 89-2 | 9214983 | 9270849 | 9154975 | 9213602 | 0.63 | cps |
| Zinc | 66-2 | 35706 | 34934 | 35362 | 35334 | 1.09 | cps |
| Zirconium | 90-1 | 87221 | 90208 | 89980 | 89136 | 1.87 | cps |
| Zirconium | 91-1 | 18922 | 19540 | 20414 | 19625 | 3.82 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4879-22 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A11 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:33:13 | DataFile Name : | 023SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1042086 | 1044004 | 1036435 | 1040842 | 0.38 | cps |
| Antimony | 121-1 | 2707 | 2867 | 3040 | 2871 | 5.81 | cps |
| Arsenic | 75-2 | 5024 | 4804 | 4841 | 4890 | 2.41 | cps |
| Barium | 135-1 | 299407 | 300591 | 299294 | 299764 | 0.24 | cps |
| Barium | 137-1 | 513064 | 520601 | 524457 | 519374 | 1.12 | cps |
| Beryllium | 9-1 | 589 | 589 | 478 | 552 | 11.63 | cps |
| Bismuth | 209-1 | 18133849 | 18536416 | 18558601 | 18409622 | 1.30 | cps |
| Bismuth | 209-2 | 14680764 | 14311851 | 14698683 | 14563766 | 1.50 | cps |
| Bromine | 81-1 | 24580 | 24377 | 24731 | 24563 | 0.72 | cps |
| Bromine | 81-2 | 1413 | 1327 | 1410 | 1383 | 3.55 | cps |
| Cadmium | 108-1 | 87 | 150 | 143 | 127 | 27.47 | cps |
| Cadmium | 106-1 | 11051 | 10484 | 10651 | 10729 | 2.72 | cps |
| Cadmium | 111-1 | 8745 | 8377 | 8609 | 8577 | 2.17 | cps |
| Calcium | 43-1 | 12924859 | 13005529 | 12971341 | 12967243 | 0.31 | cps |
| Calcium | 44-1 | 209617784 | 210319764 | 207263144 | 209066897 | 0.77 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 55983 | 57737 | 56341 | 56687 | 1.63 | cps |
| Cobalt | 59-2 | 67916 | 68033 | 67494 | 67814 | 0.42 | cps |
| Copper | 63-2 | 93905 | 93184 | 93979 | 93690 | 0.47 | cps |
| Dysprosium | 156-1 | 38640 | 39221 | 38479 | 38780 | 1.01 | cps |
| Dysprosium | 156-2 | 30349 | 29969 | 31058 | 30459 | 1.81 | cps |
| Erbium | 164-1 | 34486 | 34519 | 35839 | 34948 | 2.21 | cps |
| Erbium | 164-2 | 23400 | 23423 | 23907 | 23577 | 1.22 | cps |
| Gadolinium | 160-1 | 39338 | 40201 | 40786 | 40108 | 1.82 | cps |
| Gadolinium | 160-2 | 29581 | 29368 | 29434 | 29461 | 0.37 | cps |
| Holmium | 165-1 | 31806711 | 32586539 | 32373624 | 32255625 | 1.25 | cps |
| Holmium | 165-2 | 22092873 | 21555830 | 22337222 | 21995308 | 1.82 | cps |
| Indium | 115-1 | 26717828 | 27469765 | 27125532 | 27104375 | 1.39 | cps |
| Indium | 115-2 | 9415138 | 9357329 | 9699675 | 9490714 | 1.93 | cps |
| Iron | 56-2 | 76854034 | 73563949 | 73758067 | 74725350 | 2.47 | cps |
| Iron | 57-2 | 2144889 | 2091556 | 2124940 | 2120462 | 1.27 | cps |
| Iron | 54-2 | 4143762 | 4108712 | 4089437 | 4113970 | 0.67 | cps |
| Krypton | 83-1 | 357 | 380 | 367 | 368 | 3.18 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4879-22 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A11 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:33:13 | DataFile Name : | 023SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 139807 | 142838 | 143711 | 142118 | 1.44 | cps |
| Lead | 207-1 | 112312 | 114064 | 114134 | 113503 | 0.91 | cps |
| Lead | 208-1 | 529373 | 537724 | 539910 | 535669 | 1.04 | cps |
| Lithium | 6-1 | 2975137 | 3057743 | 3016067 | 3016316 | 1.37 | cps |
| Magnesium | 24-2 | 65645067 | 63394866 | 63468284 | 64169406 | 1.99 | cps |
| Manganese | 55-2 | 2689980 | 2559153 | 2548984 | 2599372 | 3.03 | cps |
| Molybdenum | 94-1 | 15095 | 15175 | 15395 | 15221 | 1.02 | cps |
| Molybdenum | 95-1 | 13036 | 13006 | 12896 | 12979 | 0.57 | cps |
| Molybdenum | 96-1 | 15805 | 16046 | 16042 | 15964 | 0.86 | cps |
| Molybdenum | 97-1 | 8006 | 7986 | 8149 | 8047 | 1.11 | cps |
| Molybdenum | 98-1 | 20615 | 20474 | 21132 | 20740 | 1.67 | cps |
| Neodymium | 150-1 | 58554 | 59947 | 59223 | 59241 | 1.18 | cps |
| Neodymium | 150-2 | 34679 | 34505 | 33804 | 34330 | 1.35 | cps |
| Nickel | 60-2 | 33788 | 34182 | 33805 | 33925 | 0.66 | cps |
| Phosphorus | 31-2 | 11314 | 11381 | 11371 | 11355 | 0.32 | cps |
| Potassium | 39-2 | 513532 | 507460 | 510492 | 510495 | 0.59 | cps |
| Rhodium | 103-1 | 25098859 | 25516360 | 25740146 | 25451788 | 1.28 | cps |
| Rhodium | 103-2 | 14953393 | 14623073 | 15053821 | 14876762 | 1.51 | cps |
| Scandium | 45-1 | 15163176 | 15147859 | 15127160 | 15146065 | 0.12 | cps |
| Scandium | 45-2 | 1356322 | 1356880 | 1297414 | 1336872 | 2.56 | cps |
| Selenium | 82-1 | 600 | 626 | 538 | 588 | 7.68 | cps |
| Selenium | 77-2 | 100 | 150 | 140 | 130 | 20.35 | cps |
| Selenium | 78-2 | 547 | 560 | 547 | 551 | 1.40 | cps |
| Silicon | 28-1 | 23987962 | 23526207 | 23752117 | 23755429 | 0.97 | cps |
| Silver | 107-1 | 2214 | 1827 | 1867 | 1969 | 10.80 | cps |
| Silver | 109-1 | 2017 | 1620 | 1570 | 1736 | 14.10 | cps |
| Sodium | 23-2 | 415422 | 417431 | 408249 | 413701 | 1.17 | cps |
| Strontium | 86-1 | 1916382 | 1908474 | 1928789 | 1917882 | 0.53 | cps |
| Strontium | 88-1 | 16272153 | 16554543 | 16710047 | 16512247 | 1.34 | cps |
| Sulfur | 34-1 | 411725 | 419180 | 419881 | 416929 | 1.08 | cps |
| Terbium | 159-1 | 32658985 | 33438531 | 33536474 | 33211330 | 1.45 | cps |
| Terbium | 159-2 | 21568501 | 22252661 | 21763501 | 21861554 | 1.61 | cps |
| Thallium | 203-1 | 4484 | 4561 | 5701 | 4915 | 13.87 | cps |
| Thallium | 205-1 | 10264 | 11185 | 12809 | 11419 | 11.29 | cps |
| Tin | 118-1 | 14087 | 14147 | 14437 | 14224 | 1.32 | cps |
| Titanium | 47-1 | 116648 | 117609 | 115772 | 116677 | 0.79 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4879-22 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A11 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:33:13 | DataFile Name : | 023SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 94656 | 86083 | 86569 | 89103 | 5.40 | cps |
| Vanadium | 51-2 | 70805 | 70437 | 72218 | 71153 | 1.32 | cps |
| Yttrium | 89-1 | 36725634 | 37154214 | 37644594 | 37174814 | 1.24 | cps |
| Yttrium | 89-2 | 9420909 | 9433119 | 9465251 | 9439760 | 0.24 | cps |
| Zinc | 66-2 | 65011 | 64053 | 64207 | 64424 | 0.80 | cps |
| Zirconium | 90-1 | 21095 | 21372 | 22010 | 21492 | 2.18 | cps |
| Zirconium | 91-1 | 4694 | 4781 | 5044 | 4840 | 3.77 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-01 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z1 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:36:21 | DataFile Name : | 024SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 10381 | 9724 | 9921 | 10009 | 3.37 | cps |
| Antimony | 121-1 | 2020 | 2217 | 1993 | 2077 | 5.87 | cps |
| Arsenic | 75-2 | 1927 | 1963 | 1940 | 1943 | 0.96 | cps |
| Barium | 135-1 | 531908 | 530648 | 520797 | 527784 | 1.15 | cps |
| Barium | 137-1 | 918136 | 916442 | 907805 | 914128 | 0.61 | cps |
| Beryllium | 9-1 | 161 | 128 | 94 | 128 | 26.09 | cps |
| Bismuth | 209-1 | 19899997 | 19844846 | 19475786 | 19740210 | 1.17 | cps |
| Bismuth | 209-2 | 15430829 | 15047138 | 15111739 | 15196569 | 1.35 | cps |
| Bromine | 81-1 | 34804 | 38644 | 40977 | 38142 | 8.17 | cps |
| Bromine | 81-2 | 4844 | 4904 | 5078 | 4942 | 2.45 | cps |
| Cadmium | 108-1 | 40 | 43 | 60 | 48 | 22.43 | cps |
| Cadmium | 106-1 | 11194 | 10834 | 10881 | 10970 | 1.79 | cps |
| Cadmium | 111-1 | 7988 | 7690 | 7715 | 7798 | 2.12 | cps |
| Calcium | 43-1 | 4954626 | 4853627 | 4788316 | 4865523 | 1.72 | cps |
| Calcium | 44-1 | 78159084 | 76836516 | 76440576 | 77145392 | 1.17 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 27465 | 27168 | 27171 | 27268 | 0.63 | cps |
| Cobalt | 59-2 | 2667 | 2827 | 2820 | 2771 | 3.27 | cps |
| Copper | 63-2 | 12068 | 12068 | 12165 | 12101 | 0.46 | cps |
| Dysprosium | 156-1 | 450 | 427 | 367 | 414 | 10.37 | cps |
| Dysprosium | 156-2 | 267 | 320 | 257 | 281 | 12.11 | cps |
| Erbium | 164-1 | 267 | 253 | 233 | 251 | 6.68 | cps |
| Erbium | 164-2 | 147 | 170 | 180 | 166 | 10.33 | cps |
| Gadolinium | 160-1 | 477 | 613 | 527 | 539 | 12.83 | cps |
| Gadolinium | 160-2 | 1717 | 1520 | 1687 | 1641 | 6.46 | cps |
| Holmium | 165-1 | 34037919 | 33266250 | 33188130 | 33497433 | 1.40 | cps |
| Holmium | 165-2 | 22469996 | 22276507 | 22627991 | 22458164 | 0.78 | cps |
| Indium | 115-1 | 29025699 | 28579389 | 28509560 | 28704882 | 0.98 | cps |
| Indium | 115-2 | 9836174 | 9963620 | 9972884 | 9924226 | 0.77 | cps |
| Iron | 56-2 | 539480 | 537059 | 536918 | 537819 | 0.27 | cps |
| Iron | 57-2 | 102053 | 104530 | 103628 | 103404 | 1.21 | cps |
| Iron | 54-2 | 32929 | 32245 | 32722 | 32632 | 1.08 | cps |
| Krypton | 83-1 | 283 | 273 | 213 | 257 | 14.75 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-01 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z1 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:36:21 | DataFile Name : | 024SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 6028 | 5228 | 5441 | 5566 | 7.45 | cps |
| Lead | 207-1 | 4918 | 4541 | 4301 | 4586 | 6.78 | cps |
| Lead | 208-1 | 22931 | 20673 | 20826 | 21477 | 5.87 | cps |
| Lithium | 6-1 | 3256439 | 3104517 | 3091184 | 3150713 | 2.91 | cps |
| Magnesium | 24-2 | 27108267 | 26648761 | 27256508 | 27004512 | 1.17 | cps |
| Manganese | 55-2 | 158508 | 156517 | 156252 | 157092 | 0.79 | cps |
| Molybdenum | 94-1 | 41468 | 41097 | 41234 | 41267 | 0.45 | cps |
| Molybdenum | 95-1 | 71323 | 69353 | 68684 | 69787 | 1.97 | cps |
| Molybdenum | 96-1 | 77558 | 76586 | 75708 | 76617 | 1.21 | cps |
| Molybdenum | 97-1 | 44551 | 44166 | 43548 | 44088 | 1.15 | cps |
| Molybdenum | 98-1 | 115690 | 113913 | 113305 | 114303 | 1.08 | cps |
| Neodymium | 150-1 | 163 | 160 | 200 | 174 | 12.72 | cps |
| Neodymium | 150-2 | 80 | 87 | 83 | 83 | 4.00 | cps |
| Nickel | 60-2 | 10227 | 10023 | 10240 | 10164 | 1.20 | cps |
| Phosphorus | 31-2 | 1647 | 1660 | 1807 | 1705 | 5.21 | cps |
| Potassium | 39-2 | 4328191 | 4378616 | 4362689 | 4356499 | 0.59 | cps |
| Rhodium | 103-1 | 27278860 | 26729948 | 26291674 | 26766827 | 1.85 | cps |
| Rhodium | 103-2 | 15551976 | 15632033 | 15418336 | 15534115 | 0.70 | cps |
| Scandium | 45-1 | 15807764 | 15646869 | 15665521 | 15706718 | 0.56 | cps |
| Scandium | 45-2 | 1370435 | 1374500 | 1371947 | 1372294 | 0.15 | cps |
| Selenium | 82-1 | 515 | 448 | 511 | 492 | 7.73 | cps |
| Selenium | 77-2 | 3 | 10 | 10 | 8 | 49.52 | cps |
| Selenium | 78-2 | 537 | 590 | 590 | 572 | 5.38 | cps |
| Silicon | 28-1 | 52704241 | 51355998 | 51003806 | 51688015 | 1.74 | cps |
| Silver | 107-1 | 467 | 487 | 460 | 471 | 2.95 | cps |
| Silver | 109-1 | 347 | 250 | 353 | 317 | 18.26 | cps |
| Sodium | 23-2 | 20965619 | 20710698 | 20955376 | 20877231 | 0.69 | cps |
| Strontium | 86-1 | 19630692 | 19647148 | 19231766 | 19503202 | 1.21 | cps |
| Strontium | 88-1 | 170323877 | 170495864 | 167294524 | 169371422 | 1.06 | cps |
| Sulfur | 34-1 | 1808121 | 1808686 | 1760656 | 1792488 | 1.54 | cps |
| Terbium | 159-1 | 35521670 | 34629760 | 34649119 | 34933517 | 1.46 | cps |
| Terbium | 159-2 | 22663745 | 22370280 | 22141763 | 22391929 | 1.17 | cps |
| Thallium | 203-1 | 1613 | 1507 | 1437 | 1519 | 5.86 | cps |
| Thallium | 205-1 | 4024 | 3714 | 3210 | 3649 | 11.25 | cps |
| Tin | 118-1 | 12566 | 11978 | 12185 | 12243 | 2.43 | cps |
| Titanium | 47-1 | 27005 | 1907 | 1903 | 10272 | 141.08 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-01 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z1 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:36:21 | DataFile Name : | 024SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 58568 | 58464 | 58759 | 58597 | 0.26 | cps |
| Vanadium | 51-2 | 1760 | 2057 | 1950 | 1922 | 7.82 | cps |
| Yttrium | 89-1 | 39555204 | 38929258 | 38498232 | 38994231 | 1.36 | cps |
| Yttrium | 89-2 | 9751172 | 9623266 | 9681855 | 9685431 | 0.66 | cps |
| Zinc | 66-2 | 33818 | 33581 | 32950 | 33450 | 1.34 | cps |
| Zirconium | 90-1 | 3871 | 3971 | 3967 | 3936 | 1.44 | cps |
| Zirconium | 91-1 | 723 | 887 | 840 | 817 | 10.30 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-02 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:39:34 | DataFile Name : | 025SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 10044 | 10037 | 9510 | 9864 | 3.10 | cps |
| Antimony | 121-1 | 1710 | 1607 | 1670 | 1662 | 3.13 | cps |
| Arsenic | 75-2 | 1913 | 1930 | 1790 | 1878 | 4.07 | cps |
| Barium | 135-1 | 529426 | 526947 | 525470 | 527281 | 0.38 | cps |
| Barium | 137-1 | 918353 | 914682 | 916618 | 916551 | 0.20 | cps |
| Beryllium | 9-1 | 111 | 122 | 172 | 135 | 24.08 | cps |
| Bismuth | 209-1 | 19170536 | 19481655 | 19298468 | 19316886 | 0.81 | cps |
| Bismuth | 209-2 | 15197089 | 15066514 | 15040374 | 15101326 | 0.56 | cps |
| Bromine | 81-1 | 36044 | 40325 | 43407 | 39925 | 9.26 | cps |
| Bromine | 81-2 | 5188 | 5281 | 5581 | 5350 | 3.84 | cps |
| Cadmium | 108-1 | 57 | 63 | 40 | 53 | 22.53 | cps |
| Cadmium | 106-1 | 10791 | 10387 | 10234 | 10471 | 2.75 | cps |
| Cadmium | 111-1 | 7704 | 7337 | 7262 | 7434 | 3.18 | cps |
| Calcium | 43-1 | 4845306 | 4880913 | 4810037 | 4845419 | 0.73 | cps |
| Calcium | 44-1 | 76351444 | 76740231 | 76722916 | 76604863 | 0.29 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 5158 | 5501 | 4991 | 5217 | 4.99 | cps |
| Cobalt | 59-2 | 2154 | 2110 | 2237 | 2167 | 2.97 | cps |
| Copper | 63-2 | 10440 | 10577 | 10374 | 10464 | 0.99 | cps |
| Dysprosium | 156-1 | 383 | 420 | 363 | 389 | 7.39 | cps |
| Dysprosium | 156-2 | 317 | 293 | 247 | 286 | 12.48 | cps |
| Erbium | 164-1 | 290 | 237 | 250 | 259 | 10.72 | cps |
| Erbium | 164-2 | 183 | 180 | 180 | 181 | 1.06 | cps |
| Gadolinium | 160-1 | 510 | 570 | 543 | 541 | 5.56 | cps |
| Gadolinium | 160-2 | 1797 | 1663 | 1623 | 1695 | 5.36 | cps |
| Holmium | 165-1 | 33039000 | 32763159 | 33092965 | 32965041 | 0.54 | cps |
| Holmium | 165-2 | 22638056 | 22588950 | 22311181 | 22512729 | 0.78 | cps |
| Indium | 115-1 | 28032623 | 28169512 | 27985234 | 28062456 | 0.34 | cps |
| Indium | 115-2 | 9929537 | 9888490 | 9775746 | 9864591 | 0.81 | cps |
| Iron | 56-2 | 536668 | 535050 | 532934 | 534884 | 0.35 | cps |
| Iron | 57-2 | 102184 | 103372 | 102916 | 102824 | 0.58 | cps |
| Iron | 54-2 | 32165 | 31587 | 30087 | 31279 | 3.43 | cps |
| Krypton | 83-1 | 340 | 240 | 377 | 319 | 22.18 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-02 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:39:34 | DataFile Name : | 025SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 4391 | 4297 | 4114 | 4267 | 3.30 | cps |
| Lead | 207-1 | 3317 | 3397 | 3541 | 3418 | 3.31 | cps |
| Lead | 208-1 | 16511 | 16294 | 16421 | 16409 | 0.66 | cps |
| Lithium | 6-1 | 3093099 | 3098316 | 3055828 | 3082414 | 0.75 | cps |
| Magnesium | 24-2 | 27349136 | 27018034 | 26988622 | 27118597 | 0.74 | cps |
| Manganese | 55-2 | 74563 | 74081 | 73964 | 74203 | 0.43 | cps |
| Molybdenum | 94-1 | 38063 | 38594 | 38688 | 38448 | 0.88 | cps |
| Molybdenum | 95-1 | 66185 | 65506 | 64354 | 65348 | 1.42 | cps |
| Molybdenum | 96-1 | 70000 | 69718 | 69524 | 69747 | 0.34 | cps |
| Molybdenum | 97-1 | 41422 | 40499 | 40620 | 40847 | 1.23 | cps |
| Molybdenum | 98-1 | 104856 | 105225 | 104184 | 104755 | 0.50 | cps |
| Neodymium | 150-1 | 193 | 187 | 203 | 194 | 4.31 | cps |
| Neodymium | 150-2 | 83 | 100 | 177 | 120 | 41.49 | cps |
| Nickel | 60-2 | 4551 | 4581 | 4524 | 4552 | 0.62 | cps |
| Phosphorus | 31-2 | 1543 | 1697 | 1473 | 1571 | 7.27 | cps |
| Potassium | 39-2 | 4399725 | 4409429 | 4334008 | 4381054 | 0.94 | cps |
| Rhodium | 103-1 | 26326483 | 26690470 | 26368889 | 26461947 | 0.75 | cps |
| Rhodium | 103-2 | 15415967 | 15486111 | 15079699 | 15327259 | 1.42 | cps |
| Scandium | 45-1 | 15279211 | 15400643 | 15453966 | 15377940 | 0.58 | cps |
| Scandium | 45-2 | 1403243 | 1344215 | 1353515 | 1366991 | 2.32 | cps |
| Selenium | 82-1 | 464 | 534 | 355 | 451 | 19.95 | cps |
| Selenium | 77-2 | 10 | 3 | 7 | 7 | 50.03 | cps |
| Selenium | 78-2 | 560 | 523 | 443 | 509 | 11.72 | cps |
| Silicon | 28-1 | 51660776 | 50702569 | 50729993 | 51031113 | 1.07 | cps |
| Silver | 107-1 | 303 | 267 | 323 | 298 | 9.65 | cps |
| Silver | 109-1 | 167 | 150 | 170 | 162 | 6.61 | cps |
| Sodium | 23-2 | 20685035 | 20776694 | 20841886 | 20767871 | 0.38 | cps |
| Strontium | 86-1 | 19584913 | 19652650 | 19433552 | 19557038 | 0.57 | cps |
| Strontium | 88-1 | 173055197 | 169876824 | 170411977 | 171114666 | 0.99 | cps |
| Sulfur | 34-1 | 1748649 | 1727271 | 1721142 | 1732354 | 0.83 | cps |
| Terbium | 159-1 | 33619129 | 34276231 | 33673884 | 33856414 | 1.08 | cps |
| Terbium | 159-2 | 22557410 | 22150213 | 22137256 | 22281626 | 1.07 | cps |
| Thallium | 203-1 | 980 | 970 | 827 | 926 | 9.27 | cps |
| Thallium | 205-1 | 2524 | 2250 | 2274 | 2349 | 6.45 | cps |
| Tin | 118-1 | 4704 | 4701 | 4721 | 4709 | 0.23 | cps |
| Titanium | 47-1 | 3054 | 1904 | 3062 | 2673 | 24.93 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-02 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z3 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:39:34 | DataFile Name : | 025SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 58525 | 58146 | 58441 | 58371 | 0.34 | cps |
| Vanadium | 51-2 | 2007 | 1913 | 1733 | 1885 | 7.37 | cps |
| Yttrium | 89-1 | 38103578 | 38149308 | 37889777 | 38047554 | 0.36 | cps |
| Yttrium | 89-2 | 9699429 | 9588527 | 9452193 | 9580049 | 1.29 | cps |
| Zinc | 66-2 | 8112 | 8142 | 7735 | 7997 | 2.84 | cps |
| Zirconium | 90-1 | 4104 | 3874 | 3967 | 3982 | 2.91 | cps |
| Zirconium | 91-1 | 787 | 937 | 910 | 878 | 9.12 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-03 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z5 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:42:42 | DataFile Name : | 026SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 14387 | 14274 | 14093 | 14251 | 1.04 | cps |
| Antimony | 121-1 | 1853 | 1723 | 1623 | 1733 | 6.65 | cps |
| Arsenic | 75-2 | 1973 | 1933 | 1777 | 1895 | 5.49 | cps |
| Barium | 135-1 | 522600 | 529872 | 522059 | 524843 | 0.83 | cps |
| Barium | 137-1 | 917076 | 911708 | 909821 | 912868 | 0.41 | cps |
| Beryllium | 9-1 | 94 | 122 | 167 | 128 | 28.51 | cps |
| Bismuth | 209-1 | 19522696 | 19408313 | 19285336 | 19405448 | 0.61 | cps |
| Bismuth | 209-2 | 15507354 | 15436906 | 15347830 | 15430697 | 0.52 | cps |
| Bromine | 81-1 | 37561 | 43581 | 45700 | 42281 | 9.99 | cps |
| Bromine | 81-2 | 6018 | 6115 | 6248 | 6127 | 1.89 | cps |
| Cadmium | 108-1 | 40 | 83 | 67 | 63 | 34.51 | cps |
| Cadmium | 106-1 | 10837 | 10771 | 10414 | 10674 | 2.13 | cps |
| Cadmium | 111-1 | 7685 | 7605 | 7343 | 7544 | 2.37 | cps |
| Calcium | 43-1 | 4777347 | 4795894 | 4718858 | 4764033 | 0.84 | cps |
| Calcium | 44-1 | 75852076 | 76034696 | 76061892 | 75982888 | 0.15 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 24123 | 23999 | 23609 | 23910 | 1.12 | cps |
| Cobalt | 59-2 | 2674 | 2714 | 2617 | 2668 | 1.82 | cps |
| Copper | 63-2 | 11438 | 11398 | 11188 | 11341 | 1.18 | cps |
| Dysprosium | 156-1 | 420 | 450 | 447 | 439 | 3.75 | cps |
| Dysprosium | 156-2 | 430 | 347 | 407 | 394 | 10.90 | cps |
| Erbium | 164-1 | 303 | 307 | 297 | 302 | 1.68 | cps |
| Erbium | 164-2 | 227 | 187 | 177 | 197 | 13.45 | cps |
| Gadolinium | 160-1 | 583 | 613 | 560 | 586 | 4.57 | cps |
| Gadolinium | 160-2 | 1590 | 1853 | 1617 | 1687 | 8.59 | cps |
| Holmium | 165-1 | 33761109 | 33463361 | 33016733 | 33413734 | 1.12 | cps |
| Holmium | 165-2 | 22773955 | 22425180 | 22687676 | 22628937 | 0.80 | cps |
| Indium | 115-1 | 28646982 | 28447840 | 28169805 | 28421542 | 0.84 | cps |
| Indium | 115-2 | 9799353 | 9848274 | 9859685 | 9835771 | 0.33 | cps |
| Iron | 56-2 | 735165 | 730154 | 726732 | 730684 | 0.58 | cps |
| Iron | 57-2 | 107300 | 106528 | 106964 | 106930 | 0.36 | cps |
| Iron | 54-2 | 43208 | 43643 | 41985 | 42945 | 2.00 | cps |
| Krypton | 83-1 | 283 | 313 | 327 | 308 | 7.21 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-03 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z5 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:42:42 | DataFile Name : | 026SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 6805 | 6512 | 6598 | 6638 | 2.27 | cps |
| Lead | 207-1 | 5508 | 5388 | 5621 | 5506 | 2.12 | cps |
| Lead | 208-1 | 25846 | 25216 | 25673 | 25578 | 1.27 | cps |
| Lithium | 6-1 | 3210142 | 3185770 | 3165576 | 3187163 | 0.70 | cps |
| Magnesium | 24-2 | 26869780 | 26405953 | 26593235 | 26622989 | 0.88 | cps |
| Manganese | 55-2 | 93488 | 92935 | 91865 | 92762 | 0.89 | cps |
| Molybdenum | 94-1 | 40867 | 41158 | 40877 | 40967 | 0.40 | cps |
| Molybdenum | 95-1 | 68087 | 67836 | 68104 | 68009 | 0.22 | cps |
| Molybdenum | 96-1 | 73718 | 73440 | 73289 | 73482 | 0.30 | cps |
| Molybdenum | 97-1 | 42736 | 44120 | 42238 | 43031 | 2.27 | cps |
| Molybdenum | 98-1 | 109406 | 110417 | 110678 | 110167 | 0.61 | cps |
| Neodymium | 150-1 | 303 | 313 | 300 | 306 | 2.27 | cps |
| Neodymium | 150-2 | 197 | 150 | 153 | 167 | 15.62 | cps |
| Nickel | 60-2 | 10257 | 10467 | 10274 | 10333 | 1.13 | cps |
| Phosphorus | 31-2 | 1943 | 1883 | 2104 | 1977 | 5.75 | cps |
| Potassium | 39-2 | 4360678 | 4425707 | 4353552 | 4379979 | 0.91 | cps |
| Rhodium | 103-1 | 26593552 | 26307165 | 26470790 | 26457169 | 0.54 | cps |
| Rhodium | 103-2 | 15467321 | 15481304 | 15348260 | 15432295 | 0.47 | cps |
| Scandium | 45-1 | 15474889 | 15452074 | 15343059 | 15423341 | 0.46 | cps |
| Scandium | 45-2 | 1354624 | 1363901 | 1385590 | 1368038 | 1.16 | cps |
| Selenium | 82-1 | 581 | 520 | 498 | 533 | 8.05 | cps |
| Selenium | 77-2 | 7 | 0 | 3 | 3 | 100.05 | cps |
| Selenium | 78-2 | 540 | 490 | 480 | 503 | 6.39 | cps |
| Silicon | 28-1 | 51227176 | 51303868 | 51535216 | 51355420 | 0.31 | cps |
| Silver | 107-1 | 253 | 280 | 287 | 273 | 6.45 | cps |
| Silver | 109-1 | 173 | 167 | 137 | 159 | 12.29 | cps |
| Sodium | 23-2 | 20265109 | 19904753 | 20261652 | 20143838 | 1.03 | cps |
| Strontium | 86-1 | 19551631 | 19549266 | 19610226 | 19570374 | 0.18 | cps |
| Strontium | 88-1 | 171513397 | 170658821 | 170896044 | 171022754 | 0.26 | cps |
| Sulfur | 34-1 | 1729664 | 1728261 | 1723130 | 1727018 | 0.20 | cps |
| Terbium | 159-1 | 34224537 | 34194174 | 34206247 | 34208319 | 0.04 | cps |
| Terbium | 159-2 | 22513022 | 22185871 | 22506581 | 22401825 | 0.83 | cps |
| Thallium | 203-1 | 777 | 693 | 777 | 749 | 6.42 | cps |
| Thallium | 205-1 | 1853 | 1743 | 1660 | 1752 | 5.53 | cps |
| Tin | 118-1 | 5654 | 5628 | 5771 | 5685 | 1.34 | cps |
| Titanium | 47-1 | 2337 | 2617 | 2680 | 2545 | 7.18 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-03 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z5 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:42:42 | DataFile Name : | 026SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 58903 | 59727 | 58367 | 58999 | 1.16 | cps |
| Vanadium | 51-2 | 2100 | 1930 | 2010 | 2013 | 4.22 | cps |
| Yttrium | 89-1 | 38693023 | 38434442 | 38251919 | 38459795 | 0.58 | cps |
| Yttrium | 89-2 | 9730908 | 9595406 | 9633357 | 9653224 | 0.72 | cps |
| Zinc | 66-2 | 11358 | 10771 | 10517 | 10882 | 3.96 | cps |
| Zirconium | 90-1 | 4988 | 5605 | 5148 | 5247 | 6.10 | cps |
| Zirconium | 91-1 | 1317 | 1087 | 1190 | 1198 | 9.62 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-04 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:45:52 | DataFile Name : | 027SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 6222 | 5731 | 5658 | 5871 | 5.23 | cps |
| Antimony | 121-1 | 1513 | 1743 | 1543 | 1600 | 7.82 | cps |
| Arsenic | 75-2 | 1943 | 1903 | 1967 | 1938 | 1.65 | cps |
| Barium | 135-1 | 531635 | 531660 | 529565 | 530953 | 0.23 | cps |
| Barium | 137-1 | 922449 | 922027 | 919635 | 921370 | 0.16 | cps |
| Beryllium | 9-1 | 100 | 72 | 83 | 85 | 16.41 | cps |
| Bismuth | 209-1 | 19869383 | 19806613 | 19448668 | 19708221 | 1.15 | cps |
| Bismuth | 209-2 | 15528395 | 15517260 | 15393866 | 15479840 | 0.48 | cps |
| Bromine | 81-1 | 36371 | 41966 | 43223 | 40520 | 9.00 | cps |
| Bromine | 81-2 | 5751 | 5478 | 5661 | 5630 | 2.48 | cps |
| Cadmium | 108-1 | 53 | 60 | 50 | 54 | 9.35 | cps |
| Cadmium | 106-1 | 11228 | 10377 | 10624 | 10743 | 4.07 | cps |
| Cadmium | 111-1 | 7932 | 7369 | 7525 | 7609 | 3.82 | cps |
| Calcium | 43-1 | 4853978 | 4827773 | 4816237 | 4832663 | 0.40 | cps |
| Calcium | 44-1 | 77132261 | 76870646 | 76687654 | 76896853 | 0.29 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 6048 | 6461 | 6035 | 6181 | 3.93 | cps |
| Cobalt | 59-2 | 2054 | 2044 | 2130 | 2076 | 2.28 | cps |
| Copper | 63-2 | 12832 | 12472 | 12866 | 12723 | 1.72 | cps |
| Dysprosium | 156-1 | 313 | 400 | 367 | 360 | 12.14 | cps |
| Dysprosium | 156-2 | 267 | 290 | 300 | 286 | 5.99 | cps |
| Erbium | 164-1 | 207 | 233 | 233 | 224 | 6.86 | cps |
| Erbium | 164-2 | 97 | 157 | 137 | 130 | 23.50 | cps |
| Gadolinium | 160-1 | 533 | 433 | 533 | 500 | 11.55 | cps |
| Gadolinium | 160-2 | 1647 | 1630 | 1633 | 1637 | 0.54 | cps |
| Holmium | 165-1 | 33690270 | 33687595 | 33361700 | 33579855 | 0.56 | cps |
| Holmium | 165-2 | 22744275 | 22569886 | 22856003 | 22723388 | 0.63 | cps |
| Indium | 115-1 | 28480117 | 28413939 | 27825107 | 28239721 | 1.28 | cps |
| Indium | 115-2 | 9936038 | 9764785 | 9734544 | 9811789 | 1.11 | cps |
| Iron | 56-2 | 434952 | 416392 | 411620 | 420988 | 2.93 | cps |
| Iron | 57-2 | 98607 | 99396 | 99060 | 99021 | 0.40 | cps |
| Iron | 54-2 | 24574 | 24984 | 24707 | 24755 | 0.85 | cps |
| Krypton | 83-1 | 270 | 230 | 257 | 252 | 8.08 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-04 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:45:52 | DataFile Name : | 027SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 3867 | 3961 | 3851 | 3893 | 1.52 | cps |
| Lead | 207-1 | 3494 | 3217 | 3424 | 3378 | 4.26 | cps |
| Lead | 208-1 | 15444 | 15404 | 15107 | 15318 | 1.20 | cps |
| Lithium | 6-1 | 3382929 | 3246180 | 3196603 | 3275237 | 2.95 | cps |
| Magnesium | 24-2 | 27238772 | 27347992 | 27046712 | 27211159 | 0.56 | cps |
| Manganese | 55-2 | 58875 | 58182 | 57473 | 58176 | 1.21 | cps |
| Molybdenum | 94-1 | 37678 | 37294 | 37104 | 37359 | 0.78 | cps |
| Molybdenum | 95-1 | 64136 | 63815 | 63979 | 63977 | 0.25 | cps |
| Molybdenum | 96-1 | 69618 | 69698 | 69146 | 69487 | 0.43 | cps |
| Molybdenum | 97-1 | 40128 | 40386 | 39597 | 40037 | 1.00 | cps |
| Molybdenum | 98-1 | 104091 | 105437 | 104313 | 104614 | 0.69 | cps |
| Neodymium | 150-1 | 167 | 153 | 150 | 157 | 5.63 | cps |
| Neodymium | 150-2 | 83 | 67 | 83 | 78 | 12.37 | cps |
| Nickel | 60-2 | 4161 | 4224 | 4291 | 4225 | 1.54 | cps |
| Phosphorus | 31-2 | 1543 | 1437 | 1457 | 1479 | 3.83 | cps |
| Potassium | 39-2 | 4279224 | 4165309 | 4180858 | 4208464 | 1.47 | cps |
| Rhodium | 103-1 | 26951260 | 26401909 | 26322465 | 26558545 | 1.29 | cps |
| Rhodium | 103-2 | 15316346 | 15362858 | 15402229 | 15360478 | 0.28 | cps |
| Scandium | 45-1 | 15366519 | 15388339 | 15166960 | 15307273 | 0.80 | cps |
| Scandium | 45-2 | 1384705 | 1353741 | 1371131 | 1369859 | 1.13 | cps |
| Selenium | 82-1 | 620 | 550 | 558 | 576 | 6.64 | cps |
| Selenium | 77-2 | 7 | 3 | 7 | 6 | 34.70 | cps |
| Selenium | 78-2 | 547 | 417 | 493 | 486 | 13.46 | cps |
| Silicon | 28-1 | 51235061 | 51641359 | 51771421 | 51549280 | 0.54 | cps |
| Silver | 107-1 | 240 | 230 | 277 | 249 | 9.87 | cps |
| Silver | 109-1 | 143 | 143 | 133 | 140 | 4.12 | cps |
| Sodium | 23-2 | 20693530 | 20544973 | 20699222 | 20645908 | 0.42 | cps |
| Strontium | 86-1 | 20042703 | 20156085 | 19782456 | 19993748 | 0.96 | cps |
| Strontium | 88-1 | 176655951 | 175834604 | 175015517 | 175835357 | 0.47 | cps |
| Sulfur | 34-1 | 1709511 | 1742350 | 1789815 | 1747225 | 2.31 | cps |
| Terbium | 159-1 | 34706259 | 34057176 | 34025275 | 34262904 | 1.12 | cps |
| Terbium | 159-2 | 22583530 | 22563964 | 22945268 | 22697587 | 0.95 | cps |
| Thallium | 203-1 | 773 | 670 | 680 | 708 | 8.05 | cps |
| Thallium | 205-1 | 1610 | 1550 | 1517 | 1559 | 3.03 | cps |
| Tin | 118-1 | 6368 | 5938 | 5781 | 6029 | 5.04 | cps |
| Titanium | 47-1 | 1320 | 1220 | 3087 | 1876 | 55.99 | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-04 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z7 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:45:52 | DataFile Name : | 027SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 60005 | 61193 | 61364 | 60854 | 1.22 | cps |
| Vanadium | 51-2 | 1630 | 1893 | 1683 | 1736 | 8.02 | cps |
| Yttrium | 89-1 | 38662264 | 38370916 | 38075781 | 38369654 | 0.76 | cps |
| Yttrium | 89-2 | 9496860 | 9490714 | 9537550 | 9508375 | 0.27 | cps |
| Zinc | 66-2 | 9633 | 9423 | 9783 | 9613 | 1.88 | cps |
| Zirconium | 90-1 | 3107 | 2987 | 3510 | 3202 | 8.57 | cps |
| Zirconium | 91-1 | 680 | 660 | 653 | 664 | 2.09 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-05 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A13 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:49:00 | DataFile Name : | 028SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 8346 | 8637 | 10604 | 9195 | 13.36 | cps |
| Antimony | 121-1 | 1560 | 1597 | 1803 | 1653 | 7.94 | cps |
| Arsenic | 75-2 | 1760 | 1863 | 1640 | 1755 | 6.37 | cps |
| Barium | 135-1 | 518693 | 519875 | 519357 | 519308 | 0.11 | cps |
| Barium | 137-1 | 901226 | 899826 | 896787 | 899280 | 0.25 | cps |
| Beryllium | 9-1 | 100 | 72 | 106 | 93 | 19.29 | cps |
| Bismuth | 209-1 | 20056503 | 19872463 | 19914795 | 19947920 | 0.48 | cps |
| Bismuth | 209-2 | 15665338 | 15631518 | 15550581 | 15615812 | 0.38 | cps |
| Bromine | 81-1 | 36097 | 39790 | 42190 | 39359 | 7.80 | cps |
| Bromine | 81-2 | 5171 | 5221 | 5341 | 5244 | 1.67 | cps |
| Cadmium | 108-1 | 43 | 63 | 27 | 44 | 41.30 | cps |
| Cadmium | 106-1 | 11148 | 10864 | 10237 | 10750 | 4.34 | cps |
| Cadmium | 111-1 | 7880 | 7651 | 7224 | 7585 | 4.39 | cps |
| Calcium | 43-1 | 4695867 | 4723815 | 4670904 | 4696862 | 0.56 | cps |
| Calcium | 44-1 | 74298942 | 74998251 | 73883934 | 74393709 | 0.76 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 15712 | 15408 | 15488 | 15536 | 1.01 | cps |
| Cobalt | 59-2 | 2434 | 2430 | 2560 | 2475 | 3.00 | cps |
| Copper | 63-2 | 11078 | 11211 | 10791 | 11026 | 1.95 | cps |
| Dysprosium | 156-1 | 440 | 450 | 463 | 451 | 2.60 | cps |
| Dysprosium | 156-2 | 333 | 353 | 347 | 344 | 2.96 | cps |
| Erbium | 164-1 | 297 | 327 | 307 | 310 | 4.93 | cps |
| Erbium | 164-2 | 207 | 213 | 170 | 197 | 11.87 | cps |
| Gadolinium | 160-1 | 663 | 573 | 643 | 627 | 7.54 | cps |
| Gadolinium | 160-2 | 1500 | 1537 | 1597 | 1545 | 3.16 | cps |
| Holmium | 165-1 | 33821400 | 33907033 | 33728051 | 33818828 | 0.26 | cps |
| Holmium | 165-2 | 23098312 | 23241952 | 22786575 | 23042280 | 1.01 | cps |
| Indium | 115-1 | 28485923 | 28370019 | 27843706 | 28233216 | 1.21 | cps |
| Indium | 115-2 | 9687085 | 9865479 | 9783606 | 9778723 | 0.91 | cps |
| Iron | 56-2 | 492139 | 487566 | 483705 | 487803 | 0.87 | cps |
| Iron | 57-2 | 97446 | 99185 | 99627 | 98753 | 1.17 | cps |
| Iron | 54-2 | 28343 | 28397 | 28854 | 28532 | 0.98 | cps |
| Krypton | 83-1 | 217 | 277 | 273 | 256 | 13.19 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-05 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A13 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:49:00 | DataFile Name : | 028SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 5815 | 5421 | 5755 | 5663 | 3.74 | cps |
| Lead | 207-1 | 4818 | 4611 | 4748 | 4725 | 2.23 | cps |
| Lead | 208-1 | 22487 | 22004 | 21980 | 22157 | 1.29 | cps |
| Lithium | 6-1 | 3285194 | 3187956 | 3243907 | 3239019 | 1.51 | cps |
| Magnesium | 24-2 | 26431838 | 26447347 | 26625782 | 26501656 | 0.41 | cps |
| Manganese | 55-2 | 81174 | 80500 | 81646 | 81107 | 0.71 | cps |
| Molybdenum | 94-1 | 35713 | 34875 | 34952 | 35180 | 1.32 | cps |
| Molybdenum | 95-1 | 61304 | 61465 | 61130 | 61300 | 0.27 | cps |
| Molybdenum | 96-1 | 66353 | 65124 | 64622 | 65366 | 1.36 | cps |
| Molybdenum | 97-1 | 37906 | 38227 | 38056 | 38063 | 0.42 | cps |
| Molybdenum | 98-1 | 97784 | 96476 | 97341 | 97200 | 0.68 | cps |
| Neodymium | 150-1 | 203 | 210 | 210 | 208 | 1.85 | cps |
| Neodymium | 150-2 | 127 | 103 | 87 | 106 | 19.04 | cps |
| Nickel | 60-2 | 8516 | 8069 | 8109 | 8231 | 3.00 | cps |
| Phosphorus | 31-2 | 1547 | 1660 | 1653 | 1620 | 3.93 | cps |
| Potassium | 39-2 | 4187660 | 4239867 | 4262933 | 4230153 | 0.91 | cps |
| Rhodium | 103-1 | 26289129 | 26069869 | 25953178 | 26104059 | 0.65 | cps |
| Rhodium | 103-2 | 15360718 | 15476883 | 15353191 | 15396930 | 0.45 | cps |
| Scandium | 45-1 | 15221446 | 15361039 | 15152638 | 15245041 | 0.70 | cps |
| Scandium | 45-2 | 1332386 | 1342514 | 1338289 | 1337729 | 0.38 | cps |
| Selenium | 82-1 | 575 | 465 | 534 | 525 | 10.54 | cps |
| Selenium | 77-2 | 7 | 3 | 3 | 4 | 43.40 | cps |
| Selenium | 78-2 | 443 | 543 | 520 | 502 | 10.42 | cps |
| Silicon | 28-1 | 51007413 | 50918966 | 50550491 | 50825623 | 0.48 | cps |
| Silver | 107-1 | 233 | 287 | 257 | 259 | 10.33 | cps |
| Silver | 109-1 | 90 | 117 | 127 | 111 | 17.06 | cps |
| Sodium | 23-2 | 19806367 | 19947294 | 19846696 | 19866786 | 0.37 | cps |
| Strontium | 86-1 | 19394433 | 19472017 | 19000589 | 19289013 | 1.31 | cps |
| Strontium | 88-1 | 168354371 | 168704471 | 165778334 | 167612392 | 0.95 | cps |
| Sulfur | 34-1 | 1758335 | 1723641 | 1743921 | 1741966 | 1.00 | cps |
| Terbium | 159-1 | 34790567 | 34522999 | 33987537 | 34433701 | 1.19 | cps |
| Terbium | 159-2 | 22693111 | 22616183 | 22510149 | 22606481 | 0.41 | cps |
| Thallium | 203-1 | 700 | 637 | 577 | 638 | 9.67 | cps |
| Thallium | 205-1 | 1610 | 1493 | 1413 | 1506 | 6.57 | cps |
| Tin | 118-1 | 5118 | 4838 | 4868 | 4941 | 3.11 | cps |
| Titanium | 47-1 | 1460 | 1707 | 1517 | 1561 | 8.28 | cps |

Reviewed By:Mohan
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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-05 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A13 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:49:00 | DataFile Name : | 028SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 58471 | 58464 | 59405 | 58780 | 0.92 | cps |
| Vanadium | 51-2 | 1800 | 1763 | 1863 | 1809 | 2.80 | cps |
| Yttrium | 89-1 | 38157634 | 37944585 | 37650594 | 37917604 | 0.67 | cps |
| Yttrium | 89-2 | 9595537 | 9496192 | 9516423 | 9536050 | 0.55 | cps |
| Zinc | 66-2 | 8986 | 8939 | 8796 | 8907 | 1.11 | cps |
| Zirconium | 90-1 | 3434 | 3264 | 3601 | 3433 | 4.91 | cps |
| Zirconium | 91-1 | 790 | 623 | 707 | 707 | 11.79 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-06 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A19 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:52:10 | DataFile Name : | 029SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 10000 | 9877 | 9480 | 9785 | 2.78 | cps |
| Antimony | 121-1 | 937 | 910 | 1027 | 958 | 6.38 | cps |
| Arsenic | 75-2 | 7 | 10 | 13 | 10 | 33.30 | cps |
| Barium | 135-1 | 1100 | 1007 | 1450 | 1186 | 19.72 | cps |
| Barium | 137-1 | 2080 | 1990 | 2480 | 2184 | 11.95 | cps |
| Beryllium | 9-1 | 61 | 50 | 100 | 70 | 37.31 | cps |
| Bismuth | 209-1 | 20759033 | 19617391 | 20132675 | 20169700 | 2.83 | cps |
| Bismuth | 209-2 | 16237502 | 15939119 | 16194941 | 16123854 | 1.00 | cps |
| Bromine | 81-1 | 19116 | 18922 | 17831 | 18623 | 3.72 | cps |
| Bromine | 81-2 | 323 | 340 | 307 | 323 | 5.16 | cps |
| Cadmium | 108-1 | 23 | 37 | 43 | 34 | 29.57 | cps |
| Cadmium | 106-1 | 11164 | 10447 | 10591 | 10734 | 3.54 | cps |
| Cadmium | 111-1 | 7835 | 7331 | 7496 | 7554 | 3.41 | cps |
| Calcium | 43-1 | 8669 | 7919 | 8316 | 8301 | 4.52 | cps |
| Calcium | 44-1 | 148535 | 145685 | 146084 | 146768 | 1.05 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 4384 | 4374 | 4167 | 4308 | 2.84 | cps |
| Cobalt | 59-2 | 203 | 187 | 137 | 176 | 19.76 | cps |
| Copper | 63-2 | 6902 | 6925 | 6872 | 6899 | 0.39 | cps |
| Dysprosium | 156-1 | 13 | 30 | 27 | 23 | 37.81 | cps |
| Dysprosium | 156-2 | 17 | 47 | 17 | 27 | 64.94 | cps |
| Erbium | 164-1 | 143 | 147 | 140 | 143 | 2.33 | cps |
| Erbium | 164-2 | 97 | 57 | 110 | 88 | 31.62 | cps |
| Gadolinium | 160-1 | 113 | 127 | 160 | 133 | 18.03 | cps |
| Gadolinium | 160-2 | 1203 | 1377 | 1320 | 1300 | 6.80 | cps |
| Holmium | 165-1 | 33836576 | 32106533 | 33220042 | 33054384 | 2.65 | cps |
| Holmium | 165-2 | 22932083 | 22849922 | 22937173 | 22906393 | 0.21 | cps |
| Indium | 115-1 | 28942568 | 27690222 | 28372443 | 28335078 | 2.21 | cps |
| Indium | 115-2 | 10108794 | 9843182 | 9814951 | 9922309 | 1.63 | cps |
| Iron | 56-2 | 44606 | 44432 | 43733 | 44257 | 1.04 | cps |
| Iron | 57-2 | 2033 | 1860 | 2023 | 1972 | 4.93 | cps |
| Iron | 54-2 | 4567 | 4557 | 4494 | 4540 | 0.88 | cps |
| Krypton | 83-1 | 297 | 307 | 323 | 309 | 4.36 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-06 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A19 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:52:10 | DataFile Name : | 029SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2224 | 2147 | 2187 | 2186 | 1.75 | cps |
| Lead | 207-1 | 1783 | 1847 | 1857 | 1829 | 2.17 | cps |
| Lead | 208-1 | 8574 | 8418 | 8498 | 8497 | 0.92 | cps |
| Lithium | 6-1 | 3418318 | 3188487 | 3278971 | 3295259 | 3.51 | cps |
| Magnesium | 24-2 | 8129 | 8019 | 7902 | 8017 | 1.41 | cps |
| Manganese | 55-2 | 6491 | 6108 | 6385 | 6328 | 3.13 | cps |
| Molybdenum | 94-1 | 647 | 657 | 633 | 646 | 1.81 | cps |
| Molybdenum | 95-1 | 157 | 133 | 173 | 154 | 13.01 | cps |
| Molybdenum | 96-1 | 287 | 270 | 250 | 269 | 6.83 | cps |
| Molybdenum | 97-1 | 77 | 63 | 87 | 76 | 15.50 | cps |
| Molybdenum | 98-1 | 223 | 203 | 223 | 217 | 5.33 | cps |
| Neodymium | 150-1 | 23 | 20 | 23 | 22 | 8.65 | cps |
| Neodymium | 150-2 | 10 | 10 | 3 | 8 | 49.52 | cps |
| Nickel | 60-2 | 820 | 863 | 890 | 858 | 4.12 | cps |
| Phosphorus | 31-2 | 450 | 387 | 463 | 433 | 9.45 | cps |
| Potassium | 39-2 | 82405 | 82492 | 83430 | 82775 | 0.69 | cps |
| Rhodium | 103-1 | 27078618 | 25747025 | 26587324 | 26470989 | 2.54 | cps |
| Rhodium | 103-2 | 15958160 | 15935106 | 15749567 | 15880944 | 0.72 | cps |
| Scandium | 45-1 | 15372559 | 14460107 | 14995961 | 14942876 | 3.07 | cps |
| Scandium | 45-2 | 1328864 | 1359397 | 1318029 | 1335430 | 1.61 | cps |
| Selenium | 82-1 | 474 | 434 | 356 | 421 | 14.26 | cps |
| Selenium | 77-2 | 7 | 3 | 3 | 4 | 43.40 | cps |
| Selenium | 78-2 | 480 | 383 | 500 | 454 | 13.73 | cps |
| Silicon | 28-1 | 806635 | 808072 | 814175 | 809627 | 0.49 | cps |
| Silver | 107-1 | 250 | 193 | 270 | 238 | 16.72 | cps |
| Silver | 109-1 | 133 | 187 | 250 | 190 | 30.74 | cps |
| Sodium | 23-2 | 119845 | 119435 | 118615 | 119298 | 0.52 | cps |
| Strontium | 86-1 | 3904 | 2904 | 2797 | 3202 | 19.07 | cps |
| Strontium | 88-1 | 30432 | 23168 | 21076 | 24892 | 19.73 | cps |
| Sulfur | 34-1 | 326385 | 325257 | 328216 | 326619 | 0.46 | cps |
| Terbium | 159-1 | 34770515 | 33076248 | 33591531 | 33812765 | 2.57 | cps |
| Terbium | 159-2 | 22858388 | 22421221 | 22207257 | 22495622 | 1.48 | cps |
| Thallium | 203-1 | 527 | 370 | 460 | 452 | 17.39 | cps |
| Thallium | 205-1 | 1140 | 1097 | 1093 | 1110 | 2.35 | cps |
| Tin | 118-1 | 4301 | 4728 | 4337 | 4455 | 5.32 | cps |
| Titanium | 47-1 | 220 | 233 | 243 | 232 | 5.04 | cps |

Reviewed By:Mohan
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| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-06 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A19 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:52:10 | DataFile Name : | 029SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 37 | 53 | 113 | 68 | 59.50 | cps |
| Vanadium | 51-2 | 127 | 113 | 60 | 100 | 35.28 | cps |
| Yttrium | 89-1 | 38293333 | 36043932 | 36502250 | 36946505 | 3.22 | cps |
| Yttrium | 89-2 | 9724257 | 9517597 | 9561025 | 9600960 | 1.13 | cps |
| Zinc | 66-2 | 11388 | 11615 | 11681 | 11561 | 1.33 | cps |
| Zirconium | 90-1 | 1840 | 1767 | 1650 | 1752 | 5.47 | cps |
| Zirconium | 91-1 | 343 | 347 | 347 | 346 | 0.56 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-07 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A22 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:55:24 | DataFile Name : | 030SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 950 | 1007 | 923 | 960 | 4.43 | cps |
| Antimony | 121-1 | 133 | 120 | 137 | 130 | 6.79 | cps |
| Arsenic | 75-2 | 17 | 17 | 27 | 20 | 28.86 | cps |
| Barium | 135-1 | 267 | 253 | 293 | 271 | 7.51 | cps |
| Barium | 137-1 | 427 | 450 | 413 | 430 | 4.32 | cps |
| Beryllium | 9-1 | 128 | 122 | 117 | 122 | 4.54 | cps |
| Bismuth | 209-1 | 20366519 | 20039708 | 19861349 | 20089192 | 1.28 | cps |
| Bismuth | 209-2 | 15785923 | 15711645 | 15580466 | 15692678 | 0.66 | cps |
| Bromine | 81-1 | 17100 | 16389 | 16609 | 16700 | 2.18 | cps |
| Bromine | 81-2 | 183 | 160 | 137 | 160 | 14.58 | cps |
| Cadmium | 108-1 | 27 | 23 | 47 | 32 | 39.17 | cps |
| Cadmium | 106-1 | 10511 | 10577 | 10250 | 10446 | 1.65 | cps |
| Cadmium | 111-1 | 7379 | 7424 | 7186 | 7330 | 1.73 | cps |
| Calcium | 43-1 | 4387 | 4307 | 4334 | 4343 | 0.94 | cps |
| Calcium | 44-1 | 84413 | 82855 | 83263 | 83510 | 0.97 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 4928 | 4711 | 4908 | 4849 | 2.47 | cps |
| Cobalt | 59-2 | 130 | 123 | 157 | 137 | 12.91 | cps |
| Copper | 63-2 | 2720 | 2567 | 2524 | 2604 | 3.97 | cps |
| Dysprosium | 156-1 | 27 | 20 | 20 | 22 | 17.33 | cps |
| Dysprosium | 156-2 | 37 | 27 | 13 | 26 | 45.82 | cps |
| Erbium | 164-1 | 123 | 143 | 140 | 136 | 7.91 | cps |
| Erbium | 164-2 | 67 | 87 | 107 | 87 | 23.08 | cps |
| Gadolinium | 160-1 | 153 | 143 | 167 | 154 | 7.58 | cps |
| Gadolinium | 160-2 | 1220 | 1323 | 1160 | 1235 | 6.69 | cps |
| Holmium | 165-1 | 33091441 | 32666756 | 33113937 | 32957378 | 0.76 | cps |
| Holmium | 165-2 | 22939385 | 22501984 | 22050801 | 22497390 | 1.97 | cps |
| Indium | 115-1 | 27949875 | 27850138 | 27551267 | 27783760 | 0.75 | cps |
| Indium | 115-2 | 9870912 | 9595124 | 9649849 | 9705295 | 1.50 | cps |
| Iron | 56-2 | 39258 | 39542 | 39127 | 39309 | 0.54 | cps |
| Iron | 57-2 | 1790 | 1700 | 1770 | 1753 | 2.70 | cps |
| Iron | 54-2 | 4421 | 4201 | 4377 | 4333 | 2.69 | cps |
| Krypton | 83-1 | 257 | 287 | 263 | 269 | 5.86 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-07 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A22 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:55:24 | DataFile Name : | 030SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2310 | 2114 | 2284 | 2236 | 4.77 | cps |
| Lead | 207-1 | 1943 | 1950 | 1917 | 1937 | 0.91 | cps |
| Lead | 208-1 | 9191 | 8848 | 9021 | 9020 | 1.90 | cps |
| Lithium | 6-1 | 3305605 | 3329543 | 3328775 | 3321308 | 0.41 | cps |
| Magnesium | 24-2 | 3977 | 4027 | 4031 | 4012 | 0.74 | cps |
| Manganese | 55-2 | 12465 | 12692 | 12615 | 12591 | 0.92 | cps |
| Molybdenum | 94-1 | 547 | 653 | 497 | 566 | 14.15 | cps |
| Molybdenum | 95-1 | 110 | 120 | 133 | 121 | 9.67 | cps |
| Molybdenum | 96-1 | 213 | 227 | 260 | 233 | 10.30 | cps |
| Molybdenum | 97-1 | 87 | 73 | 77 | 79 | 8.80 | cps |
| Molybdenum | 98-1 | 237 | 223 | 207 | 222 | 6.76 | cps |
| Neodymium | 150-1 | 20 | 37 | 30 | 29 | 29.04 | cps |
| Neodymium | 150-2 | 20 | 13 | 30 | 21 | 39.75 | cps |
| Nickel | 60-2 | 777 | 797 | 753 | 776 | 2.80 | cps |
| Phosphorus | 31-2 | 493 | 497 | 510 | 500 | 1.76 | cps |
| Potassium | 39-2 | 81631 | 81158 | 79965 | 80918 | 1.06 | cps |
| Rhodium | 103-1 | 26498686 | 26415786 | 26180526 | 26365000 | 0.63 | cps |
| Rhodium | 103-2 | 15599049 | 15427038 | 15499691 | 15508593 | 0.56 | cps |
| Scandium | 45-1 | 15057496 | 14703755 | 14648414 | 14803222 | 1.50 | cps |
| Scandium | 45-2 | 1321309 | 1319629 | 1299516 | 1313485 | 0.92 | cps |
| Selenium | 82-1 | 500 | 428 | 343 | 424 | 18.58 | cps |
| Selenium | 77-2 | 0 | 7 | 0 | 2 | 173.21 | cps |
| Selenium | 78-2 | 470 | 417 | 423 | 437 | 6.65 | cps |
| Silicon | 28-1 | 745593 | 744507 | 751528 | 747209 | 0.51 | cps |
| Silver | 107-1 | 243 | 253 | 180 | 226 | 17.63 | cps |
| Silver | 109-1 | 123 | 83 | 87 | 98 | 22.70 | cps |
| Sodium | 23-2 | 77138 | 76261 | 75457 | 76285 | 1.10 | cps |
| Strontium | 86-1 | 913 | 830 | 827 | 857 | 5.73 | cps |
| Strontium | 88-1 | 3334 | 3144 | 3094 | 3190 | 3.97 | cps |
| Sulfur | 34-1 | 323003 | 321397 | 321826 | 322075 | 0.26 | cps |
| Terbium | 159-1 | 33918904 | 33825245 | 33338317 | 33694155 | 0.93 | cps |
| Terbium | 159-2 | 22283230 | 22391760 | 22174378 | 22283122 | 0.49 | cps |
| Thallium | 203-1 | 453 | 407 | 317 | 392 | 17.71 | cps |
| Thallium | 205-1 | 973 | 1060 | 843 | 959 | 11.37 | cps |
| Tin | 118-1 | 5004 | 5054 | 4824 | 4961 | 2.44 | cps |
| Titanium | 47-1 | 223 | 270 | 240 | 244 | 9.68 | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-07 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A22 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:55:24 | DataFile Name : | 030SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 43 | 23 | 33 | 33 | 30.00 | cps |
| Vanadium | 51-2 | 90 | 63 | 80 | 78 | 17.32 | cps |
| Yttrium | 89-1 | 37008344 | 36558554 | 36116187 | 36561028 | 1.22 | cps |
| Yttrium | 89-2 | 9301253 | 9327515 | 9190594 | 9273121 | 0.78 | cps |
| Zinc | 66-2 | 8086 | 8162 | 8116 | 8121 | 0.48 | cps |
| Zirconium | 90-1 | 1517 | 1610 | 1553 | 1560 | 3.01 | cps |
| Zirconium | 91-1 | 317 | 287 | 277 | 293 | 7.10 | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-08 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A23 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:58:40 | DataFile Name : | 031SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1764 | 1380 | 1470 | 1538 | 13.06 | cps |
| Antimony | 121-1 | 183 | 90 | 147 | 140 | 33.59 | cps |
| Arsenic | 75-2 | 10 | 20 | 7 | 12 | 56.76 | cps |
| Barium | 135-1 | 400 | 397 | 327 | 374 | 11.06 | cps |
| Barium | 137-1 | 747 | 700 | 680 | 709 | 4.83 | cps |
| Beryllium | 9-1 | 111 | 117 | 94 | 107 | 10.77 | cps |
| Bismuth | 209-1 | 20375738 | 20131093 | 20122810 | 20209881 | 0.71 | cps |
| Bismuth | 209-2 | 15611456 | 15667731 | 15625732 | 15634973 | 0.19 | cps |
| Bromine | 81-1 | 16022 | 16873 | 16466 | 16454 | 2.59 | cps |
| Bromine | 81-2 | 137 | 97 | 147 | 127 | 20.89 | cps |
| Cadmium | 108-1 | 20 | 23 | 37 | 27 | 33.08 | cps |
| Cadmium | 106-1 | 10761 | 10431 | 10407 | 10533 | 1.88 | cps |
| Cadmium | 111-1 | 7565 | 7348 | 7313 | 7409 | 1.84 | cps |
| Calcium | 43-1 | 4324 | 4247 | 4117 | 4230 | 2.47 | cps |
| Calcium | 44-1 | 80184 | 79071 | 79617 | 79624 | 0.70 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 4757 | 4594 | 4514 | 4622 | 2.68 | cps |
| Cobalt | 59-2 | 183 | 150 | 137 | 157 | 15.34 | cps |
| Copper | 63-2 | 3120 | 2910 | 3060 | 3030 | 3.57 | cps |
| Dysprosium | 156-1 | 33 | 10 | 17 | 20 | 60.08 | cps |
| Dysprosium | 156-2 | 13 | 7 | 10 | 10 | 33.30 | cps |
| Erbium | 164-1 | 147 | 137 | 140 | 141 | 3.61 | cps |
| Erbium | 164-2 | 80 | 67 | 90 | 79 | 14.84 | cps |
| Gadolinium | 160-1 | 160 | 203 | 153 | 172 | 15.76 | cps |
| Gadolinium | 160-2 | 1270 | 1310 | 1217 | 1266 | 3.70 | cps |
| Holmium | 165-1 | 33274257 | 32643807 | 32289098 | 32735721 | 1.52 | cps |
| Holmium | 165-2 | 22224636 | 22488506 | 22168248 | 22293797 | 0.77 | cps |
| Indium | 115-1 | 28056602 | 27824918 | 27818698 | 27900073 | 0.49 | cps |
| Indium | 115-2 | 9677941 | 9639771 | 9609853 | 9642522 | 0.35 | cps |
| Iron | 56-2 | 40782 | 43672 | 40768 | 41741 | 4.01 | cps |
| Iron | 57-2 | 1893 | 1800 | 1790 | 1828 | 3.12 | cps |
| Iron | 54-2 | 4257 | 4241 | 4161 | 4220 | 1.23 | cps |
| Krypton | 83-1 | 280 | 283 | 230 | 264 | 11.30 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-08 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A23 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:58:40 | DataFile Name : | 031SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2337 | 2244 | 2277 | 2286 | 2.07 | cps |
| Lead | 207-1 | 2014 | 1810 | 1727 | 1850 | 7.97 | cps |
| Lead | 208-1 | 9305 | 8741 | 8481 | 8842 | 4.76 | cps |
| Lithium | 6-1 | 3291969 | 3273874 | 3306773 | 3290872 | 0.50 | cps |
| Magnesium | 24-2 | 3787 | 3891 | 3951 | 3876 | 2.13 | cps |
| Manganese | 55-2 | 6918 | 6635 | 6985 | 6846 | 2.72 | cps |
| Molybdenum | 94-1 | 587 | 610 | 630 | 609 | 3.56 | cps |
| Molybdenum | 95-1 | 110 | 117 | 83 | 103 | 17.07 | cps |
| Molybdenum | 96-1 | 267 | 187 | 257 | 237 | 18.42 | cps |
| Molybdenum | 97-1 | 97 | 67 | 67 | 77 | 22.59 | cps |
| Molybdenum | 98-1 | 180 | 180 | 153 | 171 | 9.00 | cps |
| Neodymium | 150-1 | 23 | 10 | 7 | 13 | 66.12 | cps |
| Neodymium | 150-2 | 3 | 20 | 13 | 12 | 68.66 | cps |
| Nickel | 60-2 | 680 | 687 | 590 | 652 | 8.28 | cps |
| Phosphorus | 31-2 | 350 | 423 | 483 | 419 | 15.94 | cps |
| Potassium | 39-2 | 79385 | 80357 | 80079 | 79940 | 0.63 | cps |
| Rhodium | 103-1 | 26463755 | 26290585 | 26041026 | 26265122 | 0.81 | cps |
| Rhodium | 103-2 | 15660983 | 15478848 | 15435599 | 15525143 | 0.77 | cps |
| Scandium | 45-1 | 14947080 | 14861286 | 14708071 | 14838813 | 0.82 | cps |
| Scandium | 45-2 | 1314791 | 1312863 | 1292006 | 1306553 | 0.97 | cps |
| Selenium | 82-1 | 472 | 390 | 402 | 421 | 10.53 | cps |
| Selenium | 77-2 | 7 | 0 | 0 | 2 | 173.21 | cps |
| Selenium | 78-2 | 463 | 417 | 417 | 432 | 6.23 | cps |
| Silicon | 28-1 | 730756 | 734153 | 740325 | 735078 | 0.66 | cps |
| Silver | 107-1 | 267 | 207 | 223 | 232 | 13.34 | cps |
| Silver | 109-1 | 70 | 97 | 130 | 99 | 30.40 | cps |
| Sodium | 23-2 | 89545 | 89518 | 89022 | 89362 | 0.33 | cps |
| Strontium | 86-1 | 1440 | 1383 | 1290 | 1371 | 5.52 | cps |
| Strontium | 88-1 | 8696 | 7672 | 8052 | 8140 | 6.36 | cps |
| Sulfur | 34-1 | 321739 | 323119 | 323017 | 322625 | 0.24 | cps |
| Terbium | 159-1 | 34134404 | 33901739 | 33629455 | 33888533 | 0.75 | cps |
| Terbium | 159-2 | 22243571 | 22058956 | 22172613 | 22158380 | 0.42 | cps |
| Thallium | 203-1 | 453 | 337 | 380 | 390 | 15.12 | cps |
| Thallium | 205-1 | 1010 | 873 | 837 | 907 | 10.08 | cps |
| Tin | 118-1 | 5918 | 5955 | 5971 | 5948 | 0.46 | cps |
| Titanium | 47-1 | 220 | 240 | 223 | 228 | 4.70 | cps |

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| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-08 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A23 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 14:58:40 | DataFile Name : | 031SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 60 | 37 | 37 | 44 | 30.31 | cps |
| Vanadium | 51-2 | 153 | 103 | 140 | 132 | 19.59 | cps |
| Yttrium | 89-1 | 36955981 | 36676924 | 36230967 | 36621291 | 1.00 | cps |
| Yttrium | 89-2 | 9375264 | 9339840 | 9317815 | 9344306 | 0.31 | cps |
| Zinc | 66-2 | 6291 | 6175 | 6275 | 6247 | 1.01 | cps |
| Zirconium | 90-1 | 1687 | 1570 | 1600 | 1619 | 3.74 | cps |
| Zirconium | 91-1 | 347 | 247 | 320 | 304 | 17.01 | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-09 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z9 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:01:54 | DataFile Name : | 032SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 8156 | 7909 | 8740 | 8268 | 5.16 | cps |
| Antimony | 121-1 | 1903 | 1887 | 1943 | 1911 | 1.52 | cps |
| Arsenic | 75-2 | 1753 | 1770 | 1857 | 1793 | 3.09 | cps |
| Barium | 135-1 | 535235 | 529140 | 534055 | 532810 | 0.61 | cps |
| Barium | 137-1 | 934398 | 927499 | 919824 | 927240 | 0.79 | cps |
| Beryllium | 9-1 | 44 | 89 | 39 | 57 | 47.73 | cps |
| Bismuth | 209-1 | 19175593 | 19219798 | 19460573 | 19285322 | 0.80 | cps |
| Bismuth | 209-2 | 15347601 | 15285810 | 15158899 | 15264103 | 0.63 | cps |
| Bromine | 81-1 | 32770 | 37411 | 39626 | 36602 | 9.56 | cps |
| Bromine | 81-2 | 4707 | 4871 | 5431 | 5003 | 7.59 | cps |
| Cadmium | 108-1 | 40 | 43 | 17 | 33 | 43.58 | cps |
| Cadmium | 106-1 | 10651 | 10747 | 10400 | 10600 | 1.69 | cps |
| Cadmium | 111-1 | 7497 | 7570 | 7385 | 7484 | 1.24 | cps |
| Calcium | 43-1 | 4708686 | 4654573 | 4750547 | 4704602 | 1.02 | cps |
| Calcium | 44-1 | 75402072 | 75398016 | 75883112 | 75561067 | 0.37 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 5895 | 6115 | 5741 | 5917 | 3.17 | cps |
| Cobalt | 59-2 | 2033 | 2170 | 2053 | 2086 | 3.54 | cps |
| Copper | 63-2 | 10257 | 9983 | 10147 | 10129 | 1.36 | cps |
| Dysprosium | 156-1 | 370 | 363 | 387 | 373 | 3.22 | cps |
| Dysprosium | 156-2 | 270 | 260 | 227 | 252 | 9.00 | cps |
| Erbium | 164-1 | 287 | 270 | 263 | 273 | 4.40 | cps |
| Erbium | 164-2 | 180 | 143 | 143 | 156 | 13.61 | cps |
| Gadolinium | 160-1 | 463 | 527 | 487 | 492 | 6.51 | cps |
| Gadolinium | 160-2 | 1587 | 1553 | 1700 | 1613 | 4.77 | cps |
| Holmium | 165-1 | 32226191 | 32949652 | 32735135 | 32636993 | 1.14 | cps |
| Holmium | 165-2 | 22039172 | 22233863 | 22378246 | 22217094 | 0.77 | cps |
| Indium | 115-1 | 26839865 | 27271184 | 27286235 | 27132428 | 0.93 | cps |
| Indium | 115-2 | 9508773 | 9596458 | 9544894 | 9550042 | 0.46 | cps |
| Iron | 56-2 | 525960 | 527668 | 527248 | 526959 | 0.17 | cps |
| Iron | 57-2 | 100225 | 101091 | 102262 | 101192 | 1.01 | cps |
| Iron | 54-2 | 31042 | 31246 | 30725 | 31004 | 0.85 | cps |
| Krypton | 83-1 | 360 | 277 | 230 | 289 | 22.80 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-09 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z9 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:01:54 | DataFile Name : | 032SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 44372 | 44412 | 44402 | 44396 | 0.05 | cps |
| Lead | 207-1 | 36014 | 36365 | 35700 | 36027 | 0.92 | cps |
| Lead | 208-1 | 169476 | 169737 | 169806 | 169673 | 0.10 | cps |
| Lithium | 6-1 | 3312639 | 3289696 | 3248084 | 3283473 | 1.00 | cps |
| Magnesium | 24-2 | 27065165 | 26995327 | 26787715 | 26949403 | 0.54 | cps |
| Manganese | 55-2 | 53956 | 53344 | 53030 | 53443 | 0.88 | cps |
| Molybdenum | 94-1 | 37424 | 36442 | 37254 | 37040 | 1.42 | cps |
| Molybdenum | 95-1 | 63038 | 62931 | 62968 | 62979 | 0.09 | cps |
| Molybdenum | 96-1 | 68610 | 67709 | 67498 | 67939 | 0.87 | cps |
| Molybdenum | 97-1 | 39774 | 39874 | 39436 | 39695 | 0.58 | cps |
| Molybdenum | 98-1 | 101929 | 103181 | 101815 | 102308 | 0.74 | cps |
| Neodymium | 150-1 | 213 | 157 | 150 | 173 | 20.08 | cps |
| Neodymium | 150-2 | 47 | 127 | 97 | 90 | 44.90 | cps |
| Nickel | 60-2 | 4331 | 4354 | 4234 | 4306 | 1.48 | cps |
| Phosphorus | 31-2 | 1333 | 1350 | 1317 | 1333 | 1.25 | cps |
| Potassium | 39-2 | 4124778 | 4116598 | 4124616 | 4121997 | 0.11 | cps |
| Rhodium | 103-1 | 25019503 | 25382614 | 25221639 | 25207919 | 0.72 | cps |
| Rhodium | 103-2 | 14956779 | 15164161 | 15018853 | 15046598 | 0.71 | cps |
| Scandium | 45-1 | 14722884 | 14611361 | 14752748 | 14695664 | 0.51 | cps |
| Scandium | 45-2 | 1332867 | 1325403 | 1328465 | 1328912 | 0.28 | cps |
| Selenium | 82-1 | 377 | 467 | 442 | 428 | 10.78 | cps |
| Selenium | 77-2 | 3 | 3 | 3 | 3 | 0.00 | cps |
| Selenium | 78-2 | 423 | 417 | 407 | 416 | 2.02 | cps |
| Silicon | 28-1 | 50807596 | 51478743 | 51858756 | 51381698 | 1.04 | cps |
| Silver | 107-1 | 243 | 170 | 267 | 227 | 22.25 | cps |
| Silver | 109-1 | 127 | 100 | 77 | 101 | 24.74 | cps |
| Sodium | 23-2 | 20653776 | 20649504 | 20286682 | 20529987 | 1.03 | cps |
| Strontium | 86-1 | 19599121 | 19573556 | 19774302 | 19648993 | 0.56 | cps |
| Strontium | 88-1 | 171656024 | 171707877 | 172186017 | 171849973 | 0.17 | cps |
| Sulfur | 34-1 | 1754075 | 1762255 | 1754915 | 1757082 | 0.26 | cps |
| Terbium | 159-1 | 33377358 | 33251571 | 33470360 | 33366430 | 0.33 | cps |
| Terbium | 159-2 | 22000185 | 22377715 | 22368214 | 22248704 | 0.97 | cps |
| Thallium | 203-1 | 673 | 607 | 557 | 612 | 9.56 | cps |
| Thallium | 205-1 | 1510 | 1440 | 1293 | 1415 | 7.82 | cps |
| Tin | 118-1 | 11571 | 11578 | 11992 | 11714 | 2.06 | cps |
| Titanium | 47-1 | 5258 | 18610 | 1873 | 8581 | 103.13 | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-09 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z9 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:01:54 | DataFile Name : | 032SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 61897 | 62218 | 61087 | 61734 | 0.94 | cps |
| Vanadium | 51-2 | 1833 | 1830 | 1997 | 1887 | 5.05 | cps |
| Yttrium | 89-1 | 36173993 | 36822796 | 36681621 | 36559470 | 0.93 | cps |
| Yttrium | 89-2 | 9340443 | 9302149 | 9363314 | 9335302 | 0.33 | cps |
| Zinc | 66-2 | 8769 | 8256 | 8449 | 8491 | 3.05 | cps |
| Zirconium | 90-1 | 3280 | 3421 | 2990 | 3231 | 6.80 | cps |
| Zirconium | 91-1 | 640 | 693 | 683 | 672 | 4.22 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-10 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:05:04 | DataFile Name : | 033SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 6749 | 6319 | 6091 | 6386 | 5.23 | cps |
| Antimony | 121-1 | 1773 | 1860 | 1737 | 1790 | 3.54 | cps |
| Arsenic | 75-2 | 1847 | 1747 | 1823 | 1806 | 2.90 | cps |
| Barium | 135-1 | 540280 | 543636 | 538340 | 540752 | 0.50 | cps |
| Barium | 137-1 | 932960 | 936078 | 935871 | 934970 | 0.19 | cps |
| Beryllium | 9-1 | 89 | 50 | 67 | 69 | 28.47 | cps |
| Bismuth | 209-1 | 20907547 | 19904056 | 19507399 | 20106334 | 3.59 | cps |
| Bismuth | 209-2 | 15317319 | 15191157 | 15297715 | 15268730 | 0.44 | cps |
| Bromine | 81-1 | 33889 | 38156 | 40255 | 37433 | 8.67 | cps |
| Bromine | 81-2 | 4908 | 4591 | 5038 | 4845 | 4.74 | cps |
| Cadmium | 108-1 | 33 | 57 | 23 | 38 | 45.29 | cps |
| Cadmium | 106-1 | 11415 | 11071 | 10591 | 11025 | 3.75 | cps |
| Cadmium | 111-1 | 8034 | 7810 | 7484 | 7776 | 3.56 | cps |
| Calcium | 43-1 | 4743496 | 4672782 | 4660341 | 4692206 | 0.96 | cps |
| Calcium | 44-1 | 74476064 | 74139417 | 74749344 | 74454942 | 0.41 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 5684 | 5901 | 5718 | 5768 | 2.02 | cps |
| Cobalt | 59-2 | 2033 | 2077 | 2120 | 2077 | 2.09 | cps |
| Copper | 63-2 | 10821 | 11031 | 10771 | 10874 | 1.27 | cps |
| Dysprosium | 156-1 | 267 | 287 | 353 | 302 | 15.02 | cps |
| Dysprosium | 156-2 | 187 | 230 | 230 | 216 | 11.61 | cps |
| Erbium | 164-1 | 260 | 263 | 227 | 250 | 8.11 | cps |
| Erbium | 164-2 | 107 | 163 | 193 | 154 | 28.50 | cps |
| Gadolinium | 160-1 | 470 | 400 | 457 | 442 | 8.40 | cps |
| Gadolinium | 160-2 | 1350 | 1587 | 1523 | 1487 | 8.24 | cps |
| Holmium | 165-1 | 34954734 | 33539708 | 32907408 | 33800616 | 3.10 | cps |
| Holmium | 165-2 | 22386234 | 22613464 | 22482692 | 22494130 | 0.51 | cps |
| Indium | 115-1 | 29328063 | 28335395 | 27580072 | 28414510 | 3.09 | cps |
| Indium | 115-2 | 9783212 | 9648252 | 9769791 | 9733752 | 0.76 | cps |
| Iron | 56-2 | 487398 | 473602 | 470124 | 477041 | 1.92 | cps |
| Iron | 57-2 | 98158 | 99145 | 98507 | 98603 | 0.51 | cps |
| Iron | 54-2 | 28474 | 28136 | 28083 | 28231 | 0.75 | cps |
| Krypton | 83-1 | 213 | 240 | 303 | 252 | 18.33 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-10 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:05:04 | DataFile Name : | 033SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 3737 | 3977 | 3684 | 3799 | 4.11 | cps |
| Lead | 207-1 | 3117 | 3137 | 2907 | 3054 | 4.17 | cps |
| Lead | 208-1 | 14476 | 14800 | 14003 | 14426 | 2.78 | cps |
| Lithium | 6-1 | 3433870 | 3277900 | 3247955 | 3319908 | 3.01 | cps |
| Magnesium | 24-2 | 26226709 | 26210301 | 25937055 | 26124689 | 0.62 | cps |
| Manganese | 55-2 | 58801 | 59637 | 58948 | 59129 | 0.76 | cps |
| Molybdenum | 94-1 | 37812 | 38347 | 37856 | 38005 | 0.78 | cps |
| Molybdenum | 95-1 | 63550 | 63959 | 64568 | 64026 | 0.80 | cps |
| Molybdenum | 96-1 | 68841 | 69819 | 68767 | 69142 | 0.85 | cps |
| Molybdenum | 97-1 | 40035 | 40790 | 39881 | 40235 | 1.21 | cps |
| Molybdenum | 98-1 | 103648 | 105518 | 103946 | 104371 | 0.96 | cps |
| Neodymium | 150-1 | 130 | 187 | 193 | 170 | 20.47 | cps |
| Neodymium | 150-2 | 60 | 317 | 80 | 152 | 93.82 | cps |
| Nickel | 60-2 | 4127 | 4157 | 4177 | 4154 | 0.61 | cps |
| Phosphorus | 31-2 | 1333 | 1370 | 1267 | 1323 | 3.96 | cps |
| Potassium | 39-2 | 4212076 | 4179346 | 4175918 | 4189113 | 0.48 | cps |
| Rhodium | 103-1 | 27172608 | 25886875 | 25655684 | 26238389 | 3.11 | cps |
| Rhodium | 103-2 | 15152125 | 15309960 | 15055785 | 15172623 | 0.85 | cps |
| Scandium | 45-1 | 15886999 | 15221600 | 15101402 | 15403334 | 2.75 | cps |
| Scandium | 45-2 | 1363351 | 1326120 | 1347114 | 1345528 | 1.39 | cps |
| Selenium | 82-1 | 520 | 537 | 405 | 487 | 14.67 | cps |
| Selenium | 77-2 | 7 | 0 | 3 | 3 | 100.05 | cps |
| Selenium | 78-2 | 467 | 537 | 537 | 513 | 7.87 | cps |
| Silicon | 28-1 | 51535738 | 51595458 | 51766261 | 51632485 | 0.23 | cps |
| Silver | 107-1 | 217 | 253 | 233 | 234 | 7.83 | cps |
| Silver | 109-1 | 70 | 87 | 133 | 97 | 33.96 | cps |
| Sodium | 23-2 | 20506353 | 20827451 | 20365976 | 20566593 | 1.15 | cps |
| Strontium | 86-1 | 20303839 | 20469073 | 20208557 | 20327156 | 0.65 | cps |
| Strontium | 88-1 | 177500951 | 178857644 | 176445144 | 177601246 | 0.68 | cps |
| Sulfur | 34-1 | 1918565 | 1937516 | 1924018 | 1926699 | 0.51 | cps |
| Terbium | 159-1 | 35643607 | 34508483 | 33885519 | 34679203 | 2.57 | cps |
| Terbium | 159-2 | 22129108 | 22095421 | 22167431 | 22130654 | 0.16 | cps |
| Thallium | 203-1 | 643 | 657 | 633 | 644 | 1.82 | cps |
| Thallium | 205-1 | 1607 | 1420 | 1347 | 1458 | 9.20 | cps |
| Tin | 118-1 | 5534 | 5504 | 5788 | 5609 | 2.78 | cps |
| Titanium | 47-1 | 1804 | 1520 | 1470 | 1598 | 11.27 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-10 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:05:04 | DataFile Name : | 033SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 60734 | 60551 | 60222 | 60502 | 0.43 | cps |
| Vanadium | 51-2 | 1750 | 1947 | 1713 | 1803 | 6.96 | cps |
| Yttrium | 89-1 | 39293395 | 37752727 | 37017209 | 38021111 | 3.06 | cps |
| Yttrium | 89-2 | 9445330 | 9542555 | 9374172 | 9454019 | 0.89 | cps |
| Zinc | 66-2 | 8869 | 8813 | 8826 | 8836 | 0.34 | cps |
| Zirconium | 90-1 | 4027 | 3727 | 3537 | 3764 | 6.57 | cps |
| Zirconium | 91-1 | 1458 | 883 | 893 | 1078 | 30.51 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-11RE | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:08:12 | DataFile Name : | 034SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 7079 | 10988 | 7383 | 8483 | 25.64 | cps |
| Antimony | 121-1 | 1680 | 1490 | 1607 | 1592 | 6.02 | cps |
| Arsenic | 75-2 | 1777 | 1800 | 1630 | 1736 | 5.31 | cps |
| Barium | 135-1 | 526884 | 529243 | 529220 | 528449 | 0.26 | cps |
| Barium | 137-1 | 913905 | 920022 | 917366 | 917098 | 0.33 | cps |
| Beryllium | 9-1 | 122 | 61 | 100 | 94 | 32.75 | cps |
| Bismuth | 209-1 | 19296324 | 19411706 | 19464859 | 19390963 | 0.44 | cps |
| Bismuth | 209-2 | 15214904 | 15381296 | 15216174 | 15270791 | 0.63 | cps |
| Bromine | 81-1 | 37170 | 43009 | 46650 | 42276 | 11.31 | cps |
| Bromine | 81-2 | 6105 | 6338 | 6438 | 6294 | 2.72 | cps |
| Cadmium | 108-1 | 37 | 27 | 43 | 36 | 23.58 | cps |
| Cadmium | 106-1 | 10187 | 10084 | 10264 | 10178 | 0.89 | cps |
| Cadmium | 111-1 | 7185 | 7133 | 7208 | 7175 | 0.53 | cps |
| Calcium | 43-1 | 4577699 | 4622073 | 4569891 | 4589888 | 0.61 | cps |
| Calcium | 44-1 | 74183992 | 73194366 | 72549306 | 73309221 | 1.12 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 8389 | 9760 | 9344 | 9164 | 7.67 | cps |
| Cobalt | 59-2 | 2130 | 2117 | 2157 | 2135 | 0.95 | cps |
| Copper | 63-2 | 9436 | 9707 | 9533 | 9559 | 1.43 | cps |
| Dysprosium | 156-1 | 290 | 313 | 287 | 297 | 4.90 | cps |
| Dysprosium | 156-2 | 207 | 177 | 220 | 201 | 11.04 | cps |
| Erbium | 164-1 | 280 | 233 | 267 | 260 | 9.25 | cps |
| Erbium | 164-2 | 150 | 183 | 143 | 159 | 13.49 | cps |
| Gadolinium | 160-1 | 437 | 400 | 393 | 410 | 5.69 | cps |
| Gadolinium | 160-2 | 1403 | 1540 | 1523 | 1489 | 5.01 | cps |
| Holmium | 165-1 | 32638427 | 32724595 | 32748805 | 32703943 | 0.18 | cps |
| Holmium | 165-2 | 22408652 | 22347270 | 22203991 | 22319971 | 0.47 | cps |
| Indium | 115-1 | 27560291 | 27043584 | 27212193 | 27272022 | 0.97 | cps |
| Indium | 115-2 | 9580795 | 9587359 | 9532102 | 9566752 | 0.32 | cps |
| Iron | 56-2 | 552135 | 538240 | 541278 | 543884 | 1.34 | cps |
| Iron | 57-2 | 97859 | 97165 | 99493 | 98173 | 1.22 | cps |
| Iron | 54-2 | 31420 | 33427 | 32315 | 32387 | 3.11 | cps |
| Krypton | 83-1 | 307 | 257 | 290 | 284 | 8.95 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-11RE | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:08:12 | DataFile Name : | 034SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 3631 | 3257 | 3450 | 3446 | 5.42 | cps |
| Lead | 207-1 | 2744 | 2780 | 2797 | 2774 | 0.98 | cps |
| Lead | 208-1 | 13069 | 12966 | 13009 | 13015 | 0.40 | cps |
| Lithium | 6-1 | 3238658 | 3181084 | 3138174 | 3185972 | 1.58 | cps |
| Magnesium | 24-2 | 25554630 | 25647960 | 25490685 | 25564425 | 0.31 | cps |
| Manganese | 55-2 | 555348 | 553080 | 558763 | 555730 | 0.51 | cps |
| Molybdenum | 94-1 | 37094 | 37104 | 36546 | 36914 | 0.87 | cps |
| Molybdenum | 95-1 | 63858 | 64846 | 63825 | 64176 | 0.90 | cps |
| Molybdenum | 96-1 | 69661 | 69199 | 68998 | 69286 | 0.49 | cps |
| Molybdenum | 97-1 | 39637 | 40770 | 39627 | 40011 | 1.64 | cps |
| Molybdenum | 98-1 | 104144 | 103899 | 102268 | 103437 | 0.99 | cps |
| Neodymium | 150-1 | 153 | 153 | 187 | 164 | 11.70 | cps |
| Neodymium | 150-2 | 63 | 77 | 73 | 71 | 9.76 | cps |
| Nickel | 60-2 | 5694 | 5574 | 5524 | 5598 | 1.56 | cps |
| Phosphorus | 31-2 | 1460 | 1337 | 1313 | 1370 | 5.75 | cps |
| Potassium | 39-2 | 4155159 | 4175688 | 4192870 | 4174573 | 0.45 | cps |
| Rhodium | 103-1 | 25291679 | 25496393 | 25378650 | 25388907 | 0.40 | cps |
| Rhodium | 103-2 | 14897880 | 15118439 | 14982500 | 14999606 | 0.74 | cps |
| Scandium | 45-1 | 14848660 | 14829755 | 14734067 | 14804161 | 0.41 | cps |
| Scandium | 45-2 | 1307908 | 1316853 | 1303763 | 1309508 | 0.51 | cps |
| Selenium | 82-1 | 462 | 480 | 416 | 453 | 7.31 | cps |
| Selenium | 77-2 | 7 | 0 | 3 | 3 | 100.05 | cps |
| Selenium | 78-2 | 473 | 477 | 490 | 480 | 1.84 | cps |
| Silicon | 28-1 | 50562421 | 50500584 | 50181086 | 50414697 | 0.41 | cps |
| Silver | 107-1 | 237 | 223 | 243 | 234 | 4.34 | cps |
| Silver | 109-1 | 83 | 93 | 87 | 88 | 5.80 | cps |
| Sodium | 23-2 | 22106264 | 21980969 | 22381528 | 22156254 | 0.92 | cps |
| Strontium | 86-1 | 19642367 | 19930561 | 19844171 | 19805700 | 0.75 | cps |
| Strontium | 88-1 | 172413871 | 175836084 | 173526117 | 173925357 | 1.00 | cps |
| Sulfur | 34-1 | 1799484 | 1764055 | 1755929 | 1773156 | 1.31 | cps |
| Terbium | 159-1 | 33417353 | 33558520 | 33106573 | 33360815 | 0.69 | cps |
| Terbium | 159-2 | 22066842 | 22030077 | 22253599 | 22116839 | 0.54 | cps |
| Thallium | 203-1 | 547 | 537 | 560 | 548 | 2.14 | cps |
| Thallium | 205-1 | 1413 | 1350 | 1230 | 1331 | 7.00 | cps |
| Tin | 118-1 | 6058 | 6295 | 6278 | 6210 | 2.13 | cps |
| Titanium | 47-1 | 1694 | 1407 | 1710 | 1604 | 10.64 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-11RE | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:08:12 | DataFile Name : | 034SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 59493 | 60085 | 59968 | 59848 | 0.52 | cps |
| Vanadium | 51-2 | 1727 | 1737 | 1833 | 1766 | 3.34 | cps |
| Yttrium | 89-1 | 36551954 | 36528018 | 36823059 | 36634343 | 0.45 | cps |
| Yttrium | 89-2 | 9210450 | 9251336 | 9476988 | 9312925 | 1.54 | cps |
| Zinc | 66-2 | 8412 | 8706 | 8486 | 8535 | 1.79 | cps |
| Zirconium | 90-1 | 3570 | 3681 | 3474 | 3575 | 2.89 | cps |
| Zirconium | 91-1 | 820 | 767 | 783 | 790 | 3.45 | cps |



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Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-10LX5 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2024-11-22 15:11:22 | DataFile Name : | 035SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1947 | 1607 | 1950 | 1835 | 10.76 | cps |
| Antimony | 121-1 | 403 | 377 | 383 | 388 | 3.58 | cps |
| Arsenic | 75-2 | 417 | 307 | 283 | 336 | 21.22 | cps |
| Barium | 135-1 | 97655 | 99703 | 99270 | 98876 | 1.09 | cps |
| Barium | 137-1 | 166465 | 173025 | 173191 | 170894 | 2.24 | cps |
| Beryllium | 9-1 | 89 | 83 | 89 | 87 | 3.69 | cps |
| Bismuth | 209-1 | 19297386 | 18864101 | 19237093 | 19132860 | 1.23 | cps |
| Bismuth | 209-2 | 15607106 | 15080312 | 15213093 | 15300170 | 1.79 | cps |
| Bromine | 81-1 | 21980 | 21993 | 22123 | 22032 | 0.36 | cps |
| Bromine | 81-2 | 1260 | 1413 | 1250 | 1308 | 7.00 | cps |
| Cadmium | 108-1 | 43 | 20 | 47 | 37 | 39.63 | cps |
| Cadmium | 106-1 | 10054 | 9810 | 9683 | 9849 | 1.91 | cps |
| Cadmium | 111-1 | 7037 | 6896 | 6799 | 6911 | 1.73 | cps |
| Calcium | 43-1 | 856028 | 887343 | 898640 | 880670 | 2.51 | cps |
| Calcium | 44-1 | 13199869 | 13705946 | 13494019 | 13466611 | 1.89 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 6261 | 6678 | 6371 | 6437 | 3.36 | cps |
| Cobalt | 59-2 | 493 | 537 | 520 | 517 | 4.23 | cps |
| Copper | 63-2 | 3827 | 3774 | 3867 | 3823 | 1.22 | cps |
| Dysprosium | 156-1 | 63 | 53 | 73 | 63 | 15.79 | cps |
| Dysprosium | 156-2 | 63 | 77 | 60 | 67 | 13.23 | cps |
| Erbium | 164-1 | 133 | 137 | 123 | 131 | 5.29 | cps |
| Erbium | 164-2 | 150 | 100 | 110 | 120 | 22.05 | cps |
| Gadolinium | 160-1 | 183 | 197 | 203 | 194 | 5.24 | cps |
| Gadolinium | 160-2 | 1293 | 1353 | 1330 | 1326 | 2.28 | cps |
| Holmium | 165-1 | 31411230 | 31272509 | 31613716 | 31432485 | 0.55 | cps |
| Holmium | 165-2 | 21813810 | 21796539 | 21929066 | 21846471 | 0.33 | cps |
| Indium | 115-1 | 26745980 | 26442501 | 26534831 | 26574437 | 0.59 | cps |
| Indium | 115-2 | 9458641 | 9383282 | 9336355 | 9392759 | 0.66 | cps |
| Iron | 56-2 | 123243 | 122400 | 122789 | 122811 | 0.34 | cps |
| Iron | 57-2 | 19232 | 19923 | 19970 | 19709 | 2.10 | cps |
| Iron | 54-2 | 9343 | 9530 | 9667 | 9513 | 1.71 | cps |
| Krypton | 83-1 | 233 | 243 | 273 | 250 | 8.33 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-10LX5 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2024-11-22 15:11:22 | DataFile Name : | 035SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2407 | 2507 | 2537 | 2484 | 2.74 | cps |
| Lead | 207-1 | 2234 | 2110 | 2134 | 2159 | 3.03 | cps |
| Lead | 208-1 | 9765 | 9778 | 9888 | 9810 | 0.69 | cps |
| Lithium | 6-1 | 3098835 | 3084149 | 3105145 | 3096043 | 0.35 | cps |
| Magnesium | 24-2 | 4937522 | 4845234 | 4905810 | 4896189 | 0.96 | cps |
| Manganese | 55-2 | 22397 | 22771 | 22580 | 22583 | 0.83 | cps |
| Molybdenum | 94-1 | 7152 | 7539 | 7435 | 7375 | 2.72 | cps |
| Molybdenum | 95-1 | 11538 | 11595 | 11912 | 11681 | 1.72 | cps |
| Molybdenum | 96-1 | 12566 | 13036 | 12686 | 12762 | 1.92 | cps |
| Molybdenum | 97-1 | 7135 | 7289 | 7242 | 7222 | 1.09 | cps |
| Molybdenum | 98-1 | 18455 | 18879 | 19500 | 18945 | 2.77 | cps |
| Neodymium | 150-1 | 50 | 37 | 50 | 46 | 16.89 | cps |
| Neodymium | 150-2 | 17 | 30 | 30 | 26 | 30.11 | cps |
| Nickel | 60-2 | 1527 | 1423 | 1373 | 1441 | 5.43 | cps |
| Phosphorus | 31-2 | 663 | 503 | 530 | 566 | 15.16 | cps |
| Potassium | 39-2 | 873087 | 866139 | 870374 | 869867 | 0.40 | cps |
| Rhodium | 103-1 | 25122930 | 25045294 | 24769662 | 24979295 | 0.74 | cps |
| Rhodium | 103-2 | 15219813 | 14982781 | 15088770 | 15097121 | 0.79 | cps |
| Scandium | 45-1 | 14498996 | 14236598 | 13964909 | 14233501 | 1.88 | cps |
| Scandium | 45-2 | 1295801 | 1268649 | 1267750 | 1277400 | 1.25 | cps |
| Selenium | 82-1 | 443 | 455 | 406 | 435 | 5.96 | cps |
| Selenium | 77-2 | 3 | 3 | 0 | 2 | 86.60 | cps |
| Selenium | 78-2 | 423 | 427 | 473 | 441 | 6.34 | cps |
| Silicon | 28-1 | 9778089 | 9991760 | 10194700 | 9988183 | 2.09 | cps |
| Silver | 107-1 | 193 | 227 | 180 | 200 | 12.02 | cps |
| Silver | 109-1 | 93 | 77 | 77 | 82 | 11.70 | cps |
| Sodium | 23-2 | 3908140 | 3918018 | 3934636 | 3920265 | 0.34 | cps |
| Strontium | 86-1 | 3574165 | 3698015 | 3731062 | 3667747 | 2.26 | cps |
| Strontium | 88-1 | 31404525 | 32367847 | 32259485 | 32010619 | 1.65 | cps |
| Sulfur | 34-1 | 558879 | 567000 | 565929 | 563936 | 0.78 | cps |
| Terbium | 159-1 | 32489617 | 32157564 | 32341411 | 32329531 | 0.51 | cps |
| Terbium | 159-2 | 21921697 | 21689970 | 21786558 | 21799408 | 0.53 | cps |
| Thallium | 203-1 | 340 | 267 | 343 | 317 | 13.68 | cps |
| Thallium | 205-1 | 740 | 797 | 847 | 794 | 6.72 | cps |
| Tin | 118-1 | 7399 | 7539 | 8619 | 7852 | 8.50 | cps |
| Titanium | 47-1 | 433 | 480 | 500 | 471 | 7.26 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-10LX5 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2024-11-22 15:11:22 | DataFile Name : | 035SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 10784 | 11278 | 11375 | 11146 | 2.84 | cps |
| Vanadium | 51-2 | 387 | 333 | 387 | 369 | 8.35 | cps |
| Yttrium | 89-1 | 35688730 | 34781605 | 35003169 | 35157835 | 1.35 | cps |
| Yttrium | 89-2 | 9212782 | 9037861 | 9254059 | 9168234 | 1.25 | cps |
| Zinc | 66-2 | 12652 | 12585 | 12529 | 12589 | 0.49 | cps |
| Zirconium | 90-1 | 2090 | 2107 | 2124 | 2107 | 0.79 | cps |
| Zirconium | 91-1 | 493 | 440 | 587 | 507 | 14.65 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-10RE | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:14:32 | DataFile Name : | 036SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 8750 | 7833 | 7879 | 8154 | 6.34 | cps |
| Antimony | 121-1 | 1847 | 1750 | 1660 | 1752 | 5.33 | cps |
| Arsenic | 75-2 | 1943 | 1833 | 1800 | 1859 | 4.04 | cps |
| Barium | 135-1 | 558433 | 556339 | 552082 | 555618 | 0.58 | cps |
| Barium | 137-1 | 970847 | 968801 | 959806 | 966484 | 0.61 | cps |
| Beryllium | 9-1 | 89 | 100 | 83 | 91 | 9.35 | cps |
| Bismuth | 209-1 | 20062185 | 20266975 | 19919976 | 20083045 | 0.87 | cps |
| Bismuth | 209-2 | 15722508 | 15908505 | 15470204 | 15700406 | 1.40 | cps |
| Bromine | 81-1 | 32138 | 36468 | 38650 | 35752 | 9.27 | cps |
| Bromine | 81-2 | 4784 | 4811 | 4841 | 4812 | 0.59 | cps |
| Cadmium | 108-1 | 50 | 33 | 33 | 39 | 24.75 | cps |
| Cadmium | 106-1 | 10974 | 10227 | 10160 | 10454 | 4.32 | cps |
| Cadmium | 111-1 | 7687 | 7232 | 7172 | 7364 | 3.82 | cps |
| Calcium | 43-1 | 4762745 | 4758909 | 4759638 | 4760431 | 0.04 | cps |
| Calcium | 44-1 | 76313654 | 75807747 | 75534872 | 75885424 | 0.52 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 5138 | 5074 | 5308 | 5173 | 2.33 | cps |
| Cobalt | 59-2 | 2097 | 2084 | 2003 | 2061 | 2.45 | cps |
| Copper | 63-2 | 10017 | 9797 | 9603 | 9806 | 2.11 | cps |
| Dysprosium | 156-1 | 313 | 320 | 327 | 320 | 2.08 | cps |
| Dysprosium | 156-2 | 267 | 310 | 237 | 271 | 13.60 | cps |
| Erbium | 164-1 | 247 | 283 | 267 | 266 | 6.91 | cps |
| Erbium | 164-2 | 150 | 147 | 137 | 144 | 4.80 | cps |
| Gadolinium | 160-1 | 457 | 487 | 473 | 472 | 3.18 | cps |
| Gadolinium | 160-2 | 1537 | 1583 | 1627 | 1582 | 2.84 | cps |
| Holmium | 165-1 | 34229236 | 33857107 | 34054447 | 34046930 | 0.55 | cps |
| Holmium | 165-2 | 22938717 | 23108664 | 23071338 | 23039573 | 0.39 | cps |
| Indium | 115-1 | 28250797 | 27996511 | 28035293 | 28094200 | 0.49 | cps |
| Indium | 115-2 | 9766345 | 9824421 | 9813677 | 9801481 | 0.32 | cps |
| Iron | 56-2 | 504512 | 501863 | 504531 | 503635 | 0.30 | cps |
| Iron | 57-2 | 99090 | 100721 | 100973 | 100261 | 1.02 | cps |
| Iron | 54-2 | 30548 | 30190 | 30374 | 30371 | 0.59 | cps |
| Krypton | 83-1 | 290 | 297 | 210 | 266 | 18.16 | cps |

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-10RE | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:14:32 | DataFile Name : | 036SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 3977 | 4117 | 4111 | 4068 | 1.94 | cps |
| Lead | 207-1 | 3450 | 3521 | 3264 | 3412 | 3.89 | cps |
| Lead | 208-1 | 15890 | 15944 | 15190 | 15675 | 2.68 | cps |
| Lithium | 6-1 | 3352454 | 3314230 | 3328948 | 3331877 | 0.58 | cps |
| Magnesium | 24-2 | 26918065 | 26399877 | 26632746 | 26650230 | 0.97 | cps |
| Manganese | 55-2 | 60558 | 61026 | 59711 | 60432 | 1.10 | cps |
| Molybdenum | 94-1 | 39496 | 39446 | 39433 | 39459 | 0.08 | cps |
| Molybdenum | 95-1 | 66731 | 66366 | 65459 | 66185 | 0.99 | cps |
| Molybdenum | 96-1 | 72572 | 71751 | 71678 | 72000 | 0.69 | cps |
| Molybdenum | 97-1 | 41877 | 42060 | 41415 | 41784 | 0.80 | cps |
| Molybdenum | 98-1 | 107391 | 108492 | 107001 | 107628 | 0.72 | cps |
| Neodymium | 150-1 | 193 | 153 | 200 | 182 | 13.85 | cps |
| Neodymium | 150-2 | 97 | 83 | 57 | 79 | 25.82 | cps |
| Nickel | 60-2 | 4007 | 4277 | 4314 | 4200 | 3.99 | cps |
| Phosphorus | 31-2 | 1387 | 1343 | 1303 | 1345 | 3.10 | cps |
| Potassium | 39-2 | 4295474 | 4297620 | 4281950 | 4291682 | 0.20 | cps |
| Rhodium | 103-1 | 26173999 | 26126381 | 26090415 | 26130265 | 0.16 | cps |
| Rhodium | 103-2 | 15453337 | 15479813 | 15451759 | 15461636 | 0.10 | cps |
| Scandium | 45-1 | 15031122 | 15141412 | 14961613 | 15044715 | 0.60 | cps |
| Scandium | 45-2 | 1333486 | 1321889 | 1307654 | 1321010 | 0.98 | cps |
| Selenium | 82-1 | 604 | 476 | 512 | 531 | 12.40 | cps |
| Selenium | 77-2 | 10 | 7 | 7 | 8 | 24.71 | cps |
| Selenium | 78-2 | 550 | 457 | 457 | 488 | 11.05 | cps |
| Silicon | 28-1 | 53116213 | 52045664 | 51937758 | 52366545 | 1.24 | cps |
| Silver | 107-1 | 230 | 237 | 270 | 246 | 8.73 | cps |
| Silver | 109-1 | 100 | 117 | 77 | 98 | 20.55 | cps |
| Sodium | 23-2 | 21035788 | 20991273 | 20844447 | 20957169 | 0.48 | cps |
| Strontium | 86-1 | 20858806 | 20945030 | 20724623 | 20842820 | 0.53 | cps |
| Strontium | 88-1 | 182416237 | 181784064 | 181051284 | 181750528 | 0.38 | cps |
| Sulfur | 34-1 | 1847810 | 1797639 | 1825837 | 1823762 | 1.38 | cps |
| Terbium | 159-1 | 34860027 | 34507393 | 34605804 | 34657741 | 0.53 | cps |
| Terbium | 159-2 | 22692098 | 22931166 | 22800685 | 22807983 | 0.52 | cps |
| Thallium | 203-1 | 657 | 613 | 517 | 596 | 12.04 | cps |
| Thallium | 205-1 | 1577 | 1473 | 1313 | 1455 | 9.12 | cps |
| Tin | 118-1 | 5014 | 5124 | 5011 | 5050 | 1.28 | cps |
| Titanium | 47-1 | 1530 | 1383 | 1490 | 1468 | 5.17 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-10RE | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:14:32 | DataFile Name : | 036SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 62878 | 64355 | 62934 | 63389 | 1.32 | cps |
| Vanadium | 51-2 | 1923 | 1963 | 1760 | 1882 | 5.72 | cps |
| Yttrium | 89-1 | 37796188 | 37737711 | 37656208 | 37730036 | 0.19 | cps |
| Yttrium | 89-2 | 9557862 | 9468544 | 9616305 | 9547570 | 0.78 | cps |
| Zinc | 66-2 | 12085 | 12198 | 12135 | 12139 | 0.47 | cps |
| Zirconium | 90-1 | 14973 | 3444 | 3784 | 7400 | 88.65 | cps |
| Zirconium | 91-1 | 733 | 810 | 797 | 780 | 5.25 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-12 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:21:00 | DataFile Name : | 037SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 985146 | 982578 | 979948 | 982557 | 0.26 | cps |
| Antimony | 121-1 | 2433256 | 2477376 | 2460308 | 2456980 | 0.91 | cps |
| Arsenic | 75-2 | 51961 | 51613 | 52135 | 51903 | 0.51 | cps |
| Barium | 135-1 | 12071268 | 12232375 | 12025095 | 12109579 | 0.90 | cps |
| Barium | 137-1 | 20624079 | 20863438 | 20812013 | 20766510 | 0.61 | cps |
| Beryllium | 9-1 | 120239 | 121404 | 119841 | 120494 | 0.67 | cps |
| Bismuth | 209-1 | 20604254 | 20392888 | 20015254 | 20337465 | 1.47 | cps |
| Bismuth | 209-2 | 15706171 | 15619177 | 15402607 | 15575985 | 1.00 | cps |
| Bromine | 81-1 | 31687 | 34835 | 38163 | 34895 | 9.28 | cps |
| Bromine | 81-2 | 4794 | 4604 | 4737 | 4712 | 2.07 | cps |
| Cadmium | 108-1 | 21172 | 21139 | 21146 | 21152 | 0.08 | cps |
| Cadmium | 106-1 | 38765 | 39129 | 38471 | 38788 | 0.85 | cps |
| Cadmium | 111-1 | 326405 | 331313 | 329862 | 329193 | 0.77 | cps |
| Calcium | 43-1 | 4668608 | 4729799 | 4622519 | 4673642 | 1.15 | cps |
| Calcium | 44-1 | 74723432 | 75762662 | 74680649 | 75055581 | 0.82 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1989612 | 1958793 | 1972130 | 1973512 | 0.78 | cps |
| Cobalt | 59-2 | 7806002 | 7896872 | 7736805 | 7813226 | 1.03 | cps |
| Copper | 63-2 | 2728877 | 2701208 | 2738983 | 2723023 | 0.72 | cps |
| Dysprosium | 156-1 | 373 | 373 | 433 | 393 | 8.81 | cps |
| Dysprosium | 156-2 | 703 | 713 | 767 | 728 | 4.68 | cps |
| Erbium | 164-1 | 257 | 240 | 243 | 247 | 3.57 | cps |
| Erbium | 164-2 | 177 | 190 | 113 | 160 | 25.60 | cps |
| Gadolinium | 160-1 | 403 | 443 | 423 | 423 | 4.73 | cps |
| Gadolinium | 160-2 | 1430 | 1477 | 1530 | 1479 | 3.38 | cps |
| Holmium | 165-1 | 34639070 | 33757407 | 33575759 | 33990745 | 1.67 | cps |
| Holmium | 165-2 | 23078715 | 22840943 | 22848644 | 22922767 | 0.59 | cps |
| Indium | 115-1 | 28786533 | 28122145 | 28142777 | 28350485 | 1.33 | cps |
| Indium | 115-2 | 9570805 | 9616985 | 9714117 | 9633969 | 0.76 | cps |
| Iron | 56-2 | 9483144 | 9512876 | 9485566 | 9493862 | 0.17 | cps |
| Iron | 57-2 | 328378 | 326711 | 327172 | 327420 | 0.26 | cps |
| Iron | 54-2 | 604720 | 600734 | 601588 | 602347 | 0.35 | cps |
| Krypton | 83-1 | 223 | 247 | 323 | 264 | 19.78 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-12 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:21:00 | DataFile Name : | 037SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 356760 | 360294 | 361538 | 359531 | 0.69 | cps |
| Lead | 207-1 | 312539 | 313011 | 313698 | 313083 | 0.19 | cps |
| Lead | 208-1 | 1429010 | 1437016 | 1433759 | 1433262 | 0.28 | cps |
| Lithium | 6-1 | 3313158 | 3318797 | 3285529 | 3305828 | 0.54 | cps |
| Magnesium | 24-2 | 26412005 | 25902935 | 26221063 | 26178668 | 0.98 | cps |
| Manganese | 55-2 | 3738438 | 3769083 | 3740884 | 3749468 | 0.45 | cps |
| Molybdenum | 94-1 | 38821 | 39888 | 38481 | 39063 | 1.88 | cps |
| Molybdenum | 95-1 | 67039 | 67314 | 65904 | 66752 | 1.12 | cps |
| Molybdenum | 96-1 | 70921 | 72049 | 72210 | 71727 | 0.98 | cps |
| Molybdenum | 97-1 | 40984 | 41536 | 41125 | 41215 | 0.70 | cps |
| Molybdenum | 98-1 | 106713 | 107864 | 107257 | 107278 | 0.54 | cps |
| Neodymium | 150-1 | 843 | 740 | 763 | 782 | 6.93 | cps |
| Neodymium | 150-2 | 240 | 163 | 197 | 200 | 19.22 | cps |
| Nickel | 60-2 | 2033265 | 1994553 | 2013618 | 2013812 | 0.96 | cps |
| Phosphorus | 31-2 | 1297 | 1363 | 1317 | 1326 | 2.58 | cps |
| Potassium | 39-2 | 4115762 | 4160342 | 4145712 | 4140605 | 0.55 | cps |
| Rhodium | 103-1 | 26447841 | 26103802 | 26009638 | 26187094 | 0.88 | cps |
| Rhodium | 103-2 | 15017064 | 15221375 | 15357823 | 15198754 | 1.13 | cps |
| Scandium | 45-1 | 15321660 | 15052339 | 14944950 | 15106316 | 1.28 | cps |
| Scandium | 45-2 | 1315391 | 1331516 | 1319575 | 1322160 | 0.63 | cps |
| Selenium | 82-1 | 40135 | 40582 | 40472 | 40396 | 0.58 | cps |
| Selenium | 77-2 | 4141 | 3977 | 3754 | 3957 | 4.91 | cps |
| Selenium | 78-2 | 13877 | 13433 | 13837 | 13715 | 1.79 | cps |
| Silicon | 28-1 | 51688613 | 52677623 | 51850863 | 52072366 | 1.02 | cps |
| Silver | 107-1 | 1563263 | 1572173 | 1568591 | 1568009 | 0.29 | cps |
| Silver | 109-1 | 1485950 | 1508651 | 1494117 | 1496239 | 0.77 | cps |
| Sodium | 23-2 | 20977281 | 20257831 | 20505876 | 20580329 | 1.78 | cps |
| Strontium | 86-1 | 20588024 | 20595607 | 20508444 | 20564025 | 0.23 | cps |
| Strontium | 88-1 | 180012644 | 179912357 | 179777417 | 179900806 | 0.07 | cps |
| Sulfur | 34-1 | 1823782 | 1805744 | 1816932 | 1815486 | 0.50 | cps |
| Terbium | 159-1 | 35270774 | 34920806 | 34278504 | 34823361 | 1.45 | cps |
| Terbium | 159-2 | 22761498 | 22768895 | 22627074 | 22719156 | 0.35 | cps |
| Thallium | 203-1 | 1098668 | 1110864 | 1110218 | 1106584 | 0.62 | cps |
| Thallium | 205-1 | 2577173 | 2634253 | 2645731 | 2619052 | 1.40 | cps |
| Tin | 118-1 | 7309 | 7352 | 7265 | 7309 | 0.59 | cps |
| Titanium | 47-1 | 1617 | 1593 | 2068 | 1759 | 15.21 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-12 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:21:00 | DataFile Name : | 037SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 62657 | 63758 | 63738 | 63384 | 0.99 | cps |
| Vanadium | 51-2 | 4178457 | 4230267 | 4167307 | 4192010 | 0.80 | cps |
| Yttrium | 89-1 | 38214904 | 37632592 | 37540343 | 37795946 | 0.97 | cps |
| Yttrium | 89-2 | 9470761 | 9474820 | 9390474 | 9445352 | 0.50 | cps |
| Zinc | 66-2 | 966672 | 963002 | 961609 | 963761 | 0.27 | cps |
| Zirconium | 90-1 | 3614 | 3704 | 3891 | 3736 | 3.78 | cps |
| Zirconium | 91-1 | 940 | 953 | 937 | 943 | 0.93 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-11 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:24:50 | DataFile Name : | 038SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 6585 | 6692 | 8105 | 7127 | 11.90 | cps |
| Antimony | 121-1 | 1737 | 1767 | 1867 | 1790 | 3.80 | cps |
| Arsenic | 75-2 | 1937 | 2033 | 1763 | 1911 | 7.16 | cps |
| Barium | 135-1 | 542695 | 542880 | 540199 | 541925 | 0.28 | cps |
| Barium | 137-1 | 941658 | 943186 | 936577 | 940474 | 0.37 | cps |
| Beryllium | 9-1 | 106 | 78 | 89 | 91 | 15.41 | cps |
| Bismuth | 209-1 | 20180584 | 20107472 | 20018251 | 20102102 | 0.40 | cps |
| Bismuth | 209-2 | 15718679 | 15679781 | 15466916 | 15621792 | 0.87 | cps |
| Bromine | 81-1 | 33207 | 36047 | 39322 | 36192 | 8.45 | cps |
| Bromine | 81-2 | 4661 | 4744 | 4908 | 4771 | 2.63 | cps |
| Cadmium | 108-1 | 43 | 40 | 57 | 47 | 18.90 | cps |
| Cadmium | 106-1 | 10354 | 9887 | 10010 | 10084 | 2.40 | cps |
| Cadmium | 111-1 | 7321 | 6976 | 7041 | 7113 | 2.57 | cps |
| Calcium | 43-1 | 4613873 | 4618439 | 4591923 | 4608079 | 0.31 | cps |
| Calcium | 44-1 | 74067434 | 74603267 | 73884251 | 74184984 | 0.50 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 5851 | 5518 | 5875 | 5748 | 3.47 | cps |
| Cobalt | 59-2 | 2044 | 1947 | 2017 | 2002 | 2.49 | cps |
| Copper | 63-2 | 10974 | 11128 | 11074 | 11059 | 0.70 | cps |
| Dysprosium | 156-1 | 307 | 283 | 307 | 299 | 4.51 | cps |
| Dysprosium | 156-2 | 260 | 243 | 250 | 251 | 3.34 | cps |
| Erbium | 164-1 | 233 | 197 | 250 | 227 | 12.04 | cps |
| Erbium | 164-2 | 140 | 150 | 183 | 158 | 14.38 | cps |
| Gadolinium | 160-1 | 510 | 533 | 440 | 494 | 9.82 | cps |
| Gadolinium | 160-2 | 1467 | 1470 | 1497 | 1478 | 1.11 | cps |
| Holmium | 165-1 | 33856270 | 33861170 | 32831746 | 33516395 | 1.77 | cps |
| Holmium | 165-2 | 23097264 | 23084149 | 22921637 | 23034350 | 0.42 | cps |
| Indium | 115-1 | 27879110 | 27568889 | 27752318 | 27733439 | 0.56 | cps |
| Indium | 115-2 | 9678463 | 9722472 | 9579093 | 9660009 | 0.76 | cps |
| Iron | 56-2 | 475758 | 477412 | 469009 | 474060 | 0.94 | cps |
| Iron | 57-2 | 94428 | 97779 | 98933 | 97046 | 2.41 | cps |
| Iron | 54-2 | 27535 | 27929 | 29063 | 28176 | 2.82 | cps |
| Krypton | 83-1 | 230 | 293 | 250 | 258 | 12.56 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-11 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:24:50 | DataFile Name : | 038SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 3807 | 3834 | 3671 | 3771 | 2.32 | cps |
| Lead | 207-1 | 3194 | 3107 | 3197 | 3166 | 1.61 | cps |
| Lead | 208-1 | 14880 | 14783 | 14653 | 14772 | 0.77 | cps |
| Lithium | 6-1 | 3341534 | 3275389 | 3227760 | 3281561 | 1.74 | cps |
| Magnesium | 24-2 | 25914715 | 26186490 | 26094097 | 26065101 | 0.53 | cps |
| Manganese | 55-2 | 58871 | 58694 | 58644 | 58736 | 0.20 | cps |
| Molybdenum | 94-1 | 37856 | 38821 | 38109 | 38262 | 1.31 | cps |
| Molybdenum | 95-1 | 65335 | 64377 | 64464 | 64726 | 0.82 | cps |
| Molybdenum | 96-1 | 70536 | 69869 | 68807 | 69737 | 1.25 | cps |
| Molybdenum | 97-1 | 40081 | 40292 | 40907 | 40427 | 1.06 | cps |
| Molybdenum | 98-1 | 103389 | 103926 | 103966 | 103760 | 0.31 | cps |
| Neodymium | 150-1 | 113 | 143 | 140 | 132 | 12.44 | cps |
| Neodymium | 150-2 | 117 | 73 | 87 | 92 | 24.07 | cps |
| Nickel | 60-2 | 4197 | 4601 | 4141 | 4313 | 5.82 | cps |
| Phosphorus | 31-2 | 1333 | 1223 | 1287 | 1281 | 4.31 | cps |
| Potassium | 39-2 | 4132160 | 4176647 | 4126802 | 4145203 | 0.66 | cps |
| Rhodium | 103-1 | 25899034 | 25585768 | 25473375 | 25652725 | 0.86 | cps |
| Rhodium | 103-2 | 15384403 | 15274782 | 15189373 | 15282853 | 0.64 | cps |
| Scandium | 45-1 | 14932912 | 15010087 | 14894794 | 14945931 | 0.39 | cps |
| Scandium | 45-2 | 1325693 | 1318752 | 1322829 | 1322424 | 0.26 | cps |
| Selenium | 82-1 | 660 | 522 | 519 | 567 | 14.24 | cps |
| Selenium | 77-2 | 3 | 17 | 7 | 9 | 78.08 | cps |
| Selenium | 78-2 | 440 | 430 | 443 | 438 | 1.58 | cps |
| Silicon | 28-1 | 51149843 | 51973254 | 51371719 | 51498272 | 0.83 | cps |
| Silver | 107-1 | 460 | 453 | 487 | 467 | 3.78 | cps |
| Silver | 109-1 | 317 | 233 | 300 | 283 | 15.56 | cps |
| Sodium | 23-2 | 20776998 | 20543826 | 20796291 | 20705705 | 0.68 | cps |
| Strontium | 86-1 | 20341818 | 20273476 | 20315682 | 20310325 | 0.17 | cps |
| Strontium | 88-1 | 179430931 | 177531524 | 176999831 | 177987428 | 0.72 | cps |
| Sulfur | 34-1 | 1937986 | 1897841 | 1929215 | 1921681 | 1.10 | cps |
| Terbium | 159-1 | 34247536 | 34253714 | 33875340 | 34125530 | 0.63 | cps |
| Terbium | 159-2 | 22444092 | 22442571 | 22619337 | 22502000 | 0.45 | cps |
| Thallium | 203-1 | 870 | 787 | 670 | 776 | 12.95 | cps |
| Thallium | 205-1 | 1893 | 1937 | 1653 | 1828 | 8.35 | cps |
| Tin | 118-1 | 5408 | 5311 | 5574 | 5431 | 2.45 | cps |
| Titanium | 47-1 | 1390 | 1567 | 1523 | 1494 | 6.17 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-11 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A01D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:24:50 | DataFile Name : | 038SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 61944 | 62057 | 61120 | 61707 | 0.83 | cps |
| Vanadium | 51-2 | 1940 | 1717 | 1750 | 1802 | 6.69 | cps |
| Yttrium | 89-1 | 37307257 | 37142971 | 36962843 | 37137690 | 0.46 | cps |
| Yttrium | 89-2 | 9522128 | 9413818 | 9367537 | 9434494 | 0.84 | cps |
| Zinc | 66-2 | 9033 | 8989 | 8929 | 8984 | 0.58 | cps |
| Zirconium | 90-1 | 3664 | 3524 | 4199 | 3795 | 9.38 | cps |
| Zirconium | 91-1 | 723 | 673 | 833 | 743 | 11.01 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-13 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:27:59 | DataFile Name : | 039SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 7576 | 6828 | 7539 | 7315 | 5.76 | cps |
| Antimony | 121-1 | 1807 | 1937 | 1870 | 1871 | 3.47 | cps |
| Arsenic | 75-2 | 1897 | 1717 | 1803 | 1806 | 4.99 | cps |
| Barium | 135-1 | 522983 | 527159 | 526755 | 525633 | 0.44 | cps |
| Barium | 137-1 | 912606 | 925498 | 910077 | 916060 | 0.90 | cps |
| Beryllium | 9-1 | 94 | 100 | 78 | 91 | 12.74 | cps |
| Bismuth | 209-1 | 20449850 | 19930278 | 20003661 | 20127930 | 1.40 | cps |
| Bismuth | 209-2 | 13692548 | 15277464 | 15285539 | 14751850 | 6.22 | cps |
| Bromine | 81-1 | 34420 | 39874 | 41585 | 38626 | 9.69 | cps |
| Bromine | 81-2 | 5298 | 5641 | 5228 | 5389 | 4.11 | cps |
| Cadmium | 108-1 | 30 | 53 | 30 | 38 | 35.66 | cps |
| Cadmium | 106-1 | 10857 | 11018 | 10407 | 10761 | 2.94 | cps |
| Cadmium | 111-1 | 7683 | 7782 | 7347 | 7604 | 2.99 | cps |
| Calcium | 43-1 | 4481927 | 4598191 | 4593125 | 4557748 | 1.44 | cps |
| Calcium | 44-1 | 72229154 | 73107087 | 72413146 | 72583129 | 0.64 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 15959 | 16430 | 16282 | 16224 | 1.49 | cps |
| Cobalt | 59-2 | 1983 | 2040 | 2177 | 2067 | 4.81 | cps |
| Copper | 63-2 | 9490 | 9433 | 9586 | 9503 | 0.82 | cps |
| Dysprosium | 156-1 | 273 | 280 | 370 | 308 | 17.54 | cps |
| Dysprosium | 156-2 | 293 | 267 | 257 | 272 | 6.96 | cps |
| Erbium | 164-1 | 213 | 240 | 273 | 242 | 12.41 | cps |
| Erbium | 164-2 | 143 | 157 | 153 | 151 | 4.59 | cps |
| Gadolinium | 160-1 | 450 | 443 | 480 | 458 | 4.27 | cps |
| Gadolinium | 160-2 | 1357 | 1520 | 1603 | 1493 | 8.40 | cps |
| Holmium | 165-1 | 34541658 | 33258968 | 33554424 | 33785016 | 1.99 | cps |
| Holmium | 165-2 | 20077113 | 22228772 | 22600978 | 21635621 | 6.30 | cps |
| Indium | 115-1 | 28202866 | 27677452 | 27880778 | 27920365 | 0.95 | cps |
| Indium | 115-2 | 8422096 | 9505945 | 9604639 | 9177560 | 7.15 | cps |
| Iron | 56-2 | 541572 | 532936 | 530311 | 534939 | 1.10 | cps |
| Iron | 57-2 | 96789 | 97718 | 97336 | 97281 | 0.48 | cps |
| Iron | 54-2 | 31693 | 31630 | 31683 | 31669 | 0.11 | cps |
| Krypton | 83-1 | 237 | 300 | 273 | 270 | 11.78 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-13 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:27:59 | DataFile Name : | 039SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 4221 | 3874 | 4014 | 4036 | 4.32 | cps |
| Lead | 207-1 | 3414 | 3227 | 3227 | 3289 | 3.28 | cps |
| Lead | 208-1 | 15994 | 15397 | 15213 | 15535 | 2.63 | cps |
| Lithium | 6-1 | 3403697 | 3310951 | 3339640 | 3351429 | 1.42 | cps |
| Magnesium | 24-2 | 25996445 | 25391746 | 25240365 | 25542852 | 1.57 | cps |
| Manganese | 55-2 | 51143 | 49929 | 49642 | 50238 | 1.59 | cps |
| Molybdenum | 94-1 | 38931 | 36940 | 37277 | 37716 | 2.83 | cps |
| Molybdenum | 95-1 | 63450 | 63791 | 63356 | 63533 | 0.36 | cps |
| Molybdenum | 96-1 | 67699 | 70214 | 69162 | 69025 | 1.83 | cps |
| Molybdenum | 97-1 | 39761 | 40506 | 39470 | 39912 | 1.34 | cps |
| Molybdenum | 98-1 | 103248 | 103701 | 102221 | 103057 | 0.74 | cps |
| Neodymium | 150-1 | 147 | 140 | 193 | 160 | 18.16 | cps |
| Neodymium | 150-2 | 83 | 70 | 97 | 83 | 16.00 | cps |
| Nickel | 60-2 | 4514 | 4677 | 4714 | 4635 | 2.30 | cps |
| Phosphorus | 31-2 | 1460 | 1440 | 1460 | 1453 | 0.79 | cps |
| Potassium | 39-2 | 4178415 | 4043175 | 4087499 | 4103029 | 1.68 | cps |
| Rhodium | 103-1 | 26302832 | 26059957 | 25881875 | 26081555 | 0.81 | cps |
| Rhodium | 103-2 | 13259283 | 15024801 | 15027678 | 14437254 | 7.07 | cps |
| Scandium | 45-1 | 15152666 | 15079358 | 14943633 | 15058552 | 0.70 | cps |
| Scandium | 45-2 | 1141411 | 1285124 | 1303757 | 1243431 | 7.14 | cps |
| Selenium | 82-1 | 587 | 522 | 487 | 532 | 9.50 | cps |
| Selenium | 77-2 | 0 | 0 | 7 | 2 | 173.21 | cps |
| Selenium | 78-2 | 413 | 430 | 483 | 442 | 8.27 | cps |
| Silicon | 28-1 | 51470171 | 50932893 | 51186294 | 51196453 | 0.53 | cps |
| Silver | 107-1 | 293 | 313 | 280 | 296 | 5.68 | cps |
| Silver | 109-1 | 187 | 180 | 140 | 169 | 14.95 | cps |
| Sodium | 23-2 | 20628354 | 20075255 | 20151541 | 20285050 | 1.48 | cps |
| Strontium | 86-1 | 20193946 | 20460065 | 20118827 | 20257613 | 0.89 | cps |
| Strontium | 88-1 | 175101384 | 178285257 | 176999944 | 176795528 | 0.91 | cps |
| Sulfur | 34-1 | 1762530 | 1759179 | 1791158 | 1770956 | 0.99 | cps |
| Terbium | 159-1 | 34755022 | 34576042 | 34338420 | 34556495 | 0.60 | cps |
| Terbium | 159-2 | 19632837 | 22186940 | 22382316 | 21400697 | 7.17 | cps |
| Thallium | 203-1 | 743 | 640 | 567 | 650 | 13.65 | cps |
| Thallium | 205-1 | 1563 | 1450 | 1367 | 1460 | 6.76 | cps |
| Tin | 118-1 | 4367 | 4257 | 4617 | 4414 | 4.18 | cps |
| Titanium | 47-1 | 1577 | 1527 | 1988 | 1697 | 14.90 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-13 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A03 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:27:59 | DataFile Name : | 039SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 58759 | 59553 | 59472 | 59261 | 0.74 | cps |
| Vanadium | 51-2 | 1810 | 1837 | 1843 | 1830 | 0.96 | cps |
| Yttrium | 89-1 | 37775936 | 37293125 | 37286861 | 37451974 | 0.75 | cps |
| Yttrium | 89-2 | 8081211 | 9242957 | 9409090 | 8911086 | 8.12 | cps |
| Zinc | 66-2 | 7415 | 7725 | 7215 | 7452 | 3.45 | cps |
| Zirconium | 90-1 | 3264 | 3260 | 3167 | 3230 | 1.70 | cps |
| Zirconium | 91-1 | 693 | 657 | 583 | 644 | 8.69 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-14 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A05 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:31:09 | DataFile Name : | 040SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 7636 | 7245 | 7059 | 7313 | 4.03 | cps |
| Antimony | 121-1 | 1963 | 1897 | 1860 | 1907 | 2.75 | cps |
| Arsenic | 75-2 | 1817 | 1740 | 1843 | 1800 | 2.98 | cps |
| Barium | 135-1 | 553050 | 549637 | 548722 | 550470 | 0.41 | cps |
| Barium | 137-1 | 960967 | 959952 | 950778 | 957232 | 0.59 | cps |
| Beryllium | 9-1 | 56 | 39 | 100 | 65 | 48.74 | cps |
| Bismuth | 209-1 | 19923931 | 19755291 | 19708360 | 19795861 | 0.57 | cps |
| Bismuth | 209-2 | 15741156 | 15565295 | 15369100 | 15558517 | 1.20 | cps |
| Bromine | 81-1 | 35767 | 39326 | 41374 | 38822 | 7.31 | cps |
| Bromine | 81-2 | 5234 | 5504 | 5344 | 5361 | 2.53 | cps |
| Cadmium | 108-1 | 47 | 57 | 50 | 51 | 9.96 | cps |
| Cadmium | 106-1 | 11064 | 10514 | 10434 | 10671 | 3.22 | cps |
| Cadmium | 111-1 | 7802 | 7390 | 7342 | 7511 | 3.37 | cps |
| Calcium | 43-1 | 4755545 | 4823369 | 4752736 | 4777217 | 0.84 | cps |
| Calcium | 44-1 | 76183871 | 75856064 | 75848591 | 75962842 | 0.25 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 6355 | 6198 | 6141 | 6231 | 1.77 | cps |
| Cobalt | 59-2 | 2060 | 2137 | 2114 | 2104 | 1.87 | cps |
| Copper | 63-2 | 9937 | 10063 | 10184 | 10061 | 1.23 | cps |
| Dysprosium | 156-1 | 330 | 377 | 283 | 330 | 14.14 | cps |
| Dysprosium | 156-2 | 233 | 210 | 320 | 254 | 22.78 | cps |
| Erbium | 164-1 | 270 | 233 | 237 | 247 | 8.22 | cps |
| Erbium | 164-2 | 197 | 197 | 140 | 178 | 18.40 | cps |
| Gadolinium | 160-1 | 463 | 547 | 450 | 487 | 10.77 | cps |
| Gadolinium | 160-2 | 1557 | 1497 | 1553 | 1536 | 2.20 | cps |
| Holmium | 165-1 | 33066321 | 33344350 | 32741274 | 33050648 | 0.91 | cps |
| Holmium | 165-2 | 23016150 | 22778931 | 22442889 | 22745990 | 1.27 | cps |
| Indium | 115-1 | 27381607 | 27541570 | 27561484 | 27494887 | 0.36 | cps |
| Indium | 115-2 | 9715938 | 9459405 | 9658211 | 9611185 | 1.40 | cps |
| Iron | 56-2 | 504370 | 507275 | 507676 | 506440 | 0.36 | cps |
| Iron | 57-2 | 100694 | 100805 | 102013 | 101171 | 0.72 | cps |
| Iron | 54-2 | 29456 | 30865 | 30270 | 30197 | 2.34 | cps |
| Krypton | 83-1 | 240 | 323 | 277 | 280 | 14.92 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-14 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A05 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:31:09 | DataFile Name : | 040SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 3320 | 3270 | 3430 | 3340 | 2.45 | cps |
| Lead | 207-1 | 3047 | 2750 | 2884 | 2894 | 5.14 | cps |
| Lead | 208-1 | 13423 | 13149 | 13313 | 13295 | 1.03 | cps |
| Lithium | 6-1 | 3326546 | 3366317 | 3253030 | 3315298 | 1.73 | cps |
| Magnesium | 24-2 | 26843570 | 26590500 | 26696740 | 26710270 | 0.48 | cps |
| Manganese | 55-2 | 44716 | 45017 | 45492 | 45075 | 0.87 | cps |
| Molybdenum | 94-1 | 39222 | 39857 | 39299 | 39460 | 0.88 | cps |
| Molybdenum | 95-1 | 66574 | 67565 | 67897 | 67345 | 1.02 | cps |
| Molybdenum | 96-1 | 73152 | 73219 | 71460 | 72610 | 1.37 | cps |
| Molybdenum | 97-1 | 41947 | 40890 | 42385 | 41741 | 1.84 | cps |
| Molybdenum | 98-1 | 108792 | 108768 | 108351 | 108637 | 0.23 | cps |
| Neodymium | 150-1 | 163 | 300 | 160 | 208 | 38.45 | cps |
| Neodymium | 150-2 | 90 | 113 | 87 | 97 | 15.03 | cps |
| Nickel | 60-2 | 4501 | 4217 | 4237 | 4318 | 3.66 | cps |
| Phosphorus | 31-2 | 1300 | 1307 | 1323 | 1310 | 0.92 | cps |
| Potassium | 39-2 | 4370518 | 4374783 | 4390668 | 4378656 | 0.24 | cps |
| Rhodium | 103-1 | 25581925 | 25368175 | 25277958 | 25409353 | 0.61 | cps |
| Rhodium | 103-2 | 15179407 | 15071734 | 15182846 | 15144662 | 0.42 | cps |
| Scandium | 45-1 | 14719661 | 15007354 | 15014544 | 14913853 | 1.13 | cps |
| Scandium | 45-2 | 1340481 | 1320706 | 1316981 | 1326056 | 0.95 | cps |
| Selenium | 82-1 | 555 | 427 | 390 | 457 | 18.92 | cps |
| Selenium | 77-2 | 3 | 10 | 7 | 7 | 50.03 | cps |
| Selenium | 78-2 | 440 | 473 | 500 | 471 | 6.38 | cps |
| Silicon | 28-1 | 53960149 | 53369288 | 53844799 | 53724745 | 0.58 | cps |
| Silver | 107-1 | 253 | 287 | 307 | 282 | 9.55 | cps |
| Silver | 109-1 | 133 | 103 | 130 | 122 | 13.45 | cps |
| Sodium | 23-2 | 21606401 | 21605288 | 21618047 | 21609912 | 0.03 | cps |
| Strontium | 86-1 | 21253288 | 21204271 | 21271404 | 21242987 | 0.16 | cps |
| Strontium | 88-1 | 187248204 | 185193464 | 185587457 | 186009708 | 0.59 | cps |
| Sulfur | 34-1 | 1850483 | 1820075 | 1816543 | 1829034 | 1.02 | cps |
| Terbium | 159-1 | 33883433 | 34036352 | 33919074 | 33946286 | 0.24 | cps |
| Terbium | 159-2 | 22483072 | 22254387 | 22301030 | 22346163 | 0.54 | cps |
| Thallium | 203-1 | 650 | 547 | 563 | 587 | 9.46 | cps |
| Thallium | 205-1 | 1457 | 1450 | 1323 | 1410 | 5.33 | cps |
| Tin | 118-1 | 11070 | 8393 | 9055 | 9506 | 14.67 | cps |
| Titanium | 47-1 | 1483 | 1820 | 1430 | 1578 | 13.41 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-14 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A05 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:31:09 | DataFile Name : | 040SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 62396 | 61753 | 61977 | 62042 | 0.53 | cps |
| Vanadium | 51-2 | 1790 | 2371 | 1810 | 1990 | 16.56 | cps |
| Yttrium | 89-1 | 36696224 | 36638221 | 36906049 | 36746831 | 0.38 | cps |
| Yttrium | 89-2 | 9380138 | 9361309 | 9316202 | 9352550 | 0.35 | cps |
| Zinc | 66-2 | 7936 | 7635 | 8076 | 7882 | 2.85 | cps |
| Zirconium | 90-1 | 3317 | 3314 | 3267 | 3299 | 0.85 | cps |
| Zirconium | 91-1 | 647 | 2005 | 840 | 1164 | 63.13 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-15 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A07 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:34:18 | DataFile Name : | 041SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 8577 | 7542 | 7752 | 7957 | 6.88 | cps |
| Antimony | 121-1 | 1627 | 1690 | 1873 | 1730 | 7.41 | cps |
| Arsenic | 75-2 | 1840 | 1873 | 1900 | 1871 | 1.61 | cps |
| Barium | 135-1 | 546568 | 547545 | 544981 | 546365 | 0.24 | cps |
| Barium | 137-1 | 951850 | 955495 | 950963 | 952769 | 0.25 | cps |
| Beryllium | 9-1 | 67 | 72 | 106 | 81 | 25.81 | cps |
| Bismuth | 209-1 | 19940268 | 19442903 | 18862186 | 19415119 | 2.78 | cps |
| Bismuth | 209-2 | 15323876 | 15335509 | 15281586 | 15313657 | 0.19 | cps |
| Bromine | 81-1 | 35643 | 39249 | 40646 | 38512 | 6.70 | cps |
| Bromine | 81-2 | 5188 | 4958 | 5011 | 5052 | 2.38 | cps |
| Cadmium | 108-1 | 27 | 63 | 23 | 38 | 58.75 | cps |
| Cadmium | 106-1 | 11141 | 10537 | 10020 | 10566 | 5.31 | cps |
| Cadmium | 111-1 | 7837 | 7392 | 7088 | 7439 | 5.06 | cps |
| Calcium | 43-1 | 4685155 | 4769202 | 4731974 | 4728777 | 0.89 | cps |
| Calcium | 44-1 | 75637922 | 75048811 | 75472612 | 75386448 | 0.40 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 13676 | 13509 | 13640 | 13608 | 0.64 | cps |
| Cobalt | 59-2 | 2137 | 2354 | 2094 | 2195 | 6.35 | cps |
| Copper | 63-2 | 9907 | 10073 | 10204 | 10061 | 1.48 | cps |
| Dysprosium | 156-1 | 270 | 253 | 237 | 253 | 6.58 | cps |
| Dysprosium | 156-2 | 217 | 267 | 210 | 231 | 13.40 | cps |
| Erbium | 164-1 | 233 | 283 | 243 | 253 | 10.44 | cps |
| Erbium | 164-2 | 170 | 147 | 143 | 153 | 9.47 | cps |
| Gadolinium | 160-1 | 377 | 427 | 440 | 414 | 8.06 | cps |
| Gadolinium | 160-2 | 1423 | 1337 | 1473 | 1411 | 4.90 | cps |
| Holmium | 165-1 | 33253211 | 33689887 | 31646658 | 32863252 | 3.27 | cps |
| Holmium | 165-2 | 22512297 | 22678851 | 22256738 | 22482629 | 0.95 | cps |
| Indium | 115-1 | 27823151 | 27214228 | 26356106 | 27131162 | 2.72 | cps |
| Indium | 115-2 | 9460760 | 9569307 | 9572520 | 9534196 | 0.67 | cps |
| Iron | 56-2 | 497461 | 496749 | 495348 | 496520 | 0.22 | cps |
| Iron | 57-2 | 98994 | 99047 | 99892 | 99311 | 0.51 | cps |
| Iron | 54-2 | 29512 | 29569 | 29319 | 29467 | 0.45 | cps |
| Krypton | 83-1 | 290 | 327 | 250 | 289 | 13.27 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-15 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A07 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:34:18 | DataFile Name : | 041SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 9036 | 8876 | 8479 | 8797 | 3.26 | cps |
| Lead | 207-1 | 7339 | 7049 | 7262 | 7216 | 2.08 | cps |
| Lead | 208-1 | 34451 | 33713 | 33954 | 34039 | 1.10 | cps |
| Lithium | 6-1 | 3377951 | 3327465 | 3099322 | 3268246 | 4.54 | cps |
| Magnesium | 24-2 | 26245450 | 26352250 | 26125277 | 26240992 | 0.43 | cps |
| Manganese | 55-2 | 77039 | 77481 | 76734 | 77085 | 0.49 | cps |
| Molybdenum | 94-1 | 39640 | 39416 | 39293 | 39450 | 0.45 | cps |
| Molybdenum | 95-1 | 65703 | 64622 | 64602 | 64976 | 0.97 | cps |
| Molybdenum | 96-1 | 70546 | 70777 | 70910 | 70744 | 0.26 | cps |
| Molybdenum | 97-1 | 41449 | 40623 | 40569 | 40880 | 1.21 | cps |
| Molybdenum | 98-1 | 104309 | 103738 | 104611 | 104219 | 0.43 | cps |
| Neodymium | 150-1 | 170 | 157 | 177 | 168 | 6.07 | cps |
| Neodymium | 150-2 | 97 | 73 | 90 | 87 | 13.87 | cps |
| Nickel | 60-2 | 4754 | 4867 | 4801 | 4807 | 1.18 | cps |
| Phosphorus | 31-2 | 1310 | 1463 | 1450 | 1408 | 6.03 | cps |
| Potassium | 39-2 | 4327962 | 4262865 | 4272813 | 4287880 | 0.82 | cps |
| Rhodium | 103-1 | 25637684 | 25694792 | 24800630 | 25377702 | 1.97 | cps |
| Rhodium | 103-2 | 15086191 | 14967131 | 15096209 | 15049843 | 0.48 | cps |
| Scandium | 45-1 | 15115514 | 14940241 | 14297503 | 14784420 | 2.91 | cps |
| Scandium | 45-2 | 1319058 | 1323090 | 1318655 | 1320268 | 0.19 | cps |
| Selenium | 82-1 | 501 | 359 | 412 | 424 | 17.03 | cps |
| Selenium | 77-2 | 0 | 10 | 17 | 9 | 94.38 | cps |
| Selenium | 78-2 | 427 | 440 | 437 | 434 | 1.60 | cps |
| Silicon | 28-1 | 52622179 | 53145844 | 52552944 | 52773656 | 0.61 | cps |
| Silver | 107-1 | 220 | 247 | 227 | 231 | 6.01 | cps |
| Silver | 109-1 | 103 | 133 | 130 | 122 | 13.46 | cps |
| Sodium | 23-2 | 21802199 | 21856912 | 21723326 | 21794146 | 0.31 | cps |
| Strontium | 86-1 | 19915129 | 19946330 | 19916857 | 19926105 | 0.09 | cps |
| Strontium | 88-1 | 175838764 | 173280224 | 173391577 | 174170189 | 0.83 | cps |
| Sulfur | 34-1 | 1819753 | 1819336 | 1828174 | 1822421 | 0.27 | cps |
| Terbium | 159-1 | 34216556 | 33960684 | 32327985 | 33501742 | 3.06 | cps |
| Terbium | 159-2 | 22110331 | 21909511 | 21887991 | 21969277 | 0.56 | cps |
| Thallium | 203-1 | 573 | 603 | 513 | 563 | 8.13 | cps |
| Thallium | 205-1 | 1427 | 1403 | 1260 | 1363 | 6.62 | cps |
| Tin | 118-1 | 5898 | 5978 | 5691 | 5856 | 2.53 | cps |
| Titanium | 47-1 | 9840 | 1543 | 1507 | 4297 | 111.73 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-15 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A07 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:34:18 | DataFile Name : | 041SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 59680 | 59974 | 59010 | 59555 | 0.83 | cps |
| Vanadium | 51-2 | 1717 | 2020 | 1960 | 1899 | 8.46 | cps |
| Yttrium | 89-1 | 37780684 | 37069475 | 35671969 | 36840709 | 2.91 | cps |
| Yttrium | 89-2 | 9279539 | 9339090 | 9216401 | 9278343 | 0.66 | cps |
| Zinc | 66-2 | 8016 | 8286 | 8386 | 8229 | 2.33 | cps |
| Zirconium | 90-1 | 5278 | 5384 | 4984 | 5215 | 3.97 | cps |
| Zirconium | 91-1 | 1117 | 1060 | 1043 | 1073 | 3.58 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-16 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A09 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:37:28 | DataFile Name : | 042SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 9040 | 9420 | 8959 | 9140 | 2.69 | cps |
| Antimony | 121-1 | 1667 | 1663 | 1817 | 1716 | 5.11 | cps |
| Arsenic | 75-2 | 1923 | 1920 | 1890 | 1911 | 0.96 | cps |
| Barium | 135-1 | 535393 | 545590 | 539053 | 540012 | 0.96 | cps |
| Barium | 137-1 | 922695 | 945005 | 941432 | 936377 | 1.28 | cps |
| Beryllium | 9-1 | 94 | 61 | 72 | 76 | 22.36 | cps |
| Bismuth | 209-1 | 20404188 | 19906033 | 19686071 | 19998764 | 1.84 | cps |
| Bismuth | 209-2 | 15469393 | 15292532 | 15308183 | 15356703 | 0.64 | cps |
| Bromine | 81-1 | 32716 | 36672 | 37668 | 35685 | 7.34 | cps |
| Bromine | 81-2 | 4794 | 4537 | 4551 | 4627 | 3.12 | cps |
| Cadmium | 108-1 | 43 | 57 | 43 | 48 | 16.12 | cps |
| Cadmium | 106-1 | 11014 | 10491 | 10024 | 10509 | 4.72 | cps |
| Cadmium | 111-1 | 7760 | 7404 | 7083 | 7415 | 4.57 | cps |
| Calcium | 43-1 | 4553952 | 4681467 | 4655208 | 4630209 | 1.45 | cps |
| Calcium | 44-1 | 72936079 | 74196147 | 74349009 | 73827078 | 1.05 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 4874 | 4908 | 4787 | 4856 | 1.28 | cps |
| Cobalt | 59-2 | 2174 | 2167 | 2187 | 2176 | 0.47 | cps |
| Copper | 63-2 | 10087 | 9640 | 9967 | 9898 | 2.34 | cps |
| Dysprosium | 156-1 | 310 | 347 | 327 | 328 | 5.60 | cps |
| Dysprosium | 156-2 | 320 | 363 | 317 | 333 | 7.81 | cps |
| Erbium | 164-1 | 280 | 237 | 273 | 263 | 8.86 | cps |
| Erbium | 164-2 | 203 | 147 | 177 | 176 | 16.15 | cps |
| Gadolinium | 160-1 | 470 | 430 | 520 | 473 | 9.53 | cps |
| Gadolinium | 160-2 | 1443 | 1603 | 1563 | 1537 | 5.42 | cps |
| Holmium | 165-1 | 34158911 | 33582030 | 33401426 | 33714122 | 1.17 | cps |
| Holmium | 165-2 | 22702126 | 22456081 | 22311336 | 22489847 | 0.88 | cps |
| Indium | 115-1 | 28827535 | 27760574 | 27780516 | 28122875 | 2.17 | cps |
| Indium | 115-2 | 9678638 | 9609326 | 9504962 | 9597642 | 0.91 | cps |
| Iron | 56-2 | 520223 | 513838 | 519211 | 517757 | 0.66 | cps |
| Iron | 57-2 | 98537 | 100080 | 98634 | 99084 | 0.87 | cps |
| Iron | 54-2 | 30371 | 30885 | 30635 | 30630 | 0.84 | cps |
| Krypton | 83-1 | 290 | 330 | 247 | 289 | 14.43 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-16 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A09 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:37:28 | DataFile Name : | 042SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 4794 | 4881 | 4567 | 4748 | 3.41 | cps |
| Lead | 207-1 | 4037 | 4071 | 3881 | 3996 | 2.54 | cps |
| Lead | 208-1 | 18388 | 18962 | 17965 | 18438 | 2.71 | cps |
| Lithium | 6-1 | 3412517 | 3345593 | 3226245 | 3328118 | 2.84 | cps |
| Magnesium | 24-2 | 26428065 | 25939553 | 25794366 | 26053995 | 1.27 | cps |
| Manganese | 55-2 | 58403 | 57519 | 57636 | 57853 | 0.83 | cps |
| Molybdenum | 94-1 | 37080 | 37775 | 37484 | 37447 | 0.93 | cps |
| Molybdenum | 95-1 | 63206 | 64956 | 65302 | 64488 | 1.74 | cps |
| Molybdenum | 96-1 | 68690 | 70157 | 69303 | 69383 | 1.06 | cps |
| Molybdenum | 97-1 | 39620 | 40596 | 40376 | 40197 | 1.27 | cps |
| Molybdenum | 98-1 | 103877 | 104490 | 103590 | 103986 | 0.44 | cps |
| Neodymium | 150-1 | 200 | 203 | 230 | 211 | 7.79 | cps |
| Neodymium | 150-2 | 120 | 100 | 83 | 101 | 18.16 | cps |
| Nickel | 60-2 | 4374 | 4311 | 4107 | 4264 | 3.27 | cps |
| Phosphorus | 31-2 | 1350 | 1270 | 1420 | 1347 | 5.57 | cps |
| Potassium | 39-2 | 4273677 | 4246278 | 4203762 | 4241239 | 0.83 | cps |
| Rhodium | 103-1 | 26455930 | 26036621 | 25535905 | 26009485 | 1.77 | cps |
| Rhodium | 103-2 | 15026029 | 15073787 | 14961481 | 15020432 | 0.38 | cps |
| Scandium | 45-1 | 15415414 | 15045262 | 15077130 | 15179268 | 1.35 | cps |
| Scandium | 45-2 | 1331299 | 1330487 | 1307110 | 1322965 | 1.04 | cps |
| Selenium | 82-1 | 450 | 405 | 499 | 451 | 10.47 | cps |
| Selenium | 77-2 | 10 | 7 | 3 | 7 | 50.03 | cps |
| Selenium | 78-2 | 503 | 467 | 500 | 490 | 4.14 | cps |
| Silicon | 28-1 | 51693926 | 52070576 | 51176298 | 51646933 | 0.87 | cps |
| Silver | 107-1 | 250 | 223 | 257 | 243 | 7.25 | cps |
| Silver | 109-1 | 130 | 100 | 77 | 102 | 26.15 | cps |
| Sodium | 23-2 | 21263300 | 20803471 | 20952898 | 21006556 | 1.12 | cps |
| Strontium | 86-1 | 19652248 | 20134479 | 19980216 | 19922314 | 1.24 | cps |
| Strontium | 88-1 | 172658804 | 175272837 | 174619884 | 174183842 | 0.78 | cps |
| Sulfur | 34-1 | 1764068 | 1808833 | 1791561 | 1788154 | 1.26 | cps |
| Terbium | 159-1 | 35383717 | 34228987 | 34331833 | 34648179 | 1.84 | cps |
| Terbium | 159-2 | 22342846 | 22203746 | 22177007 | 22241200 | 0.40 | cps |
| Thallium | 203-1 | 513 | 580 | 573 | 556 | 6.61 | cps |
| Thallium | 205-1 | 1467 | 1373 | 1083 | 1308 | 15.29 | cps |
| Tin | 118-1 | 4681 | 4721 | 4551 | 4651 | 1.91 | cps |
| Titanium | 47-1 | 1643 | 2554 | 1810 | 2003 | 24.22 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-16 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A09 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:37:28 | DataFile Name : | 042SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 57885 | 59579 | 59138 | 58867 | 1.49 | cps |
| Vanadium | 51-2 | 1890 | 1897 | 1927 | 1905 | 1.03 | cps |
| Yttrium | 89-1 | 38098749 | 37335784 | 37303194 | 37579243 | 1.20 | cps |
| Yttrium | 89-2 | 9371449 | 9314669 | 9260139 | 9315419 | 0.60 | cps |
| Zinc | 66-2 | 9290 | 8933 | 9240 | 9154 | 2.11 | cps |
| Zirconium | 90-1 | 3627 | 3894 | 3417 | 3646 | 6.56 | cps |
| Zirconium | 91-1 | 780 | 733 | 743 | 752 | 3.27 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-17 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A20 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:40:37 | DataFile Name : | 043SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 863 | 893 | 893 | 883 | 1.96 | cps |
| Antimony | 121-1 | 90 | 90 | 160 | 113 | 35.66 | cps |
| Arsenic | 75-2 | 3 | 3 | 0 | 2 | 86.60 | cps |
| Barium | 135-1 | 310 | 247 | 293 | 283 | 11.59 | cps |
| Barium | 137-1 | 537 | 457 | 423 | 472 | 12.33 | cps |
| Beryllium | 9-1 | 61 | 39 | 44 | 48 | 24.01 | cps |
| Bismuth | 209-1 | 19939040 | 20105745 | 19799663 | 19948149 | 0.77 | cps |
| Bismuth | 209-2 | 15633433 | 15744049 | 15633891 | 15670458 | 0.41 | cps |
| Bromine | 81-1 | 17407 | 16923 | 16546 | 16959 | 2.54 | cps |
| Bromine | 81-2 | 360 | 360 | 280 | 333 | 13.86 | cps |
| Cadmium | 108-1 | 23 | 27 | 33 | 28 | 18.33 | cps |
| Cadmium | 106-1 | 10434 | 9710 | 10164 | 10102 | 3.62 | cps |
| Cadmium | 111-1 | 7311 | 6788 | 7111 | 7070 | 3.73 | cps |
| Calcium | 43-1 | 4357 | 3907 | 3774 | 4013 | 7.62 | cps |
| Calcium | 44-1 | 83197 | 80609 | 78810 | 80872 | 2.73 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 4661 | 4684 | 4644 | 4663 | 0.43 | cps |
| Cobalt | 59-2 | 120 | 87 | 127 | 111 | 19.29 | cps |
| Copper | 63-2 | 2217 | 2157 | 2280 | 2218 | 2.78 | cps |
| Dysprosium | 156-1 | 20 | 23 | 33 | 26 | 27.15 | cps |
| Dysprosium | 156-2 | 17 | 10 | 7 | 11 | 45.82 | cps |
| Erbium | 164-1 | 143 | 133 | 110 | 129 | 13.27 | cps |
| Erbium | 164-2 | 113 | 90 | 90 | 98 | 13.78 | cps |
| Gadolinium | 160-1 | 127 | 127 | 137 | 130 | 4.44 | cps |
| Gadolinium | 160-2 | 1370 | 1230 | 1347 | 1316 | 5.70 | cps |
| Holmium | 165-1 | 33075162 | 32710087 | 32508190 | 32764480 | 0.88 | cps |
| Holmium | 165-2 | 22591332 | 22357238 | 22294770 | 22414447 | 0.70 | cps |
| Indium | 115-1 | 27784477 | 27742243 | 27332669 | 27619796 | 0.90 | cps |
| Indium | 115-2 | 9624341 | 9605885 | 9634976 | 9621734 | 0.15 | cps |
| Iron | 56-2 | 41440 | 41464 | 40488 | 41131 | 1.35 | cps |
| Iron | 57-2 | 1863 | 1793 | 1820 | 1826 | 1.94 | cps |
| Iron | 54-2 | 4631 | 4321 | 4497 | 4483 | 3.47 | cps |
| Krypton | 83-1 | 263 | 257 | 287 | 269 | 5.86 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-17 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A20 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:40:37 | DataFile Name : | 043SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2084 | 2057 | 2114 | 2085 | 1.36 | cps |
| Lead | 207-1 | 1773 | 1783 | 1710 | 1756 | 2.27 | cps |
| Lead | 208-1 | 8244 | 8111 | 8011 | 8122 | 1.44 | cps |
| Lithium | 6-1 | 3219752 | 3248799 | 3165251 | 3211267 | 1.32 | cps |
| Magnesium | 24-2 | 3707 | 3514 | 3614 | 3612 | 2.68 | cps |
| Manganese | 55-2 | 6415 | 6345 | 6021 | 6260 | 3.35 | cps |
| Molybdenum | 94-1 | 637 | 657 | 660 | 651 | 1.94 | cps |
| Molybdenum | 95-1 | 127 | 110 | 117 | 118 | 7.12 | cps |
| Molybdenum | 96-1 | 260 | 230 | 217 | 236 | 9.42 | cps |
| Molybdenum | 97-1 | 93 | 103 | 77 | 91 | 14.78 | cps |
| Molybdenum | 98-1 | 177 | 180 | 157 | 171 | 7.37 | cps |
| Neodymium | 150-1 | 13 | 13 | 17 | 14 | 13.35 | cps |
| Neodymium | 150-2 | 3 | 17 | 3 | 8 | 99.04 | cps |
| Nickel | 60-2 | 657 | 557 | 500 | 571 | 13.89 | cps |
| Phosphorus | 31-2 | 477 | 443 | 413 | 444 | 7.13 | cps |
| Potassium | 39-2 | 76018 | 75188 | 75610 | 75605 | 0.55 | cps |
| Rhodium | 103-1 | 26209844 | 25888314 | 25744287 | 25947482 | 0.92 | cps |
| Rhodium | 103-2 | 15378052 | 15461110 | 15367770 | 15402311 | 0.33 | cps |
| Scandium | 45-1 | 14643173 | 14611599 | 14439016 | 14564596 | 0.75 | cps |
| Scandium | 45-2 | 1296254 | 1291889 | 1284291 | 1290812 | 0.47 | cps |
| Selenium | 82-1 | 432 | 384 | 357 | 391 | 9.73 | cps |
| Selenium | 77-2 | 0 | 3 | 3 | 2 | 86.60 | cps |
| Selenium | 78-2 | 457 | 457 | 380 | 431 | 10.27 | cps |
| Silicon | 28-1 | 740454 | 741614 | 745086 | 742384 | 0.32 | cps |
| Silver | 107-1 | 233 | 177 | 173 | 194 | 17.34 | cps |
| Silver | 109-1 | 67 | 100 | 73 | 80 | 22.05 | cps |
| Sodium | 23-2 | 56757 | 56383 | 56416 | 56519 | 0.37 | cps |
| Strontium | 86-1 | 2664 | 2074 | 1687 | 2141 | 22.97 | cps |
| Strontium | 88-1 | 19547 | 14190 | 10634 | 14790 | 30.33 | cps |
| Sulfur | 34-1 | 313541 | 313342 | 318611 | 315165 | 0.95 | cps |
| Terbium | 159-1 | 33811818 | 33327279 | 33173701 | 33437599 | 1.00 | cps |
| Terbium | 159-2 | 22191991 | 22512778 | 21958481 | 22221083 | 1.25 | cps |
| Thallium | 203-1 | 303 | 277 | 253 | 278 | 9.01 | cps |
| Thallium | 205-1 | 723 | 583 | 527 | 611 | 16.57 | cps |
| Tin | 118-1 | 5544 | 5248 | 5711 | 5501 | 4.27 | cps |
| Titanium | 47-1 | 193 | 230 | 223 | 216 | 9.06 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-17 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A20 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:40:37 | DataFile Name : | 043SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 40 | 33 | 17 | 30 | 40.05 | cps |
| Vanadium | 51-2 | 107 | 113 | 107 | 109 | 3.53 | cps |
| Yttrium | 89-1 | 36188683 | 36123746 | 35790142 | 36034190 | 0.59 | cps |
| Yttrium | 89-2 | 9181645 | 9375101 | 9214086 | 9256944 | 1.12 | cps |
| Zinc | 66-2 | 6151 | 6171 | 6145 | 6156 | 0.23 | cps |
| Zirconium | 90-1 | 1793 | 1737 | 1727 | 1752 | 2.05 | cps |
| Zirconium | 91-1 | 380 | 340 | 383 | 368 | 6.56 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-18 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A24 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:43:55 | DataFile Name : | 044SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 953 | 893 | 1000 | 949 | 5.64 | cps |
| Antimony | 121-1 | 113 | 100 | 87 | 100 | 13.33 | cps |
| Arsenic | 75-2 | 7 | 10 | 17 | 11 | 45.82 | cps |
| Barium | 135-1 | 340 | 273 | 330 | 314 | 11.43 | cps |
| Barium | 137-1 | 513 | 570 | 527 | 537 | 5.52 | cps |
| Beryllium | 9-1 | 61 | 83 | 78 | 74 | 15.62 | cps |
| Bismuth | 209-1 | 20465438 | 20286746 | 20260586 | 20337590 | 0.55 | cps |
| Bismuth | 209-2 | 15910566 | 15957309 | 15017523 | 15628466 | 3.39 | cps |
| Bromine | 81-1 | 15615 | 15592 | 15782 | 15663 | 0.66 | cps |
| Bromine | 81-2 | 163 | 173 | 167 | 168 | 3.03 | cps |
| Cadmium | 108-1 | 27 | 30 | 40 | 32 | 21.53 | cps |
| Cadmium | 106-1 | 10928 | 10244 | 10170 | 10447 | 4.00 | cps |
| Cadmium | 111-1 | 7667 | 7180 | 7111 | 7319 | 4.14 | cps |
| Calcium | 43-1 | 4091 | 4301 | 4224 | 4205 | 2.53 | cps |
| Calcium | 44-1 | 79101 | 78254 | 77976 | 78444 | 0.75 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 5551 | 5491 | 5684 | 5576 | 1.78 | cps |
| Cobalt | 59-2 | 190 | 173 | 213 | 192 | 10.45 | cps |
| Copper | 63-2 | 2527 | 2650 | 2347 | 2508 | 6.08 | cps |
| Dysprosium | 156-1 | 27 | 3 | 17 | 16 | 75.27 | cps |
| Dysprosium | 156-2 | 17 | 13 | 10 | 13 | 25.01 | cps |
| Erbium | 164-1 | 127 | 127 | 163 | 139 | 15.24 | cps |
| Erbium | 164-2 | 133 | 90 | 100 | 108 | 21.06 | cps |
| Gadolinium | 160-1 | 137 | 110 | 117 | 121 | 11.46 | cps |
| Gadolinium | 160-2 | 1257 | 1400 | 1173 | 1277 | 8.98 | cps |
| Holmium | 165-1 | 33083720 | 33169866 | 32881503 | 33045030 | 0.45 | cps |
| Holmium | 165-2 | 22859205 | 22514661 | 21092885 | 22155584 | 4.23 | cps |
| Indium | 115-1 | 27947903 | 27598263 | 27521405 | 27689190 | 0.82 | cps |
| Indium | 115-2 | 9815412 | 9750432 | 9054798 | 9540214 | 4.42 | cps |
| Iron | 56-2 | 44807 | 45542 | 44031 | 44793 | 1.69 | cps |
| Iron | 57-2 | 1800 | 1953 | 1913 | 1889 | 4.21 | cps |
| Iron | 54-2 | 4751 | 4807 | 4697 | 4752 | 1.16 | cps |
| Krypton | 83-1 | 287 | 237 | 230 | 251 | 12.33 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-18 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A24 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:43:55 | DataFile Name : | 044SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2237 | 2250 | 2177 | 2221 | 1.76 | cps |
| Lead | 207-1 | 1910 | 1803 | 1957 | 1890 | 4.16 | cps |
| Lead | 208-1 | 8981 | 8761 | 8701 | 8815 | 1.67 | cps |
| Lithium | 6-1 | 3351642 | 3255909 | 3280551 | 3296034 | 1.51 | cps |
| Magnesium | 24-2 | 3104 | 3170 | 3004 | 3093 | 2.71 | cps |
| Manganese | 55-2 | 8306 | 8352 | 8356 | 8338 | 0.34 | cps |
| Molybdenum | 94-1 | 673 | 563 | 537 | 591 | 12.26 | cps |
| Molybdenum | 95-1 | 93 | 143 | 147 | 128 | 23.38 | cps |
| Molybdenum | 96-1 | 223 | 243 | 250 | 239 | 5.81 | cps |
| Molybdenum | 97-1 | 53 | 53 | 100 | 69 | 39.11 | cps |
| Molybdenum | 98-1 | 157 | 183 | 153 | 164 | 10.00 | cps |
| Neodymium | 150-1 | 20 | 17 | 13 | 17 | 20.01 | cps |
| Neodymium | 150-2 | 17 | 3 | 10 | 10 | 66.70 | cps |
| Nickel | 60-2 | 1130 | 1173 | 1157 | 1153 | 1.89 | cps |
| Phosphorus | 31-2 | 393 | 390 | 400 | 394 | 1.29 | cps |
| Potassium | 39-2 | 77235 | 76782 | 76129 | 76715 | 0.72 | cps |
| Rhodium | 103-1 | 26178737 | 25872822 | 26249970 | 26100510 | 0.77 | cps |
| Rhodium | 103-2 | 15738882 | 15576591 | 14410112 | 15241862 | 4.76 | cps |
| Scandium | 45-1 | 14767743 | 14720796 | 14724622 | 14737720 | 0.18 | cps |
| Scandium | 45-2 | 1315672 | 1307347 | 1206681 | 1276567 | 4.75 | cps |
| Selenium | 82-1 | 463 | 507 | 481 | 483 | 4.55 | cps |
| Selenium | 77-2 | 0 | 3 | 0 | 1 | 173.21 | cps |
| Selenium | 78-2 | 470 | 477 | 450 | 466 | 2.98 | cps |
| Silicon | 28-1 | 718959 | 727564 | 731690 | 726071 | 0.89 | cps |
| Silver | 107-1 | 160 | 190 | 153 | 168 | 11.64 | cps |
| Silver | 109-1 | 93 | 60 | 133 | 96 | 38.43 | cps |
| Sodium | 23-2 | 58785 | 59053 | 59451 | 59096 | 0.57 | cps |
| Strontium | 86-1 | 780 | 763 | 697 | 747 | 5.91 | cps |
| Strontium | 88-1 | 3004 | 2884 | 3004 | 2964 | 2.34 | cps |
| Sulfur | 34-1 | 314728 | 316461 | 316049 | 315746 | 0.29 | cps |
| Terbium | 159-1 | 33822071 | 33803014 | 33395685 | 33673590 | 0.72 | cps |
| Terbium | 159-2 | 22439454 | 22441162 | 20761184 | 21880600 | 4.43 | cps |
| Thallium | 203-1 | 293 | 203 | 193 | 230 | 23.95 | cps |
| Thallium | 205-1 | 633 | 560 | 443 | 546 | 17.56 | cps |
| Tin | 118-1 | 6175 | 6158 | 6008 | 6114 | 1.50 | cps |
| Titanium | 47-1 | 230 | 213 | 230 | 224 | 4.29 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-18 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A24 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:43:55 | DataFile Name : | 044SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 53 | 53 | 23 | 43 | 39.97 | cps |
| Vanadium | 51-2 | 90 | 113 | 87 | 97 | 15.03 | cps |
| Yttrium | 89-1 | 36372439 | 36037853 | 36025724 | 36145338 | 0.54 | cps |
| Yttrium | 89-2 | 9526400 | 9279603 | 8767428 | 9191144 | 4.21 | cps |
| Zinc | 66-2 | 6238 | 6615 | 6388 | 6414 | 2.96 | cps |
| Zirconium | 90-1 | 1623 | 1640 | 1577 | 1613 | 2.03 | cps |
| Zirconium | 91-1 | 363 | 303 | 300 | 322 | 11.06 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCV002 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV002 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:50:25 | DataFile Name : | 046CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 25129635 | 25250794 | 25318328 | 25232919 | 0.38 | cps |
| Antimony | 121-1 | 11198377 | 11260894 | 11333449 | 11264240 | 0.60 | cps |
| Arsenic | 75-2 | 615248 | 621346 | 624483 | 620359 | 0.76 | cps |
| Barium | 135-1 | 13467699 | 13746616 | 13772688 | 13662334 | 1.24 | cps |
| Barium | 137-1 | 23061522 | 23497274 | 23805025 | 23454607 | 1.59 | cps |
| Beryllium | 9-1 | 1126768 | 1139265 | 1146151 | 1137395 | 0.86 | cps |
| Bismuth | 209-1 | 17521103 | 17453713 | 17529823 | 17501546 | 0.24 | cps |
| Bismuth | 209-2 | 13540454 | 13640892 | 13662246 | 13614530 | 0.48 | cps |
| Bromine | 81-1 | 16246 | 16589 | 17160 | 16665 | 2.77 | cps |
| Bromine | 81-2 | 160 | 207 | 203 | 190 | 13.70 | cps |
| Cadmium | 108-1 | 220680 | 227266 | 226880 | 224942 | 1.64 | cps |
| Cadmium | 106-1 | 318914 | 326257 | 324705 | 323292 | 1.20 | cps |
| Cadmium | 111-1 | 2958926 | 3000554 | 3013090 | 2990857 | 0.95 | cps |
| Calcium | 43-1 | 13786521 | 14096597 | 14146874 | 14009998 | 1.39 | cps |
| Calcium | 44-1 | 220676930 | 227071337 | 227433617 | 225060628 | 1.69 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 4593867 | 4667473 | 4767280 | 4676207 | 1.86 | cps |
| Cobalt | 59-2 | 7613911 | 7655825 | 7629972 | 7633236 | 0.28 | cps |
| Copper | 63-2 | 54562091 | 54403461 | 53996493 | 54320681 | 0.54 | cps |
| Dysprosium | 156-1 | 640 | 660 | 650 | 650 | 1.54 | cps |
| Dysprosium | 156-2 | 1003 | 907 | 1040 | 983 | 7.00 | cps |
| Erbium | 164-1 | 680 | 617 | 747 | 681 | 9.54 | cps |
| Erbium | 164-2 | 483 | 470 | 437 | 463 | 5.19 | cps |
| Gadolinium | 160-1 | 560 | 540 | 563 | 554 | 2.28 | cps |
| Gadolinium | 160-2 | 1453 | 1523 | 1603 | 1527 | 4.92 | cps |
| Holmium | 165-1 | 31301655 | 31152050 | 31399485 | 31284397 | 0.40 | cps |
| Holmium | 165-2 | 21615383 | 21542486 | 21634485 | 21597451 | 0.22 | cps |
| Indium | 115-1 | 24498877 | 25133567 | 24891432 | 24841292 | 1.29 | cps |
| Indium | 115-2 | 8922578 | 9003510 | 8805797 | 8910628 | 1.12 | cps |
| Iron | 56-2 | 1061393904 | 1052505904 | 1056437264 | 1056779024 | 0.42 | cps |
| Iron | 57-2 | 26070101 | 26495771 | 26523745 | 26363206 | 0.96 | cps |
| Iron | 54-2 | 56915699 | 57296021 | 58460439 | 57557386 | 1.40 | cps |
| Krypton | 83-1 | 360 | 360 | 280 | 333 | 13.86 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCV002 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV002 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:50:25 | DataFile Name : | 046CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 39949337 | 40323184 | 40118909 | 40130477 | 0.47 | cps |
| Lead | 207-1 | 35025634 | 35221286 | 35470076 | 35238999 | 0.63 | cps |
| Lead | 208-1 | 159299469 | 160579749 | 160885058 | 160254759 | 0.52 | cps |
| Lithium | 6-1 | 3053220 | 2964337 | 2970570 | 2996042 | 1.66 | cps |
| Magnesium | 24-2 | 217400417 | 216362050 | 217176997 | 216979821 | 0.25 | cps |
| Manganese | 55-2 | 35820324 | 35678740 | 36454573 | 35984546 | 1.15 | cps |
| Molybdenum | 94-1 | 39308665 | 39558549 | 40132832 | 39666682 | 1.07 | cps |
| Molybdenum | 95-1 | 57093986 | 57442607 | 58073826 | 57536806 | 0.86 | cps |
| Molybdenum | 96-1 | 62492401 | 62630306 | 63794084 | 62972264 | 1.14 | cps |
| Molybdenum | 97-1 | 35311698 | 35789662 | 36370714 | 35824025 | 1.48 | cps |
| Molybdenum | 98-1 | 90862942 | 92788285 | 94641099 | 92764109 | 2.04 | cps |
| Neodymium | 150-1 | 973 | 837 | 913 | 908 | 7.55 | cps |
| Neodymium | 150-2 | 317 | 297 | 270 | 294 | 7.95 | cps |
| Nickel | 60-2 | 1929942 | 1928431 | 1942759 | 1933710 | 0.41 | cps |
| Phosphorus | 31-2 | 246876 | 250542 | 250666 | 249362 | 0.86 | cps |
| Potassium | 39-2 | 123494815 | 124297728 | 125741081 | 124511208 | 0.91 | cps |
| Rhodium | 103-1 | 22443932 | 22764093 | 22880522 | 22696182 | 1.00 | cps |
| Rhodium | 103-2 | 13732594 | 13815442 | 13709224 | 13752420 | 0.41 | cps |
| Scandium | 45-1 | 13682639 | 13772413 | 14038903 | 13831318 | 1.34 | cps |
| Scandium | 45-2 | 1259788 | 1249932 | 1282039 | 1263919 | 1.30 | cps |
| Selenium | 82-1 | 173979 | 177369 | 179130 | 176826 | 1.48 | cps |
| Selenium | 77-2 | 19092 | 18709 | 18639 | 18813 | 1.30 | cps |
| Selenium | 78-2 | 62277 | 61259 | 62287 | 61941 | 0.95 | cps |
| Silicon | 28-1 | 29602986 | 29920060 | 30335325 | 29952790 | 1.23 | cps |
| Silver | 107-1 | 14227840 | 14442897 | 14526270 | 14399002 | 1.07 | cps |
| Silver | 109-1 | 13699575 | 13643155 | 13766417 | 13703049 | 0.45 | cps |
| Sodium | 23-2 | 338624902 | 332204855 | 333844295 | 334891351 | 1.00 | cps |
| Strontium | 86-1 | 3506679 | 3512567 | 3553683 | 3524310 | 0.73 | cps |
| Strontium | 88-1 | 30262502 | 30715711 | 31089862 | 30689358 | 1.35 | cps |
| Sulfur | 34-1 | 1062003 | 1188198 | 1204489 | 1151563 | 6.77 | cps |
| Terbium | 159-1 | 31762175 | 32007837 | 32058594 | 31942869 | 0.50 | cps |
| Terbium | 159-2 | 21044360 | 21333018 | 21029638 | 21135672 | 0.81 | cps |
| Thallium | 203-1 | 9972301 | 10078582 | 10186362 | 10079082 | 1.06 | cps |
| Thallium | 205-1 | 24066167 | 24208787 | 24170021 | 24148325 | 0.31 | cps |
| Tin | 118-1 | 9150542 | 9263298 | 9316964 | 9243601 | 0.92 | cps |
| Titanium | 47-1 | 13237304 | 13484479 | 13629531 | 13450438 | 1.47 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCV002 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV002 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:50:25 | DataFile Name : | 046CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 31475583 | 31878435 | 31671385 | 31675134 | 0.64 | cps |
| Vanadium | 51-2 | 4073505 | 4100465 | 4136054 | 4103341 | 0.76 | cps |
| Yttrium | 89-1 | 33620317 | 33746492 | 34870940 | 34079250 | 2.02 | cps |
| Yttrium | 89-2 | 8991564 | 8934295 | 9016734 | 8980864 | 0.47 | cps |
| Zinc | 66-2 | 8903173 | 8881737 | 8900662 | 8895190 | 0.13 | cps |
| Zirconium | 90-1 | 19068932 | 19355446 | 19811702 | 19412027 | 1.93 | cps |
| Zirconium | 91-1 | 4211630 | 4279788 | 4338125 | 4276514 | 1.48 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCB002 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB002 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:53:06 | DataFile Name : | 047CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1377 | 1280 | 1147 | 1268 | 9.11 | cps |
| Antimony | 121-1 | 5061 | 5158 | 6948 | 5722 | 18.58 | cps |
| Arsenic | 75-2 | 33 | 50 | 37 | 40 | 22.05 | cps |
| Barium | 135-1 | 2507 | 1473 | 1190 | 1723 | 40.22 | cps |
| Barium | 137-1 | 4541 | 2484 | 1910 | 2978 | 46.45 | cps |
| Beryllium | 9-1 | 367 | 217 | 211 | 265 | 33.33 | cps |
| Bismuth | 209-1 | 18179074 | 19126457 | 19066684 | 18790738 | 2.82 | cps |
| Bismuth | 209-2 | 15191574 | 15373928 | 15311680 | 15292394 | 0.61 | cps |
| Bromine | 81-1 | 17257 | 16519 | 16763 | 16846 | 2.23 | cps |
| Bromine | 81-2 | 147 | 167 | 163 | 159 | 6.74 | cps |
| Cadmium | 108-1 | 90 | 57 | 63 | 70 | 25.20 | cps |
| Cadmium | 106-1 | 9653 | 9863 | 9637 | 9718 | 1.30 | cps |
| Cadmium | 111-1 | 7301 | 7238 | 7018 | 7186 | 2.07 | cps |
| Calcium | 43-1 | 9116 | 7905 | 7318 | 8113 | 11.30 | cps |
| Calcium | 44-1 | 157911 | 138667 | 132086 | 142888 | 9.39 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 6538 | 6438 | 6772 | 6583 | 2.60 | cps |
| Cobalt | 59-2 | 507 | 420 | 373 | 433 | 15.61 | cps |
| Copper | 63-2 | 4988 | 4734 | 4587 | 4770 | 4.24 | cps |
| Dysprosium | 156-1 | 10 | 17 | 7 | 11 | 45.82 | cps |
| Dysprosium | 156-2 | 23 | 17 | 20 | 20 | 16.65 | cps |
| Erbium | 164-1 | 100 | 150 | 123 | 124 | 20.10 | cps |
| Erbium | 164-2 | 103 | 53 | 87 | 81 | 31.39 | cps |
| Gadolinium | 160-1 | 117 | 157 | 160 | 144 | 16.69 | cps |
| Gadolinium | 160-2 | 1347 | 1347 | 1267 | 1320 | 3.50 | cps |
| Holmium | 165-1 | 29692623 | 31627442 | 31774800 | 31031622 | 3.74 | cps |
| Holmium | 165-2 | 22170746 | 22048991 | 21959908 | 22059881 | 0.48 | cps |
| Indium | 115-1 | 25062733 | 26851093 | 26907048 | 26273625 | 3.99 | cps |
| Indium | 115-2 | 9474475 | 9475250 | 9386847 | 9445524 | 0.54 | cps |
| Iron | 56-2 | 81241 | 77079 | 71057 | 76459 | 6.70 | cps |
| Iron | 57-2 | 2704 | 2584 | 2820 | 2702 | 4.38 | cps |
| Iron | 54-2 | 7622 | 7462 | 6958 | 7347 | 4.71 | cps |
| Krypton | 83-1 | 287 | 350 | 300 | 312 | 10.69 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCB002 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB002 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:53:06 | DataFile Name : | 047CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 9370 | 6141 | 4834 | 6782 | 34.43 | cps |
| Lead | 207-1 | 8166 | 5391 | 4224 | 5927 | 34.16 | cps |
| Lead | 208-1 | 37328 | 23665 | 19602 | 26865 | 34.56 | cps |
| Lithium | 6-1 | 2958503 | 3138423 | 3128434 | 3075120 | 3.29 | cps |
| Magnesium | 24-2 | 10901 | 10107 | 9186 | 10065 | 8.53 | cps |
| Manganese | 55-2 | 15164 | 15415 | 14887 | 15155 | 1.74 | cps |
| Molybdenum | 94-1 | 9500 | 6505 | 5935 | 7313 | 26.19 | cps |
| Molybdenum | 95-1 | 11111 | 6645 | 4958 | 7571 | 42.00 | cps |
| Molybdenum | 96-1 | 12609 | 7632 | 5951 | 8731 | 39.66 | cps |
| Molybdenum | 97-1 | 6978 | 4141 | 3044 | 4721 | 43.01 | cps |
| Molybdenum | 98-1 | 17534 | 10544 | 7926 | 12001 | 41.39 | cps |
| Neodymium | 150-1 | 17 | 17 | 7 | 13 | 43.29 | cps |
| Neodymium | 150-2 | 7 | 7 | 17 | 10 | 57.72 | cps |
| Nickel | 60-2 | 923 | 860 | 813 | 866 | 6.38 | cps |
| Phosphorus | 31-2 | 410 | 473 | 487 | 457 | 8.97 | cps |
| Potassium | 39-2 | 83353 | 83326 | 81191 | 82624 | 1.50 | cps |
| Rhodium | 103-1 | 24241241 | 25219253 | 25424091 | 24961529 | 2.53 | cps |
| Rhodium | 103-2 | 15387438 | 15064032 | 15180443 | 15210638 | 1.08 | cps |
| Scandium | 45-1 | 13512663 | 14382848 | 14333729 | 14076414 | 3.47 | cps |
| Scandium | 45-2 | 1262142 | 1299401 | 1281024 | 1280856 | 1.45 | cps |
| Selenium | 82-1 | 578 | 476 | 419 | 491 | 16.41 | cps |
| Selenium | 77-2 | 0 | 0 | 0 | 0 | 0.00 | cps |
| Selenium | 78-2 | 487 | 430 | 487 | 468 | 6.99 | cps |
| Silicon | 28-1 | 829197 | 818935 | 817092 | 821741 | 0.79 | cps |
| Silver | 107-1 | 2890 | 1683 | 1250 | 1941 | 43.78 | cps |
| Silver | 109-1 | 2784 | 1560 | 1027 | 1790 | 50.32 | cps |
| Sodium | 23-2 | 79933 | 79038 | 76435 | 78469 | 2.32 | cps |
| Strontium | 86-1 | 1567 | 1323 | 1090 | 1327 | 17.97 | cps |
| Strontium | 88-1 | 9467 | 6682 | 5578 | 7242 | 27.67 | cps |
| Sulfur | 34-1 | 297176 | 297695 | 299470 | 298114 | 0.40 | cps |
| Terbium | 159-1 | 30576917 | 32345072 | 32410044 | 31777344 | 3.27 | cps |
| Terbium | 159-2 | 21858831 | 21805091 | 21779216 | 21814379 | 0.19 | cps |
| Thallium | 203-1 | 2120 | 1483 | 1130 | 1578 | 31.80 | cps |
| Thallium | 205-1 | 4744 | 3290 | 2524 | 3519 | 32.05 | cps |
| Tin | 118-1 | 10020 | 9126 | 9243 | 9463 | 5.14 | cps |
| Titanium | 47-1 | 2447 | 1503 | 1007 | 1652 | 44.27 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCB002 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB002 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:53:06 | DataFile Name : | 047CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 5601 | 2834 | 1904 | 3446 | 55.82 | cps |
| Vanadium | 51-2 | 250 | 207 | 143 | 200 | 26.82 | cps |
| Yttrium | 89-1 | 33212893 | 35273829 | 35485619 | 34657447 | 3.62 | cps |
| Yttrium | 89-2 | 9300878 | 9234463 | 9213189 | 9249510 | 0.49 | cps |
| Zinc | 66-2 | 14234 | 14147 | 14277 | 14219 | 0.47 | cps |
| Zirconium | 90-1 | 8726 | 7659 | 8493 | 8292 | 6.77 | cps |
| Zirconium | 91-1 | 1940 | 1793 | 1657 | 1797 | 7.89 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-01 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:56:23 | DataFile Name : | 048SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1147 | 1217 | 1227 | 1197 | 3.64 | cps |
| Antimony | 121-1 | 2217 | 2440 | 2674 | 2444 | 9.35 | cps |
| Arsenic | 75-2 | 1837 | 1843 | 1877 | 1852 | 1.16 | cps |
| Barium | 135-1 | 532678 | 528676 | 523886 | 528413 | 0.83 | cps |
| Barium | 137-1 | 926826 | 917493 | 912304 | 918874 | 0.80 | cps |
| Beryllium | 9-1 | 111 | 122 | 122 | 119 | 5.41 | cps |
| Bismuth | 209-1 | 20354386 | 19898956 | 19826136 | 20026492 | 1.43 | cps |
| Bismuth | 209-2 | 15571601 | 15535637 | 15604546 | 15570595 | 0.22 | cps |
| Bromine | 81-1 | 32051 | 34079 | 36014 | 34048 | 5.82 | cps |
| Bromine | 81-2 | 3891 | 4004 | 3851 | 3915 | 2.03 | cps |
| Cadmium | 108-1 | 57 | 53 | 53 | 54 | 3.54 | cps |
| Cadmium | 106-1 | 11478 | 10934 | 10701 | 11038 | 3.61 | cps |
| Cadmium | 111-1 | 8122 | 7703 | 7543 | 7789 | 3.83 | cps |
| Calcium | 43-1 | 4890990 | 4804633 | 4746900 | 4814175 | 1.51 | cps |
| Calcium | 44-1 | 78775154 | 77483566 | 75312654 | 77190458 | 2.27 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 11792 | 12633 | 12312 | 12246 | 3.47 | cps |
| Cobalt | 59-2 | 2044 | 2077 | 2047 | 2056 | 0.89 | cps |
| Copper | 63-2 | 16032 | 15525 | 16049 | 15869 | 1.88 | cps |
| Dysprosium | 156-1 | 347 | 377 | 303 | 342 | 10.77 | cps |
| Dysprosium | 156-2 | 297 | 297 | 263 | 286 | 6.74 | cps |
| Erbium | 164-1 | 150 | 223 | 197 | 190 | 19.54 | cps |
| Erbium | 164-2 | 140 | 133 | 133 | 136 | 2.84 | cps |
| Gadolinium | 160-1 | 510 | 563 | 447 | 507 | 11.53 | cps |
| Gadolinium | 160-2 | 1760 | 1593 | 1610 | 1655 | 5.55 | cps |
| Holmium | 165-1 | 34894057 | 33587940 | 33782441 | 34088146 | 2.07 | cps |
| Holmium | 165-2 | 22834557 | 22861416 | 23086742 | 22927572 | 0.60 | cps |
| Indium | 115-1 | 28999889 | 28692016 | 28052054 | 28581320 | 1.69 | cps |
| Indium | 115-2 | 9882771 | 9773674 | 9805830 | 9820758 | 0.57 | cps |
| Iron | 56-2 | 187512 | 182516 | 188931 | 186320 | 1.81 | cps |
| Iron | 57-2 | 91815 | 93539 | 92743 | 92699 | 0.93 | cps |
| Iron | 54-2 | 12896 | 12769 | 12185 | 12617 | 3.00 | cps |
| Krypton | 83-1 | 333 | 293 | 307 | 311 | 6.55 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-01 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:56:23 | DataFile Name : | 048SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 3210 | 3000 | 2860 | 3024 | 5.83 | cps |
| Lead | 207-1 | 2820 | 2480 | 2460 | 2587 | 7.82 | cps |
| Lead | 208-1 | 12246 | 11532 | 11028 | 11602 | 5.27 | cps |
| Lithium | 6-1 | 3443177 | 3381587 | 3398611 | 3407792 | 0.93 | cps |
| Magnesium | 24-2 | 27068848 | 27081382 | 26979334 | 27043188 | 0.21 | cps |
| Manganese | 55-2 | 34733 | 34733 | 34352 | 34606 | 0.64 | cps |
| Molybdenum | 94-1 | 39503 | 39777 | 38905 | 39395 | 1.13 | cps |
| Molybdenum | 95-1 | 66457 | 66929 | 65418 | 66268 | 1.17 | cps |
| Molybdenum | 96-1 | 72475 | 71018 | 70264 | 71252 | 1.58 | cps |
| Molybdenum | 97-1 | 41174 | 41806 | 41298 | 41426 | 0.81 | cps |
| Molybdenum | 98-1 | 106931 | 106548 | 104755 | 106078 | 1.10 | cps |
| Neodymium | 150-1 | 87 | 77 | 60 | 74 | 18.10 | cps |
| Neodymium | 150-2 | 57 | 50 | 30 | 46 | 30.47 | cps |
| Nickel | 60-2 | 6315 | 6258 | 6355 | 6309 | 0.77 | cps |
| Phosphorus | 31-2 | 1407 | 1383 | 1447 | 1412 | 2.27 | cps |
| Potassium | 39-2 | 4304801 | 4308175 | 4256144 | 4289706 | 0.68 | cps |
| Rhodium | 103-1 | 27196714 | 26519250 | 26381399 | 26699121 | 1.63 | cps |
| Rhodium | 103-2 | 15570486 | 15384105 | 15544010 | 15499534 | 0.65 | cps |
| Scandium | 45-1 | 15946391 | 15754650 | 15303288 | 15668109 | 2.11 | cps |
| Scandium | 45-2 | 1351284 | 1369713 | 1349415 | 1356804 | 0.83 | cps |
| Selenium | 82-1 | 543 | 591 | 445 | 526 | 14.09 | cps |
| Selenium | 77-2 | 3 | 3 | 0 | 2 | 86.60 | cps |
| Selenium | 78-2 | 440 | 443 | 497 | 460 | 6.91 | cps |
| Silicon | 28-1 | 52737038 | 52231404 | 52233903 | 52400781 | 0.56 | cps |
| Silver | 107-1 | 340 | 333 | 310 | 328 | 4.81 | cps |
| Silver | 109-1 | 193 | 193 | 180 | 189 | 4.08 | cps |
| Sodium | 23-2 | 20922203 | 20933396 | 20713532 | 20856377 | 0.59 | cps |
| Strontium | 86-1 | 19802283 | 19636127 | 19207140 | 19548517 | 1.57 | cps |
| Strontium | 88-1 | 173076491 | 169665001 | 167469204 | 170070232 | 1.66 | cps |
| Sulfur | 34-1 | 1793227 | 1775189 | 1778900 | 1782439 | 0.53 | cps |
| Terbium | 159-1 | 35077313 | 34672689 | 34987147 | 34912383 | 0.61 | cps |
| Terbium | 159-2 | 22534634 | 22499408 | 22690502 | 22574848 | 0.45 | cps |
| Thallium | 203-1 | 977 | 987 | 917 | 960 | 3.94 | cps |
| Thallium | 205-1 | 2490 | 2350 | 2134 | 2325 | 7.73 | cps |
| Tin | 118-1 | 5068 | 5128 | 5582 | 5259 | 5.34 | cps |
| Titanium | 47-1 | 920 | 937 | 1017 | 958 | 5.40 | cps |

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Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-01 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z2 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:56:23 | DataFile Name : | 048SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 59911 | 60125 | 60179 | 60072 | 0.24 | cps |
| Vanadium | 51-2 | 1897 | 1733 | 1773 | 1801 | 4.73 | cps |
| Yttrium | 89-1 | 38861879 | 38720690 | 37843353 | 38475307 | 1.43 | cps |
| Yttrium | 89-2 | 9647849 | 9527329 | 9489345 | 9554841 | 0.87 | cps |
| Zinc | 66-2 | 12405 | 12178 | 12389 | 12324 | 1.03 | cps |
| Zirconium | 90-1 | 4244 | 4051 | 5044 | 4446 | 11.85 | cps |
| Zirconium | 91-1 | 863 | 1000 | 1163 | 1009 | 14.89 | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-02 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z4 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:59:30 | DataFile Name : | 049SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1393 | 1263 | 1163 | 1273 | 9.06 | cps |
| Antimony | 121-1 | 1763 | 1887 | 1953 | 1868 | 5.16 | cps |
| Arsenic | 75-2 | 1947 | 1887 | 1873 | 1902 | 2.05 | cps |
| Barium | 135-1 | 530323 | 530806 | 529595 | 530241 | 0.11 | cps |
| Barium | 137-1 | 921038 | 924078 | 912464 | 919193 | 0.66 | cps |
| Beryllium | 9-1 | 117 | 89 | 117 | 107 | 14.93 | cps |
| Bismuth | 209-1 | 20342856 | 19856334 | 19930716 | 20043302 | 1.31 | cps |
| Bismuth | 209-2 | 15758971 | 15806069 | 15510476 | 15691839 | 1.01 | cps |
| Bromine | 81-1 | 32332 | 35192 | 35529 | 34351 | 5.11 | cps |
| Bromine | 81-2 | 3957 | 4041 | 4007 | 4002 | 1.05 | cps |
| Cadmium | 108-1 | 63 | 27 | 50 | 47 | 39.76 | cps |
| Cadmium | 106-1 | 11375 | 10741 | 10407 | 10841 | 4.53 | cps |
| Cadmium | 111-1 | 8015 | 7590 | 7320 | 7641 | 4.58 | cps |
| Calcium | 43-1 | 4852695 | 4763583 | 4766757 | 4794345 | 1.05 | cps |
| Calcium | 44-1 | 76592656 | 76152096 | 76689722 | 76478158 | 0.37 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 5761 | 5404 | 5604 | 5590 | 3.20 | cps |
| Cobalt | 59-2 | 1940 | 2084 | 1887 | 1970 | 5.16 | cps |
| Copper | 63-2 | 11618 | 11645 | 11478 | 11580 | 0.77 | cps |
| Dysprosium | 156-1 | 437 | 367 | 380 | 394 | 9.42 | cps |
| Dysprosium | 156-2 | 243 | 267 | 260 | 257 | 4.68 | cps |
| Erbium | 164-1 | 137 | 163 | 193 | 164 | 17.24 | cps |
| Erbium | 164-2 | 147 | 177 | 150 | 158 | 10.42 | cps |
| Gadolinium | 160-1 | 557 | 487 | 593 | 546 | 9.93 | cps |
| Gadolinium | 160-2 | 1550 | 1583 | 1613 | 1582 | 2.00 | cps |
| Holmium | 165-1 | 34479135 | 33679745 | 33632870 | 33930583 | 1.40 | cps |
| Holmium | 165-2 | 23213816 | 23000958 | 22735430 | 22983401 | 1.04 | cps |
| Indium | 115-1 | 28712888 | 28258043 | 28457198 | 28476043 | 0.80 | cps |
| Indium | 115-2 | 9912606 | 9849618 | 9712605 | 9824943 | 1.04 | cps |
| Iron | 56-2 | 188964 | 187584 | 187810 | 188119 | 0.39 | cps |
| Iron | 57-2 | 90544 | 92210 | 92586 | 91780 | 1.18 | cps |
| Iron | 54-2 | 12379 | 12349 | 12222 | 12316 | 0.68 | cps |
| Krypton | 83-1 | 247 | 277 | 300 | 274 | 9.74 | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-02 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z4 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:59:30 | DataFile Name : | 049SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 4024 | 4061 | 4001 | 4028 | 0.75 | cps |
| Lead | 207-1 | 3264 | 3070 | 3197 | 3177 | 3.09 | cps |
| Lead | 208-1 | 15487 | 15093 | 15330 | 15304 | 1.29 | cps |
| Lithium | 6-1 | 3480167 | 3388752 | 3371350 | 3413423 | 1.71 | cps |
| Magnesium | 24-2 | 27227879 | 27205224 | 27232435 | 27221846 | 0.05 | cps |
| Manganese | 55-2 | 34603 | 34683 | 34122 | 34469 | 0.88 | cps |
| Molybdenum | 94-1 | 38818 | 38277 | 37936 | 38343 | 1.16 | cps |
| Molybdenum | 95-1 | 65466 | 65060 | 63708 | 64745 | 1.42 | cps |
| Molybdenum | 96-1 | 70529 | 70200 | 69159 | 69963 | 1.02 | cps |
| Molybdenum | 97-1 | 41058 | 40623 | 40606 | 40762 | 0.63 | cps |
| Molybdenum | 98-1 | 105970 | 105034 | 106014 | 105673 | 0.52 | cps |
| Neodymium | 150-1 | 63 | 50 | 117 | 77 | 46.02 | cps |
| Neodymium | 150-2 | 17 | 30 | 33 | 27 | 33.06 | cps |
| Nickel | 60-2 | 4397 | 4517 | 4491 | 4468 | 1.41 | cps |
| Phosphorus | 31-2 | 1393 | 1370 | 1457 | 1407 | 3.19 | cps |
| Potassium | 39-2 | 4329028 | 4361663 | 4363782 | 4351491 | 0.45 | cps |
| Rhodium | 103-1 | 26940435 | 26068465 | 26227213 | 26412038 | 1.76 | cps |
| Rhodium | 103-2 | 15529378 | 15448653 | 15501183 | 15493071 | 0.26 | cps |
| Scandium | 45-1 | 15555274 | 15431824 | 15317190 | 15434763 | 0.77 | cps |
| Scandium | 45-2 | 1377068 | 1347199 | 1365929 | 1363399 | 1.11 | cps |
| Selenium | 82-1 | 576 | 441 | 456 | 491 | 15.08 | cps |
| Selenium | 77-2 | 10 | 0 | 0 | 3 | 173.21 | cps |
| Selenium | 78-2 | 503 | 507 | 467 | 492 | 4.51 | cps |
| Silicon | 28-1 | 51960913 | 51996728 | 51351941 | 51769860 | 0.70 | cps |
| Silver | 107-1 | 283 | 337 | 280 | 300 | 10.60 | cps |
| Silver | 109-1 | 167 | 163 | 150 | 160 | 5.51 | cps |
| Sodium | 23-2 | 21007866 | 20881907 | 20892444 | 20927406 | 0.33 | cps |
| Strontium | 86-1 | 19676521 | 19601520 | 19272176 | 19516739 | 1.10 | cps |
| Strontium | 88-1 | 171317111 | 170885031 | 169468461 | 170556867 | 0.57 | cps |
| Sulfur | 34-1 | 1794892 | 1804535 | 1786592 | 1795340 | 0.50 | cps |
| Terbium | 159-1 | 35050254 | 34445278 | 34434049 | 34643194 | 1.02 | cps |
| Terbium | 159-2 | 22919000 | 22761855 | 22643447 | 22774767 | 0.61 | cps |
| Thallium | 203-1 | 883 | 837 | 797 | 839 | 5.17 | cps |
| Thallium | 205-1 | 2027 | 1933 | 1923 | 1961 | 2.91 | cps |
| Tin | 118-1 | 5501 | 5398 | 5591 | 5497 | 1.76 | cps |
| Titanium | 47-1 | 810 | 803 | 927 | 847 | 8.19 | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-02 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z4 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 15:59:30 | DataFile Name : | 049SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 60698 | 60035 | 61056 | 60596 | 0.85 | cps |
| Vanadium | 51-2 | 1683 | 1737 | 1777 | 1732 | 2.70 | cps |
| Yttrium | 89-1 | 38139767 | 38089114 | 38020716 | 38083199 | 0.16 | cps |
| Yttrium | 89-2 | 9622891 | 9598454 | 9490796 | 9570714 | 0.73 | cps |
| Zinc | 66-2 | 6812 | 6481 | 6755 | 6683 | 2.64 | cps |
| Zirconium | 90-1 | 4174 | 4184 | 4674 | 4344 | 6.58 | cps |
| Zirconium | 91-1 | 910 | 903 | 997 | 937 | 5.56 | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-03 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z6 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:02:40 | DataFile Name : | 050SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1060 | 1180 | 1207 | 1149 | 6.80 | cps |
| Antimony | 121-1 | 1687 | 1710 | 1843 | 1747 | 4.84 | cps |
| Arsenic | 75-2 | 1700 | 1690 | 1703 | 1698 | 0.41 | cps |
| Barium | 135-1 | 508778 | 509899 | 504624 | 507767 | 0.55 | cps |
| Barium | 137-1 | 892324 | 880009 | 883641 | 885324 | 0.71 | cps |
| Beryllium | 9-1 | 78 | 111 | 106 | 98 | 18.19 | cps |
| Bismuth | 209-1 | 20169533 | 19920226 | 19912484 | 20000748 | 0.73 | cps |
| Bismuth | 209-2 | 15049490 | 15474076 | 15696264 | 15406610 | 2.13 | cps |
| Bromine | 81-1 | 30896 | 34554 | 36151 | 33867 | 7.95 | cps |
| Bromine | 81-2 | 3777 | 4021 | 4034 | 3944 | 3.66 | cps |
| Cadmium | 108-1 | 30 | 60 | 40 | 43 | 35.25 | cps |
| Cadmium | 106-1 | 11281 | 10864 | 10601 | 10915 | 3.14 | cps |
| Cadmium | 111-1 | 7959 | 7646 | 7459 | 7688 | 3.29 | cps |
| Calcium | 43-1 | 4668905 | 4583210 | 4672039 | 4641385 | 1.09 | cps |
| Calcium | 44-1 | 73860647 | 73268637 | 73399999 | 73509761 | 0.42 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 8993 | 8716 | 8713 | 8807 | 1.83 | cps |
| Cobalt | 59-2 | 1883 | 1943 | 1953 | 1927 | 1.97 | cps |
| Copper | 63-2 | 10514 | 11054 | 10881 | 10816 | 2.55 | cps |
| Dysprosium | 156-1 | 347 | 333 | 317 | 332 | 4.52 | cps |
| Dysprosium | 156-2 | 210 | 267 | 277 | 251 | 14.32 | cps |
| Erbium | 164-1 | 197 | 210 | 193 | 200 | 4.41 | cps |
| Erbium | 164-2 | 113 | 120 | 147 | 127 | 13.92 | cps |
| Gadolinium | 160-1 | 523 | 443 | 463 | 477 | 8.73 | cps |
| Gadolinium | 160-2 | 1400 | 1487 | 1563 | 1483 | 5.51 | cps |
| Holmium | 165-1 | 33838542 | 33397195 | 33377256 | 33537664 | 0.78 | cps |
| Holmium | 165-2 | 22142476 | 22782572 | 22977490 | 22634179 | 1.93 | cps |
| Indium | 115-1 | 28109409 | 27854294 | 28061315 | 28008339 | 0.48 | cps |
| Indium | 115-2 | 9493294 | 9677849 | 9860579 | 9677241 | 1.90 | cps |
| Iron | 56-2 | 213092 | 212731 | 211554 | 212459 | 0.38 | cps |
| Iron | 57-2 | 89122 | 90584 | 90812 | 90173 | 1.02 | cps |
| Iron | 54-2 | 14047 | 13947 | 13730 | 13908 | 1.17 | cps |
| Krypton | 83-1 | 303 | 277 | 273 | 284 | 5.78 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-03 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z6 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:02:40 | DataFile Name : | 050SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 3757 | 6255 | 3604 | 4539 | 32.79 | cps |
| Lead | 207-1 | 2987 | 4978 | 3200 | 3722 | 29.37 | cps |
| Lead | 208-1 | 13839 | 22471 | 13883 | 16731 | 29.71 | cps |
| Lithium | 6-1 | 3398600 | 3424205 | 3344013 | 3388939 | 1.21 | cps |
| Magnesium | 24-2 | 26628333 | 26346391 | 26384636 | 26453120 | 0.58 | cps |
| Manganese | 55-2 | 140603 | 140454 | 139590 | 140216 | 0.39 | cps |
| Molybdenum | 94-1 | 37070 | 37224 | 36743 | 37012 | 0.66 | cps |
| Molybdenum | 95-1 | 62349 | 62493 | 62814 | 62552 | 0.38 | cps |
| Molybdenum | 96-1 | 67344 | 66577 | 66825 | 66915 | 0.58 | cps |
| Molybdenum | 97-1 | 39440 | 39142 | 39594 | 39392 | 0.58 | cps |
| Molybdenum | 98-1 | 100248 | 100271 | 100536 | 100351 | 0.16 | cps |
| Neodymium | 150-1 | 73 | 93 | 113 | 93 | 21.43 | cps |
| Neodymium | 150-2 | 47 | 60 | 43 | 50 | 17.64 | cps |
| Nickel | 60-2 | 3887 | 3791 | 3927 | 3868 | 1.82 | cps |
| Phosphorus | 31-2 | 1387 | 1427 | 1453 | 1422 | 2.36 | cps |
| Potassium | 39-2 | 4252770 | 4215181 | 4217624 | 4228525 | 0.50 | cps |
| Rhodium | 103-1 | 25882998 | 25804220 | 25874681 | 25853967 | 0.17 | cps |
| Rhodium | 103-2 | 15035661 | 15249412 | 15461514 | 15248862 | 1.40 | cps |
| Scandium | 45-1 | 15223744 | 14988841 | 15152819 | 15121802 | 0.80 | cps |
| Scandium | 45-2 | 1301818 | 1309986 | 1353180 | 1321661 | 2.09 | cps |
| Selenium | 82-1 | 425 | 464 | 416 | 435 | 5.91 | cps |
| Selenium | 77-2 | 7 | 0 | 0 | 2 | 173.21 | cps |
| Selenium | 78-2 | 413 | 473 | 487 | 458 | 8.53 | cps |
| Silicon | 28-1 | 50248066 | 50540824 | 50147846 | 50312245 | 0.41 | cps |
| Silver | 107-1 | 247 | 270 | 257 | 258 | 4.54 | cps |
| Silver | 109-1 | 150 | 130 | 133 | 138 | 7.78 | cps |
| Sodium | 23-2 | 20001518 | 19786780 | 19870858 | 19886386 | 0.54 | cps |
| Strontium | 86-1 | 18931040 | 19047794 | 18729506 | 18902780 | 0.85 | cps |
| Strontium | 88-1 | 165359514 | 167151451 | 163303724 | 165271563 | 1.16 | cps |
| Sulfur | 34-1 | 1752262 | 1747588 | 1742726 | 1747525 | 0.27 | cps |
| Terbium | 159-1 | 34318176 | 34034927 | 33861350 | 34071484 | 0.68 | cps |
| Terbium | 159-2 | 21859713 | 22239610 | 22665886 | 22255069 | 1.81 | cps |
| Thallium | 203-1 | 897 | 703 | 733 | 778 | 13.38 | cps |
| Thallium | 205-1 | 1930 | 2180 | 1663 | 1925 | 13.43 | cps |
| Tin | 118-1 | 4794 | 5141 | 4664 | 4867 | 5.07 | cps |
| Titanium | 47-1 | 817 | 1177 | 1027 | 1007 | 17.97 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-03 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z6 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:02:40 | DataFile Name : | 050SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 60805 | 61011 | 59000 | 60272 | 1.84 | cps |
| Vanadium | 51-2 | 1563 | 1643 | 1697 | 1635 | 4.11 | cps |
| Yttrium | 89-1 | 37834379 | 37001791 | 36999314 | 37278495 | 1.29 | cps |
| Yttrium | 89-2 | 9330727 | 9315941 | 9586782 | 9411150 | 1.62 | cps |
| Zinc | 66-2 | 10027 | 9677 | 9593 | 9765 | 2.36 | cps |
| Zirconium | 90-1 | 3124 | 3164 | 3227 | 3171 | 1.64 | cps |
| Zirconium | 91-1 | 610 | 583 | 743 | 646 | 13.28 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-04 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z8 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:05:48 | DataFile Name : | 051SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1587 | 1427 | 1500 | 1505 | 5.32 | cps |
| Antimony | 121-1 | 1600 | 1777 | 1767 | 1715 | 5.79 | cps |
| Arsenic | 75-2 | 1933 | 1753 | 1827 | 1838 | 4.93 | cps |
| Barium | 135-1 | 516460 | 515059 | 517182 | 516234 | 0.21 | cps |
| Barium | 137-1 | 895258 | 898021 | 886307 | 893195 | 0.69 | cps |
| Beryllium | 9-1 | 94 | 100 | 94 | 96 | 3.33 | cps |
| Bismuth | 209-1 | 19552916 | 19444214 | 19462008 | 19486379 | 0.30 | cps |
| Bismuth | 209-2 | 15500195 | 15371784 | 15239670 | 15370550 | 0.85 | cps |
| Bromine | 81-1 | 30789 | 33495 | 33929 | 32737 | 5.20 | cps |
| Bromine | 81-2 | 3764 | 3841 | 3821 | 3808 | 1.04 | cps |
| Cadmium | 108-1 | 33 | 37 | 37 | 36 | 5.42 | cps |
| Cadmium | 106-1 | 10681 | 10127 | 10114 | 10307 | 3.14 | cps |
| Cadmium | 111-1 | 7533 | 7133 | 7121 | 7262 | 3.23 | cps |
| Calcium | 43-1 | 4694867 | 4682845 | 4652466 | 4676726 | 0.47 | cps |
| Calcium | 44-1 | 75111491 | 74376762 | 74396172 | 74628142 | 0.56 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 6868 | 6635 | 6992 | 6832 | 2.65 | cps |
| Cobalt | 59-2 | 1930 | 1917 | 1920 | 1922 | 0.36 | cps |
| Copper | 63-2 | 16890 | 17006 | 17223 | 17040 | 0.99 | cps |
| Dysprosium | 156-1 | 343 | 297 | 333 | 324 | 7.57 | cps |
| Dysprosium | 156-2 | 233 | 233 | 267 | 244 | 7.87 | cps |
| Erbium | 164-1 | 190 | 207 | 183 | 193 | 6.22 | cps |
| Erbium | 164-2 | 117 | 117 | 140 | 124 | 10.82 | cps |
| Gadolinium | 160-1 | 510 | 453 | 473 | 479 | 6.00 | cps |
| Gadolinium | 160-2 | 1590 | 1533 | 1467 | 1530 | 4.03 | cps |
| Holmium | 165-1 | 33600005 | 32880664 | 33359239 | 33279969 | 1.10 | cps |
| Holmium | 165-2 | 22408690 | 22511420 | 22379905 | 22433338 | 0.31 | cps |
| Indium | 115-1 | 28415628 | 27865531 | 27299293 | 27860151 | 2.00 | cps |
| Indium | 115-2 | 9536818 | 9575394 | 9545085 | 9552432 | 0.21 | cps |
| Iron | 56-2 | 186532 | 184618 | 184376 | 185176 | 0.64 | cps |
| Iron | 57-2 | 90802 | 91600 | 90829 | 91077 | 0.50 | cps |
| Iron | 54-2 | 12599 | 12552 | 12462 | 12538 | 0.55 | cps |
| Krypton | 83-1 | 303 | 203 | 323 | 277 | 23.24 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-04 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z8 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:05:48 | DataFile Name : | 051SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 4661 | 4654 | 4721 | 4679 | 0.79 | cps |
| Lead | 207-1 | 3744 | 3951 | 3697 | 3797 | 3.55 | cps |
| Lead | 208-1 | 17992 | 18245 | 18125 | 18120 | 0.70 | cps |
| Lithium | 6-1 | 3273343 | 3275053 | 3320096 | 3289498 | 0.81 | cps |
| Magnesium | 24-2 | 26650560 | 26906682 | 26637884 | 26731709 | 0.57 | cps |
| Manganese | 55-2 | 83721 | 83644 | 83728 | 83698 | 0.06 | cps |
| Molybdenum | 94-1 | 37267 | 37314 | 36589 | 37057 | 1.10 | cps |
| Molybdenum | 95-1 | 63711 | 63309 | 63018 | 63346 | 0.55 | cps |
| Molybdenum | 96-1 | 67371 | 67689 | 67203 | 67421 | 0.37 | cps |
| Molybdenum | 97-1 | 39132 | 39457 | 39279 | 39289 | 0.41 | cps |
| Molybdenum | 98-1 | 101429 | 101382 | 102100 | 101637 | 0.40 | cps |
| Neodymium | 150-1 | 123 | 103 | 107 | 111 | 9.65 | cps |
| Neodymium | 150-2 | 50 | 23 | 40 | 38 | 35.67 | cps |
| Nickel | 60-2 | 4174 | 4081 | 4277 | 4177 | 2.36 | cps |
| Phosphorus | 31-2 | 1357 | 1340 | 1337 | 1345 | 0.80 | cps |
| Potassium | 39-2 | 4181978 | 4132093 | 4108109 | 4140727 | 0.91 | cps |
| Rhodium | 103-1 | 26028639 | 25379123 | 25287116 | 25564959 | 1.58 | cps |
| Rhodium | 103-2 | 15100683 | 14986114 | 15008976 | 15031924 | 0.40 | cps |
| Scandium | 45-1 | 15193964 | 15006948 | 15017234 | 15072715 | 0.70 | cps |
| Scandium | 45-2 | 1342068 | 1319619 | 1285468 | 1315718 | 2.17 | cps |
| Selenium | 82-1 | 423 | 537 | 405 | 455 | 15.80 | cps |
| Selenium | 77-2 | 7 | 7 | 0 | 4 | 86.60 | cps |
| Selenium | 78-2 | 427 | 473 | 497 | 466 | 7.66 | cps |
| Silicon | 28-1 | 50775159 | 51214828 | 50634498 | 50874828 | 0.60 | cps |
| Silver | 107-1 | 233 | 213 | 230 | 226 | 4.75 | cps |
| Silver | 109-1 | 97 | 130 | 97 | 108 | 17.85 | cps |
| Sodium | 23-2 | 20781114 | 20472104 | 20397574 | 20550264 | 0.99 | cps |
| Strontium | 86-1 | 19277729 | 19473795 | 19211636 | 19321053 | 0.71 | cps |
| Strontium | 88-1 | 168097898 | 169291721 | 166978681 | 168122766 | 0.69 | cps |
| Sulfur | 34-1 | 1765693 | 1739844 | 1712452 | 1739330 | 1.53 | cps |
| Terbium | 159-1 | 34402581 | 34028992 | 33959984 | 34130519 | 0.70 | cps |
| Terbium | 159-2 | 22273652 | 22225996 | 22122855 | 22207501 | 0.35 | cps |
| Thallium | 203-1 | 723 | 750 | 780 | 751 | 3.77 | cps |
| Thallium | 205-1 | 1730 | 1690 | 1783 | 1735 | 2.70 | cps |
| Tin | 118-1 | 6175 | 6175 | 6145 | 6165 | 0.28 | cps |
| Titanium | 47-1 | 943 | 963 | 840 | 916 | 7.23 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-04 | Instrumnet Name : | P7 |
| Client Sample ID : | E29Z8 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:05:48 | DataFile Name : | 051SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 59820 | 59589 | 59861 | 59757 | 0.25 | cps |
| Vanadium | 51-2 | 1863 | 1847 | 1760 | 1823 | 3.04 | cps |
| Yttrium | 89-1 | 37664713 | 37533331 | 37093798 | 37430614 | 0.80 | cps |
| Yttrium | 89-2 | 9268078 | 9433723 | 9404020 | 9368607 | 0.94 | cps |
| Zinc | 66-2 | 9687 | 9563 | 9486 | 9579 | 1.05 | cps |
| Zirconium | 90-1 | 3310 | 3370 | 3440 | 3374 | 1.93 | cps |
| Zirconium | 91-1 | 720 | 653 | 640 | 671 | 6.39 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-05 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A14 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:08:57 | DataFile Name : | 052SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1073 | 1147 | 1250 | 1157 | 7.67 | cps |
| Antimony | 121-1 | 1580 | 1643 | 1757 | 1660 | 5.39 | cps |
| Arsenic | 75-2 | 1777 | 1853 | 1787 | 1806 | 2.31 | cps |
| Barium | 135-1 | 521899 | 517196 | 516886 | 518660 | 0.54 | cps |
| Barium | 137-1 | 904208 | 889076 | 893634 | 895639 | 0.87 | cps |
| Beryllium | 9-1 | 78 | 67 | 78 | 74 | 8.66 | cps |
| Bismuth | 209-1 | 19665800 | 19643094 | 19367293 | 19558729 | 0.85 | cps |
| Bismuth | 209-2 | 15371056 | 15108991 | 15258463 | 15246170 | 0.86 | cps |
| Bromine | 81-1 | 30144 | 32112 | 33344 | 31867 | 5.06 | cps |
| Bromine | 81-2 | 3607 | 3751 | 3570 | 3643 | 2.61 | cps |
| Cadmium | 108-1 | 60 | 43 | 33 | 46 | 29.58 | cps |
| Cadmium | 106-1 | 9927 | 10471 | 9960 | 10119 | 3.01 | cps |
| Cadmium | 111-1 | 6980 | 7392 | 7042 | 7138 | 3.11 | cps |
| Calcium | 43-1 | 4721384 | 4649724 | 4683588 | 4684899 | 0.77 | cps |
| Calcium | 44-1 | 75262494 | 74238501 | 73974662 | 74491886 | 0.91 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 11708 | 11815 | 11448 | 11657 | 1.62 | cps |
| Cobalt | 59-2 | 2347 | 2164 | 2434 | 2315 | 5.96 | cps |
| Copper | 63-2 | 16519 | 16820 | 16659 | 16666 | 0.90 | cps |
| Dysprosium | 156-1 | 383 | 353 | 330 | 356 | 7.52 | cps |
| Dysprosium | 156-2 | 343 | 297 | 240 | 293 | 17.64 | cps |
| Erbium | 164-1 | 160 | 240 | 180 | 193 | 21.53 | cps |
| Erbium | 164-2 | 153 | 110 | 137 | 133 | 16.40 | cps |
| Gadolinium | 160-1 | 467 | 463 | 453 | 461 | 1.50 | cps |
| Gadolinium | 160-2 | 1487 | 1527 | 1453 | 1489 | 2.47 | cps |
| Holmium | 165-1 | 33057398 | 32731741 | 33007014 | 32932051 | 0.53 | cps |
| Holmium | 165-2 | 22733924 | 22478421 | 22459455 | 22557267 | 0.68 | cps |
| Indium | 115-1 | 27661831 | 27532732 | 27336119 | 27510228 | 0.60 | cps |
| Indium | 115-2 | 9619149 | 9533961 | 9509100 | 9554070 | 0.60 | cps |
| Iron | 56-2 | 194011 | 191142 | 192310 | 192488 | 0.75 | cps |
| Iron | 57-2 | 89384 | 91084 | 91916 | 90794 | 1.42 | cps |
| Iron | 54-2 | 12532 | 12759 | 12799 | 12697 | 1.13 | cps |
| Krypton | 83-1 | 273 | 270 | 227 | 257 | 10.14 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-05 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A14 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:08:57 | DataFile Name : | 052SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 3661 | 3717 | 3644 | 3674 | 1.05 | cps |
| Lead | 207-1 | 2804 | 3090 | 3217 | 3037 | 6.97 | cps |
| Lead | 208-1 | 14357 | 14106 | 14527 | 14330 | 1.48 | cps |
| Lithium | 6-1 | 3326156 | 3245238 | 3226581 | 3265992 | 1.62 | cps |
| Magnesium | 24-2 | 26583945 | 26766503 | 26659865 | 26670104 | 0.34 | cps |
| Manganese | 55-2 | 76175 | 76697 | 76553 | 76475 | 0.35 | cps |
| Molybdenum | 94-1 | 37114 | 36973 | 36676 | 36921 | 0.61 | cps |
| Molybdenum | 95-1 | 62904 | 62700 | 63550 | 63052 | 0.70 | cps |
| Molybdenum | 96-1 | 68489 | 68088 | 67984 | 68187 | 0.39 | cps |
| Molybdenum | 97-1 | 39513 | 40215 | 39583 | 39771 | 0.97 | cps |
| Molybdenum | 98-1 | 103241 | 102694 | 102661 | 102865 | 0.32 | cps |
| Neodymium | 150-1 | 97 | 103 | 87 | 96 | 8.78 | cps |
| Neodymium | 150-2 | 17 | 43 | 33 | 31 | 43.29 | cps |
| Nickel | 60-2 | 9303 | 9380 | 9737 | 9473 | 2.44 | cps |
| Phosphorus | 31-2 | 1517 | 1440 | 1420 | 1459 | 3.50 | cps |
| Potassium | 39-2 | 4273272 | 4304571 | 4343834 | 4307226 | 0.82 | cps |
| Rhodium | 103-1 | 25785833 | 25725233 | 25424845 | 25645304 | 0.75 | cps |
| Rhodium | 103-2 | 15082717 | 15031678 | 14987097 | 15033831 | 0.32 | cps |
| Scandium | 45-1 | 14899895 | 14760119 | 14662679 | 14774231 | 0.81 | cps |
| Scandium | 45-2 | 1288171 | 1304631 | 1305148 | 1299316 | 0.74 | cps |
| Selenium | 82-1 | 561 | 495 | 457 | 505 | 10.42 | cps |
| Selenium | 77-2 | 0 | 3 | 7 | 3 | 100.05 | cps |
| Selenium | 78-2 | 393 | 547 | 450 | 463 | 16.73 | cps |
| Silicon | 28-1 | 50579638 | 50328568 | 50224618 | 50377608 | 0.36 | cps |
| Silver | 107-1 | 247 | 287 | 230 | 254 | 11.45 | cps |
| Silver | 109-1 | 113 | 93 | 87 | 98 | 14.19 | cps |
| Sodium | 23-2 | 20313240 | 20049003 | 20189600 | 20183948 | 0.66 | cps |
| Strontium | 86-1 | 19202946 | 19105282 | 19256090 | 19188106 | 0.40 | cps |
| Strontium | 88-1 | 167094754 | 168812281 | 167065031 | 167657355 | 0.60 | cps |
| Sulfur | 34-1 | 1744270 | 1710446 | 1742763 | 1732493 | 1.10 | cps |
| Terbium | 159-1 | 34045744 | 33789005 | 33667330 | 33834026 | 0.57 | cps |
| Terbium | 159-2 | 22176481 | 21948116 | 21899916 | 22008171 | 0.67 | cps |
| Thallium | 203-1 | 720 | 690 | 647 | 686 | 5.38 | cps |
| Thallium | 205-1 | 1737 | 1527 | 1577 | 1613 | 6.80 | cps |
| Tin | 118-1 | 5558 | 5461 | 5611 | 5543 | 1.37 | cps |
| Titanium | 47-1 | 893 | 880 | 860 | 878 | 1.91 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-05 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A14 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:08:57 | DataFile Name : | 052SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 59697 | 57768 | 59335 | 58933 | 1.74 | cps |
| Vanadium | 51-2 | 1653 | 1697 | 1640 | 1663 | 1.78 | cps |
| Yttrium | 89-1 | 37078016 | 37122491 | 36517968 | 36906158 | 0.91 | cps |
| Yttrium | 89-2 | 9342367 | 9372150 | 9315028 | 9343182 | 0.31 | cps |
| Zinc | 66-2 | 17881 | 17911 | 17584 | 17792 | 1.02 | cps |
| Zirconium | 90-1 | 3004 | 3064 | 3197 | 3088 | 3.21 | cps |
| Zirconium | 91-1 | 780 | 727 | 660 | 722 | 8.33 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-06 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A00 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:12:06 | DataFile Name : | 053SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1537 | 1570 | 1460 | 1522 | 3.71 | cps |
| Antimony | 121-1 | 1603 | 1737 | 1837 | 1726 | 6.78 | cps |
| Arsenic | 75-2 | 1900 | 1880 | 2017 | 1932 | 3.82 | cps |
| Barium | 135-1 | 533128 | 537135 | 536474 | 535579 | 0.40 | cps |
| Barium | 137-1 | 916380 | 935008 | 933158 | 928182 | 1.11 | cps |
| Beryllium | 9-1 | 61 | 44 | 56 | 54 | 15.80 | cps |
| Bismuth | 209-1 | 20334531 | 20101561 | 19813378 | 20083157 | 1.30 | cps |
| Bismuth | 209-2 | 15557303 | 15478946 | 15368246 | 15468165 | 0.61 | cps |
| Bromine | 81-1 | 30632 | 34353 | 36689 | 33891 | 9.01 | cps |
| Bromine | 81-2 | 4367 | 4137 | 4397 | 4301 | 3.31 | cps |
| Cadmium | 108-1 | 50 | 20 | 33 | 34 | 43.64 | cps |
| Cadmium | 106-1 | 11118 | 10481 | 10384 | 10661 | 3.74 | cps |
| Cadmium | 111-1 | 7827 | 7396 | 7329 | 7517 | 3.60 | cps |
| Calcium | 43-1 | 4791841 | 4717507 | 4808092 | 4772480 | 1.01 | cps |
| Calcium | 44-1 | 75791549 | 76256047 | 77383102 | 76476899 | 1.07 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 5574 | 5731 | 5658 | 5654 | 1.39 | cps |
| Cobalt | 59-2 | 1803 | 1947 | 1897 | 1882 | 3.87 | cps |
| Copper | 63-2 | 12989 | 12899 | 13049 | 12979 | 0.58 | cps |
| Dysprosium | 156-1 | 310 | 327 | 303 | 313 | 3.83 | cps |
| Dysprosium | 156-2 | 277 | 197 | 240 | 238 | 16.84 | cps |
| Erbium | 164-1 | 130 | 197 | 153 | 160 | 21.14 | cps |
| Erbium | 164-2 | 117 | 107 | 123 | 116 | 7.26 | cps |
| Gadolinium | 160-1 | 427 | 470 | 407 | 434 | 7.45 | cps |
| Gadolinium | 160-2 | 1483 | 1570 | 1437 | 1497 | 4.52 | cps |
| Holmium | 165-1 | 34394589 | 34068746 | 33323990 | 33929108 | 1.62 | cps |
| Holmium | 165-2 | 22753559 | 22738536 | 22680681 | 22724259 | 0.17 | cps |
| Indium | 115-1 | 28921737 | 28246662 | 27670995 | 28279798 | 2.21 | cps |
| Indium | 115-2 | 9910460 | 9715865 | 9836994 | 9821106 | 1.00 | cps |
| Iron | 56-2 | 209333 | 210597 | 210891 | 210274 | 0.39 | cps |
| Iron | 57-2 | 92248 | 94324 | 95397 | 93989 | 1.70 | cps |
| Iron | 54-2 | 13726 | 13873 | 13519 | 13706 | 1.30 | cps |
| Krypton | 83-1 | 297 | 253 | 220 | 257 | 14.98 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-06 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A00 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:12:06 | DataFile Name : | 053SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 3344 | 3310 | 3467 | 3374 | 2.45 | cps |
| Lead | 207-1 | 2657 | 2607 | 2674 | 2646 | 1.31 | cps |
| Lead | 208-1 | 12819 | 12676 | 13023 | 12839 | 1.36 | cps |
| Lithium | 6-1 | 3420645 | 3314652 | 3294057 | 3343118 | 2.03 | cps |
| Magnesium | 24-2 | 27620716 | 27853480 | 27432135 | 27635444 | 0.76 | cps |
| Manganese | 55-2 | 39956 | 39228 | 39796 | 39660 | 0.97 | cps |
| Molybdenum | 94-1 | 37532 | 38243 | 38267 | 38014 | 1.10 | cps |
| Molybdenum | 95-1 | 65232 | 64719 | 65539 | 65163 | 0.64 | cps |
| Molybdenum | 96-1 | 69602 | 70060 | 69628 | 69763 | 0.37 | cps |
| Molybdenum | 97-1 | 39995 | 40128 | 40239 | 40121 | 0.30 | cps |
| Molybdenum | 98-1 | 105001 | 104796 | 104369 | 104722 | 0.31 | cps |
| Neodymium | 150-1 | 100 | 80 | 60 | 80 | 25.00 | cps |
| Neodymium | 150-2 | 27 | 23 | 47 | 32 | 39.17 | cps |
| Nickel | 60-2 | 3907 | 4031 | 3921 | 3953 | 1.71 | cps |
| Phosphorus | 31-2 | 1190 | 1183 | 1077 | 1150 | 5.53 | cps |
| Potassium | 39-2 | 4233105 | 4262960 | 4187174 | 4227746 | 0.90 | cps |
| Rhodium | 103-1 | 26635344 | 26542830 | 25766165 | 26314780 | 1.81 | cps |
| Rhodium | 103-2 | 15541396 | 15206041 | 15326206 | 15357881 | 1.11 | cps |
| Scandium | 45-1 | 15442867 | 15274601 | 15148671 | 15288713 | 0.97 | cps |
| Scandium | 45-2 | 1346927 | 1341769 | 1345234 | 1344643 | 0.20 | cps |
| Selenium | 82-1 | 563 | 608 | 585 | 585 | 3.91 | cps |
| Selenium | 77-2 | 3 | 0 | 3 | 2 | 86.60 | cps |
| Selenium | 78-2 | 543 | 470 | 530 | 514 | 7.59 | cps |
| Silicon | 28-1 | 50680278 | 51734588 | 51441829 | 51285565 | 1.06 | cps |
| Silver | 107-1 | 263 | 250 | 200 | 238 | 14.04 | cps |
| Silver | 109-1 | 130 | 103 | 100 | 111 | 14.80 | cps |
| Sodium | 23-2 | 21014155 | 20971237 | 21014801 | 21000064 | 0.12 | cps |
| Strontium | 86-1 | 19922879 | 20190423 | 19866716 | 19993339 | 0.87 | cps |
| Strontium | 88-1 | 172671737 | 174063317 | 173484244 | 173406433 | 0.40 | cps |
| Sulfur | 34-1 | 1714843 | 1732290 | 1707456 | 1718196 | 0.74 | cps |
| Terbium | 159-1 | 35402359 | 34632654 | 33970674 | 34668563 | 2.07 | cps |
| Terbium | 159-2 | 22660365 | 22453818 | 22388719 | 22500967 | 0.63 | cps |
| Thallium | 203-1 | 763 | 680 | 643 | 696 | 8.84 | cps |
| Thallium | 205-1 | 1643 | 1553 | 1403 | 1533 | 7.91 | cps |
| Tin | 118-1 | 5448 | 5401 | 5348 | 5399 | 0.93 | cps |
| Titanium | 47-1 | 753 | 913 | 867 | 844 | 9.74 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-06 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A00 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:12:06 | DataFile Name : | 053SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 61224 | 61716 | 61836 | 61592 | 0.53 | cps |
| Vanadium | 51-2 | 1590 | 1667 | 1707 | 1655 | 3.58 | cps |
| Yttrium | 89-1 | 38613960 | 37780229 | 37254926 | 37883038 | 1.81 | cps |
| Yttrium | 89-2 | 9589277 | 9499126 | 9527590 | 9538664 | 0.48 | cps |
| Zinc | 66-2 | 7475 | 7112 | 7405 | 7331 | 2.63 | cps |
| Zirconium | 90-1 | 3537 | 3267 | 3077 | 3294 | 7.02 | cps |
| Zirconium | 91-1 | 683 | 677 | 640 | 667 | 3.50 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

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|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-07 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:15:16 | DataFile Name : | 054SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1290 | 1147 | 1160 | 1199 | 6.61 | cps |
| Antimony | 121-1 | 1837 | 1657 | 1817 | 1770 | 5.57 | cps |
| Arsenic | 75-2 | 1830 | 1783 | 1970 | 1861 | 5.22 | cps |
| Barium | 135-1 | 556692 | 558515 | 558911 | 558039 | 0.21 | cps |
| Barium | 137-1 | 971251 | 964723 | 964502 | 966826 | 0.40 | cps |
| Beryllium | 9-1 | 56 | 61 | 83 | 67 | 22.05 | cps |
| Bismuth | 209-1 | 19776561 | 19802222 | 19777539 | 19785441 | 0.07 | cps |
| Bismuth | 209-2 | 15615722 | 15649625 | 15444335 | 15569894 | 0.71 | cps |
| Bromine | 81-1 | 32489 | 35336 | 35650 | 34491 | 5.05 | cps |
| Bromine | 81-2 | 3941 | 3921 | 4194 | 4018 | 3.79 | cps |
| Cadmium | 108-1 | 60 | 37 | 50 | 49 | 23.94 | cps |
| Cadmium | 106-1 | 10564 | 10704 | 10294 | 10521 | 1.98 | cps |
| Cadmium | 111-1 | 7433 | 7554 | 7224 | 7404 | 2.25 | cps |
| Calcium | 43-1 | 4935675 | 4885276 | 4768365 | 4863105 | 1.76 | cps |
| Calcium | 44-1 | 77812387 | 77416044 | 76418737 | 77215723 | 0.93 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 7462 | 7288 | 6875 | 7208 | 4.18 | cps |
| Cobalt | 59-2 | 1990 | 2087 | 2047 | 2041 | 2.38 | cps |
| Copper | 63-2 | 18588 | 19066 | 18648 | 18767 | 1.39 | cps |
| Dysprosium | 156-1 | 237 | 317 | 330 | 294 | 17.14 | cps |
| Dysprosium | 156-2 | 163 | 220 | 203 | 196 | 14.89 | cps |
| Erbium | 164-1 | 197 | 163 | 217 | 192 | 14.02 | cps |
| Erbium | 164-2 | 140 | 147 | 150 | 146 | 3.50 | cps |
| Gadolinium | 160-1 | 337 | 357 | 403 | 366 | 9.36 | cps |
| Gadolinium | 160-2 | 1413 | 1540 | 1547 | 1500 | 5.01 | cps |
| Holmium | 165-1 | 33340237 | 33262533 | 33295969 | 33299580 | 0.12 | cps |
| Holmium | 165-2 | 22773918 | 22947334 | 22649170 | 22790140 | 0.66 | cps |
| Indium | 115-1 | 27767913 | 27987513 | 27718043 | 27824490 | 0.52 | cps |
| Indium | 115-2 | 9728463 | 9788617 | 9686782 | 9734621 | 0.53 | cps |
| Iron | 56-2 | 193850 | 194848 | 191753 | 193483 | 0.82 | cps |
| Iron | 57-2 | 92264 | 93965 | 93961 | 93397 | 1.05 | cps |
| Iron | 54-2 | 13213 | 12976 | 12585 | 12925 | 2.45 | cps |
| Krypton | 83-1 | 210 | 287 | 257 | 251 | 15.39 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-07 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:15:16 | DataFile Name : | 054SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 4567 | 4644 | 4748 | 4653 | 1.94 | cps |
| Lead | 207-1 | 3934 | 3897 | 3817 | 3883 | 1.54 | cps |
| Lead | 208-1 | 18048 | 18042 | 18162 | 18084 | 0.37 | cps |
| Lithium | 6-1 | 3276763 | 3292142 | 3279999 | 3282968 | 0.25 | cps |
| Magnesium | 24-2 | 27272890 | 27072361 | 26701089 | 27015447 | 1.07 | cps |
| Manganese | 55-2 | 26684 | 26527 | 25839 | 26350 | 1.71 | cps |
| Molybdenum | 94-1 | 39523 | 40365 | 39209 | 39699 | 1.51 | cps |
| Molybdenum | 95-1 | 67575 | 69273 | 67629 | 68159 | 1.42 | cps |
| Molybdenum | 96-1 | 73952 | 73389 | 72894 | 73412 | 0.72 | cps |
| Molybdenum | 97-1 | 42445 | 42809 | 42756 | 42670 | 0.46 | cps |
| Molybdenum | 98-1 | 110642 | 110565 | 109611 | 110272 | 0.52 | cps |
| Neodymium | 150-1 | 80 | 120 | 123 | 108 | 22.37 | cps |
| Neodymium | 150-2 | 33 | 30 | 37 | 33 | 10.01 | cps |
| Nickel | 60-2 | 4184 | 4164 | 4171 | 4173 | 0.24 | cps |
| Phosphorus | 31-2 | 1017 | 1170 | 1217 | 1135 | 9.22 | cps |
| Potassium | 39-2 | 4325451 | 4285810 | 4350812 | 4320691 | 0.76 | cps |
| Rhodium | 103-1 | 25970302 | 25691985 | 26037727 | 25900005 | 0.71 | cps |
| Rhodium | 103-2 | 15432459 | 15455338 | 15227726 | 15371841 | 0.82 | cps |
| Scandium | 45-1 | 14938363 | 14873044 | 15010760 | 14940722 | 0.46 | cps |
| Scandium | 45-2 | 1366016 | 1342038 | 1327079 | 1345044 | 1.46 | cps |
| Selenium | 82-1 | 670 | 512 | 563 | 582 | 13.87 | cps |
| Selenium | 77-2 | 3 | 7 | 0 | 3 | 100.05 | cps |
| Selenium | 78-2 | 457 | 493 | 500 | 483 | 4.83 | cps |
| Silicon | 28-1 | 53362266 | 52935254 | 52777269 | 53024930 | 0.57 | cps |
| Silver | 107-1 | 190 | 210 | 287 | 229 | 22.29 | cps |
| Silver | 109-1 | 113 | 123 | 87 | 108 | 17.58 | cps |
| Sodium | 23-2 | 21381727 | 21311651 | 21033887 | 21242422 | 0.87 | cps |
| Strontium | 86-1 | 20849127 | 21067924 | 20725697 | 20880916 | 0.83 | cps |
| Strontium | 88-1 | 183066224 | 184758531 | 183076184 | 183633646 | 0.53 | cps |
| Sulfur | 34-1 | 1855184 | 1833358 | 1817281 | 1835274 | 1.04 | cps |
| Terbium | 159-1 | 33888182 | 33878555 | 34006181 | 33924306 | 0.21 | cps |
| Terbium | 159-2 | 22734121 | 22692455 | 22578985 | 22668520 | 0.35 | cps |
| Thallium | 203-1 | 647 | 517 | 613 | 592 | 11.40 | cps |
| Thallium | 205-1 | 1503 | 1633 | 1543 | 1560 | 4.27 | cps |
| Tin | 118-1 | 4521 | 4747 | 4584 | 4617 | 2.53 | cps |
| Titanium | 47-1 | 817 | 847 | 870 | 844 | 3.17 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-07 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A02 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:15:16 | DataFile Name : | 054SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 62724 | 63410 | 62305 | 62813 | 0.89 | cps |
| Vanadium | 51-2 | 1660 | 1547 | 1613 | 1607 | 3.55 | cps |
| Yttrium | 89-1 | 37545754 | 37127203 | 37255028 | 37309328 | 0.57 | cps |
| Yttrium | 89-2 | 9723752 | 9452812 | 9533801 | 9570122 | 1.45 | cps |
| Zinc | 66-2 | 8509 | 8486 | 8613 | 8536 | 0.79 | cps |
| Zirconium | 90-1 | 3070 | 3244 | 3317 | 3210 | 3.95 | cps |
| Zirconium | 91-1 | 687 | 693 | 643 | 674 | 4.03 | cps |

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On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-08 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A02D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:18:24 | DataFile Name : | 055SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1377 | 1367 | 1287 | 1343 | 3.67 | cps |
| Antimony | 121-1 | 1737 | 1687 | 1713 | 1712 | 1.46 | cps |
| Arsenic | 75-2 | 1773 | 1897 | 1843 | 1838 | 3.37 | cps |
| Barium | 135-1 | 561645 | 558016 | 556815 | 558825 | 0.45 | cps |
| Barium | 137-1 | 970656 | 975619 | 973476 | 973250 | 0.26 | cps |
| Beryllium | 9-1 | 28 | 61 | 78 | 56 | 45.82 | cps |
| Bismuth | 209-1 | 20022413 | 19600762 | 19709255 | 19777477 | 1.11 | cps |
| Bismuth | 209-2 | 15365708 | 15363106 | 15512203 | 15413672 | 0.55 | cps |
| Bromine | 81-1 | 33224 | 35700 | 36736 | 35220 | 5.12 | cps |
| Bromine | 81-2 | 4097 | 4147 | 4194 | 4146 | 1.17 | cps |
| Cadmium | 108-1 | 53 | 63 | 57 | 58 | 8.81 | cps |
| Cadmium | 106-1 | 11021 | 10344 | 10037 | 10467 | 4.81 | cps |
| Cadmium | 111-1 | 7784 | 7286 | 7053 | 7374 | 5.06 | cps |
| Calcium | 43-1 | 4901121 | 4953370 | 4885006 | 4913166 | 0.73 | cps |
| Calcium | 44-1 | 78275862 | 78169069 | 78481257 | 78308729 | 0.20 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 8589 | 8780 | 8249 | 8539 | 3.15 | cps |
| Cobalt | 59-2 | 1930 | 2007 | 1983 | 1973 | 1.99 | cps |
| Copper | 63-2 | 11421 | 11555 | 11538 | 11505 | 0.63 | cps |
| Dysprosium | 156-1 | 270 | 247 | 290 | 269 | 8.07 | cps |
| Dysprosium | 156-2 | 223 | 243 | 190 | 219 | 12.31 | cps |
| Erbium | 164-1 | 173 | 193 | 203 | 190 | 8.04 | cps |
| Erbium | 164-2 | 110 | 143 | 127 | 127 | 13.16 | cps |
| Gadolinium | 160-1 | 390 | 383 | 407 | 393 | 3.06 | cps |
| Gadolinium | 160-2 | 1420 | 1450 | 1300 | 1390 | 5.71 | cps |
| Holmium | 165-1 | 33778661 | 33089137 | 32878678 | 33248825 | 1.42 | cps |
| Holmium | 165-2 | 22850761 | 22739795 | 22748487 | 22779681 | 0.27 | cps |
| Indium | 115-1 | 28302243 | 27709063 | 27645689 | 27885665 | 1.30 | cps |
| Indium | 115-2 | 9777581 | 9696817 | 9708050 | 9727483 | 0.45 | cps |
| Iron | 56-2 | 234109 | 229038 | 230412 | 231186 | 1.13 | cps |
| Iron | 57-2 | 93576 | 95122 | 95866 | 94855 | 1.23 | cps |
| Iron | 54-2 | 15468 | 15521 | 15298 | 15429 | 0.76 | cps |
| Krypton | 83-1 | 270 | 303 | 307 | 293 | 6.91 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-08 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A02D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:18:24 | DataFile Name : | 055SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2974 | 3127 | 3064 | 3055 | 2.52 | cps |
| Lead | 207-1 | 2397 | 2687 | 2477 | 2520 | 5.94 | cps |
| Lead | 208-1 | 11529 | 12152 | 12152 | 11944 | 3.01 | cps |
| Lithium | 6-1 | 3354294 | 3267197 | 3162394 | 3261295 | 2.95 | cps |
| Magnesium | 24-2 | 27402776 | 27173550 | 27372587 | 27316305 | 0.46 | cps |
| Manganese | 55-2 | 29673 | 30274 | 30484 | 30144 | 1.40 | cps |
| Molybdenum | 94-1 | 39787 | 40252 | 39898 | 39979 | 0.61 | cps |
| Molybdenum | 95-1 | 69970 | 69038 | 68747 | 69252 | 0.92 | cps |
| Molybdenum | 96-1 | 73758 | 74991 | 74307 | 74352 | 0.83 | cps |
| Molybdenum | 97-1 | 42943 | 44126 | 43615 | 43561 | 1.36 | cps |
| Molybdenum | 98-1 | 111525 | 112234 | 110678 | 111479 | 0.70 | cps |
| Neodymium | 150-1 | 97 | 83 | 113 | 98 | 15.38 | cps |
| Neodymium | 150-2 | 43 | 23 | 50 | 39 | 35.69 | cps |
| Nickel | 60-2 | 4781 | 4701 | 4784 | 4755 | 0.99 | cps |
| Phosphorus | 31-2 | 1010 | 1090 | 1073 | 1058 | 3.99 | cps |
| Potassium | 39-2 | 4381315 | 4268170 | 4351784 | 4333756 | 1.35 | cps |
| Rhodium | 103-1 | 26353642 | 26005462 | 25770183 | 26043096 | 1.13 | cps |
| Rhodium | 103-2 | 15281519 | 15256799 | 15330452 | 15289590 | 0.25 | cps |
| Scandium | 45-1 | 15272569 | 14957324 | 15098207 | 15109367 | 1.05 | cps |
| Scandium | 45-2 | 1323507 | 1329500 | 1335154 | 1329387 | 0.44 | cps |
| Selenium | 82-1 | 598 | 502 | 470 | 523 | 12.75 | cps |
| Selenium | 77-2 | 3 | 13 | 3 | 7 | 86.65 | cps |
| Selenium | 78-2 | 430 | 437 | 530 | 466 | 12.01 | cps |
| Silicon | 28-1 | 52954514 | 52774231 | 53097314 | 52942020 | 0.31 | cps |
| Silver | 107-1 | 243 | 277 | 190 | 237 | 18.47 | cps |
| Silver | 109-1 | 127 | 140 | 153 | 140 | 9.52 | cps |
| Sodium | 23-2 | 21735154 | 21289746 | 21601761 | 21542220 | 1.06 | cps |
| Strontium | 86-1 | 21074281 | 20937263 | 20999850 | 21003798 | 0.33 | cps |
| Strontium | 88-1 | 185386204 | 184978377 | 184708411 | 185024331 | 0.18 | cps |
| Sulfur | 34-1 | 1864075 | 1878916 | 1835668 | 1859553 | 1.18 | cps |
| Terbium | 159-1 | 34764563 | 34197910 | 34420382 | 34460952 | 0.83 | cps |
| Terbium | 159-2 | 22413072 | 22495878 | 22297726 | 22402225 | 0.44 | cps |
| Thallium | 203-1 | 737 | 607 | 647 | 663 | 10.04 | cps |
| Thallium | 205-1 | 1713 | 1637 | 1430 | 1593 | 9.20 | cps |
| Tin | 118-1 | 5241 | 5301 | 5011 | 5184 | 2.95 | cps |
| Titanium | 47-1 | 947 | 900 | 913 | 920 | 2.61 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-08 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A02D | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:18:24 | DataFile Name : | 055SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 63049 | 64566 | 63260 | 63625 | 1.29 | cps |
| Vanadium | 51-2 | 1667 | 1717 | 1600 | 1661 | 3.52 | cps |
| Yttrium | 89-1 | 37865404 | 37386452 | 37264952 | 37505602 | 0.85 | cps |
| Yttrium | 89-2 | 9486036 | 9603410 | 9525503 | 9538317 | 0.63 | cps |
| Zinc | 66-2 | 11418 | 11931 | 11645 | 11665 | 2.21 | cps |
| Zirconium | 90-1 | 2844 | 3204 | 3140 | 3063 | 6.28 | cps |
| Zirconium | 91-1 | 603 | 653 | 673 | 643 | 5.61 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-07LX5 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A02L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2024-11-22 16:21:34 | DataFile Name : | 056SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 887 | 930 | 987 | 934 | 5.37 | cps |
| Antimony | 121-1 | 330 | 417 | 477 | 408 | 18.08 | cps |
| Arsenic | 75-2 | 367 | 357 | 357 | 360 | 1.60 | cps |
| Barium | 135-1 | 102559 | 103523 | 103334 | 103139 | 0.50 | cps |
| Barium | 137-1 | 179524 | 181818 | 180334 | 180559 | 0.64 | cps |
| Beryllium | 9-1 | 44 | 50 | 61 | 52 | 16.36 | cps |
| Bismuth | 209-1 | 18673566 | 19144251 | 19417180 | 19078332 | 1.97 | cps |
| Bismuth | 209-2 | 15254759 | 15312304 | 15494742 | 15353935 | 0.82 | cps |
| Bromine | 81-1 | 21125 | 21275 | 21669 | 21357 | 1.32 | cps |
| Bromine | 81-2 | 1167 | 1200 | 1223 | 1197 | 2.38 | cps |
| Cadmium | 108-1 | 27 | 23 | 37 | 29 | 24.03 | cps |
| Cadmium | 106-1 | 10087 | 9937 | 9607 | 9877 | 2.49 | cps |
| Cadmium | 111-1 | 7079 | 6973 | 6776 | 6942 | 2.22 | cps |
| Calcium | 43-1 | 929912 | 938972 | 936675 | 935186 | 0.50 | cps |
| Calcium | 44-1 | 14241281 | 14405215 | 14617304 | 14421267 | 1.31 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 6361 | 6388 | 6548 | 6433 | 1.57 | cps |
| Cobalt | 59-2 | 503 | 537 | 470 | 503 | 6.62 | cps |
| Copper | 63-2 | 5815 | 5491 | 5554 | 5620 | 3.05 | cps |
| Dysprosium | 156-1 | 60 | 67 | 53 | 60 | 11.12 | cps |
| Dysprosium | 156-2 | 40 | 37 | 47 | 41 | 12.39 | cps |
| Erbium | 164-1 | 140 | 143 | 157 | 147 | 6.01 | cps |
| Erbium | 164-2 | 100 | 77 | 73 | 83 | 17.44 | cps |
| Gadolinium | 160-1 | 163 | 190 | 157 | 170 | 10.37 | cps |
| Gadolinium | 160-2 | 1257 | 1317 | 1180 | 1251 | 5.48 | cps |
| Holmium | 165-1 | 31476198 | 31839462 | 32220932 | 31845531 | 1.17 | cps |
| Holmium | 165-2 | 21898220 | 22106065 | 22114700 | 22039661 | 0.56 | cps |
| Indium | 115-1 | 26585348 | 26866727 | 26496470 | 26649515 | 0.73 | cps |
| Indium | 115-2 | 9549366 | 9384161 | 9564838 | 9499455 | 1.05 | cps |
| Iron | 56-2 | 70430 | 70459 | 69265 | 70052 | 0.97 | cps |
| Iron | 57-2 | 18685 | 19152 | 19800 | 19212 | 2.91 | cps |
| Iron | 54-2 | 6528 | 6908 | 6648 | 6695 | 2.90 | cps |
| Krypton | 83-1 | 223 | 277 | 283 | 261 | 12.59 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-07LX5 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A02L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2024-11-22 16:21:34 | DataFile Name : | 056SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2664 | 2704 | 2730 | 2699 | 1.24 | cps |
| Lead | 207-1 | 2250 | 2367 | 2320 | 2312 | 2.54 | cps |
| Lead | 208-1 | 10345 | 10515 | 10888 | 10583 | 2.63 | cps |
| Lithium | 6-1 | 3096920 | 3198551 | 3168584 | 3154685 | 1.66 | cps |
| Magnesium | 24-2 | 5135411 | 5108969 | 5155074 | 5133151 | 0.45 | cps |
| Manganese | 55-2 | 16125 | 16306 | 16082 | 16171 | 0.73 | cps |
| Molybdenum | 94-1 | 7822 | 8022 | 8192 | 8012 | 2.31 | cps |
| Molybdenum | 95-1 | 12876 | 12926 | 12515 | 12772 | 1.75 | cps |
| Molybdenum | 96-1 | 13400 | 13616 | 14040 | 13685 | 2.38 | cps |
| Molybdenum | 97-1 | 7899 | 7755 | 8052 | 7902 | 1.88 | cps |
| Molybdenum | 98-1 | 20481 | 20237 | 20254 | 20324 | 0.67 | cps |
| Neodymium | 150-1 | 20 | 30 | 33 | 28 | 24.98 | cps |
| Neodymium | 150-2 | 23 | 33 | 10 | 22 | 52.68 | cps |
| Nickel | 60-2 | 1400 | 1387 | 1363 | 1383 | 1.34 | cps |
| Phosphorus | 31-2 | 530 | 493 | 587 | 537 | 8.76 | cps |
| Potassium | 39-2 | 902795 | 906133 | 899052 | 902660 | 0.39 | cps |
| Rhodium | 103-1 | 25114597 | 25178408 | 25587769 | 25293591 | 1.02 | cps |
| Rhodium | 103-2 | 15248271 | 15075436 | 15124316 | 15149341 | 0.59 | cps |
| Scandium | 45-1 | 14386548 | 14385847 | 14641743 | 14471380 | 1.02 | cps |
| Scandium | 45-2 | 1280770 | 1280646 | 1295090 | 1285502 | 0.65 | cps |
| Selenium | 82-1 | 615 | 432 | 397 | 481 | 24.33 | cps |
| Selenium | 77-2 | 0 | 0 | 3 | 1 | 173.21 | cps |
| Selenium | 78-2 | 497 | 493 | 420 | 470 | 9.22 | cps |
| Silicon | 28-1 | 10649108 | 10729234 | 10705089 | 10694477 | 0.38 | cps |
| Silver | 107-1 | 200 | 193 | 240 | 211 | 11.95 | cps |
| Silver | 109-1 | 90 | 83 | 67 | 80 | 15.02 | cps |
| Sodium | 23-2 | 4039495 | 4131522 | 4047517 | 4072845 | 1.25 | cps |
| Strontium | 86-1 | 3863182 | 3956702 | 3912517 | 3910800 | 1.20 | cps |
| Strontium | 88-1 | 33536379 | 33813016 | 34499178 | 33949524 | 1.46 | cps |
| Sulfur | 34-1 | 574992 | 573598 | 575897 | 574829 | 0.20 | cps |
| Terbium | 159-1 | 32366535 | 32736290 | 32615948 | 32572924 | 0.58 | cps |
| Terbium | 159-2 | 22015018 | 22140674 | 22021215 | 22058969 | 0.32 | cps |
| Thallium | 203-1 | 453 | 427 | 447 | 442 | 3.14 | cps |
| Thallium | 205-1 | 1087 | 1203 | 1027 | 1106 | 8.13 | cps |
| Tin | 118-1 | 7769 | 7439 | 7609 | 7605 | 2.17 | cps |
| Titanium | 47-1 | 370 | 337 | 357 | 354 | 4.73 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-07LX5 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A02L | Dilution Factor : | 5 |
| Date & Time Acquired : | 2024-11-22 16:21:34 | DataFile Name : | 056SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 11568 | 11342 | 11572 | 11494 | 1.15 | cps |
| Vanadium | 51-2 | 423 | 340 | 323 | 362 | 14.79 | cps |
| Yttrium | 89-1 | 35214047 | 34967203 | 35659988 | 35280413 | 1.00 | cps |
| Yttrium | 89-2 | 9210858 | 9123805 | 9115589 | 9150084 | 0.58 | cps |
| Zinc | 66-2 | 12669 | 12702 | 12629 | 12667 | 0.29 | cps |
| Zirconium | 90-1 | 2300 | 2427 | 2480 | 2402 | 3.85 | cps |
| Zirconium | 91-1 | 467 | 513 | 563 | 514 | 9.40 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-09 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A02S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:24:43 | DataFile Name : | 057SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 975792 | 967937 | 973920 | 972550 | 0.42 | cps |
| Antimony | 121-1 | 2499701 | 2466756 | 2465210 | 2477222 | 0.79 | cps |
| Arsenic | 75-2 | 52586 | 52623 | 52941 | 52717 | 0.37 | cps |
| Barium | 135-1 | 12387330 | 12171684 | 12116040 | 12225018 | 1.17 | cps |
| Barium | 137-1 | 21264532 | 20971537 | 20907234 | 21047768 | 0.90 | cps |
| Beryllium | 9-1 | 121577 | 119824 | 118806 | 120069 | 1.17 | cps |
| Bismuth | 209-1 | 20422420 | 20140917 | 19974837 | 20179391 | 1.12 | cps |
| Bismuth | 209-2 | 15510476 | 15669875 | 15451931 | 15544094 | 0.73 | cps |
| Bromine | 81-1 | 32817 | 34437 | 35436 | 34230 | 3.86 | cps |
| Bromine | 81-2 | 3927 | 3757 | 3831 | 3838 | 2.22 | cps |
| Cadmium | 108-1 | 21760 | 21336 | 21339 | 21478 | 1.14 | cps |
| Cadmium | 106-1 | 40567 | 40239 | 39901 | 40236 | 0.83 | cps |
| Cadmium | 111-1 | 335615 | 333624 | 331922 | 333720 | 0.55 | cps |
| Calcium | 43-1 | 4757531 | 4774889 | 4659179 | 4730533 | 1.32 | cps |
| Calcium | 44-1 | 75475291 | 76418486 | 73992651 | 75295476 | 1.62 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 1999783 | 1983497 | 1978842 | 1987374 | 0.55 | cps |
| Cobalt | 59-2 | 7857444 | 7760370 | 7755959 | 7791258 | 0.74 | cps |
| Copper | 63-2 | 2752190 | 2707324 | 2724957 | 2728157 | 0.83 | cps |
| Dysprosium | 156-1 | 380 | 373 | 383 | 379 | 1.34 | cps |
| Dysprosium | 156-2 | 650 | 680 | 670 | 667 | 2.29 | cps |
| Erbium | 164-1 | 203 | 170 | 223 | 199 | 13.55 | cps |
| Erbium | 164-2 | 130 | 157 | 137 | 141 | 9.84 | cps |
| Gadolinium | 160-1 | 427 | 430 | 370 | 409 | 8.25 | cps |
| Gadolinium | 160-2 | 1647 | 1483 | 1537 | 1556 | 5.35 | cps |
| Holmium | 165-1 | 34524353 | 34085064 | 33514907 | 34041441 | 1.49 | cps |
| Holmium | 165-2 | 22851829 | 23185850 | 22821652 | 22953110 | 0.88 | cps |
| Indium | 115-1 | 28682151 | 28108376 | 27777318 | 28189282 | 1.62 | cps |
| Indium | 115-2 | 9774567 | 9761289 | 9609883 | 9715247 | 0.94 | cps |
| Iron | 56-2 | 9228921 | 9178273 | 9103719 | 9170304 | 0.69 | cps |
| Iron | 57-2 | 320906 | 321583 | 319370 | 320620 | 0.35 | cps |
| Iron | 54-2 | 593901 | 589840 | 587250 | 590330 | 0.57 | cps |
| Krypton | 83-1 | 323 | 290 | 347 | 320 | 8.90 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-09 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A02S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:24:43 | DataFile Name : | 057SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 367160 | 363479 | 363095 | 364578 | 0.62 | cps |
| Lead | 207-1 | 315170 | 313799 | 310824 | 313264 | 0.71 | cps |
| Lead | 208-1 | 1451821 | 1442831 | 1434980 | 1443211 | 0.58 | cps |
| Lithium | 6-1 | 3338461 | 3270021 | 3198757 | 3269080 | 2.14 | cps |
| Magnesium | 24-2 | 26016488 | 26018179 | 26223395 | 26086020 | 0.46 | cps |
| Manganese | 55-2 | 3762134 | 3700891 | 3677815 | 3713613 | 1.17 | cps |
| Molybdenum | 94-1 | 38912 | 39356 | 39032 | 39100 | 0.59 | cps |
| Molybdenum | 95-1 | 66735 | 66299 | 66497 | 66510 | 0.33 | cps |
| Molybdenum | 96-1 | 72368 | 72371 | 72723 | 72487 | 0.28 | cps |
| Molybdenum | 97-1 | 41398 | 42034 | 41856 | 41763 | 0.78 | cps |
| Molybdenum | 98-1 | 107388 | 107989 | 107562 | 107646 | 0.29 | cps |
| Neodymium | 150-1 | 623 | 627 | 623 | 624 | 0.31 | cps |
| Neodymium | 150-2 | 113 | 147 | 143 | 134 | 13.65 | cps |
| Nickel | 60-2 | 2020692 | 2027615 | 2010069 | 2019459 | 0.44 | cps |
| Phosphorus | 31-2 | 1160 | 1200 | 1280 | 1213 | 5.04 | cps |
| Potassium | 39-2 | 4125601 | 4137222 | 4089065 | 4117296 | 0.61 | cps |
| Rhodium | 103-1 | 26297744 | 26018287 | 25894875 | 26070302 | 0.79 | cps |
| Rhodium | 103-2 | 15291730 | 15257676 | 15186531 | 15245312 | 0.35 | cps |
| Scandium | 45-1 | 15253776 | 15335576 | 14681374 | 15090242 | 2.36 | cps |
| Scandium | 45-2 | 1344950 | 1346756 | 1311054 | 1334254 | 1.51 | cps |
| Selenium | 82-1 | 42020 | 41158 | 41480 | 41552 | 1.05 | cps |
| Selenium | 77-2 | 4064 | 4234 | 4117 | 4138 | 2.10 | cps |
| Selenium | 78-2 | 14524 | 14344 | 14047 | 14305 | 1.68 | cps |
| Silicon | 28-1 | 52399969 | 52094698 | 51379941 | 51958203 | 1.01 | cps |
| Silver | 107-1 | 1597571 | 1589196 | 1576858 | 1587875 | 0.66 | cps |
| Silver | 109-1 | 1511092 | 1507679 | 1505899 | 1508223 | 0.17 | cps |
| Sodium | 23-2 | 20684705 | 20542751 | 20829113 | 20685523 | 0.69 | cps |
| Strontium | 86-1 | 20764883 | 20447802 | 20201864 | 20471516 | 1.38 | cps |
| Strontium | 88-1 | 180191991 | 178571424 | 177527811 | 178763742 | 0.75 | cps |
| Sulfur | 34-1 | 1846024 | 1788902 | 1773550 | 1802825 | 2.12 | cps |
| Terbium | 159-1 | 35363495 | 34869111 | 34621425 | 34951344 | 1.08 | cps |
| Terbium | 159-2 | 22707777 | 22825960 | 22934715 | 22822817 | 0.50 | cps |
| Thallium | 203-1 | 1115227 | 1116427 | 1114335 | 1115330 | 0.09 | cps |
| Thallium | 205-1 | 2715079 | 2648461 | 2634083 | 2665874 | 1.62 | cps |
| Tin | 118-1 | 7175 | 6745 | 6835 | 6918 | 3.28 | cps |
| Titanium | 47-1 | 957 | 1013 | 920 | 963 | 4.88 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-09 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A02S | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:24:43 | DataFile Name : | 057SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 62536 | 62717 | 62556 | 62603 | 0.16 | cps |
| Vanadium | 51-2 | 4246838 | 4190325 | 4149534 | 4195566 | 1.16 | cps |
| Yttrium | 89-1 | 38203706 | 38047740 | 37080576 | 37777341 | 1.61 | cps |
| Yttrium | 89-2 | 9455600 | 9323619 | 9377464 | 9385561 | 0.71 | cps |
| Zinc | 66-2 | 962681 | 959436 | 955774 | 959297 | 0.36 | cps |
| Zirconium | 90-1 | 3027 | 3077 | 3234 | 3113 | 3.46 | cps |
| Zirconium | 91-1 | 777 | 763 | 830 | 790 | 4.47 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-10 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A04 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:27:39 | DataFile Name : | 058SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1247 | 1280 | 1300 | 1276 | 2.11 | cps |
| Antimony | 121-1 | 2007 | 1973 | 1863 | 1948 | 3.85 | cps |
| Arsenic | 75-2 | 1930 | 1817 | 1903 | 1883 | 3.15 | cps |
| Barium | 135-1 | 560486 | 559187 | 560133 | 559935 | 0.12 | cps |
| Barium | 137-1 | 971372 | 973387 | 976244 | 973668 | 0.25 | cps |
| Beryllium | 9-1 | 67 | 61 | 89 | 72 | 20.35 | cps |
| Bismuth | 209-1 | 20570268 | 19629108 | 17725705 | 19308361 | 7.51 | cps |
| Bismuth | 209-2 | 15513660 | 15407061 | 15422461 | 15447728 | 0.37 | cps |
| Bromine | 81-1 | 31808 | 34186 | 35553 | 33849 | 5.60 | cps |
| Bromine | 81-2 | 3724 | 4204 | 3941 | 3956 | 6.08 | cps |
| Cadmium | 108-1 | 27 | 30 | 57 | 38 | 43.52 | cps |
| Cadmium | 106-1 | 11148 | 9974 | 9510 | 10210 | 8.27 | cps |
| Cadmium | 111-1 | 7848 | 7030 | 6717 | 7199 | 8.11 | cps |
| Calcium | 43-1 | 4769513 | 4779779 | 4841119 | 4796803 | 0.81 | cps |
| Calcium | 44-1 | 76100787 | 77078001 | 76826639 | 76668476 | 0.66 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 5888 | 6048 | 5951 | 5962 | 1.35 | cps |
| Cobalt | 59-2 | 2177 | 2184 | 2170 | 2177 | 0.31 | cps |
| Copper | 63-2 | 16085 | 16005 | 16146 | 16079 | 0.44 | cps |
| Dysprosium | 156-1 | 303 | 250 | 263 | 272 | 10.20 | cps |
| Dysprosium | 156-2 | 217 | 250 | 230 | 232 | 7.23 | cps |
| Erbium | 164-1 | 193 | 210 | 200 | 201 | 4.17 | cps |
| Erbium | 164-2 | 167 | 117 | 110 | 131 | 23.62 | cps |
| Gadolinium | 160-1 | 370 | 410 | 407 | 396 | 5.61 | cps |
| Gadolinium | 160-2 | 1393 | 1453 | 1527 | 1458 | 4.58 | cps |
| Holmium | 165-1 | 33943253 | 33111401 | 29989146 | 32347933 | 6.44 | cps |
| Holmium | 165-2 | 22739890 | 22476306 | 22852666 | 22689621 | 0.85 | cps |
| Indium | 115-1 | 28666333 | 27459169 | 24792759 | 26972754 | 7.35 | cps |
| Indium | 115-2 | 9623783 | 9668382 | 9693699 | 9661955 | 0.37 | cps |
| Iron | 56-2 | 195773 | 194270 | 194578 | 194874 | 0.41 | cps |
| Iron | 57-2 | 91617 | 92261 | 93139 | 92339 | 0.83 | cps |
| Iron | 54-2 | 12986 | 12852 | 12519 | 12786 | 1.88 | cps |
| Krypton | 83-1 | 280 | 287 | 347 | 304 | 12.06 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-10 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A04 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:27:39 | DataFile Name : | 058SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 3224 | 3054 | 3254 | 3177 | 3.40 | cps |
| Lead | 207-1 | 2664 | 2634 | 2667 | 2655 | 0.69 | cps |
| Lead | 208-1 | 12636 | 12166 | 12396 | 12399 | 1.90 | cps |
| Lithium | 6-1 | 3391295 | 3212609 | 2915972 | 3173292 | 7.57 | cps |
| Magnesium | 24-2 | 27499540 | 26776455 | 27193228 | 27156408 | 1.34 | cps |
| Manganese | 55-2 | 34583 | 35061 | 34914 | 34853 | 0.70 | cps |
| Molybdenum | 94-1 | 39874 | 39807 | 39570 | 39750 | 0.40 | cps |
| Molybdenum | 95-1 | 67789 | 70100 | 68342 | 68744 | 1.76 | cps |
| Molybdenum | 96-1 | 73322 | 74820 | 74864 | 74335 | 1.18 | cps |
| Molybdenum | 97-1 | 43448 | 43344 | 43518 | 43437 | 0.20 | cps |
| Molybdenum | 98-1 | 110256 | 111884 | 111041 | 111060 | 0.73 | cps |
| Neodymium | 150-1 | 93 | 90 | 83 | 89 | 5.73 | cps |
| Neodymium | 150-2 | 43 | 40 | 63 | 49 | 25.81 | cps |
| Nickel | 60-2 | 4327 | 4254 | 4201 | 4261 | 1.49 | cps |
| Phosphorus | 31-2 | 1087 | 1043 | 1073 | 1068 | 2.08 | cps |
| Potassium | 39-2 | 4333009 | 4335601 | 4301791 | 4323467 | 0.44 | cps |
| Rhodium | 103-1 | 26420980 | 25464900 | 23106957 | 24997612 | 6.82 | cps |
| Rhodium | 103-2 | 15018695 | 15277677 | 15082682 | 15126351 | 0.89 | cps |
| Scandium | 45-1 | 15170253 | 14654762 | 13338861 | 14387959 | 6.56 | cps |
| Scandium | 45-2 | 1317449 | 1330351 | 1300581 | 1316127 | 1.13 | cps |
| Selenium | 82-1 | 578 | 539 | 494 | 537 | 7.82 | cps |
| Selenium | 77-2 | 13 | 3 | 0 | 6 | 124.93 | cps |
| Selenium | 78-2 | 387 | 433 | 550 | 457 | 18.42 | cps |
| Silicon | 28-1 | 52267248 | 52691501 | 52750393 | 52569714 | 0.50 | cps |
| Silver | 107-1 | 640 | 547 | 413 | 533 | 21.36 | cps |
| Silver | 109-1 | 357 | 337 | 343 | 346 | 2.95 | cps |
| Sodium | 23-2 | 21785496 | 21387501 | 21556427 | 21576475 | 0.93 | cps |
| Strontium | 86-1 | 21232889 | 21574663 | 21660249 | 21489267 | 1.05 | cps |
| Strontium | 88-1 | 185878504 | 189014217 | 187551131 | 187481284 | 0.84 | cps |
| Sulfur | 34-1 | 1807316 | 1823277 | 1791386 | 1807326 | 0.88 | cps |
| Terbium | 159-1 | 34778005 | 33567436 | 30469720 | 32938387 | 6.75 | cps |
| Terbium | 159-2 | 22349569 | 22453631 | 22353698 | 22385632 | 0.26 | cps |
| Thallium | 203-1 | 1067 | 967 | 833 | 956 | 12.25 | cps |
| Thallium | 205-1 | 2474 | 2347 | 2070 | 2297 | 8.98 | cps |
| Tin | 118-1 | 5148 | 4991 | 4834 | 4991 | 3.14 | cps |
| Titanium | 47-1 | 880 | 903 | 903 | 896 | 1.50 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-10 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A04 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:27:39 | DataFile Name : | 058SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 62787 | 63531 | 63538 | 63285 | 0.68 | cps |
| Vanadium | 51-2 | 2003 | 2043 | 1963 | 2003 | 2.00 | cps |
| Yttrium | 89-1 | 37890624 | 36196342 | 33211573 | 35766179 | 6.62 | cps |
| Yttrium | 89-2 | 9213907 | 9339024 | 9381263 | 9311398 | 0.93 | cps |
| Zinc | 66-2 | 7785 | 7946 | 7969 | 7900 | 1.26 | cps |
| Zirconium | 90-1 | 3354 | 3154 | 2960 | 3156 | 6.23 | cps |
| Zirconium | 91-1 | 643 | 670 | 613 | 642 | 4.41 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-11 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A06 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:30:47 | DataFile Name : | 059SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1950 | 1583 | 1740 | 1758 | 10.47 | cps |
| Antimony | 121-1 | 1830 | 1837 | 1767 | 1811 | 2.13 | cps |
| Arsenic | 75-2 | 1953 | 1823 | 1790 | 1856 | 4.65 | cps |
| Barium | 135-1 | 548535 | 553463 | 549217 | 550405 | 0.49 | cps |
| Barium | 137-1 | 952822 | 957339 | 954069 | 954743 | 0.24 | cps |
| Beryllium | 9-1 | 67 | 83 | 33 | 61 | 41.67 | cps |
| Bismuth | 209-1 | 20226746 | 20088158 | 19725613 | 20013506 | 1.29 | cps |
| Bismuth | 209-2 | 15587397 | 15495366 | 15535242 | 15539335 | 0.30 | cps |
| Bromine | 81-1 | 32322 | 33638 | 35596 | 33852 | 4.87 | cps |
| Bromine | 81-2 | 3694 | 3854 | 3964 | 3837 | 3.54 | cps |
| Cadmium | 108-1 | 73 | 67 | 37 | 59 | 33.16 | cps |
| Cadmium | 106-1 | 11021 | 10284 | 10591 | 10632 | 3.48 | cps |
| Cadmium | 111-1 | 7720 | 7205 | 7454 | 7460 | 3.45 | cps |
| Calcium | 43-1 | 4764920 | 4772255 | 4679090 | 4738755 | 1.09 | cps |
| Calcium | 44-1 | 75721727 | 76473616 | 75121394 | 75772246 | 0.89 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 5561 | 5771 | 5501 | 5611 | 2.53 | cps |
| Cobalt | 59-2 | 2060 | 1973 | 2067 | 2033 | 2.56 | cps |
| Copper | 63-2 | 18348 | 18258 | 18475 | 18360 | 0.59 | cps |
| Dysprosium | 156-1 | 263 | 233 | 253 | 250 | 6.11 | cps |
| Dysprosium | 156-2 | 213 | 177 | 203 | 198 | 9.58 | cps |
| Erbium | 164-1 | 223 | 220 | 177 | 207 | 12.60 | cps |
| Erbium | 164-2 | 107 | 117 | 133 | 119 | 11.33 | cps |
| Gadolinium | 160-1 | 357 | 387 | 387 | 377 | 4.60 | cps |
| Gadolinium | 160-2 | 1520 | 1423 | 1423 | 1456 | 3.83 | cps |
| Holmium | 165-1 | 34008963 | 33385300 | 33410040 | 33601434 | 1.05 | cps |
| Holmium | 165-2 | 22900267 | 22724697 | 22522171 | 22715712 | 0.83 | cps |
| Indium | 115-1 | 28662652 | 27979779 | 27995212 | 28212548 | 1.38 | cps |
| Indium | 115-2 | 9757612 | 9703421 | 9606492 | 9689175 | 0.79 | cps |
| Iron | 56-2 | 173505 | 173195 | 174132 | 173610 | 0.27 | cps |
| Iron | 57-2 | 88867 | 89786 | 91540 | 90064 | 1.51 | cps |
| Iron | 54-2 | 11261 | 11454 | 12005 | 11573 | 3.34 | cps |
| Krypton | 83-1 | 233 | 313 | 267 | 271 | 14.82 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-11 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A06 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:30:47 | DataFile Name : | 059SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2447 | 2357 | 2497 | 2434 | 2.92 | cps |
| Lead | 207-1 | 1980 | 2007 | 2017 | 2001 | 0.95 | cps |
| Lead | 208-1 | 9365 | 9198 | 9648 | 9404 | 2.42 | cps |
| Lithium | 6-1 | 3308353 | 3299447 | 3287207 | 3298336 | 0.32 | cps |
| Magnesium | 24-2 | 26603426 | 26688662 | 26609460 | 26633850 | 0.18 | cps |
| Manganese | 55-2 | 24831 | 24837 | 25181 | 24950 | 0.80 | cps |
| Molybdenum | 94-1 | 39386 | 39527 | 39390 | 39434 | 0.20 | cps |
| Molybdenum | 95-1 | 66909 | 67234 | 68429 | 67524 | 1.19 | cps |
| Molybdenum | 96-1 | 73490 | 73199 | 73101 | 73263 | 0.28 | cps |
| Molybdenum | 97-1 | 42839 | 42970 | 42842 | 42884 | 0.17 | cps |
| Molybdenum | 98-1 | 110877 | 111260 | 111350 | 111162 | 0.23 | cps |
| Neodymium | 150-1 | 67 | 90 | 100 | 86 | 19.99 | cps |
| Neodymium | 150-2 | 27 | 40 | 30 | 32 | 21.53 | cps |
| Nickel | 60-2 | 4381 | 4337 | 4261 | 4326 | 1.41 | cps |
| Phosphorus | 31-2 | 1100 | 1123 | 1223 | 1149 | 5.70 | cps |
| Potassium | 39-2 | 4369532 | 4295906 | 4357412 | 4340950 | 0.91 | cps |
| Rhodium | 103-1 | 26224300 | 26032586 | 25794870 | 26017252 | 0.83 | cps |
| Rhodium | 103-2 | 15561520 | 15199672 | 15160722 | 15307304 | 1.44 | cps |
| Scandium | 45-1 | 15349436 | 15129963 | 14898017 | 15125805 | 1.49 | cps |
| Scandium | 45-2 | 1301545 | 1320057 | 1352381 | 1324661 | 1.94 | cps |
| Selenium | 82-1 | 604 | 472 | 426 | 501 | 18.44 | cps |
| Selenium | 77-2 | 17 | 3 | 7 | 9 | 78.08 | cps |
| Selenium | 78-2 | 533 | 550 | 477 | 520 | 7.39 | cps |
| Silicon | 28-1 | 52273778 | 52627056 | 53003393 | 52634742 | 0.69 | cps |
| Silver | 107-1 | 307 | 323 | 340 | 323 | 5.16 | cps |
| Silver | 109-1 | 140 | 180 | 150 | 157 | 13.29 | cps |
| Sodium | 23-2 | 21806024 | 21873067 | 21660391 | 21779827 | 0.50 | cps |
| Strontium | 86-1 | 21399699 | 21327953 | 21254495 | 21327382 | 0.34 | cps |
| Strontium | 88-1 | 186486824 | 185546044 | 186683257 | 186238708 | 0.33 | cps |
| Sulfur | 34-1 | 1800189 | 1792491 | 1775686 | 1789455 | 0.70 | cps |
| Terbium | 159-1 | 34562560 | 34816721 | 34042833 | 34474038 | 1.14 | cps |
| Terbium | 159-2 | 22586459 | 22696117 | 22510374 | 22597650 | 0.41 | cps |
| Thallium | 203-1 | 753 | 653 | 717 | 708 | 7.15 | cps |
| Thallium | 205-1 | 1800 | 1787 | 1643 | 1743 | 4.98 | cps |
| Tin | 118-1 | 5041 | 4754 | 4701 | 4832 | 3.79 | cps |
| Titanium | 47-1 | 843 | 847 | 783 | 824 | 4.32 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-11 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A06 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:30:47 | DataFile Name : | 059SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 62191 | 60996 | 61154 | 61447 | 1.06 | cps |
| Vanadium | 51-2 | 1700 | 1633 | 1837 | 1723 | 6.02 | cps |
| Yttrium | 89-1 | 37570227 | 37431280 | 37318033 | 37439847 | 0.34 | cps |
| Yttrium | 89-2 | 9493942 | 9383349 | 9346393 | 9407895 | 0.82 | cps |
| Zinc | 66-2 | 7285 | 7429 | 7529 | 7414 | 1.65 | cps |
| Zirconium | 90-1 | 3164 | 3531 | 3154 | 3283 | 6.54 | cps |
| Zirconium | 91-1 | 613 | 667 | 670 | 650 | 4.89 | cps |

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Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-12 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A08 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:33:59 | DataFile Name : | 060SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1280 | 1160 | 1180 | 1207 | 5.33 | cps |
| Antimony | 121-1 | 1690 | 1670 | 1633 | 1665 | 1.73 | cps |
| Arsenic | 75-2 | 1950 | 1827 | 1840 | 1872 | 3.62 | cps |
| Barium | 135-1 | 558517 | 556104 | 559272 | 557965 | 0.30 | cps |
| Barium | 137-1 | 970239 | 969111 | 969929 | 969760 | 0.06 | cps |
| Beryllium | 9-1 | 67 | 67 | 72 | 69 | 4.68 | cps |
| Bismuth | 209-1 | 19761223 | 19662803 | 19851983 | 19758670 | 0.48 | cps |
| Bismuth | 209-2 | 15472869 | 15557844 | 15398382 | 15476365 | 0.52 | cps |
| Bromine | 81-1 | 33077 | 34694 | 37387 | 35053 | 6.21 | cps |
| Bromine | 81-2 | 3984 | 4244 | 4154 | 4127 | 3.20 | cps |
| Cadmium | 108-1 | 50 | 30 | 30 | 37 | 31.49 | cps |
| Cadmium | 106-1 | 10597 | 10601 | 10491 | 10563 | 0.59 | cps |
| Cadmium | 111-1 | 7453 | 7489 | 7386 | 7443 | 0.71 | cps |
| Calcium | 43-1 | 4811550 | 4821302 | 4809929 | 4814260 | 0.13 | cps |
| Calcium | 44-1 | 75925059 | 77267406 | 76558601 | 76583688 | 0.88 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 5434 | 5188 | 5261 | 5294 | 2.39 | cps |
| Cobalt | 59-2 | 2034 | 2030 | 2060 | 2041 | 0.81 | cps |
| Copper | 63-2 | 16439 | 16132 | 16676 | 16416 | 1.66 | cps |
| Dysprosium | 156-1 | 223 | 247 | 270 | 247 | 9.46 | cps |
| Dysprosium | 156-2 | 180 | 170 | 163 | 171 | 4.90 | cps |
| Erbium | 164-1 | 180 | 217 | 197 | 198 | 9.28 | cps |
| Erbium | 164-2 | 157 | 140 | 77 | 124 | 33.92 | cps |
| Gadolinium | 160-1 | 317 | 383 | 383 | 361 | 10.66 | cps |
| Gadolinium | 160-2 | 1517 | 1500 | 1380 | 1466 | 5.09 | cps |
| Holmium | 165-1 | 32963815 | 33031260 | 33211060 | 33068712 | 0.39 | cps |
| Holmium | 165-2 | 22753577 | 22673399 | 22571373 | 22666116 | 0.40 | cps |
| Indium | 115-1 | 27572267 | 27555228 | 27518068 | 27548521 | 0.10 | cps |
| Indium | 115-2 | 9668302 | 9695432 | 9736007 | 9699914 | 0.35 | cps |
| Iron | 56-2 | 169227 | 168115 | 168758 | 168700 | 0.33 | cps |
| Iron | 57-2 | 91134 | 92523 | 93089 | 92248 | 1.09 | cps |
| Iron | 54-2 | 11394 | 11311 | 11514 | 11407 | 0.90 | cps |
| Krypton | 83-1 | 277 | 253 | 300 | 277 | 8.43 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-12 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A08 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:33:59 | DataFile Name : | 060SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2340 | 2507 | 2560 | 2469 | 4.65 | cps |
| Lead | 207-1 | 2064 | 2014 | 2014 | 2030 | 1.42 | cps |
| Lead | 208-1 | 9588 | 9858 | 9648 | 9698 | 1.46 | cps |
| Lithium | 6-1 | 3299674 | 3228734 | 3227089 | 3251833 | 1.27 | cps |
| Magnesium | 24-2 | 27006086 | 27182281 | 26784423 | 26990930 | 0.74 | cps |
| Manganese | 55-2 | 34623 | 34650 | 35248 | 34840 | 1.01 | cps |
| Molybdenum | 94-1 | 38795 | 39226 | 38557 | 38859 | 0.87 | cps |
| Molybdenum | 95-1 | 66664 | 66704 | 66513 | 66627 | 0.15 | cps |
| Molybdenum | 96-1 | 71658 | 71420 | 72716 | 71931 | 0.96 | cps |
| Molybdenum | 97-1 | 42341 | 42237 | 41382 | 41987 | 1.25 | cps |
| Molybdenum | 98-1 | 107807 | 107619 | 105343 | 106923 | 1.28 | cps |
| Neodymium | 150-1 | 80 | 90 | 77 | 82 | 8.44 | cps |
| Neodymium | 150-2 | 43 | 53 | 37 | 44 | 18.87 | cps |
| Nickel | 60-2 | 4287 | 4007 | 4291 | 4195 | 3.88 | cps |
| Phosphorus | 31-2 | 1187 | 1220 | 1200 | 1202 | 1.40 | cps |
| Potassium | 39-2 | 4391924 | 4310537 | 4380829 | 4361097 | 1.01 | cps |
| Rhodium | 103-1 | 25684740 | 25643895 | 25956652 | 25761762 | 0.66 | cps |
| Rhodium | 103-2 | 15274712 | 15177741 | 15212901 | 15221784 | 0.32 | cps |
| Scandium | 45-1 | 14717180 | 14983068 | 14785176 | 14828475 | 0.93 | cps |
| Scandium | 45-2 | 1313784 | 1320932 | 1328474 | 1321064 | 0.56 | cps |
| Selenium | 82-1 | 534 | 505 | 373 | 471 | 18.28 | cps |
| Selenium | 77-2 | 7 | 7 | 10 | 8 | 24.71 | cps |
| Selenium | 78-2 | 507 | 487 | 450 | 481 | 5.97 | cps |
| Silicon | 28-1 | 53538278 | 52590513 | 53095303 | 53074698 | 0.89 | cps |
| Silver | 107-1 | 223 | 193 | 300 | 239 | 23.03 | cps |
| Silver | 109-1 | 127 | 140 | 113 | 127 | 10.52 | cps |
| Sodium | 23-2 | 22573420 | 22583029 | 22372137 | 22509529 | 0.53 | cps |
| Strontium | 86-1 | 20287483 | 20340308 | 20170243 | 20266011 | 0.43 | cps |
| Strontium | 88-1 | 176557344 | 177462957 | 176446057 | 176822120 | 0.32 | cps |
| Sulfur | 34-1 | 1829342 | 1813306 | 1805274 | 1815974 | 0.67 | cps |
| Terbium | 159-1 | 34089586 | 34338418 | 34197346 | 34208450 | 0.36 | cps |
| Terbium | 159-2 | 22564641 | 22159865 | 22312165 | 22345557 | 0.91 | cps |
| Thallium | 203-1 | 663 | 783 | 610 | 686 | 12.95 | cps |
| Thallium | 205-1 | 1667 | 1453 | 1653 | 1591 | 7.51 | cps |
| Tin | 118-1 | 5191 | 5288 | 5444 | 5308 | 2.41 | cps |
| Titanium | 47-1 | 950 | 1013 | 843 | 936 | 9.18 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-12 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A08 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:33:59 | DataFile Name : | 060SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 59573 | 59767 | 59811 | 59717 | 0.21 | cps |
| Vanadium | 51-2 | 1570 | 1707 | 1723 | 1667 | 5.05 | cps |
| Yttrium | 89-1 | 37128212 | 36996541 | 37194692 | 37106482 | 0.27 | cps |
| Yttrium | 89-2 | 9473369 | 9418008 | 9475652 | 9455676 | 0.35 | cps |
| Zinc | 66-2 | 7055 | 6988 | 6942 | 6995 | 0.81 | cps |
| Zirconium | 90-1 | 3067 | 2904 | 3240 | 3070 | 5.48 | cps |
| Zirconium | 91-1 | 650 | 660 | 790 | 700 | 11.16 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-13 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A10 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:37:08 | DataFile Name : | 061SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1427 | 1460 | 1420 | 1436 | 1.49 | cps |
| Antimony | 121-1 | 1657 | 1727 | 1763 | 1716 | 3.16 | cps |
| Arsenic | 75-2 | 1853 | 1950 | 1897 | 1900 | 2.55 | cps |
| Barium | 135-1 | 548190 | 548510 | 546364 | 547688 | 0.21 | cps |
| Barium | 137-1 | 944143 | 946162 | 943750 | 944685 | 0.14 | cps |
| Beryllium | 9-1 | 100 | 50 | 100 | 83 | 34.64 | cps |
| Bismuth | 209-1 | 19753043 | 19828133 | 19517202 | 19699460 | 0.82 | cps |
| Bismuth | 209-2 | 15179399 | 15371306 | 15197422 | 15249375 | 0.69 | cps |
| Bromine | 81-1 | 31734 | 34610 | 36147 | 34164 | 6.56 | cps |
| Bromine | 81-2 | 4041 | 3904 | 3964 | 3969 | 1.73 | cps |
| Cadmium | 108-1 | 30 | 57 | 47 | 44 | 30.31 | cps |
| Cadmium | 106-1 | 11198 | 10821 | 10320 | 10780 | 4.08 | cps |
| Cadmium | 111-1 | 7877 | 7635 | 7312 | 7608 | 3.73 | cps |
| Calcium | 43-1 | 4665852 | 4696610 | 4713508 | 4691990 | 0.51 | cps |
| Calcium | 44-1 | 75623606 | 75380232 | 74374477 | 75126105 | 0.88 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 9266 | 9353 | 9246 | 9288 | 0.61 | cps |
| Cobalt | 59-2 | 2267 | 2300 | 2164 | 2244 | 3.18 | cps |
| Copper | 63-2 | 17607 | 17290 | 17467 | 17455 | 0.91 | cps |
| Dysprosium | 156-1 | 300 | 240 | 227 | 256 | 15.29 | cps |
| Dysprosium | 156-2 | 187 | 197 | 177 | 187 | 5.36 | cps |
| Erbium | 164-1 | 167 | 170 | 177 | 171 | 2.98 | cps |
| Erbium | 164-2 | 133 | 167 | 93 | 131 | 28.01 | cps |
| Gadolinium | 160-1 | 340 | 427 | 357 | 374 | 12.28 | cps |
| Gadolinium | 160-2 | 1340 | 1353 | 1487 | 1393 | 5.82 | cps |
| Holmium | 165-1 | 33663141 | 33669911 | 33046285 | 33459779 | 1.07 | cps |
| Holmium | 165-2 | 22287926 | 22391095 | 22559859 | 22412960 | 0.61 | cps |
| Indium | 115-1 | 28050746 | 27788655 | 27527402 | 27788934 | 0.94 | cps |
| Indium | 115-2 | 9576315 | 9479878 | 9556082 | 9537425 | 0.53 | cps |
| Iron | 56-2 | 216546 | 215671 | 214011 | 215409 | 0.60 | cps |
| Iron | 57-2 | 88696 | 91349 | 91560 | 90535 | 1.76 | cps |
| Iron | 54-2 | 14107 | 13700 | 14040 | 13949 | 1.57 | cps |
| Krypton | 83-1 | 297 | 297 | 327 | 307 | 5.65 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-13 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A10 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:37:08 | DataFile Name : | 061SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2800 | 2937 | 2817 | 2851 | 2.62 | cps |
| Lead | 207-1 | 2357 | 2367 | 2220 | 2315 | 3.54 | cps |
| Lead | 208-1 | 11019 | 11142 | 10568 | 10910 | 2.77 | cps |
| Lithium | 6-1 | 3332400 | 3293148 | 3199677 | 3275075 | 2.08 | cps |
| Magnesium | 24-2 | 26120215 | 26233673 | 26224838 | 26192909 | 0.24 | cps |
| Manganese | 55-2 | 36959 | 36868 | 36541 | 36789 | 0.60 | cps |
| Molybdenum | 94-1 | 38661 | 38704 | 38918 | 38761 | 0.36 | cps |
| Molybdenum | 95-1 | 65630 | 67300 | 65573 | 66168 | 1.48 | cps |
| Molybdenum | 96-1 | 71165 | 71316 | 71527 | 71336 | 0.25 | cps |
| Molybdenum | 97-1 | 42027 | 42211 | 40810 | 41683 | 1.83 | cps |
| Molybdenum | 98-1 | 108452 | 106605 | 106435 | 107164 | 1.04 | cps |
| Neodymium | 150-1 | 90 | 93 | 93 | 92 | 2.08 | cps |
| Neodymium | 150-2 | 37 | 27 | 37 | 33 | 17.32 | cps |
| Nickel | 60-2 | 6525 | 6792 | 6665 | 6660 | 2.00 | cps |
| Phosphorus | 31-2 | 1143 | 1120 | 1127 | 1130 | 1.06 | cps |
| Potassium | 39-2 | 4225195 | 4280897 | 4248748 | 4251613 | 0.66 | cps |
| Rhodium | 103-1 | 25577750 | 25673405 | 25815432 | 25688862 | 0.47 | cps |
| Rhodium | 103-2 | 14941778 | 15073401 | 14954463 | 14989881 | 0.48 | cps |
| Scandium | 45-1 | 15051877 | 15153997 | 14832754 | 15012876 | 1.09 | cps |
| Scandium | 45-2 | 1296994 | 1312883 | 1325940 | 1311939 | 1.10 | cps |
| Selenium | 82-1 | 479 | 528 | 383 | 463 | 15.89 | cps |
| Selenium | 77-2 | 10 | 3 | 0 | 4 | 114.60 | cps |
| Selenium | 78-2 | 450 | 487 | 483 | 473 | 4.28 | cps |
| Silicon | 28-1 | 51381741 | 52353506 | 52237923 | 51991056 | 1.02 | cps |
| Silver | 107-1 | 247 | 233 | 250 | 243 | 3.62 | cps |
| Silver | 109-1 | 93 | 147 | 153 | 131 | 25.09 | cps |
| Sodium | 23-2 | 21275449 | 21533337 | 21440711 | 21416499 | 0.61 | cps |
| Strontium | 86-1 | 20251098 | 20385383 | 20190893 | 20275791 | 0.49 | cps |
| Strontium | 88-1 | 178190651 | 177521737 | 175651971 | 177121453 | 0.74 | cps |
| Sulfur | 34-1 | 1809095 | 1790500 | 1806655 | 1802084 | 0.56 | cps |
| Terbium | 159-1 | 34102861 | 34131162 | 34357891 | 34197305 | 0.41 | cps |
| Terbium | 159-2 | 21921415 | 22208158 | 22080306 | 22069959 | 0.65 | cps |
| Thallium | 203-1 | 570 | 710 | 543 | 608 | 14.73 | cps |
| Thallium | 205-1 | 1403 | 1310 | 1350 | 1355 | 3.46 | cps |
| Tin | 118-1 | 5958 | 6001 | 5594 | 5851 | 3.82 | cps |
| Titanium | 47-1 | 850 | 963 | 867 | 893 | 6.85 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4878-13 | Instrumnet Name : | P7 |
| Client Sample ID : | E2A10 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:37:08 | DataFile Name : | 061SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 60142 | 59241 | 60313 | 59899 | 0.96 | cps |
| Vanadium | 51-2 | 1870 | 1893 | 1797 | 1853 | 2.72 | cps |
| Yttrium | 89-1 | 37623955 | 37077299 | 37122081 | 37274445 | 0.81 | cps |
| Yttrium | 89-2 | 9210516 | 9260563 | 9332340 | 9267806 | 0.66 | cps |
| Zinc | 66-2 | 8206 | 7839 | 8086 | 8043 | 2.33 | cps |
| Zirconium | 90-1 | 3210 | 3154 | 3377 | 3247 | 3.58 | cps |
| Zirconium | 91-1 | 670 | 623 | 610 | 634 | 4.97 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCV003 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV003 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:43:37 | DataFile Name : | 063CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 24177259 | 24936721 | 24474978 | 24529653 | 1.56 | cps |
| Antimony | 121-1 | 10901001 | 11138410 | 11048805 | 11029405 | 1.09 | cps |
| Arsenic | 75-2 | 608169 | 608507 | 610294 | 608990 | 0.19 | cps |
| Barium | 135-1 | 13141189 | 13470241 | 13609092 | 13406841 | 1.79 | cps |
| Barium | 137-1 | 22528007 | 23160040 | 23168866 | 22952305 | 1.60 | cps |
| Beryllium | 9-1 | 1073307 | 1111311 | 1077242 | 1087287 | 1.92 | cps |
| Bismuth | 209-1 | 18201426 | 17602290 | 17748453 | 17850723 | 1.75 | cps |
| Bismuth | 209-2 | 13631527 | 13647198 | 13678063 | 13652263 | 0.17 | cps |
| Bromine | 81-1 | 15872 | 16356 | 16389 | 16206 | 1.79 | cps |
| Bromine | 81-2 | 310 | 300 | 270 | 293 | 7.10 | cps |
| Cadmium | 108-1 | 213573 | 217791 | 220466 | 217277 | 1.60 | cps |
| Cadmium | 106-1 | 307245 | 316000 | 316595 | 313280 | 1.67 | cps |
| Cadmium | 111-1 | 2808608 | 2917553 | 2944119 | 2890093 | 2.48 | cps |
| Calcium | 43-1 | 13441351 | 13886197 | 13946618 | 13758055 | 2.01 | cps |
| Calcium | 44-1 | 215949863 | 223705217 | 222094197 | 220583092 | 1.86 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 4627877 | 4583196 | 4568696 | 4593256 | 0.67 | cps |
| Cobalt | 59-2 | 7462006 | 7528965 | 7517973 | 7502981 | 0.48 | cps |
| Copper | 63-2 | 53763934 | 53734168 | 53838398 | 53778833 | 0.10 | cps |
| Dysprosium | 156-1 | 583 | 610 | 573 | 589 | 3.22 | cps |
| Dysprosium | 156-2 | 1023 | 1057 | 940 | 1007 | 5.97 | cps |
| Erbium | 164-1 | 643 | 697 | 677 | 672 | 4.01 | cps |
| Erbium | 164-2 | 480 | 413 | 433 | 442 | 7.74 | cps |
| Gadolinium | 160-1 | 463 | 550 | 530 | 514 | 8.82 | cps |
| Gadolinium | 160-2 | 1463 | 1600 | 1547 | 1537 | 4.48 | cps |
| Holmium | 165-1 | 32366265 | 31652415 | 31874060 | 31964246 | 1.14 | cps |
| Holmium | 165-2 | 21450316 | 21424410 | 21895723 | 21590149 | 1.23 | cps |
| Indium | 115-1 | 25668855 | 25090141 | 25241752 | 25333582 | 1.18 | cps |
| Indium | 115-2 | 8958023 | 8893173 | 9007033 | 8952743 | 0.64 | cps |
| Iron | 56-2 | 1031750011 | 1029995238 | 1039750705 | 1033831985 | 0.50 | cps |
| Iron | 57-2 | 25681842 | 25807260 | 26210266 | 25899790 | 1.07 | cps |
| Iron | 54-2 | 56340146 | 55983209 | 57418074 | 56580476 | 1.32 | cps |
| Krypton | 83-1 | 290 | 310 | 323 | 308 | 5.45 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCV003 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV003 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:43:37 | DataFile Name : | 063CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 38870210 | 39361389 | 39127938 | 39119846 | 0.63 | cps |
| Lead | 207-1 | 33983434 | 34630470 | 34256801 | 34290235 | 0.95 | cps |
| Lead | 208-1 | 155197116 | 157232411 | 157609136 | 156679554 | 0.83 | cps |
| Lithium | 6-1 | 3086974 | 3053912 | 3054605 | 3065164 | 0.62 | cps |
| Magnesium | 24-2 | 211743950 | 214865323 | 211319830 | 212643035 | 0.91 | cps |
| Manganese | 55-2 | 35001485 | 35201042 | 35307136 | 35169888 | 0.44 | cps |
| Molybdenum | 94-1 | 38139487 | 39179671 | 39685142 | 39001433 | 2.02 | cps |
| Molybdenum | 95-1 | 55539906 | 57033281 | 57504562 | 56692583 | 1.81 | cps |
| Molybdenum | 96-1 | 60657564 | 62301854 | 62886391 | 61948603 | 1.87 | cps |
| Molybdenum | 97-1 | 34343077 | 34988478 | 35934552 | 35088702 | 2.28 | cps |
| Molybdenum | 98-1 | 87965379 | 90459319 | 92015242 | 90146646 | 2.27 | cps |
| Neodymium | 150-1 | 970 | 897 | 890 | 919 | 4.83 | cps |
| Neodymium | 150-2 | 300 | 303 | 257 | 287 | 9.08 | cps |
| Nickel | 60-2 | 1927972 | 1920408 | 1902115 | 1916832 | 0.69 | cps |
| Phosphorus | 31-2 | 239587 | 241354 | 241964 | 240968 | 0.51 | cps |
| Potassium | 39-2 | 121839025 | 122593838 | 123571678 | 122668180 | 0.71 | cps |
| Rhodium | 103-1 | 23351851 | 22819904 | 23066341 | 23079365 | 1.15 | cps |
| Rhodium | 103-2 | 13867340 | 13816652 | 14015964 | 13899985 | 0.75 | cps |
| Scandium | 45-1 | 14178664 | 14063399 | 14106338 | 14116134 | 0.41 | cps |
| Scandium | 45-2 | 1276494 | 1283044 | 1285814 | 1281784 | 0.37 | cps |
| Selenium | 82-1 | 168300 | 173948 | 173401 | 171883 | 1.81 | cps |
| Selenium | 77-2 | 17601 | 18392 | 18205 | 18066 | 2.29 | cps |
| Selenium | 78-2 | 60630 | 60436 | 60145 | 60404 | 0.40 | cps |
| Silicon | 28-1 | 34997369 | 35189480 | 35802246 | 35329698 | 1.19 | cps |
| Silver | 107-1 | 14177024 | 14280978 | 14475749 | 14311250 | 1.06 | cps |
| Silver | 109-1 | 13382699 | 13606676 | 13740194 | 13576523 | 1.33 | cps |
| Sodium | 23-2 | 331117875 | 329301442 | 331090555 | 330503291 | 0.31 | cps |
| Strontium | 86-1 | 3432467 | 3495541 | 3486348 | 3471452 | 0.98 | cps |
| Strontium | 88-1 | 29558775 | 30537260 | 30590990 | 30229008 | 1.92 | cps |
| Sulfur | 34-1 | 1028325 | 1037514 | 1040822 | 1035553 | 0.63 | cps |
| Terbium | 159-1 | 32818983 | 32432082 | 32289415 | 32513493 | 0.84 | cps |
| Terbium | 159-2 | 21467875 | 21595577 | 21172382 | 21411945 | 1.01 | cps |
| Thallium | 203-1 | 9774816 | 9891633 | 9797076 | 9821175 | 0.63 | cps |
| Thallium | 205-1 | 23462538 | 23648765 | 23705679 | 23605660 | 0.54 | cps |
| Tin | 118-1 | 8924210 | 9163963 | 9131223 | 9073132 | 1.43 | cps |
| Titanium | 47-1 | 12837568 | 13414106 | 13416047 | 13222574 | 2.52 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCV003 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV003 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:43:37 | DataFile Name : | 063CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 30246811 | 30954371 | 30945900 | 30715694 | 1.32 | cps |
| Vanadium | 51-2 | 4097344 | 4113095 | 4094150 | 4101529 | 0.25 | cps |
| Yttrium | 89-1 | 34789639 | 34712906 | 34603261 | 34701936 | 0.27 | cps |
| Yttrium | 89-2 | 9039573 | 9071068 | 9211152 | 9107264 | 1.00 | cps |
| Zinc | 66-2 | 8713069 | 8779425 | 8759933 | 8750809 | 0.39 | cps |
| Zirconium | 90-1 | 18545548 | 19327000 | 19396781 | 19089776 | 2.48 | cps |
| Zirconium | 91-1 | 4104067 | 4269727 | 4290828 | 4221541 | 2.42 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCB003 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB003 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:46:18 | DataFile Name : | 064CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1383 | 1080 | 1083 | 1182 | 14.73 | cps |
| Antimony | 121-1 | 5571 | 5961 | 6612 | 6048 | 8.69 | cps |
| Arsenic | 75-2 | 20 | 43 | 43 | 36 | 37.89 | cps |
| Barium | 135-1 | 3497 | 2330 | 1497 | 2441 | 41.16 | cps |
| Barium | 137-1 | 6285 | 4217 | 2617 | 4373 | 42.05 | cps |
| Beryllium | 9-1 | 306 | 278 | 206 | 263 | 19.63 | cps |
| Bismuth | 209-1 | 18774297 | 18861166 | 19019837 | 18885100 | 0.66 | cps |
| Bismuth | 209-2 | 15346914 | 15272844 | 15265061 | 15294940 | 0.30 | cps |
| Bromine | 81-1 | 16096 | 16119 | 16302 | 16172 | 0.70 | cps |
| Bromine | 81-2 | 180 | 233 | 183 | 199 | 15.02 | cps |
| Cadmium | 108-1 | 93 | 60 | 57 | 70 | 28.96 | cps |
| Cadmium | 106-1 | 9813 | 9567 | 9567 | 9649 | 1.48 | cps |
| Cadmium | 111-1 | 7557 | 7208 | 6977 | 7247 | 4.03 | cps |
| Calcium | 43-1 | 9446 | 8609 | 7792 | 8616 | 9.60 | cps |
| Calcium | 44-1 | 171929 | 152495 | 139101 | 154508 | 10.68 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 6645 | 6632 | 6468 | 6581 | 1.50 | cps |
| Cobalt | 59-2 | 370 | 357 | 353 | 360 | 2.45 | cps |
| Copper | 63-2 | 4587 | 4167 | 3674 | 4143 | 11.04 | cps |
| Dysprosium | 156-1 | 17 | 37 | 27 | 27 | 37.50 | cps |
| Dysprosium | 156-2 | 13 | 17 | 17 | 16 | 12.40 | cps |
| Erbium | 164-1 | 157 | 127 | 130 | 138 | 11.93 | cps |
| Erbium | 164-2 | 77 | 103 | 87 | 89 | 15.15 | cps |
| Gadolinium | 160-1 | 107 | 153 | 143 | 134 | 18.28 | cps |
| Gadolinium | 160-2 | 1247 | 1293 | 1297 | 1279 | 2.19 | cps |
| Holmium | 165-1 | 31346111 | 31348149 | 31485022 | 31393094 | 0.25 | cps |
| Holmium | 165-2 | 22278413 | 22172614 | 22111651 | 22187559 | 0.38 | cps |
| Indium | 115-1 | 26159026 | 26529617 | 26899911 | 26529518 | 1.40 | cps |
| Indium | 115-2 | 9563933 | 9591044 | 9507587 | 9554188 | 0.45 | cps |
| Iron | 56-2 | 74550 | 67762 | 60933 | 67748 | 10.05 | cps |
| Iron | 57-2 | 2737 | 2630 | 2464 | 2610 | 5.28 | cps |
| Iron | 54-2 | 6832 | 6878 | 6331 | 6680 | 4.54 | cps |
| Krypton | 83-1 | 210 | 297 | 337 | 281 | 23.03 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCB003 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB003 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:46:18 | DataFile Name : | 064CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 11902 | 8476 | 5771 | 8716 | 35.25 | cps |
| Lead | 207-1 | 10421 | 7205 | 5028 | 7551 | 35.93 | cps |
| Lead | 208-1 | 47530 | 33991 | 23388 | 34970 | 34.60 | cps |
| Lithium | 6-1 | 2978849 | 3076877 | 3094322 | 3050016 | 2.04 | cps |
| Magnesium | 24-2 | 9390 | 8026 | 7345 | 8253 | 12.61 | cps |
| Manganese | 55-2 | 14564 | 14497 | 14480 | 14514 | 0.30 | cps |
| Molybdenum | 94-1 | 11892 | 8833 | 6842 | 9189 | 27.68 | cps |
| Molybdenum | 95-1 | 13880 | 10154 | 7042 | 10359 | 33.05 | cps |
| Molybdenum | 96-1 | 16496 | 11728 | 7485 | 11903 | 37.87 | cps |
| Molybdenum | 97-1 | 8889 | 6291 | 4174 | 6452 | 36.61 | cps |
| Molybdenum | 98-1 | 23152 | 16303 | 10694 | 16716 | 37.32 | cps |
| Neodymium | 150-1 | 13 | 10 | 30 | 18 | 60.28 | cps |
| Neodymium | 150-2 | 7 | 13 | 23 | 14 | 58.06 | cps |
| Nickel | 60-2 | 870 | 757 | 747 | 791 | 8.66 | cps |
| Phosphorus | 31-2 | 383 | 417 | 397 | 399 | 4.21 | cps |
| Potassium | 39-2 | 82469 | 81500 | 80994 | 81654 | 0.92 | cps |
| Rhodium | 103-1 | 24917339 | 25354121 | 25519869 | 25263776 | 1.23 | cps |
| Rhodium | 103-2 | 15249763 | 15290924 | 15358647 | 15299778 | 0.36 | cps |
| Scandium | 45-1 | 14027720 | 14344492 | 14199139 | 14190450 | 1.12 | cps |
| Scandium | 45-2 | 1318319 | 1340798 | 1310763 | 1323293 | 1.18 | cps |
| Selenium | 82-1 | 597 | 400 | 339 | 445 | 30.38 | cps |
| Selenium | 77-2 | 0 | 3 | 3 | 2 | 86.60 | cps |
| Selenium | 78-2 | 497 | 470 | 537 | 501 | 6.70 | cps |
| Silicon | 28-1 | 862980 | 849277 | 842228 | 851495 | 1.24 | cps |
| Silver | 107-1 | 4024 | 2347 | 1360 | 2577 | 52.26 | cps |
| Silver | 109-1 | 3851 | 2247 | 1313 | 2470 | 51.95 | cps |
| Sodium | 23-2 | 79775 | 77222 | 76797 | 77931 | 2.07 | cps |
| Strontium | 86-1 | 1847 | 1360 | 1253 | 1487 | 21.28 | cps |
| Strontium | 88-1 | 11048 | 8686 | 6772 | 8835 | 24.24 | cps |
| Sulfur | 34-1 | 286480 | 285647 | 286761 | 286296 | 0.20 | cps |
| Terbium | 159-1 | 32200622 | 32125552 | 32199738 | 32175304 | 0.13 | cps |
| Terbium | 159-2 | 21979680 | 21778897 | 21848222 | 21868933 | 0.47 | cps |
| Thallium | 203-1 | 2877 | 1837 | 1120 | 1945 | 45.43 | cps |
| Thallium | 205-1 | 6738 | 4341 | 2834 | 4638 | 42.46 | cps |
| Tin | 118-1 | 10491 | 10134 | 9433 | 10019 | 5.37 | cps |
| Titanium | 47-1 | 3470 | 2690 | 1553 | 2571 | 37.49 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCB003 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB003 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:46:18 | DataFile Name : | 064CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 6992 | 4778 | 2970 | 4913 | 41.00 | cps |
| Vanadium | 51-2 | 150 | 127 | 117 | 131 | 13.04 | cps |
| Yttrium | 89-1 | 34692954 | 35489551 | 35458675 | 35213727 | 1.28 | cps |
| Yttrium | 89-2 | 9365108 | 9397907 | 9336563 | 9366526 | 0.33 | cps |
| Zinc | 66-2 | 14367 | 14327 | 14300 | 14331 | 0.23 | cps |
| Zirconium | 90-1 | 9740 | 8876 | 8469 | 9028 | 7.19 | cps |
| Zirconium | 91-1 | 2180 | 1997 | 1780 | 1986 | 10.08 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-19 | Instrumnet Name : | P7 |
| Client Sample ID : | E29S9 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:49:32 | DataFile Name : | 065SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 680 | 543 | 697 | 640 | 13.15 | cps |
| Antimony | 121-1 | 657 | 863 | 1260 | 927 | 33.09 | cps |
| Arsenic | 75-2 | 20 | 10 | 17 | 16 | 32.73 | cps |
| Barium | 135-1 | 283 | 257 | 357 | 299 | 17.33 | cps |
| Barium | 137-1 | 543 | 457 | 650 | 550 | 17.61 | cps |
| Beryllium | 9-1 | 78 | 89 | 106 | 91 | 15.41 | cps |
| Bismuth | 209-1 | 20901096 | 20560820 | 20832479 | 20764798 | 0.87 | cps |
| Bismuth | 209-2 | 16199478 | 16320146 | 16211903 | 16243842 | 0.41 | cps |
| Bromine | 81-1 | 16696 | 16499 | 16189 | 16462 | 1.55 | cps |
| Bromine | 81-2 | 180 | 230 | 207 | 206 | 12.17 | cps |
| Cadmium | 108-1 | 30 | 20 | 30 | 27 | 21.65 | cps |
| Cadmium | 106-1 | 10918 | 10511 | 10651 | 10693 | 1.93 | cps |
| Cadmium | 111-1 | 7671 | 7387 | 7508 | 7522 | 1.90 | cps |
| Calcium | 43-1 | 2644 | 2457 | 2590 | 2564 | 3.75 | cps |
| Calcium | 44-1 | 55515 | 54772 | 55127 | 55138 | 0.67 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 11272 | 10862 | 11684 | 11273 | 3.64 | cps |
| Cobalt | 59-2 | 387 | 343 | 337 | 356 | 7.64 | cps |
| Copper | 63-2 | 3104 | 2820 | 2957 | 2960 | 4.79 | cps |
| Dysprosium | 156-1 | 10 | 17 | 7 | 11 | 45.82 | cps |
| Dysprosium | 156-2 | 3 | 3 | 17 | 8 | 99.04 | cps |
| Erbium | 164-1 | 140 | 117 | 130 | 129 | 9.08 | cps |
| Erbium | 164-2 | 90 | 113 | 90 | 98 | 13.78 | cps |
| Gadolinium | 160-1 | 150 | 147 | 187 | 161 | 13.78 | cps |
| Gadolinium | 160-2 | 1280 | 1307 | 1347 | 1311 | 2.56 | cps |
| Holmium | 165-1 | 34880447 | 34219247 | 34073129 | 34390941 | 1.25 | cps |
| Holmium | 165-2 | 23341785 | 23137906 | 23253390 | 23244361 | 0.44 | cps |
| Indium | 115-1 | 29659364 | 29345786 | 28885545 | 29296899 | 1.33 | cps |
| Indium | 115-2 | 10281728 | 10215132 | 10053821 | 10183560 | 1.15 | cps |
| Iron | 56-2 | 69861 | 64123 | 72838 | 68941 | 6.43 | cps |
| Iron | 57-2 | 2420 | 3007 | 2617 | 2681 | 11.14 | cps |
| Iron | 54-2 | 5888 | 5935 | 5961 | 5928 | 0.63 | cps |
| Krypton | 83-1 | 260 | 233 | 283 | 259 | 9.66 | cps |

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-19 | Instrumnet Name : | P7 |
| Client Sample ID : | E29S9 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:49:32 | DataFile Name : | 065SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 2007 | 1877 | 1907 | 1930 | 3.53 | cps |
| Lead | 207-1 | 1653 | 1617 | 1670 | 1647 | 1.66 | cps |
| Lead | 208-1 | 7584 | 7378 | 7554 | 7505 | 1.49 | cps |
| Lithium | 6-1 | 3489777 | 3357064 | 3333158 | 3393333 | 2.49 | cps |
| Magnesium | 24-2 | 2650 | 2847 | 2854 | 2784 | 4.15 | cps |
| Manganese | 55-2 | 4681 | 4564 | 4354 | 4533 | 3.65 | cps |
| Molybdenum | 94-1 | 1307 | 963 | 2081 | 1450 | 39.48 | cps |
| Molybdenum | 95-1 | 807 | 840 | 1855 | 1167 | 51.03 | cps |
| Molybdenum | 96-1 | 970 | 950 | 1540 | 1153 | 29.06 | cps |
| Molybdenum | 97-1 | 547 | 473 | 1662 | 894 | 74.52 | cps |
| Molybdenum | 98-1 | 1230 | 1280 | 2324 | 1611 | 38.34 | cps |
| Neodymium | 150-1 | 10 | 13 | 23 | 16 | 44.60 | cps |
| Neodymium | 150-2 | 3 | 10 | 7 | 7 | 50.03 | cps |
| Nickel | 60-2 | 2880 | 3210 | 3357 | 3149 | 7.75 | cps |
| Phosphorus | 31-2 | 363 | 350 | 353 | 356 | 1.95 | cps |
| Potassium | 39-2 | 80642 | 79315 | 80351 | 80103 | 0.87 | cps |
| Rhodium | 103-1 | 28347999 | 27553053 | 27429994 | 27777015 | 1.79 | cps |
| Rhodium | 103-2 | 16311394 | 16430980 | 16184701 | 16309025 | 0.76 | cps |
| Scandium | 45-1 | 15808927 | 15609073 | 15690663 | 15702888 | 0.64 | cps |
| Scandium | 45-2 | 1391503 | 1365465 | 1386771 | 1381246 | 1.00 | cps |
| Selenium | 82-1 | 572 | 516 | 578 | 556 | 6.18 | cps |
| Selenium | 77-2 | 3 | 3 | 0 | 2 | 86.60 | cps |
| Selenium | 78-2 | 440 | 473 | 570 | 494 | 13.66 | cps |
| Silicon | 28-1 | 777058 | 793214 | 795181 | 788484 | 1.26 | cps |
| Silver | 107-1 | 333 | 287 | 407 | 342 | 17.68 | cps |
| Silver | 109-1 | 270 | 203 | 280 | 251 | 16.60 | cps |
| Sodium | 23-2 | 56506 | 55985 | 56095 | 56195 | 0.49 | cps |
| Strontium | 86-1 | 940 | 747 | 3727 | 1804 | 92.41 | cps |
| Strontium | 88-1 | 3951 | 3824 | 39890 | 15888 | 130.83 | cps |
| Sulfur | 34-1 | 291451 | 296332 | 292025 | 293269 | 0.91 | cps |
| Terbium | 159-1 | 35848764 | 35641526 | 35213918 | 35568069 | 0.91 | cps |
| Terbium | 159-2 | 23112158 | 23166574 | 22908240 | 23062324 | 0.59 | cps |
| Thallium | 203-1 | 527 | 587 | 483 | 532 | 9.75 | cps |
| Thallium | 205-1 | 1353 | 1207 | 1303 | 1288 | 5.79 | cps |
| Tin | 118-1 | 6852 | 6772 | 7145 | 6923 | 2.84 | cps |
| Titanium | 47-1 | 310 | 213 | 317 | 280 | 20.65 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | P4877-19 | Instrumnet Name : | P7 |
| Client Sample ID : | E29S9 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:49:32 | DataFile Name : | 065SMPL.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 123 | 77 | 147 | 116 | 30.84 | cps |
| Vanadium | 51-2 | 113 | 137 | 113 | 121 | 11.12 | cps |
| Yttrium | 89-1 | 39199736 | 38834313 | 38310663 | 38781571 | 1.15 | cps |
| Yttrium | 89-2 | 9828264 | 9674894 | 9748368 | 9750509 | 0.79 | cps |
| Zinc | 66-2 | 3951 | 3690 | 3821 | 3821 | 3.40 | cps |
| Zirconium | 90-1 | 1777 | 1790 | 2354 | 1974 | 16.69 | cps |
| Zirconium | 91-1 | 350 | 357 | 473 | 393 | 17.64 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCV004 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV004 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:52:48 | DataFile Name : | 066CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 24363526 | 24417166 | 24402159 | 24394284 | 0.11 | cps |
| Antimony | 121-1 | 11151216 | 11341682 | 11355144 | 11282680 | 1.01 | cps |
| Arsenic | 75-2 | 619284 | 616510 | 615604 | 617133 | 0.31 | cps |
| Barium | 135-1 | 13556764 | 13720710 | 13629894 | 13635789 | 0.60 | cps |
| Barium | 137-1 | 23265505 | 23665420 | 23641780 | 23524235 | 0.95 | cps |
| Beryllium | 9-1 | 1086959 | 1096856 | 1096278 | 1093365 | 0.51 | cps |
| Bismuth | 209-1 | 18072891 | 18035721 | 17692676 | 17933763 | 1.17 | cps |
| Bismuth | 209-2 | 13841811 | 13948368 | 13758126 | 13849435 | 0.69 | cps |
| Bromine | 81-1 | 17477 | 17741 | 17731 | 17650 | 0.85 | cps |
| Bromine | 81-2 | 190 | 220 | 200 | 203 | 7.51 | cps |
| Cadmium | 108-1 | 222149 | 225129 | 225492 | 224257 | 0.82 | cps |
| Cadmium | 106-1 | 318491 | 326290 | 323434 | 322738 | 1.22 | cps |
| Cadmium | 111-1 | 2965898 | 3007183 | 3015461 | 2996181 | 0.89 | cps |
| Calcium | 43-1 | 13989695 | 14077578 | 14183602 | 14083625 | 0.69 | cps |
| Calcium | 44-1 | 226669510 | 229451923 | 230026457 | 228715963 | 0.78 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 4666807 | 4660420 | 4680112 | 4669113 | 0.22 | cps |
| Cobalt | 59-2 | 7547807 | 7577988 | 7540814 | 7555536 | 0.26 | cps |
| Copper | 63-2 | 54418304 | 54341428 | 54585193 | 54448308 | 0.23 | cps |
| Dysprosium | 156-1 | 683 | 620 | 620 | 641 | 5.70 | cps |
| Dysprosium | 156-2 | 927 | 933 | 953 | 938 | 1.48 | cps |
| Erbium | 164-1 | 640 | 633 | 640 | 638 | 0.60 | cps |
| Erbium | 164-2 | 500 | 480 | 460 | 480 | 4.17 | cps |
| Gadolinium | 160-1 | 673 | 527 | 593 | 598 | 12.29 | cps |
| Gadolinium | 160-2 | 1537 | 1477 | 1633 | 1549 | 5.10 | cps |
| Holmium | 165-1 | 32887200 | 32192926 | 31873470 | 32317865 | 1.60 | cps |
| Holmium | 165-2 | 22310382 | 22232586 | 21896353 | 22146440 | 0.99 | cps |
| Indium | 115-1 | 26257926 | 26192592 | 25958886 | 26136468 | 0.60 | cps |
| Indium | 115-2 | 9158704 | 9069880 | 9038509 | 9089031 | 0.69 | cps |
| Iron | 56-2 | 1049305851 | 1044468544 | 1044979184 | 1046251193 | 0.25 | cps |
| Iron | 57-2 | 26191530 | 26287091 | 26274975 | 26251199 | 0.20 | cps |
| Iron | 54-2 | 57180944 | 57506027 | 57341082 | 57342685 | 0.28 | cps |
| Krypton | 83-1 | 310 | 333 | 253 | 299 | 13.76 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCV004 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV004 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:52:48 | DataFile Name : | 066CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 38879839 | 39349404 | 39135600 | 39121614 | 0.60 | cps |
| Lead | 207-1 | 33940009 | 34560750 | 34332589 | 34277783 | 0.92 | cps |
| Lead | 208-1 | 154920550 | 157298519 | 156004339 | 156074470 | 0.76 | cps |
| Lithium | 6-1 | 3158325 | 3068316 | 3053771 | 3093471 | 1.83 | cps |
| Magnesium | 24-2 | 216089963 | 214230037 | 215555163 | 215291721 | 0.44 | cps |
| Manganese | 55-2 | 35643124 | 35983684 | 35672335 | 35766381 | 0.53 | cps |
| Molybdenum | 94-1 | 39439634 | 40889169 | 40830634 | 40386479 | 2.03 | cps |
| Molybdenum | 95-1 | 58325831 | 59452316 | 58976412 | 58918186 | 0.96 | cps |
| Molybdenum | 96-1 | 63733376 | 65316116 | 64356072 | 64468521 | 1.24 | cps |
| Molybdenum | 97-1 | 35944199 | 36736361 | 36537991 | 36406184 | 1.13 | cps |
| Molybdenum | 98-1 | 92249839 | 94590025 | 94478065 | 93772643 | 1.41 | cps |
| Neodymium | 150-1 | 917 | 920 | 960 | 932 | 2.59 | cps |
| Neodymium | 150-2 | 310 | 267 | 297 | 291 | 7.62 | cps |
| Nickel | 60-2 | 1919280 | 1929213 | 1903621 | 1917371 | 0.67 | cps |
| Phosphorus | 31-2 | 245661 | 244652 | 243939 | 244751 | 0.35 | cps |
| Potassium | 39-2 | 124374418 | 124339565 | 124544618 | 124419534 | 0.09 | cps |
| Rhodium | 103-1 | 24054615 | 23966855 | 23734155 | 23918542 | 0.69 | cps |
| Rhodium | 103-2 | 13994120 | 14075318 | 13892745 | 13987394 | 0.65 | cps |
| Scandium | 45-1 | 15067909 | 14867438 | 14732722 | 14889356 | 1.13 | cps |
| Scandium | 45-2 | 1295537 | 1300549 | 1306569 | 1300885 | 0.42 | cps |
| Selenium | 82-1 | 175843 | 179270 | 178000 | 177704 | 0.98 | cps |
| Selenium | 77-2 | 17971 | 18348 | 18695 | 18338 | 1.98 | cps |
| Selenium | 78-2 | 61678 | 61701 | 61440 | 61606 | 0.23 | cps |
| Silicon | 28-1 | 36447594 | 36977916 | 36697997 | 36707836 | 0.72 | cps |
| Silver | 107-1 | 14603360 | 14786486 | 14747093 | 14712313 | 0.66 | cps |
| Silver | 109-1 | 14057661 | 14098761 | 14078637 | 14078353 | 0.15 | cps |
| Sodium | 23-2 | 333188208 | 337090348 | 336826115 | 335701557 | 0.65 | cps |
| Strontium | 86-1 | 3576849 | 3614509 | 3600284 | 3597214 | 0.53 | cps |
| Strontium | 88-1 | 30959488 | 31306327 | 31525209 | 31263675 | 0.91 | cps |
| Sulfur | 34-1 | 1058615 | 1065367 | 1061993 | 1061992 | 0.32 | cps |
| Terbium | 159-1 | 33477289 | 33080829 | 32656548 | 33071555 | 1.24 | cps |
| Terbium | 159-2 | 21744742 | 21583466 | 21442676 | 21590295 | 0.70 | cps |
| Thallium | 203-1 | 9913080 | 9946855 | 9990750 | 9950229 | 0.39 | cps |
| Thallium | 205-1 | 23607881 | 23507905 | 23636380 | 23584056 | 0.29 | cps |
| Tin | 118-1 | 9171614 | 9235981 | 9349649 | 9252415 | 0.97 | cps |
| Titanium | 47-1 | 13686925 | 13874793 | 13846868 | 13802862 | 0.73 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCV004 | Instrumnet Name : | P7 |
| Client Sample ID : | CCV004 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:52:48 | DataFile Name : | 066CCV.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 30113240 | 31025607 | 31092917 | 30743921 | 1.78 | cps |
| Vanadium | 51-2 | 4113476 | 4106413 | 4180289 | 4133393 | 0.99 | cps |
| Yttrium | 89-1 | 36527922 | 36290861 | 36006486 | 36275090 | 0.72 | cps |
| Yttrium | 89-2 | 9192388 | 9224307 | 9153720 | 9190138 | 0.38 | cps |
| Zinc | 66-2 | 8917917 | 8842598 | 8811407 | 8857307 | 0.62 | cps |
| Zirconium | 90-1 | 19448979 | 19982778 | 19947100 | 19792952 | 1.51 | cps |
| Zirconium | 91-1 | 4297900 | 4401124 | 4459044 | 4386022 | 1.86 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCB004 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB004 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:55:27 | DataFile Name : | 067CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Aluminium | 27-2 | 1140 | 970 | 730 | 947 | 21.76 | cps |
| Antimony | 121-1 | 6351 | 5985 | 7372 | 6569 | 10.94 | cps |
| Arsenic | 75-2 | 30 | 67 | 30 | 42 | 50.14 | cps |
| Barium | 135-1 | 4031 | 2447 | 1187 | 2555 | 55.78 | cps |
| Barium | 137-1 | 7605 | 4144 | 2327 | 4692 | 57.15 | cps |
| Beryllium | 9-1 | 511 | 300 | 317 | 376 | 31.22 | cps |
| Bismuth | 209-1 | 18884663 | 19155677 | 18890032 | 18976791 | 0.82 | cps |
| Bismuth | 209-2 | 15496885 | 15475012 | 15418570 | 15463489 | 0.26 | cps |
| Bromine | 81-1 | 16259 | 16506 | 16366 | 16377 | 0.76 | cps |
| Bromine | 81-2 | 167 | 160 | 167 | 164 | 2.34 | cps |
| Cadmium | 108-1 | 90 | 57 | 40 | 62 | 40.91 | cps |
| Cadmium | 106-1 | 10357 | 9743 | 10000 | 10034 | 3.07 | cps |
| Cadmium | 111-1 | 8174 | 7447 | 7332 | 7651 | 5.96 | cps |
| Calcium | 43-1 | 10794 | 8929 | 7662 | 9128 | 17.26 | cps |
| Calcium | 44-1 | 185953 | 158342 | 136532 | 160276 | 15.45 | cps |
| Carbon | 12-1 | | | | | | cps |
| Carbon | 12-2 | | | | | | cps |
| Chlorine | 35-1 | | | | | | cps |
| Chlorine | 35-2 | | | | | | cps |
| Chromium | 52-2 | 6985 | 7072 | 6722 | 6926 | 2.63 | cps |
| Cobalt | 59-2 | 333 | 360 | 323 | 339 | 5.59 | cps |
| Copper | 63-2 | 4287 | 3857 | 3540 | 3895 | 9.62 | cps |
| Dysprosium | 156-1 | 23 | 10 | 13 | 16 | 44.60 | cps |
| Dysprosium | 156-2 | 7 | 10 | 10 | 9 | 21.63 | cps |
| Erbium | 164-1 | 120 | 93 | 173 | 129 | 31.61 | cps |
| Erbium | 164-2 | 77 | 77 | 73 | 76 | 2.55 | cps |
| Gadolinium | 160-1 | 140 | 117 | 117 | 124 | 10.82 | cps |
| Gadolinium | 160-2 | 1310 | 1183 | 1360 | 1285 | 7.09 | cps |
| Holmium | 165-1 | 31493523 | 31595470 | 31558432 | 31549142 | 0.16 | cps |
| Holmium | 165-2 | 22243661 | 22178314 | 22383680 | 22268552 | 0.47 | cps |
| Indium | 115-1 | 26414620 | 27024739 | 26920503 | 26786620 | 1.22 | cps |
| Indium | 115-2 | 9745925 | 9566034 | 9594658 | 9635539 | 1.00 | cps |
| Iron | 56-2 | 67176 | 59882 | 54906 | 60655 | 10.17 | cps |
| Iron | 57-2 | 2354 | 2337 | 2214 | 2301 | 3.32 | cps |
| Iron | 54-2 | 6652 | 6078 | 5928 | 6219 | 6.14 | cps |
| Krypton | 83-1 | 223 | 293 | 233 | 250 | 15.14 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCB004 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB004 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:55:27 | DataFile Name : | 067CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Lead | 206-1 | 14434 | 9003 | 5708 | 9715 | 45.36 | cps |
| Lead | 207-1 | 12589 | 7619 | 4868 | 8359 | 46.82 | cps |
| Lead | 208-1 | 57348 | 35606 | 22117 | 38357 | 46.34 | cps |
| Lithium | 6-1 | 3147698 | 3176982 | 3165522 | 3163401 | 0.47 | cps |
| Magnesium | 24-2 | 7699 | 6275 | 6098 | 6690 | 13.12 | cps |
| Manganese | 55-2 | 15191 | 14474 | 14227 | 14631 | 3.42 | cps |
| Molybdenum | 94-1 | 14127 | 9263 | 6838 | 10076 | 36.84 | cps |
| Molybdenum | 95-1 | 17948 | 10437 | 6135 | 11507 | 51.96 | cps |
| Molybdenum | 96-1 | 20007 | 12162 | 7202 | 13124 | 49.20 | cps |
| Molybdenum | 97-1 | 11481 | 6925 | 3934 | 7447 | 51.04 | cps |
| Molybdenum | 98-1 | 28762 | 16863 | 9853 | 18493 | 51.69 | cps |
| Neodymium | 150-1 | 17 | 27 | 20 | 21 | 24.12 | cps |
| Neodymium | 150-2 | 10 | 17 | 10 | 12 | 31.50 | cps |
| Nickel | 60-2 | 790 | 730 | 783 | 768 | 4.28 | cps |
| Phosphorus | 31-2 | 400 | 407 | 480 | 429 | 10.35 | cps |
| Potassium | 39-2 | 83983 | 83514 | 83909 | 83802 | 0.30 | cps |
| Rhodium | 103-1 | 25231710 | 25450846 | 25632929 | 25438495 | 0.79 | cps |
| Rhodium | 103-2 | 15466987 | 15435371 | 15553607 | 15485322 | 0.40 | cps |
| Scandium | 45-1 | 14229858 | 14293929 | 14447312 | 14323700 | 0.78 | cps |
| Scandium | 45-2 | 1322141 | 1302433 | 1309294 | 1311289 | 0.76 | cps |
| Selenium | 82-1 | 630 | 478 | 499 | 536 | 15.34 | cps |
| Selenium | 77-2 | 7 | 7 | 3 | 6 | 34.70 | cps |
| Selenium | 78-2 | 427 | 477 | 487 | 463 | 6.94 | cps |
| Silicon | 28-1 | 850867 | 845091 | 835342 | 843767 | 0.93 | cps |
| Silver | 107-1 | 4724 | 2717 | 1233 | 2892 | 60.59 | cps |
| Silver | 109-1 | 4761 | 2500 | 1130 | 2797 | 65.55 | cps |
| Sodium | 23-2 | 79329 | 78267 | 76542 | 78046 | 1.80 | cps |
| Strontium | 86-1 | 1890 | 1473 | 1130 | 1498 | 25.41 | cps |
| Strontium | 88-1 | 12952 | 8829 | 6328 | 9370 | 35.70 | cps |
| Sulfur | 34-1 | 284011 | 286897 | 287950 | 286286 | 0.71 | cps |
| Terbium | 159-1 | 32416407 | 32029521 | 32357805 | 32267911 | 0.65 | cps |
| Terbium | 159-2 | 22112282 | 22068608 | 22074766 | 22085219 | 0.11 | cps |
| Thallium | 203-1 | 3397 | 2074 | 1100 | 2190 | 52.64 | cps |
| Thallium | 205-1 | 8309 | 4577 | 2730 | 5206 | 54.60 | cps |
| Tin | 118-1 | 11591 | 10154 | 8916 | 10220 | 13.10 | cps |
| Titanium | 47-1 | 4177 | 2550 | 1280 | 2669 | 54.41 | cps |

Reviewed By:Mohan
On:11/25/2024 6:19:44 AM
Inst Id :P7

| | | | |
|---|---|---|---|
| LB Number : | LB133596 | Operator : | Jaswal |
| Lab Sample ID : | CCB004 | Instrumnet Name : | P7 |
| Client Sample ID : | CCB004 | Dilution Factor : | 1 |
| Date & Time Acquired : | 2024-11-22 16:55:27 | DataFile Name : | 067CCBE.d |

| Parameter | Mass | CPS1 | CPS2 | CPS3 | CPSMean | CPSRSD | Units |
|---|---|---|---|---|---|---|---|
| Uranium | 238-1 | 8790 | 5295 | 2427 | 5504 | 57.90 | cps |
| Vanadium | 51-2 | 120 | 117 | 77 | 104 | 23.09 | cps |
| Yttrium | 89-1 | 35120198 | 35529002 | 35846302 | 35498501 | 1.03 | cps |
| Yttrium | 89-2 | 9293363 | 9281397 | 9374302 | 9316354 | 0.54 | cps |
| Zinc | 66-2 | 14147 | 14571 | 14247 | 14321 | 1.55 | cps |
| Zirconium | 90-1 | 11395 | 9506 | 9266 | 10056 | 11.59 | cps |
| Zirconium | 91-1 | 2424 | 1997 | 1917 | 2112 | 12.90 | cps |

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

# Prep Standard - Chemical Standard Summary

**Order ID :** P4877

**Test :** Metals CLP MS

**Prepbatch ID :** PB165157,

**Sequence ID/Qc Batch ID:** LB133596,

**Standard ID :**
MP83014,MP83016,MP83032,MP83033,MP83034,MP83035,MP83036,MP83037,MP83038,MP83039,MP83041,MP83042,MP83043,MP83044,MP83045,MP83047,MP83048,MP83049,MP83050,MP83105,MP83122,

**Chemical ID :**
M5192,M5288,M5289,M5294,M5304,M5390,M5476,M5497,M5498,M5513,M5515,M5519,M5658,M5698,M5739,M5751,M5769,M5798,M5799,M5800,M5801,M5802,M5806,M5815,M5816,M5817,M5818,M5819,M5820,M5873,M5874,M5961,M5962,M5976,M5978,M5981,M5982,M5983,M5993,M5999,M6021,M6023,M6025,M6028,M6030,M6033,M6055,M6095,M6111,M6115,M6116,W3112,

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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 |
|---|---|---|---|---|---|---|---|---|
| 1122 | ICPMS CALIB BLANK(S0/ICB/CCB) | MP83014 | 11/02/2024 | 11/25/2024 | Sarabjit Jaswal | None | None | Mohan Bera 11/04/2024 |

**FROM** 25.00000ml of M6095 + 4925.00000ml of W3112 + 50.00000ml of M6115 = Final Quantity: 5000.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 2902 | S8 ICPMS | MP83016 | 11/02/2024 | 11/25/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 11/04/2024 |

**FROM** 1.00000ml of M6033 + 2.50000ml of M5288 + 2.50000ml of M5515 + 5.00000ml of M5498 + 5.00000ml of M5769 + 5.00000ml of M5806 + 79.00000ml of MP83014 = 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) | MP83032 | 11/02/2024 | 11/25/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 11/04/2024 |

**FROM** 0.40000ml of M5513 + 1.00000ml of M5799 + 1.00000ml of M5818 + 1.00000ml of M5981 + 1.00000ml of M5983 + 1.90000ml of M6033 + 10.00000ml of M6115 + 2.00000ml of M5815 + 2.00000ml of M5817 + 2.50000ml of M5476 + 4.00000ml of M5390 + 4.90000ml of M5515 + 4.90000ml of M5519 + 5.00000ml of M6095 + 50.00000ml of M5304 + 832.80000ml of W3112 + 9.00000ml of M5698 + 9.00000ml of M5819 + 9.00000ml of M5976 + 9.00000ml of M5978 + 9.90000ml of M5498 + 9.90000ml of M5751 + 9.90000ml of M5769 + 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) | MP83033 | 11/02/2024 | 11/25/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 11/04/2024 |

**FROM** 0.50000ml of M6095 + 1.00000ml of M6115 + 48.50000ml of W3112 + 50.00000ml of MP83032 = Final Quantity: 100.000 ml

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Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3954 | S4(SFAM,6020,200.8) | MP83034 | 11/02/2024 | 11/25/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 11/04/2024 |

**FROM** 0.50000ml of M6095 + 1.00000ml of M6115 + 86.00000ml of W3112 + 12.50000ml of MP83032 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3949 | S5(SFAM,6020,200.8) | MP83035 | 11/02/2024 | 11/25/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 11/04/2024 |

**FROM** 0.50000ml of M6095 + 1.00000ml of M6115 + 73.50000ml of W3112 + 25.00000ml of MP83032 = Final Quantity: 100.000 ml

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Fax : 908 789 8922

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3951 | S3(SFAM, 6020,200.8) | MP83036 | 11/02/2024 | 11/25/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 11/04/2024 |

**FROM** 0.50000ml of M6095 + 1.00000ml of M6115 + 88.50000ml of W3112 + 10.00000ml of MP83033 = 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) | MP83037 | 11/02/2024 | 11/25/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 11/04/2024 |

**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 M5751 + 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 M6095 + 226.25000ml of W3112 + 5.00000ml of M6115 = 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) | MP83038 | 11/02/2024 | 11/25/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 11/04/2024 |

**FROM** 0.50000ml of M6095 + 1.00000ml of M6115 + 98.00000ml of W3112 + 0.50000ml of MP83037 = 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) | MP83039 | 11/02/2024 | 11/25/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 11/04/2024 |

**FROM** 0.50000ml of M6095 + 1.00000ml of M6115 + 88.50000ml of W3112 + 10.00000ml of MP83038 = 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) | MP83041 | 11/02/2024 | 11/25/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 11/04/2024 |

**FROM** 2.00000ml of M5294 + 98.00000ml of MP83014 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3961 | CCV | MP83042 | 11/02/2024 | 11/25/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 11/04/2024 |

**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 M5476 + 10.00000ml of M6115 + 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 M5698 + 4.50000ml of M5751 + 4.50000ml of M5819 + 4.95000ml of M6033 + 5.00000ml of M5976 + 5.00000ml of M5978 + 5.00000ml of M6095 + 823.45000ml 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 | MP83043 | 11/02/2024 | 11/25/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 11/04/2024 |

**FROM** 10.00000ml of M5873 + 90.00000ml of MP83014 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1143 | ICSAB ICPMS | MP83044 | 11/02/2024 | 11/25/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 11/04/2024 |

**FROM** 10.00000ml of M5873 + 10.00000ml of M5874 + 80.00000ml of MP83014 = 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 |
|---|---|---|---|---|---|---|---|---|
| 3963 | CONC.LCSW SPIKE | MP83045 | 11/02/2024 | 11/25/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 11/04/2024 |

**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 M5289 + 0.10000ml of M5658 + 0.10000ml of M5751 + 0.10000ml of M5802 + 0.25000ml of M5192 + 0.25000ml of M5799 + 0.25000ml of M5819 + 0.25000ml of M5962 + 0.25000ml of M5978 + 0.25000ml of M6021 + 0.50000ml of M5390 + 0.50000ml of M5818 + 1.00000ml of M5515 + 1.00000ml of M5816 + 1.25000ml of M5820 + 2.50000ml of M5497 + 2.50000ml of M5519 + 2.50000ml of M5769 + 2.50000ml of M5806 + 2.50000ml of M6095 + 225.75000ml of W3112 + 5.00000ml of M6115 = Final Quantity: 250.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 870 | ICPMS SPIKE SOL.B | MP83047 | 11/02/2024 | 11/25/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 11/04/2024 |

**FROM** 0.45000ml of M5962 + 5.00000ml of M5993 + 5.00000ml of M5999 + 39.55000ml of MP83014 = 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 |
|---|---|---|---|---|---|---|---|---|
| 3962 | MG 10PPM FOR TUNE | MP83048 | 11/02/2024 | 11/25/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 11/04/2024 |

**FROM** 0.01000ml of M5769 + 9.99000ml of MP83014 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3894 | TUNE 200PPB | MP83049 | 11/02/2024 | 11/25/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 11/04/2024 |

**FROM** 2.00000ml of M6055 + 2.00000ml of MP83048 + 98.00000ml of MP83014 = 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 | MP83050 | 11/02/2024 | 11/25/2024 | Sarabjit Jaswal | None | METALS_PIPETTE_3 (A) | Mohan Bera 11/04/2024 |

**FROM** 5.00000ml of M6115 + 75.00000ml of M5739 + 170.00000ml of MP83014 = Final Quantity: 250.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 170 | 1:1HCL | MP83105 | 11/07/2024 | 12/06/2024 | Janvi Patel | None | None | Sarabjit Jaswal 11/07/2024 |

**FROM** 1000.00000ml of M6111 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

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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 | MP83122 | 11/07/2024 | 12/06/2024 | Janvi Patel | None | None | Sarabjit Jaswal 11/07/2024 |

**FROM** 1000.00000ml of M6116 + 1000.00000ml of W3112 = Final Quantity: 2000.000 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 # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58113 / Aluminum (Al) 10,000PPM | 070622 | 07/06/2025 | 09/02/2022 / jaswal | 07/12/2022 / jaswal | M5289 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| EPA | ICV-1 / ICV ( ICP/ICPMS ) STOCK SOLN | ICV-1014 | 01/01/2025 | 12/13/2023 / bin | 02/20/2020 / bin | M5294 |

| 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 |

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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. | 58120 / Ca, 10000 PPM, 500 ml | 031523 | 03/15/2026 | 03/18/2023 / bin | 03/17/2023 / bin | M5497 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58120 / Ca, 10000 PPM, 500 ml | 031523 | 03/15/2026 | 08/15/2023 / jaswal | 03/17/2023 / bin | M5498 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57182 / Pb, 10000 PPM, 125 ml | 061522 | 06/15/2025 | 03/19/2023 / bin | 03/17/2023 / bin | M5513 |

| 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. | 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 | 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 |

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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. | 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 |

| 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 |

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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. | 57016 / S, 1000 PPM, 125 ml | 122923 | 12/29/2026 | 05/20/2024 / Jaswal | 02/09/2024 / jaswal | M5816 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57116 / S, 10000 PPM, 125 ml | 071123 | 07/11/2026 | 03/01/2024 / jaswal | 02/09/2024 / jaswal | M5817 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57014 / Si, 1000 PPM, 125 ml | 122023 | 12/20/2026 | 03/06/2024 / jaswal | 02/09/2024 / jaswal | M5818 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 58030 / Zinc, Zn, 500 ml, 1000 PPM | 111623 | 11/16/2026 | 03/20/2024 / jaswal | 02/09/2024 / jaswal | M5819 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57015 / P, 1000 PPM, 125 ml | 091123 | 09/11/2026 | 05/01/2024 / jaswal | 02/09/2024 / jaswal | M5820 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| 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 # |
|---|---|---|---|---|---|---|
| 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 |

| 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 |

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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. | 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 # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | CLPP-SPK-4 / SOIL/WATER SPIKE SOLN 4, 125mL | V2-MEB742036 | 03/12/2029 | 10/04/2024 / Jaswal | 02/22/2024 / Jaswal | M5993 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | CLPP-SPK-1 / SOIL/WATER SPIKE SOLN 1, 125mL | T2-MEB721963 | 07/27/2027 | 09/04/2024 / Jaswal | 02/22/2024 / kareem | M5999 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57023 / V, 1000 PPM, 125 ml | 062424 | 06/24/2027 | 09/28/2024 / jaswal | 08/05/2024 / Jaswal | M6021 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57081 / Tl, 1000 PPM, 125 ml | 0624724 | 06/27/2027 | 08/05/2024 / kareem | 08/05/2024 / Jaswal | M6023 |

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

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57082 / Pb, 1000 PPM, 125 ml | 061224 | 06/12/2027 | 08/05/2024 / Jaswal | 08/05/2024 / Jaswal | M6025 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 57048 / Cd, 1000 PPM, 125 ml | 070124 | 07/01/2027 | 08/05/2024 / kareem | 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 # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | IV-STOCK-12 / ICP-MS TUNING SOLUTION, 125mL | U2-MEB734294 | 06/21/2028 | 08/21/2024 / Jaswal | 08/19/2024 / Jaswal | M6055 |

| 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) | | 03/17/2029 | 10/26/2024 / Janvi | 10/21/2024 / Janvi | M6095 |

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Fax : 908 789 8922

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L) | 22F0762009 | 05/09/2027 | 11/04/2024 / Eman | 09/29/2024 / Janvi | M6111 |

| 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) | 24B1362001 | 05/04/2025 | 11/02/2024 / Janvi | 09/29/2024 / Eman | M6115 |

| 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) | 24B1362001 | 05/03/2025 | 11/04/2024 / Janvi | 09/29/2024 / Eman | M6116 |

| 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 |

INORGANIC VENTURES™

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# Certificate of Analysis

R: 02/22/24 M5991, M5992, M5993, M5994, M5995

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Multi Analyte Custom Grade Solution |
| Catalog Number: | CLPP-SPK-4 |
| Lot Number: | V2-MEB742036 |
| Matrix: | 3% (v/v) HNO3 |
| Value / Analyte(s): | 100 µg/mL ea: Antimony, |
| | 50 µg/mL ea: Cadmium, Thallium, |
| | 40 µg/mL ea: Arsenic, |
| | 20 µg/mL ea: Lead, |
| | 10 µg/mL ea: Selenium |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|---|---|---|---|
| Antimony, Sb | 100.0 ± 0.7 µg/mL | Arsenic, As | 40.00 ± 0.26 µg/mL |
| Cadmium, Cd | 50.00 ± 0.22 µg/mL | Lead, Pb | 20.00 ± 0.09 µg/mL |
| Selenium, Se | 10.00 ± 0.04 µg/mL | Thallium, Tl | 50.00 ± 0.22 µg/mL |

**Density:** 1.016 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---|---|---|---|
| As | ICP Assay | 3103a | 100818 |
| Cd | ICP Assay | 3108 | 130116 |
| Cd | EDTA | 928 | 928 |
| Cd | Calculated | | See Sec. 4.2 |
| Pb | ICP Assay | 3128 | 101026 |
| Pb | EDTA | 928 | 928 |
| Pb | Calculated | | See Sec. 4.2 |
| Sb | ICP Assay | 3102a | 140911 |
| Se | ICP Assay | 3149 | 100901 |
| Se | Calculated | | See Sec. 4.2 |
| Tl | ICP Assay | 3158 | 151215 |
| Tl | Calculated | | See Sec. 4.2 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### Characterization of CRM/RM by Two or More Methods

**Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:**

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

$X_i$ = mean of Assay Method i with standard uncertainty $u_{char\ i}$

$w_i$ = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$**

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2 (u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

**Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:**

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

$X_a$ = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$**

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

## 6.0 INTENDED USE

**6.1** This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

**6.2** For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

March 12, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

**- March 12, 2029**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Joseph Burns
Custom VS Manager



**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director



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M6028

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479

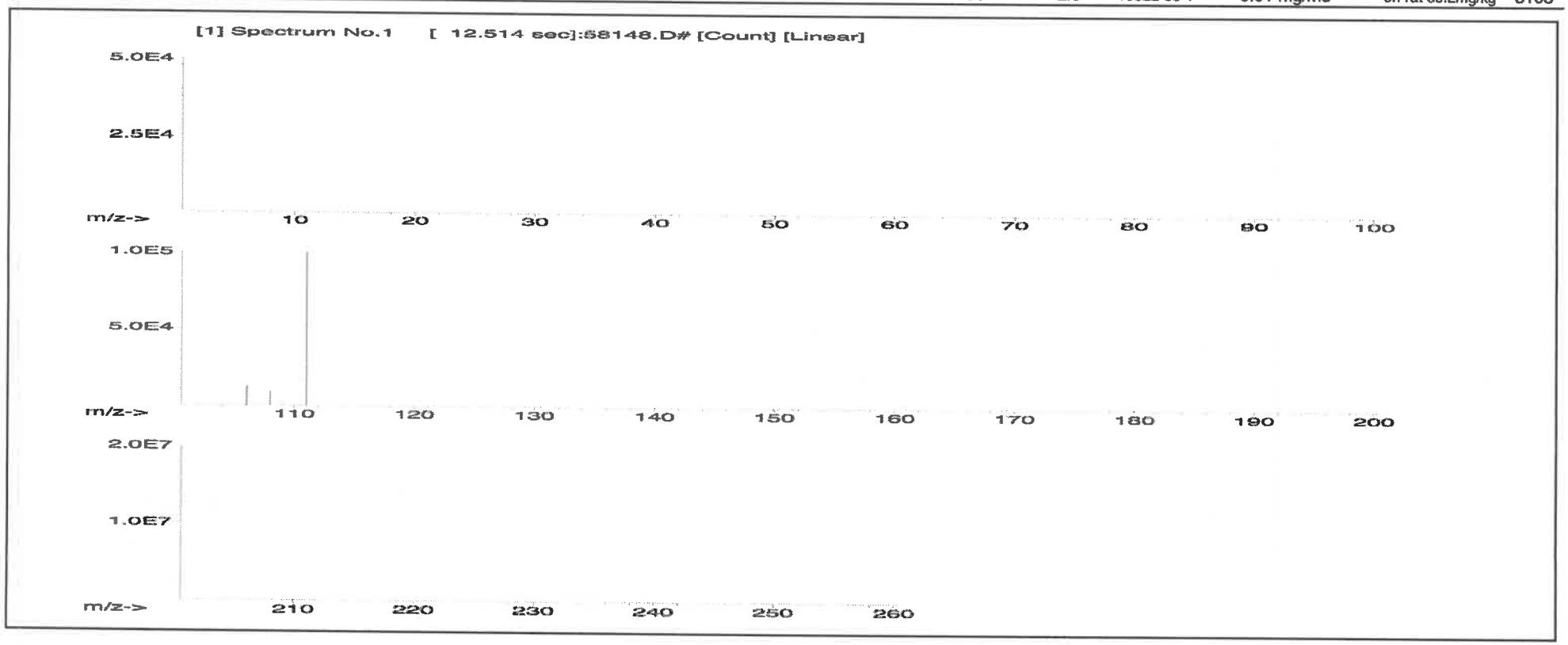
## CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **57048** | | **Lot #** | | |
| **Lot Number:** | **070124** | **Solvent:** | 24002546 | Nitric Acid | |
| **Description:** | **Cadmium (Cd)** | 2% | 40.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 070127 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 2000.07 | 0.100 | Flask Uncertainty | | |

Aleah O'Brady

| | | |
|---|---|---|
| Formulated By: | Aleah O'Brady | 070124 |
| Reviewed By: | Pedro L. Rentas | 070124 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Cadmium nitrate tetrahydrate (Cd) | IN024 | CDM092021A1 | 1000 | 99.999 | 0.10 | 36.5 | 5.4797 | 5.4804 | **1000.1** | **2.0** | 10022-68-1 | 0.01 mg/m3 | orl-rat 60.2mg/kg | 3108 |



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**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | T | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 8/5/24

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CERTIFIED WEIGHT REPORT:

**Part Number:** 57182
**Lot Number:** 110923
**Description:** Lead (Pb)

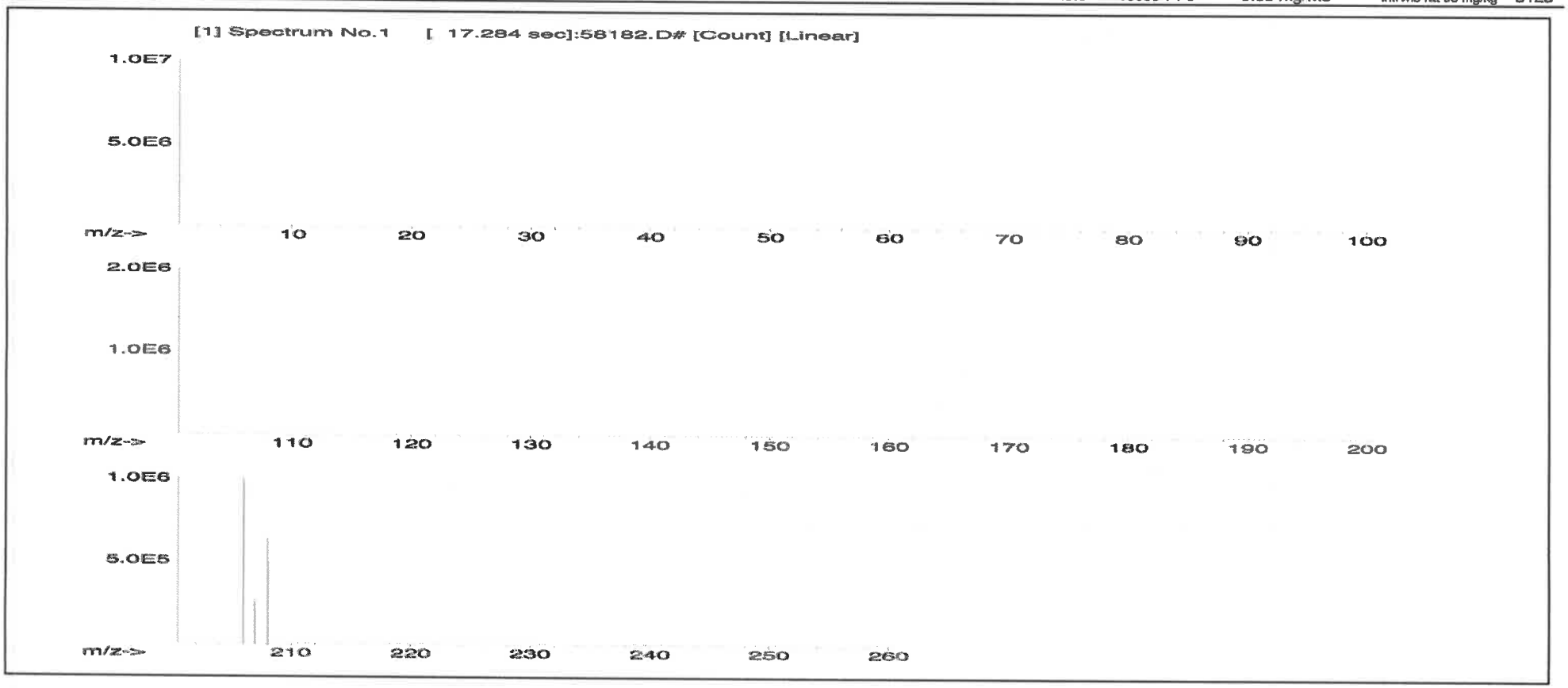
**Expiration Date:** 110926
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 2000.02

| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 24002546 | Nitric Acid | |
| 2% | 40.0 (mL) | Nitric Acid | |

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

| | | |
|---|---|---|
| Formulated By: | Lawence Barry | 110923 |
| Reviewed By: | Pedro L. Rentas | 110923 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Lead(II) nitrate (Pb) | IN029 | PBD122016A1 | 10000 | 99.999 | 0.10 | 62.5 | 32.0006 | 32.0040 | **10001.1** | **20.0** | 10099-74-8 | 0.05 mg/m3 | intrvns-rat 93 mg/kg | 3128 |



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**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | T | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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***Certified Reference Material CRM***

M5192 R: 06/17/22

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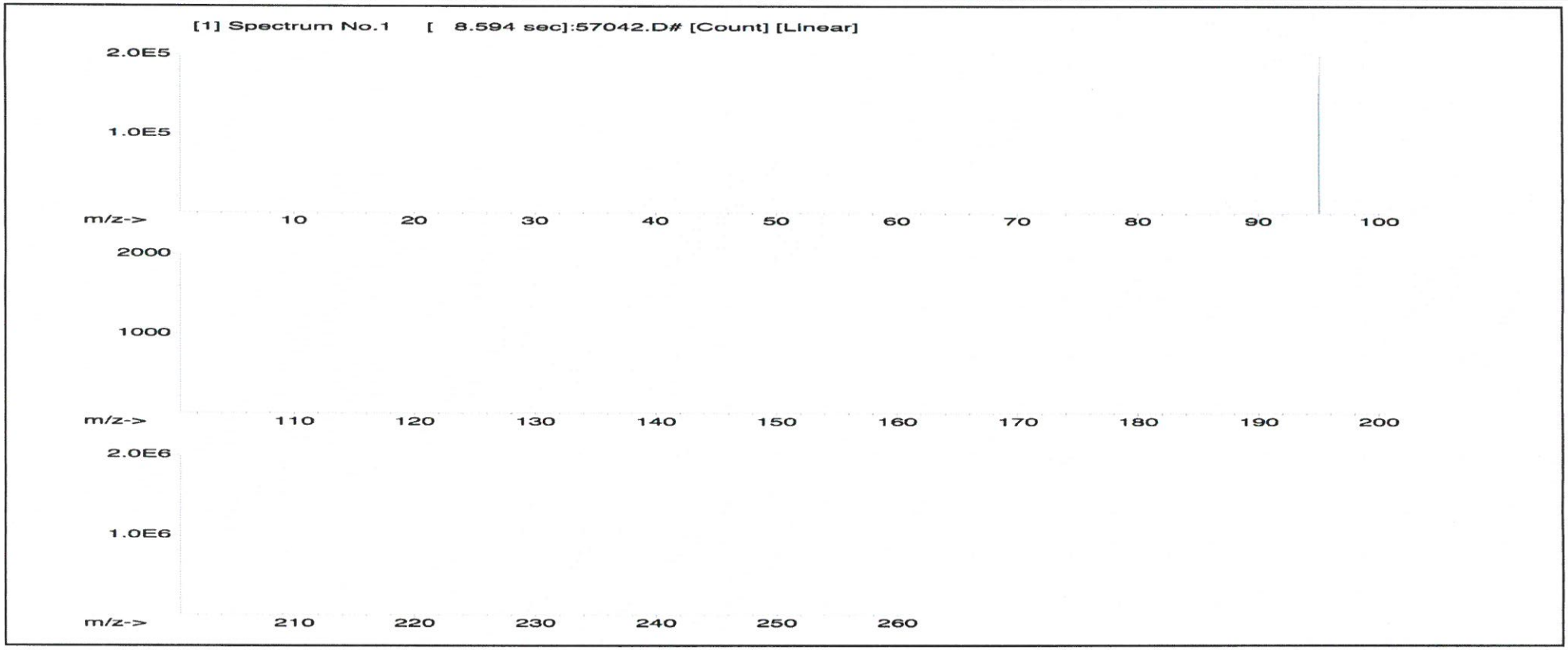
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CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: |
|---|---|---|---|
| **Part Number:** | **57042** | | |
| **Lot Number:** | **051722** | | |
| **Description:** | **Molybdenum (Mo)** | MKBQ8597V | Ammonium hydroxide |
| | | 0.5% | 15.0 (mL) Ammonium hydroxide |
| **Expiration Date:** | 051725 | | |
| **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 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:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

**Certified by:**



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

V15200 R: 04/24/22 (BP)

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT:

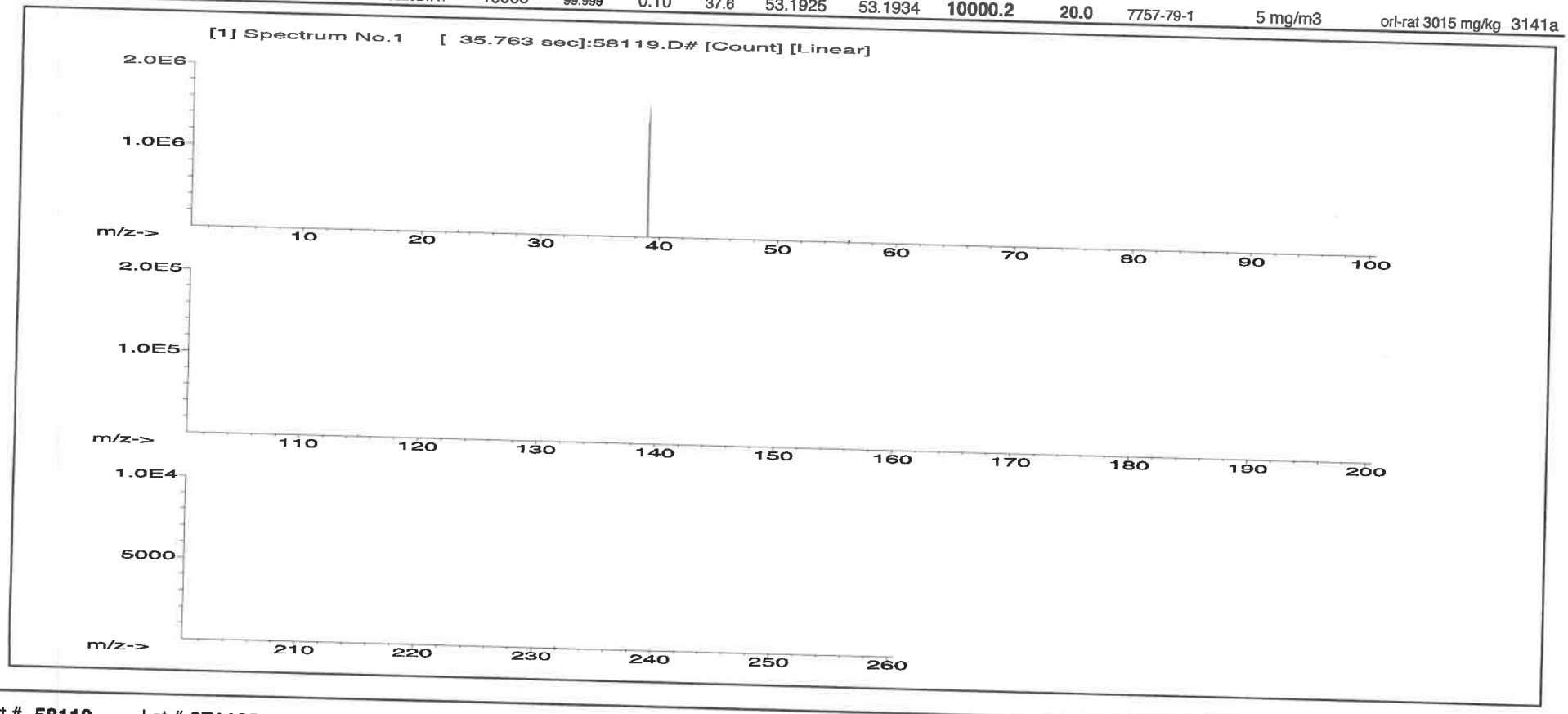
**Part Number:** 58119
**Lot Number:** 071122
**Description:** Potassium (K)

**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 |






485

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | T | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

**Certified by:**

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

M5289 R: 07/12/22 BH

**Certified Reference Material CRM**

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

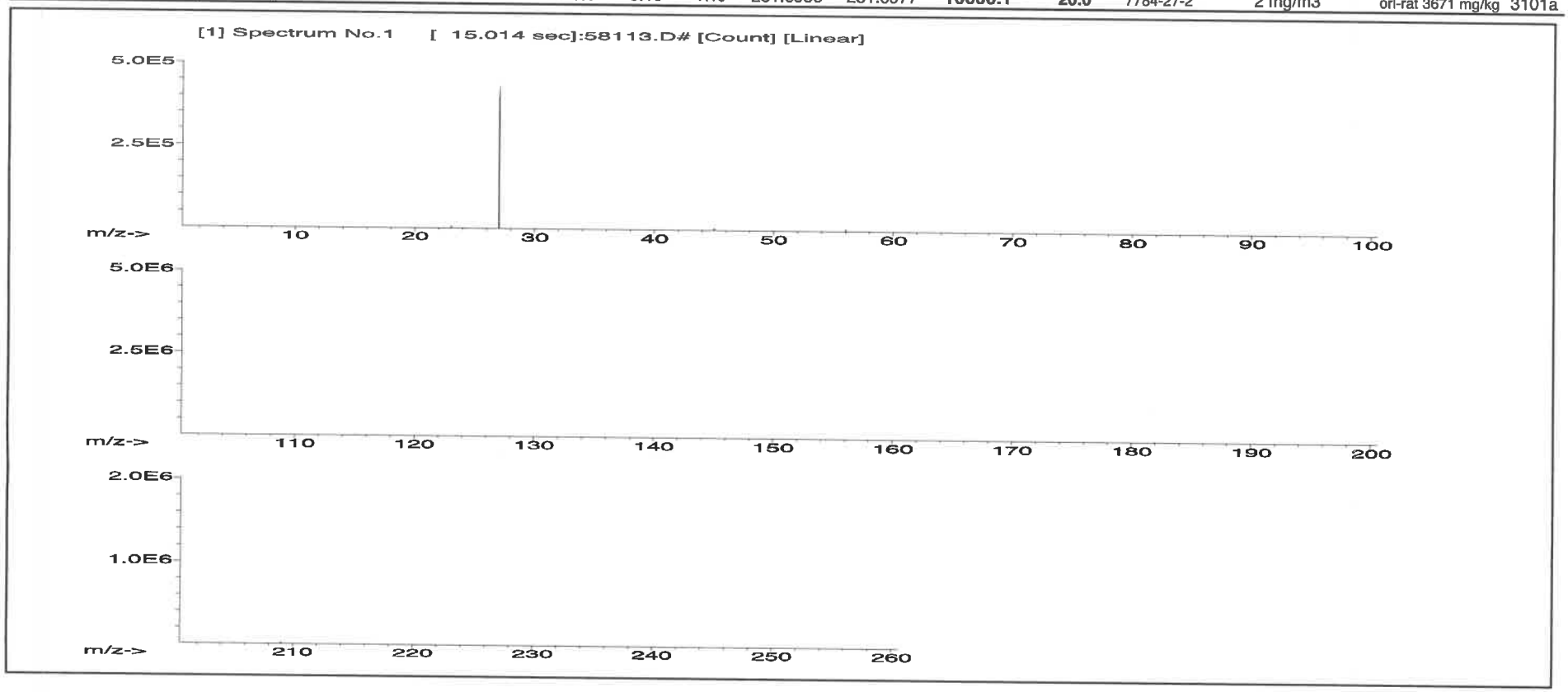
CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **58113** | | **Solvent:** | 20370011 | Nitric Acid |
| **Lot Number:** | **070622** | | | | |
| **Description:** | **Aluminum (Al)** | | 2% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 070625 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **10000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 Balance Uncertainty | | | |
| **Weight shown below was diluted to (mL):** | 2000.02 | 0.058 Flask Uncertainty | | | |

**Lot #**

| | | |
|---|---|---|
| Formulated By: | Lawrence Barry | 070622 |
| Reviewed By: | Pedro L. Rentas | 070622 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | **Actual Conc. (µg/mL)** | Expanded Uncertainty +/- (µg/mL) | **SDS Information** (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Aluminum nitrate nonahydrate (Al) | IN022 | ALD012021A1 | 10000 | 99.999 | 0.10 | 7.10 | 281.6956 | 281.6977 | **10000.1** | **20.0** | 7784-27-2 | 2 mg/m3 | orl-rat 3671 mg/kg | 3101a |



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | T | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
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## 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 (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$**

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

**Characterization of CRM/RM by One Method**

**Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:**

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

$X_a$ = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$**

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

**HF Note:** This standard should not be prepared or stored in glass.

**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 (BH)

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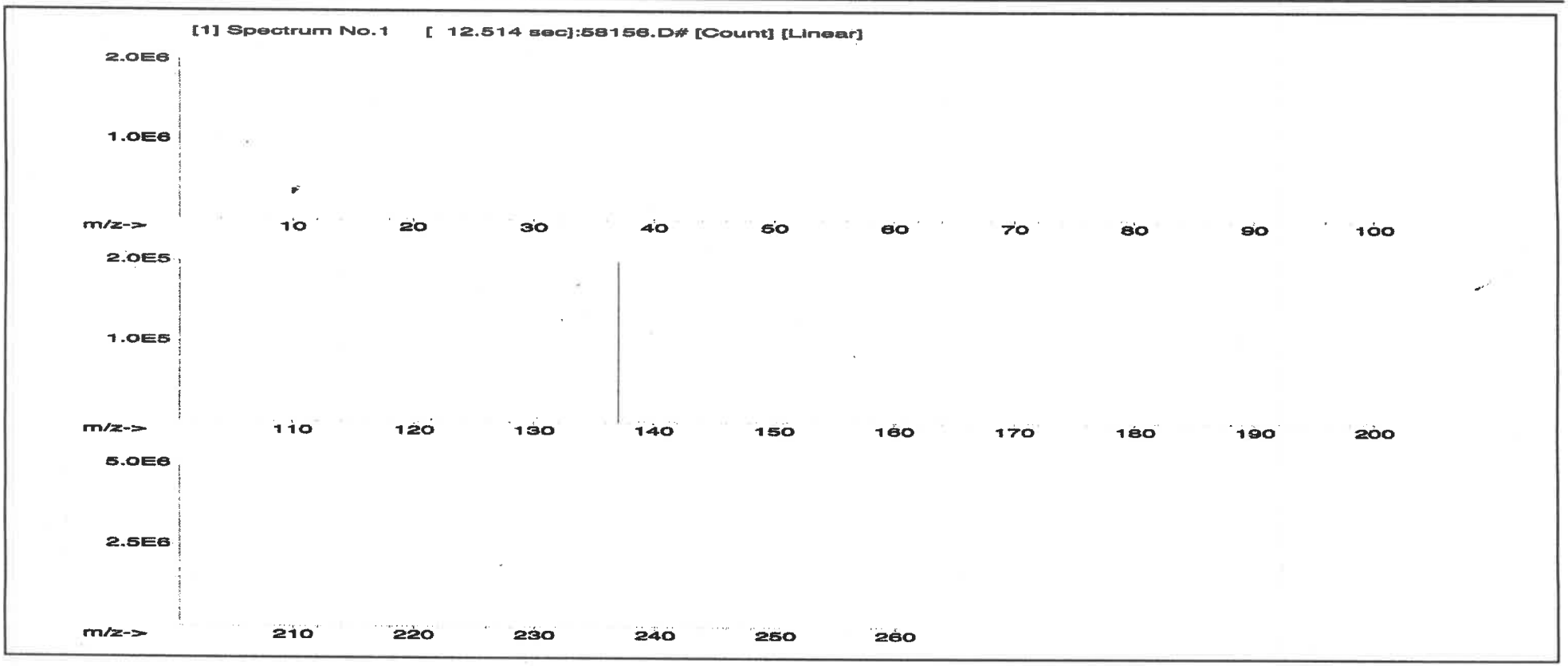
## CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **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 BH

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CERTIFIED WEIGHT REPORT:

**Part Number:** 58120
**Lot Number:** 031523
**Description:** Calcium (Ca)

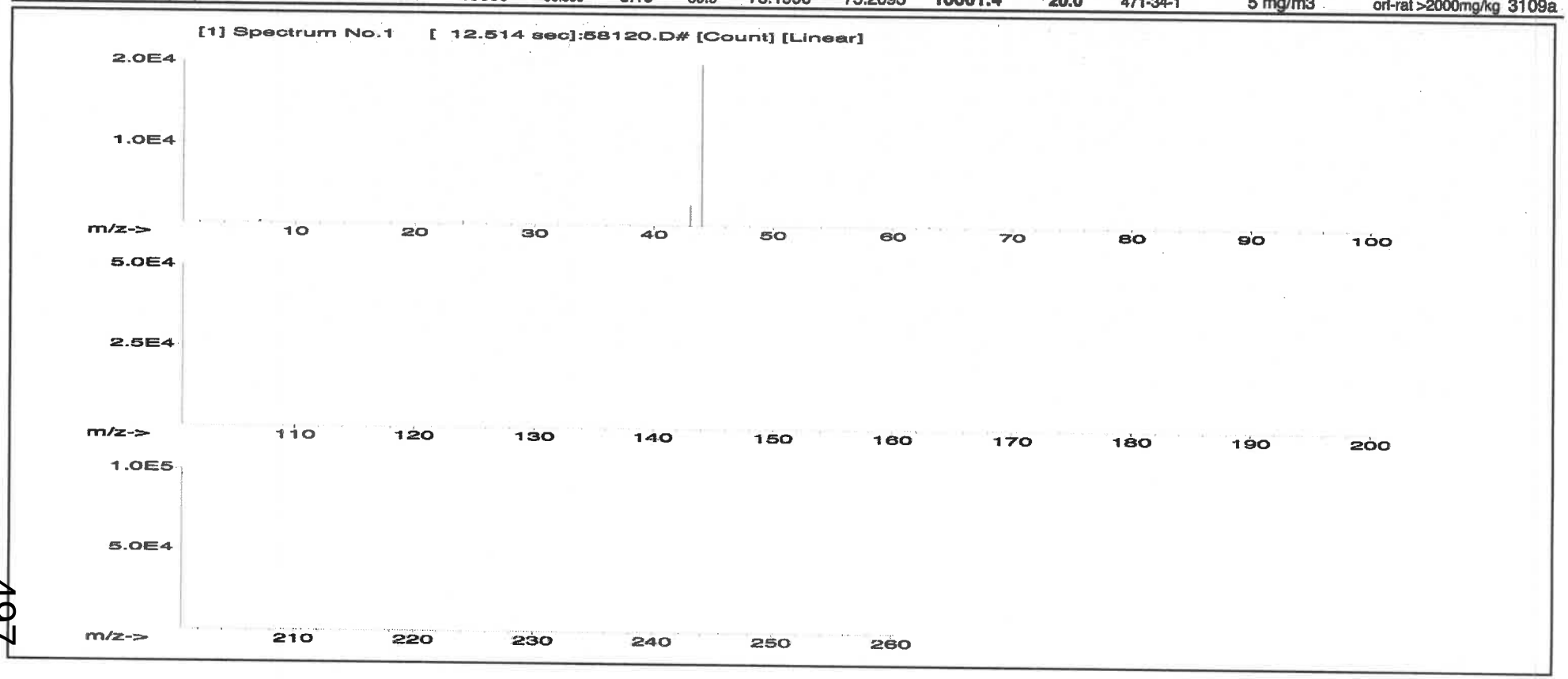
**Expiration Date:** 031526
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 3000.41

| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 21110221 | Nitric Acid | |
| 2% | 60.0 (mL) | Nitric Acid | |
| | 5E-05 | Balance Uncertainty | |
| | 0.058 | Flask Uncertainty | |

Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 031523 |
| Reviewed By: | Pedro L. Rentas | 031523 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Calcium carbonate (Ca) | IN014 | CAD072022A1 | 10000 | 99.999 | 0.10 | 39.9 | 75.1990 | 75.2093 | **10001.4** | **20.0** | 471-34-1 | 5 mg/m3 | orl-rat >2000mg/kg | 3109a |




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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 | 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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CERTIFIED WEIGHT REPORT:

**Part Number:** 58120
**Lot Number:** 031523
**Description:** Calcium (Ca)

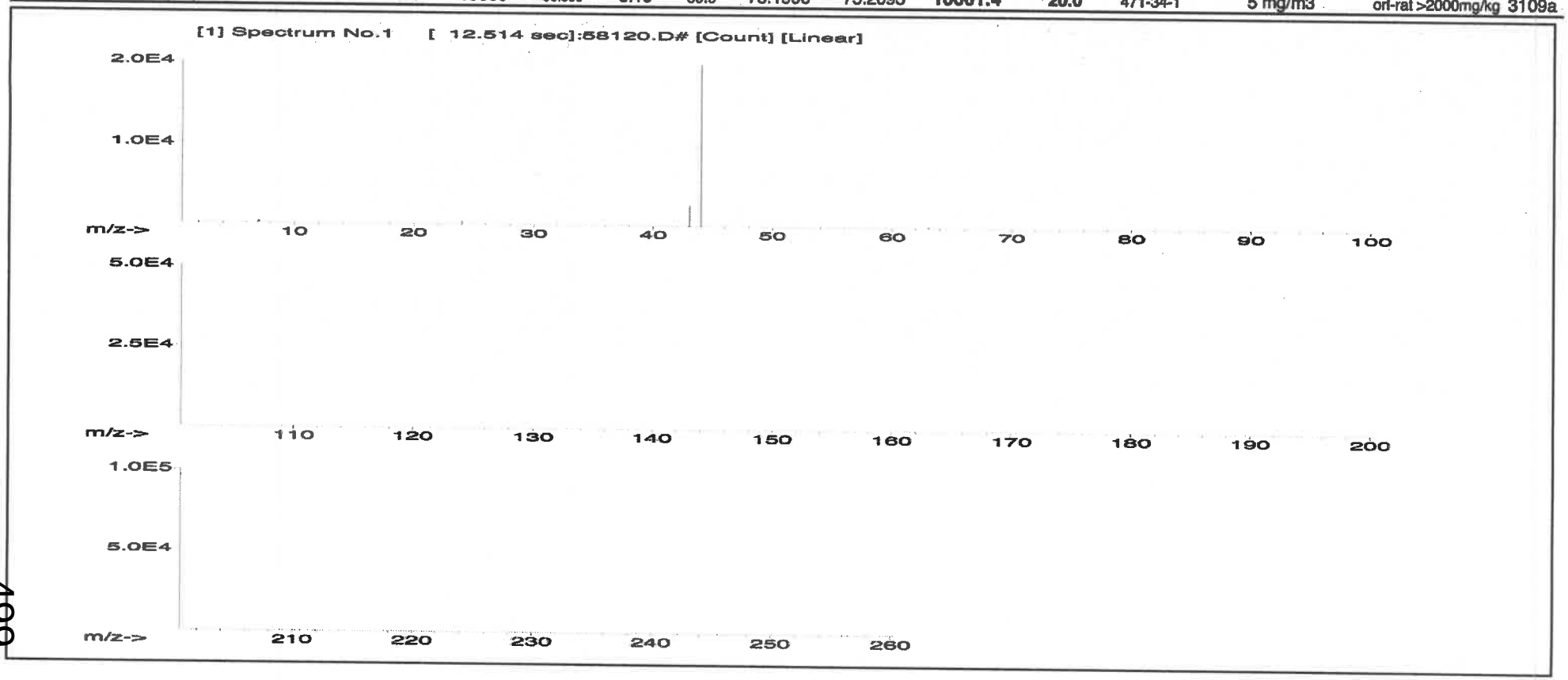
**Expiration Date:** 031526
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 3000.41

| | 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 |




499

**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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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

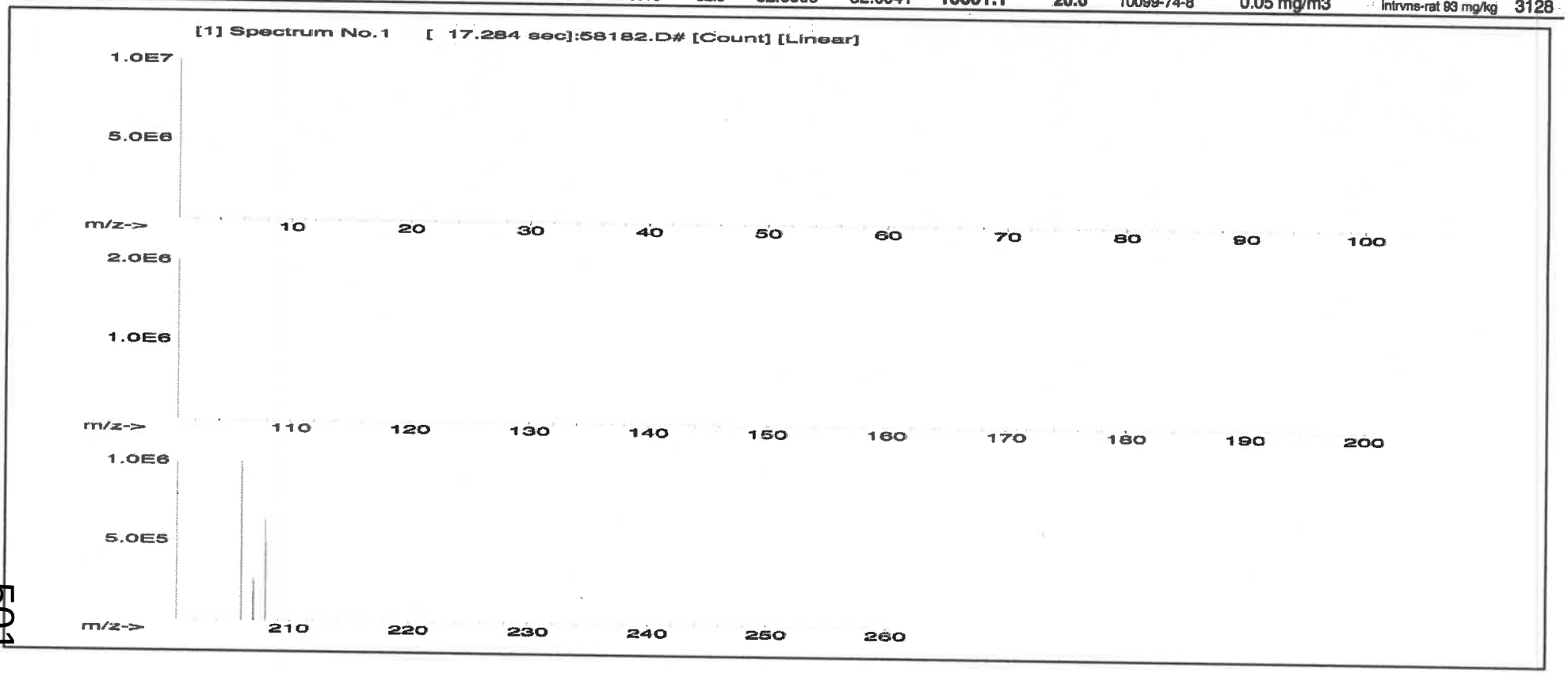
| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 20510011 | Nitric Acid | |
| 2% | 40.0 (mL) | Nitric Acid | |

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 |




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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.
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M5514 - M5515 R: 03/17/22

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CERTIFIED WEIGHT REPORT:

**Part Number:** 58126
**Lot Number:** 092122
**Description:** Iron (Fe)

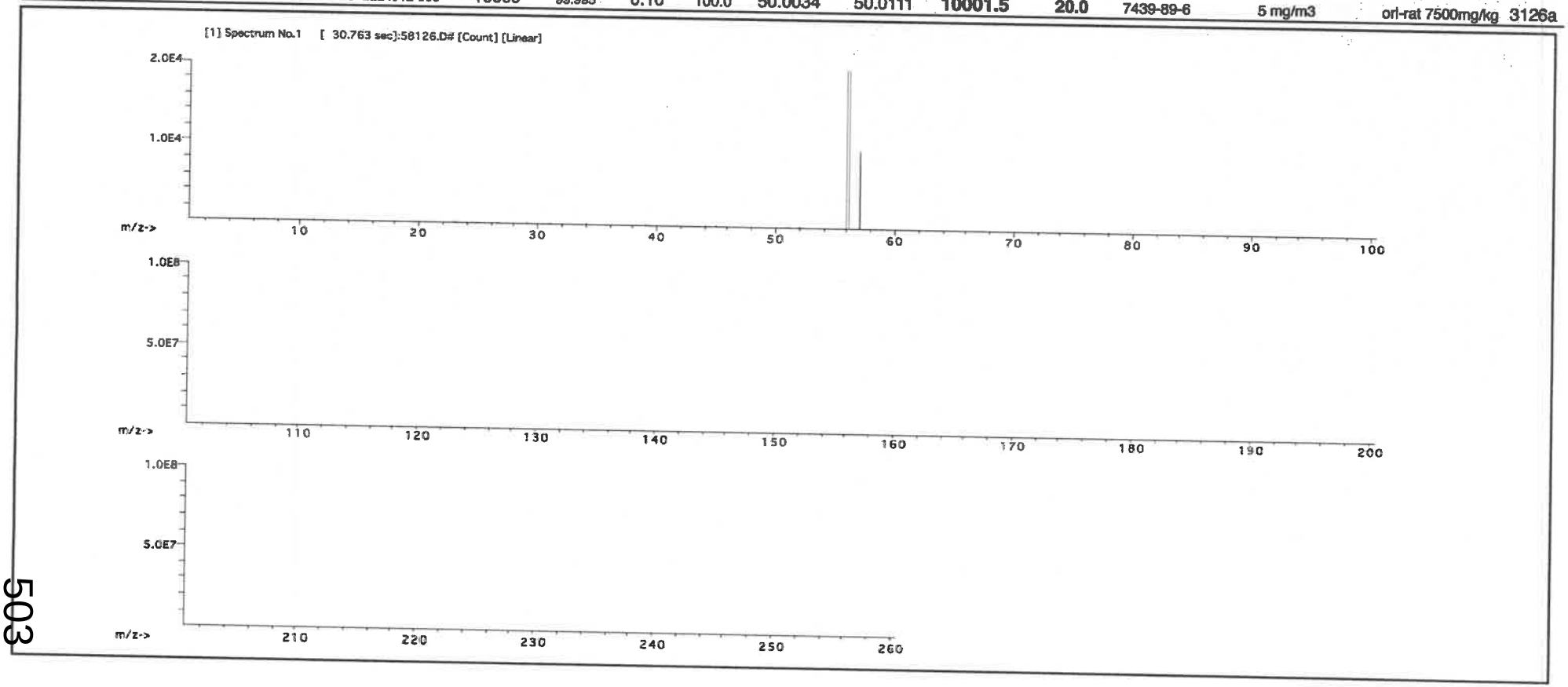
**Expiration Date:** 092125
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 5000.1

| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 20510011 | Nitric Acid | |
| 7.0% | 350.0 (mL) | Nitric Acid | |
| 5E-05 | Balance Uncertainty | | |
| 0.12 | Flask Uncertainty | | |

Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 092122 |
| Reviewed By: | Pedro L. Rentas | 092122 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Iron (Fe) | IN346 | 2224912-500 | 10000 | 99.995 | 0.10 | 100.0 | 50.0034 | 50.0111 | **10001.5** | **20.0** | 7439-89-6 | 5 mg/m3 | orl-rat 7500mg/kg | 3126a |




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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:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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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

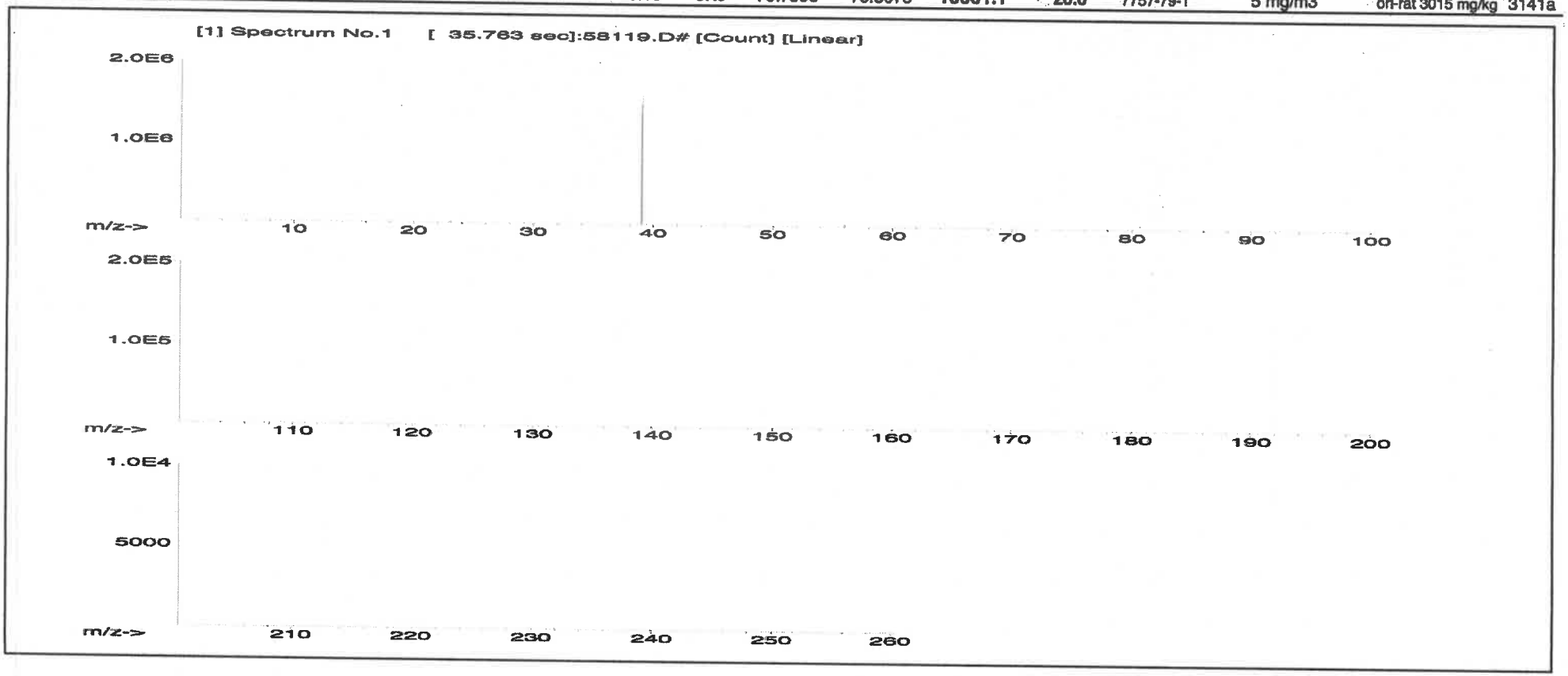
| | Lot # | | |
|---|---|---|---|
| **Solvent:** | 20510011 | Nitric Acid | |
| 2% | 60.0 (mL) | Nitric Acid | |

5E-05 Balance Uncertainty
0.06 Flask Uncertainty

Giovanni Esposito

| | | |
|---|---|---|
| Formulated By: | Giovanni Esposito | 120822 |
| Reviewed By: | Pedro L. Rentas | 120822 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Potassium nitrate (K) | IN034 | KD022021A1 | 10000 | 99.999 | 0.10 | 37.6 | 79.7990 | 79.8075 | **10001.1** | **20.0** | 7757-79-1 | 5 mg/m3 | orl-rat 3015 mg/kg | 3141a |



506

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <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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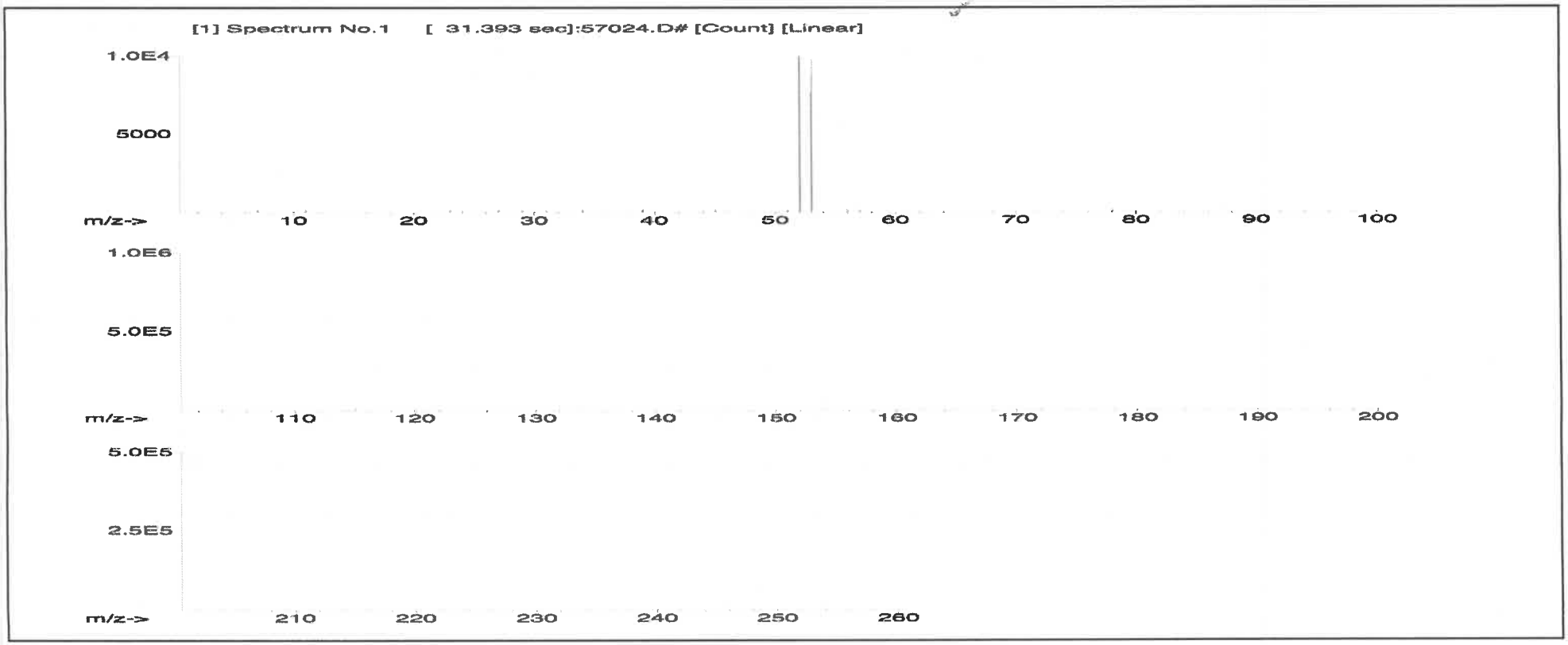
507

CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | |
|---|---|---|---|---|
| **Part Number:** | **58024** | 21110221 | Nitric Acid | |
| **Lot Number:** | **060523** | | | |
| **Description:** | **Chromium (Cr)** | | | |
| | | 2.0% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 060526 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Volume shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | |

| | | |
|---|---|---|
| Formulated By: | Lawrence Barry | 060523 |
| Reviewed By: | Pedro L. Rentas | 060523 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Chromium(III) nitrate nonahydrate (Cr) | 58124 | 071122 | 0.1000 | 200.0 | 0.084 | 1000 | 10000.1 | **1000.0** | **2.2** | 7789-02-8 | 0.5 mg(Cr)/m3 | orl-rat 3250 mg/kg | 3112a |



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | T | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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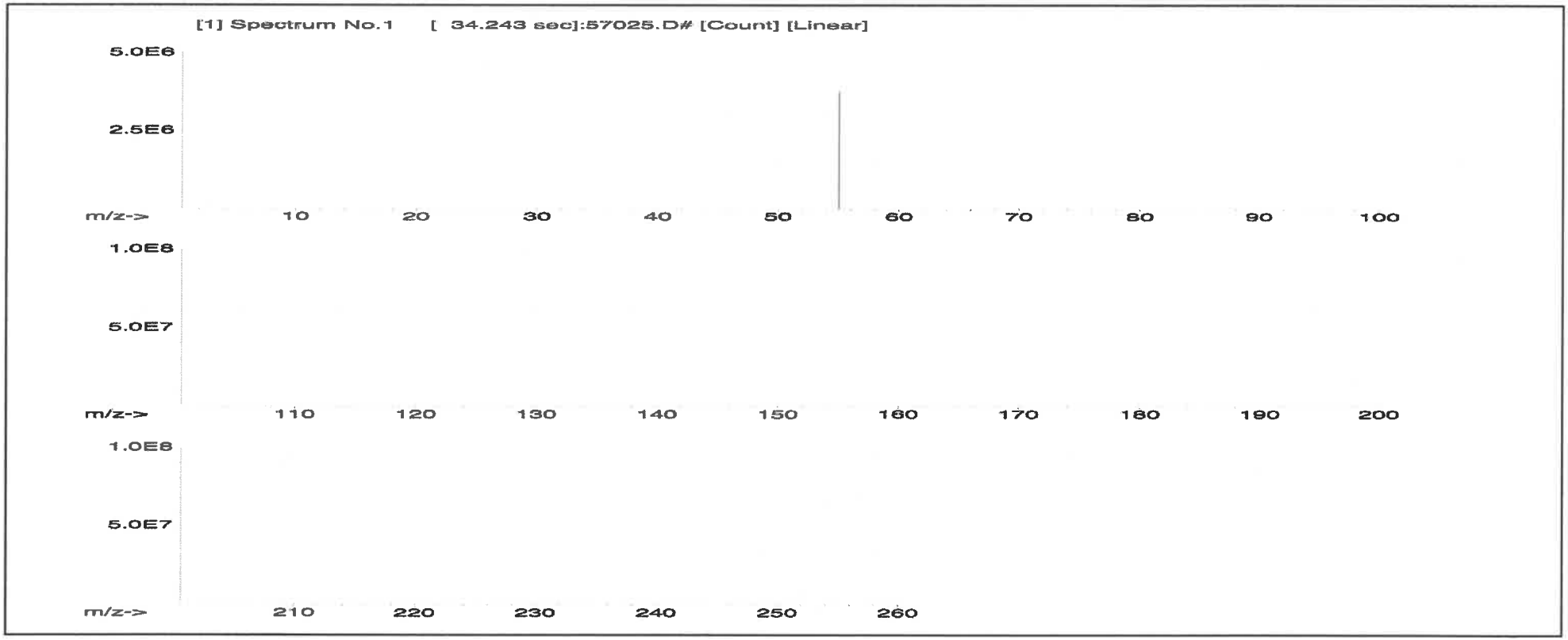
509

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 |



510

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | T | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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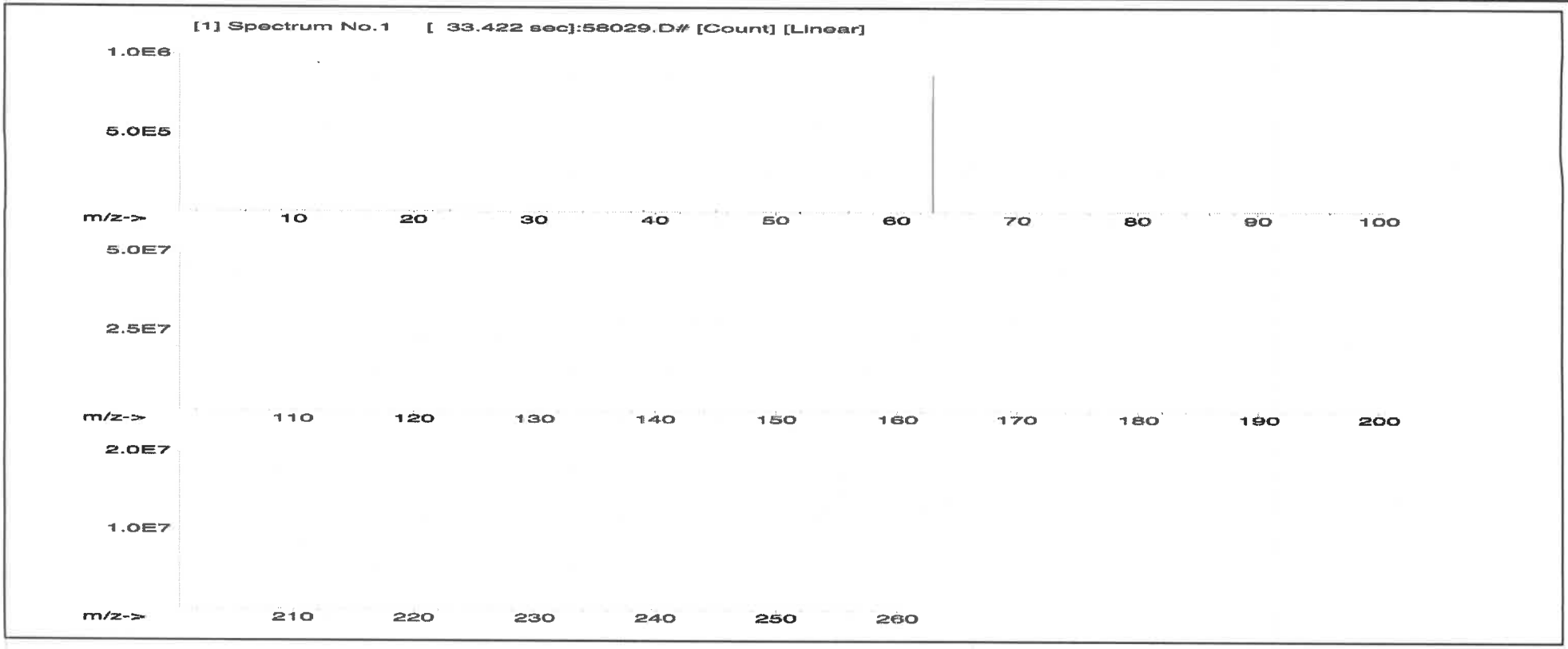
511

CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | |
|---|---|---|---|---|
| **Part Number:** | **58029** | 21110221 | Nitric Acid | |
| **Lot Number:** | **071723** | | | |
| **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 |



512

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <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.
* 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.
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M5768 M5769 (BP) R:1/3/24

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513

## 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

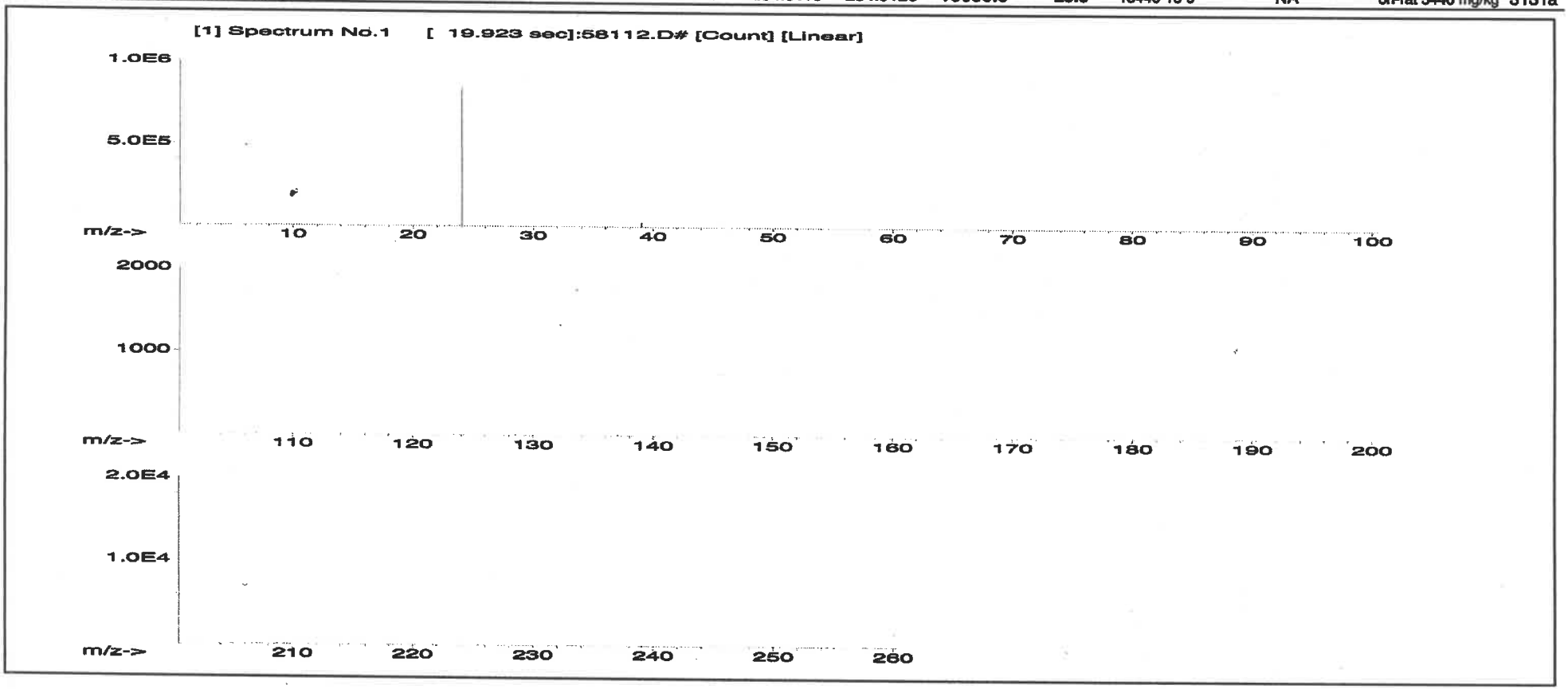
| | | Lot # | |
|---|---|---|---|
| **Solvent:** | 24002546 | Nitric Acid | |
| 2% | 40.0 (mL) | Nitric Acid | |

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 | orl-rat 5440 mg/kg | 3131a |



514

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | T | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

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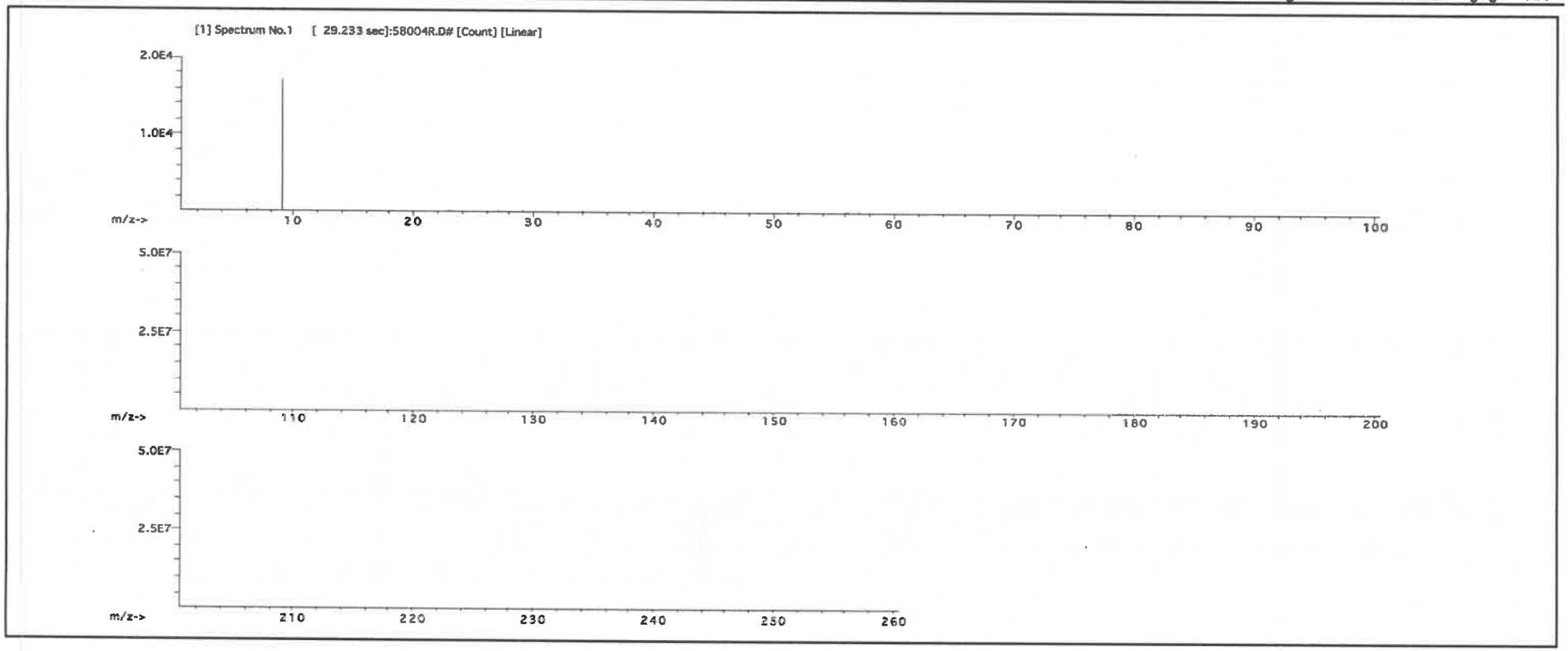
515

CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | | |
|---|---|---|---|---|---|
| **Part Number:** | **57004** | 24002546 | Nitric Acid | | |
| **Lot Number:** | **102523** | | | | |
| **Description:** | **Beryllium (Be)** | 2.0% | 40.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 102526 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Volume shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | | |

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 102523 |
| Reviewed By: | Pedro L. Rentas | 102523 |

| Compound | Part Number | Lot Number | Dilution Factor | Initial Vol. (mL) | Uncertainty Pipette (mL) | Nominal Conc. (µg/mL) | Initial Conc. (µg/mL) | Final Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Beryllium nitrate (Be) | 58104 | 091423 | 0.1000 | 200.0 | 0.084 | 1000 | 10001.5 | **1000.0** | **2.2** | 13597-99-4 | 0.2ug/m3 | intrvns-rat 3.16mg/kg | NA |



**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | T | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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517

**CERTIFIED WEIGHT REPORT:**

**Part Number:** 57050
**Lot Number:** 071123
**Description:** Tin (Sn)

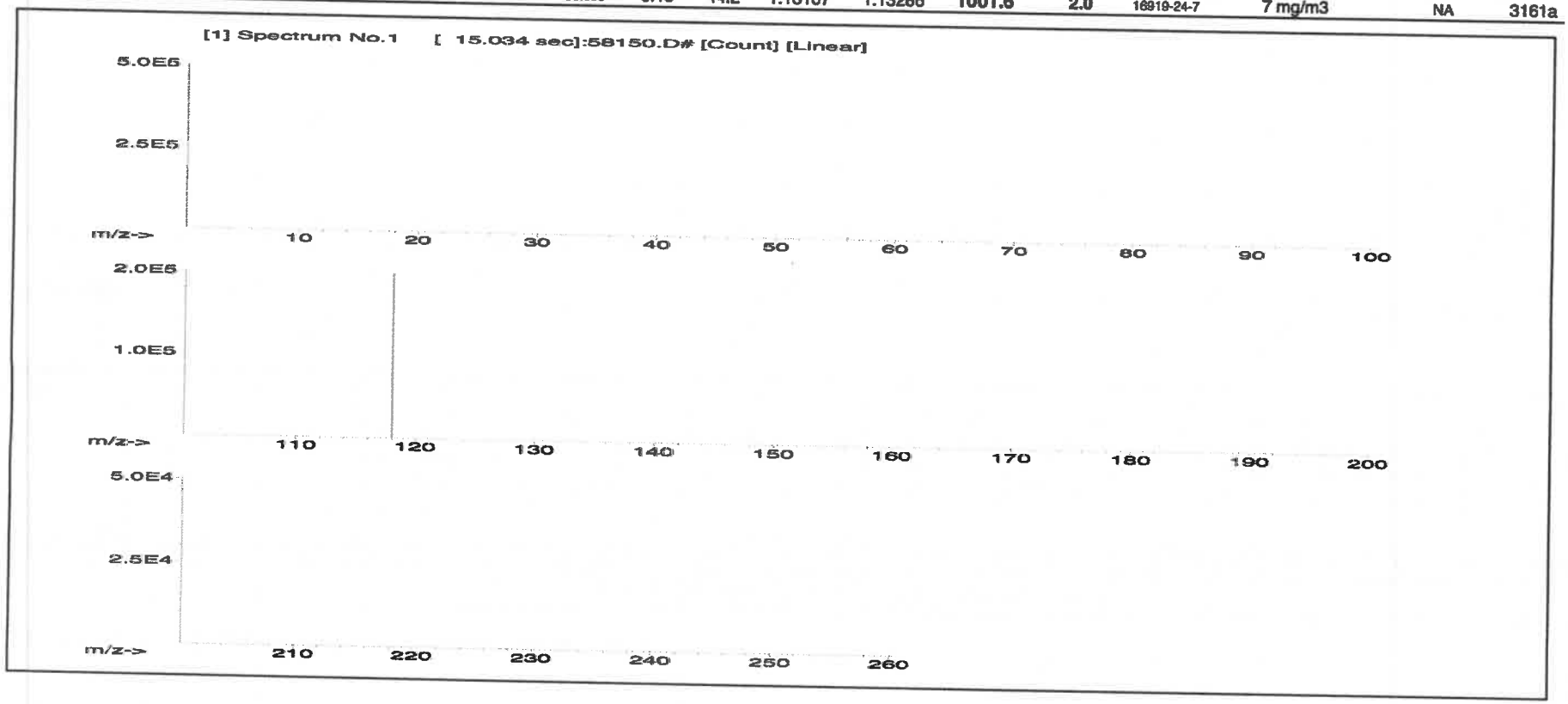
**Expiration Date:** 071126
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test Number:** 6UTB
**Weight shown below was diluted to (mL):** 499.93

| | 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 |



518

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

**Trace Metals Verification by ICP-MS (µg/mL)**

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <500 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | T | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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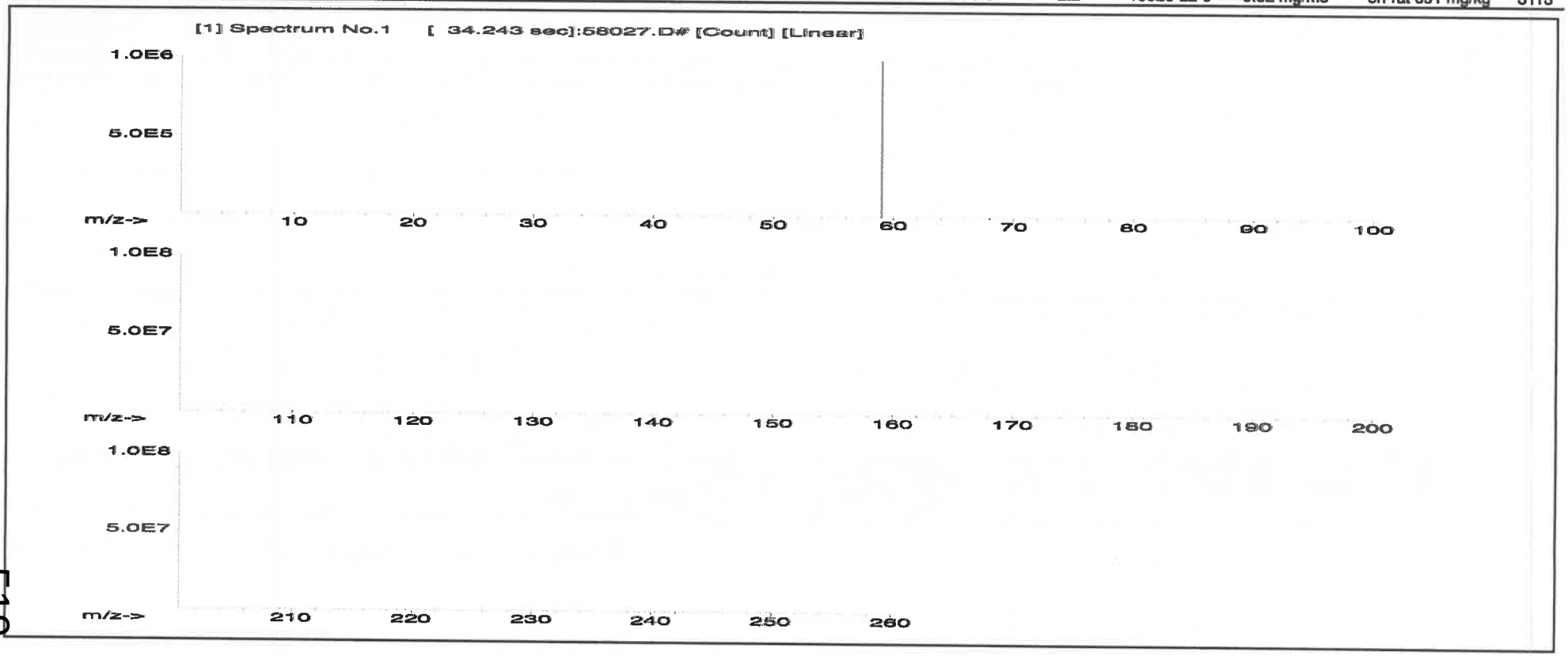
CERTIFIED WEIGHT REPORT:

| | | 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 |




519

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | T | Gé | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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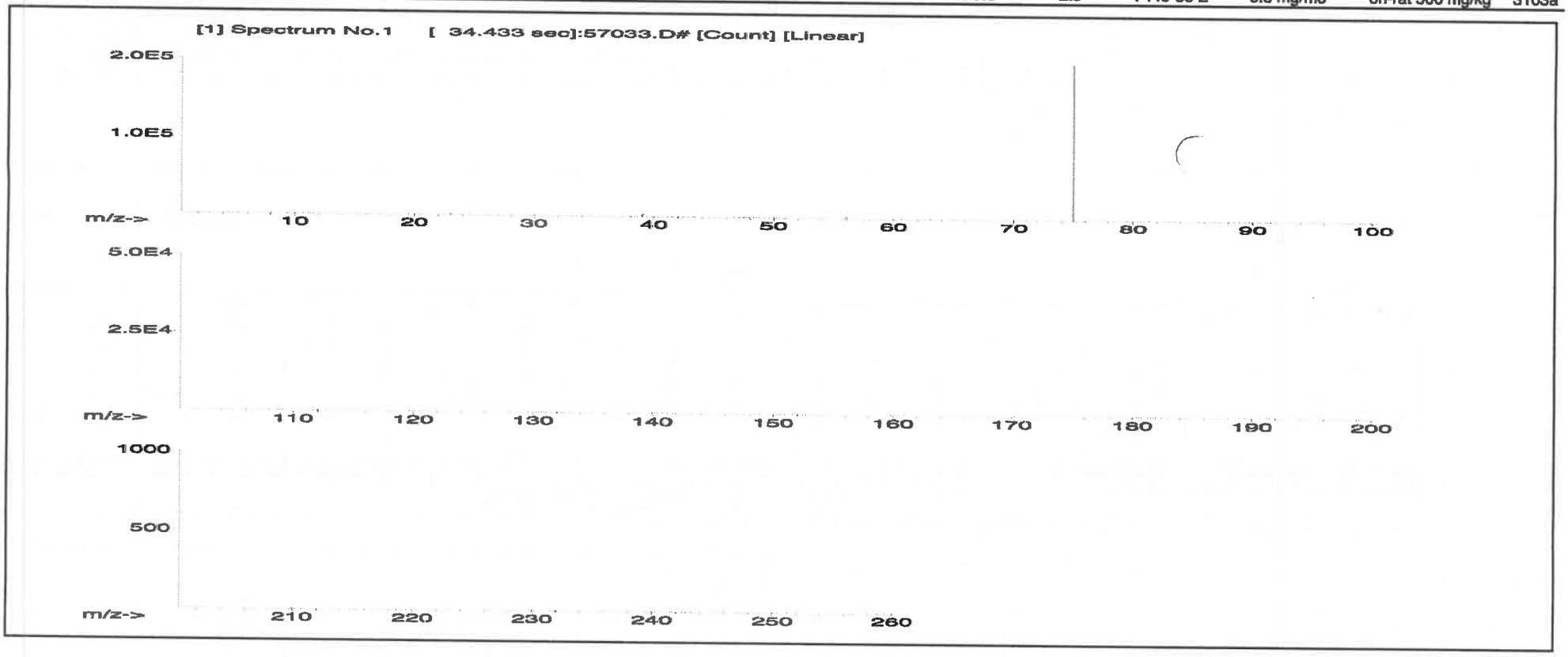
521

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 |



522

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | T | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge* | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
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* All standards should be stored with caps tight and under appropriate laboratory conditions.
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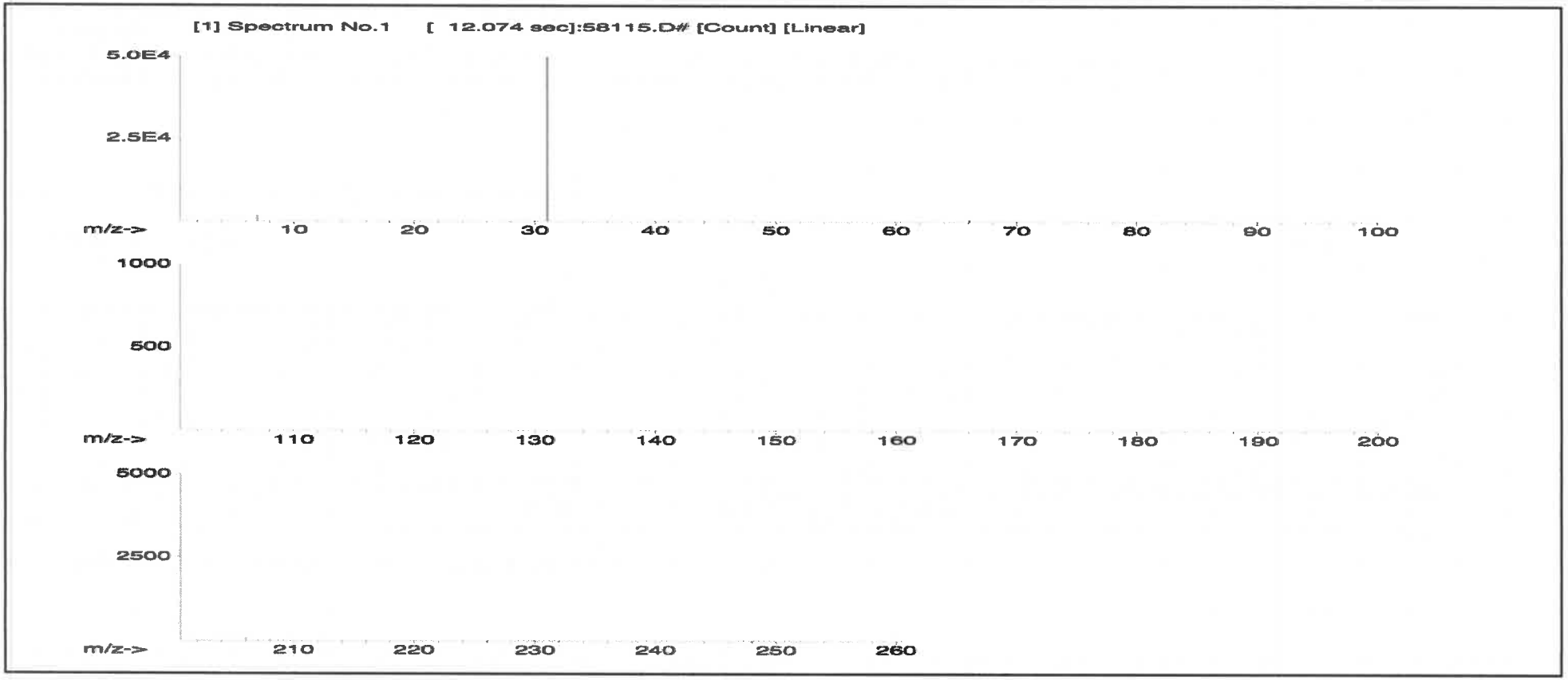
523

CERTIFIED WEIGHT REPORT:

| | | | Lot # | |
|---|---|---|---|---|
| **Part Number:** | **57115** | **Solvent:** | 21110221 | Nitric Acid |
| **Lot Number:** | **041723** | | | |
| **Description:** | **Phosphorous (P)** | 2% | 40.0 (mL) | Nitric Acid |
| **Expiration Date:** | 041726 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **10000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Weight shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | |

| | | |
|---|---|---|
| Formulated By: | Lawrence Barry | 041723 |
| Reviewed By: | Pedro L. Rentas | 041723 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Ammonium dihydrogen phosphate (P) | IN008 | PV082019A1 | 10000 | 99.999 | 0.10 | 27.5 | 72.7287 | 72.7289 | **10000.0** | **20.0** | 7722-76-1 | 5 mg/m3 | orl-rat >2000mg/kg | 3186 |



524

**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.
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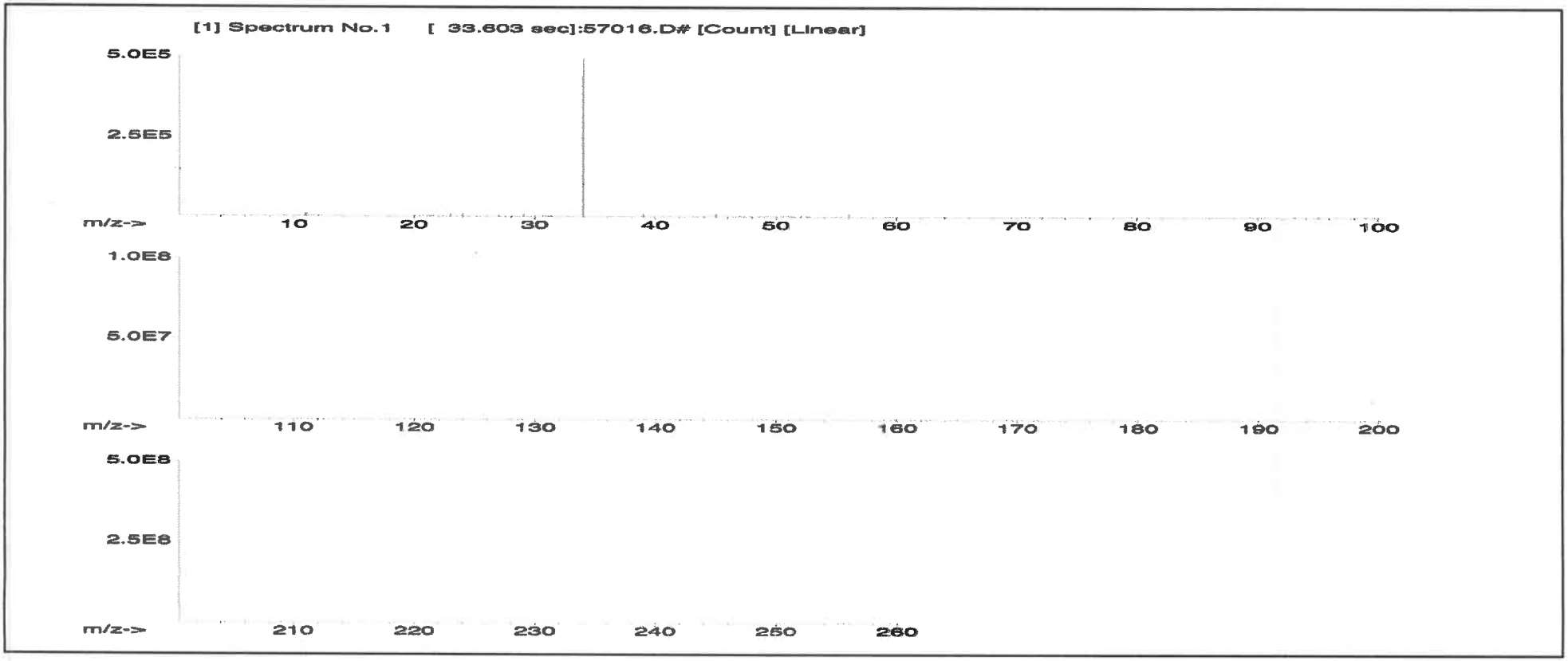
525

CERTIFIED WEIGHT REPORT:

| | | | | |
|---|---|---|---|---|
| **Part Number:** | **57016** | **Solvent:** | **Lot #** 122923 | ASTM Type 1 Water |
| **Lot Number:** | **122923** | | | |
| **Description:** | **Sulfur (S)** | | | |
| **Expiration Date:** | 122926 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Weight shown below was diluted to (mL):** | 4000.0 | 0.06 | Flask Uncertainty | |

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 122923 |
| Reviewed By: | Pedro L. Rentas | 122923 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Ammonium sulfate (S) | IN117 | SLBR7225V | 1000 | 99.9 | 0.10 | 24.3 | 16.4979 | 16.4980 | **1000.0** | **2.0** | 7783-20-2 | NA | orl-rat 4250mg/kg | 3181 |



526

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | T | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

Certified by:

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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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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527

CERTIFIED WEIGHT REPORT:

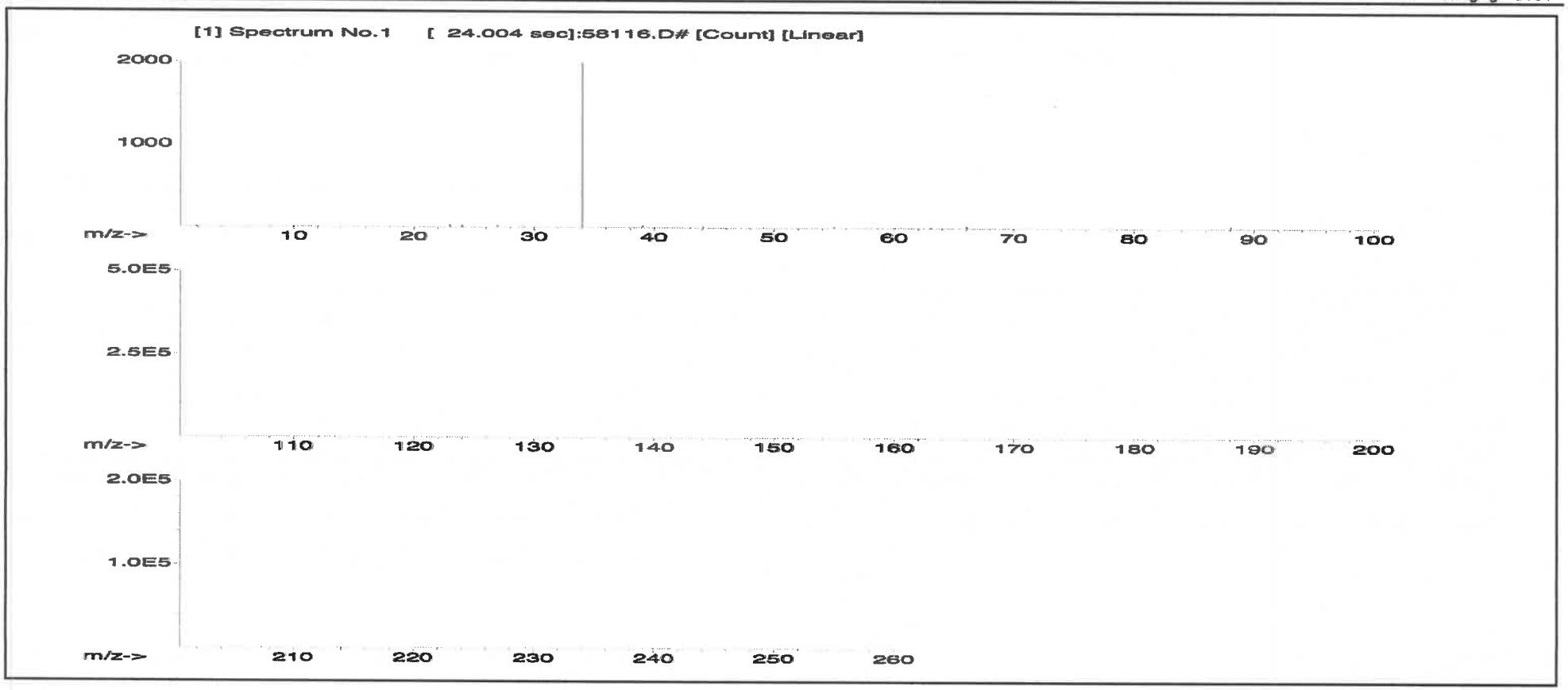
**Part Number:** 57116
**Lot Number:** 071123
**Description:** Sulfur (S)

**Lot #**
**Solvent:** 071123 ASTM Type 1 Water

**Expiration Date:** 071126
**Recommended Storage:** Ambient (20 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test Number:** 6UTB 5E-05 Balance Uncertainty
**Weight shown below was diluted to (mL):** 1999.48 0.058 Flask Uncertainty

| | | |
|---|---|---|
| Formulated By: | Lawrence Barry | 071123 |
| Reviewed By: | Pedro L. Rentas | 071123 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Ammonium sulfate (S) | IN117 | SLBR7225V | 10000 | 99.9 | 0.10 | 24.3 | 82.4675 | 82.4682 | **10000.1** | **20.0** | 7783-20-2 | NA | orl-rat 4250mg/kg | 3181 |



**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.
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Lot #

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529

## 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

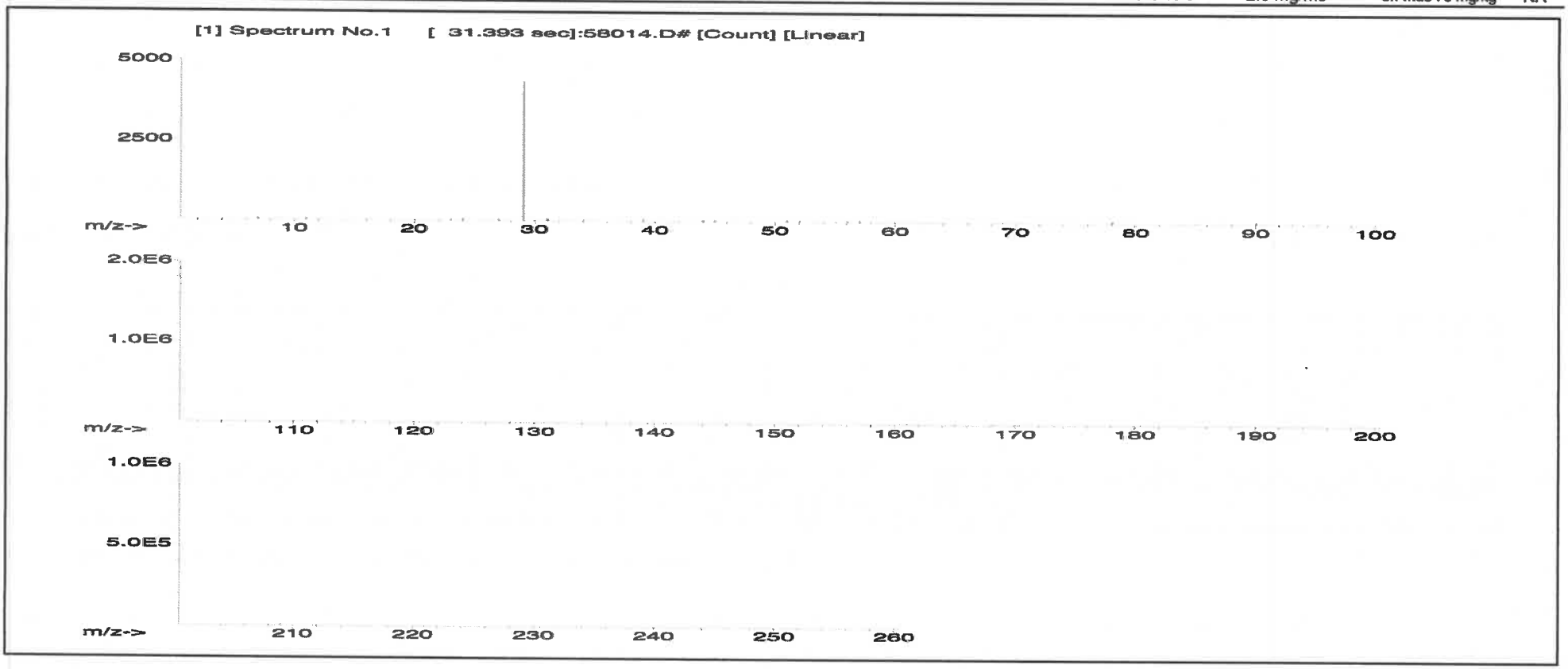
Aleah O'Brady

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 |



**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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* 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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531

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

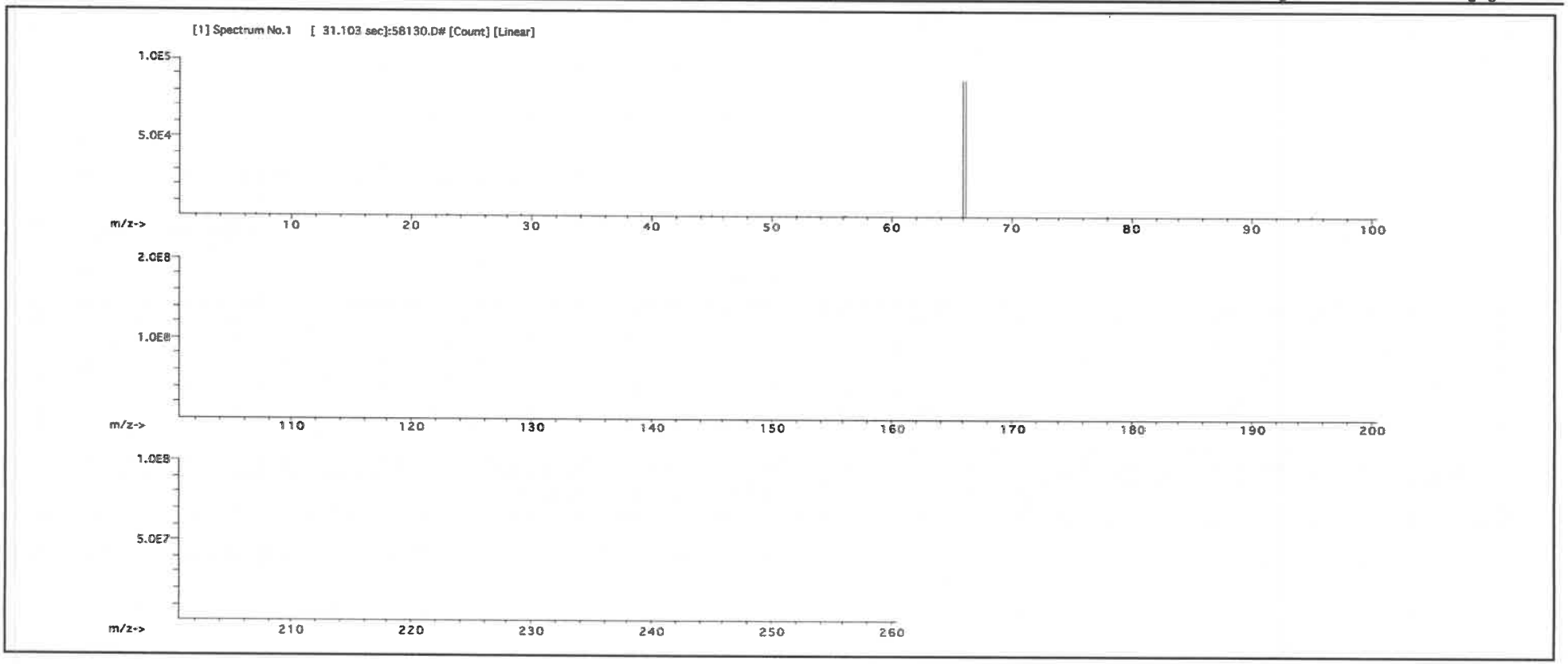
**Weight shown below was diluted to (mL):** 3000.4 0.06 Flask Uncertainty

| | | 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 |



532

**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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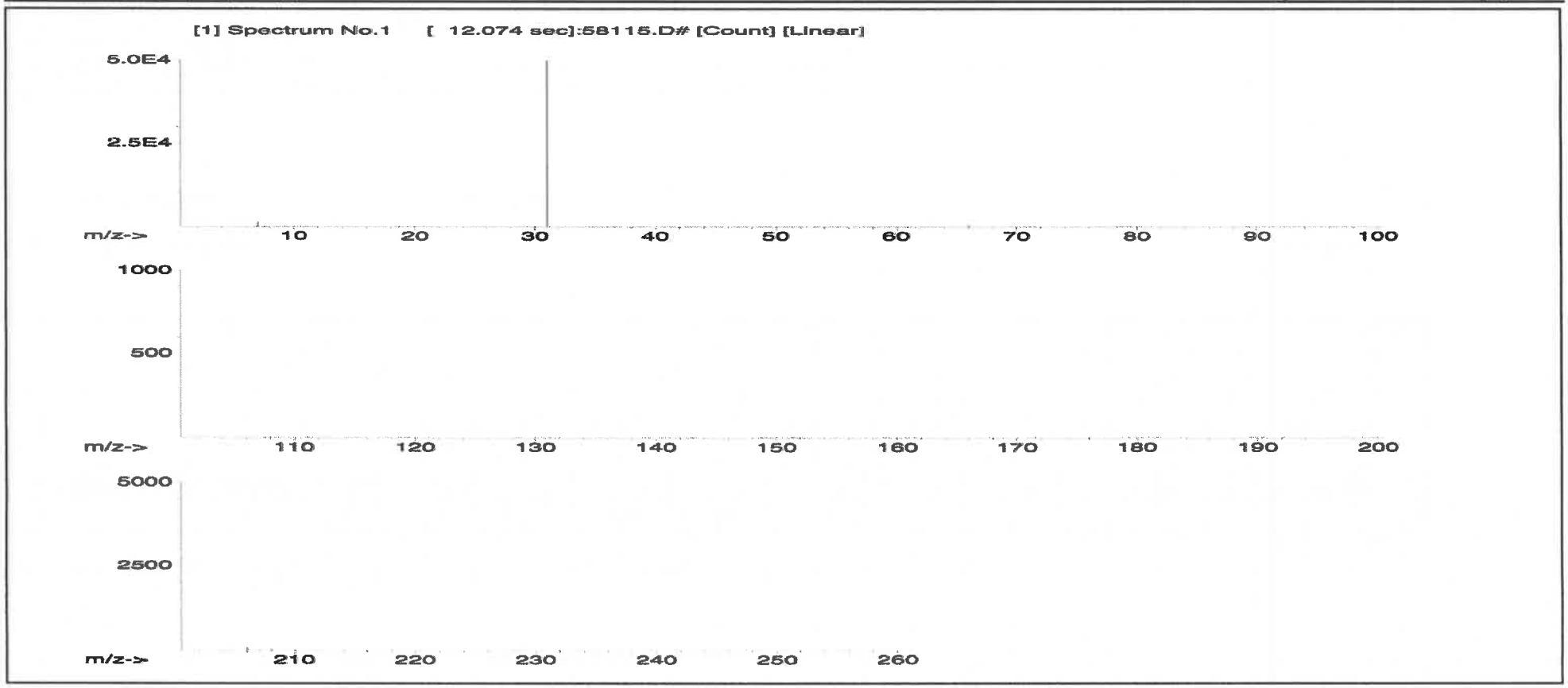
533

CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **57015** | | **Lot #** | | |
| **Lot Number:** | **091123** | **Solvent:** | 24002546 | Nitric Acid | |
| **Description:** | **Phosphorous (P)** | 2% | 40.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 091126 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 2000.02 | 0.058 | Flask Uncertainty | | |

| | | |
|---|---|---|
| Formulated By: | Lawrence Barry | 091123 |
| Reviewed By: | Pedro L. Rentas | 091123 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Ammonium dihydrogen phosphate (P) | IN008 | PV082019A1 | 1000 | 99.999 | 0.10 | 27.5 | 7.2729 | 7.2730 | **1000.0** | **2.0** | 7722-76-1 | 5 mg/m3 | orl-rat >2000mg/k | 3186 |



534

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | T | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

**Certified by:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

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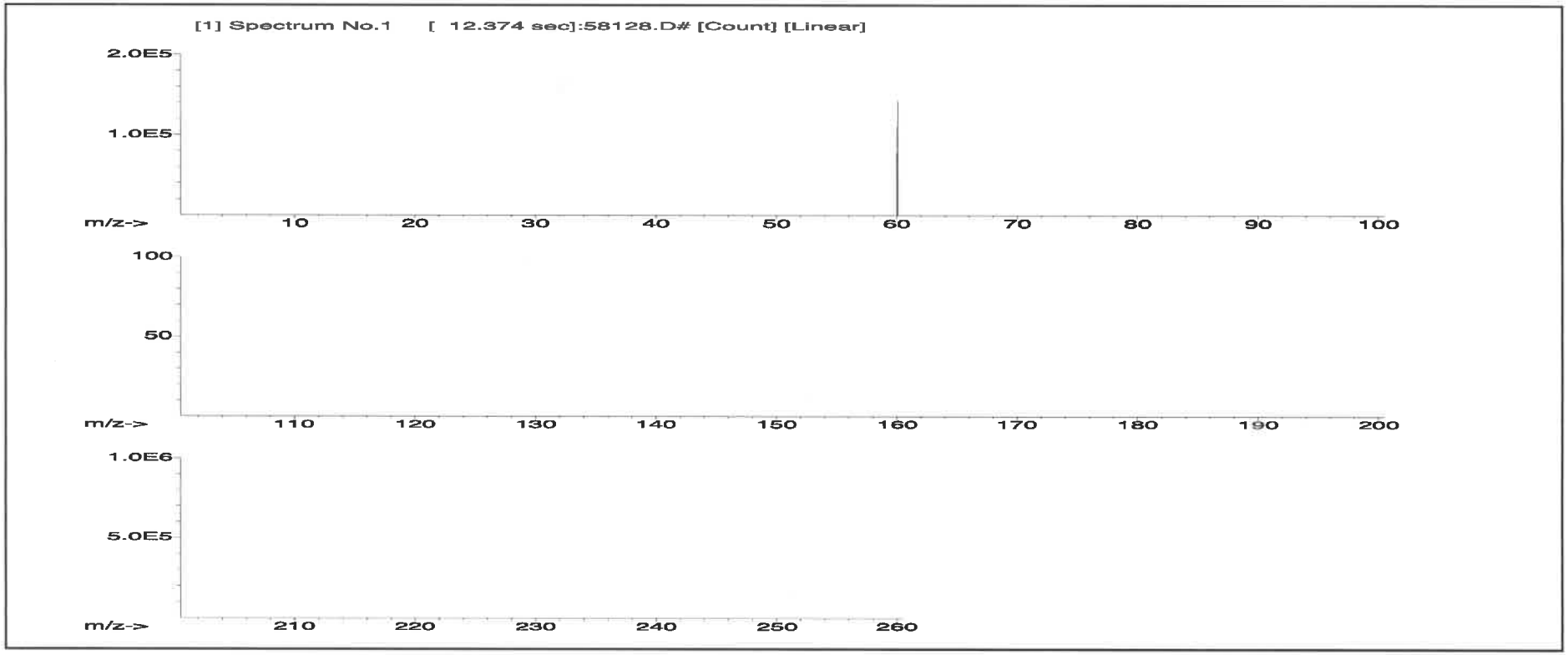
535

CERTIFIED WEIGHT REPORT:

| | | | Lot # | |
|---|---|---|---|---|
| **Part Number:** | **57028** | **Solvent:** | 24002546 | Nitric Acid |
| **Lot Number:** | **041124** | | | |
| **Description:** | **Nickel (Ni)** | | | |
| | | 2% | 5.0 (mL) | Nitric Acid |
| **Expiration Date:** | 041127 | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | |
| **Weight shown below was diluted to (mL):** | 249.85 | 0.002 | Flask Uncertainty | |

| | | |
|---|---|---|
| Formulated By: | Brian Geddes | 041124 |
| Reviewed By: | Pedro L. Rentas | 041124 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Nickel(II) nitrate hexahydrate (Ni) | IN033 | NIM052023A1 | 1000 | 99.999 | 0.10 | 20.2 | 1.2369 | 1.2369 | **1000.0** | **2.0** | 13478-00-7 | 1 mg/m3 | orl-rat 1620 mg/kg | 3136 |



536

**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.

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***Certified Reference Material CRM***

M5962 R! 06/14/24.

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

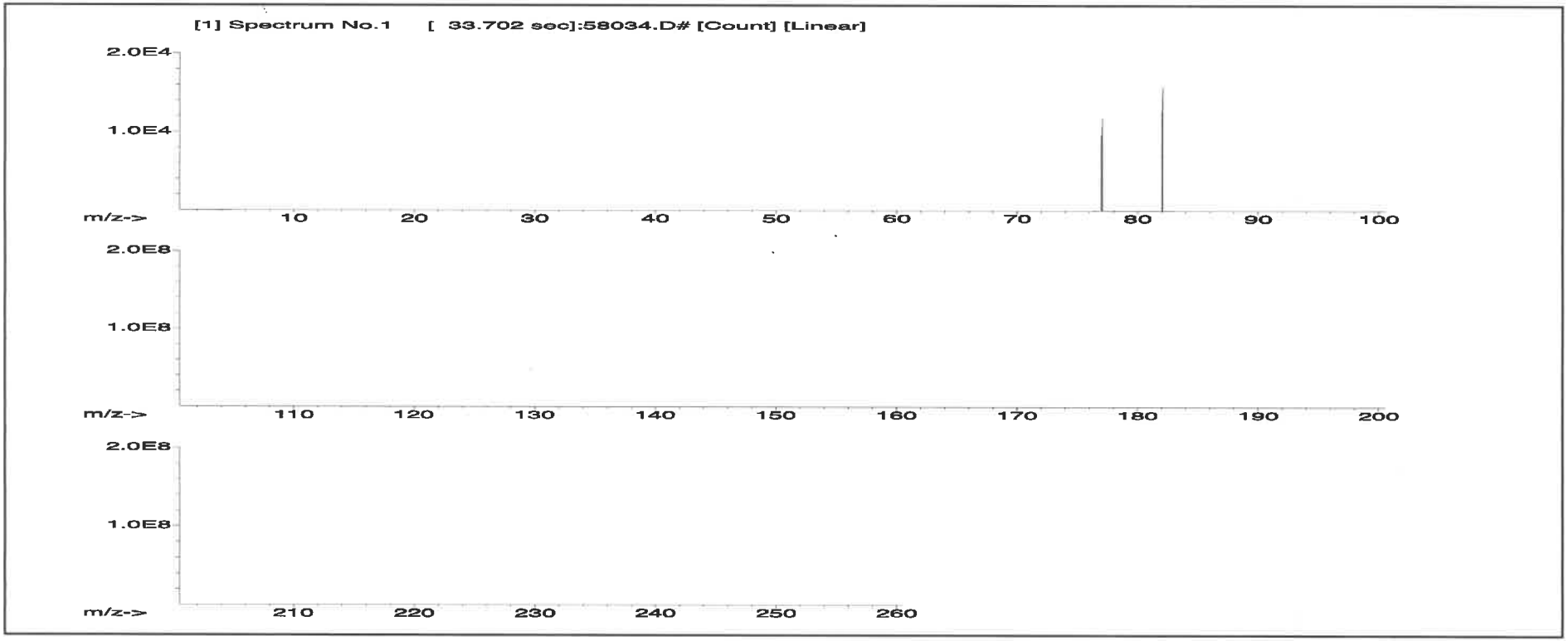
537

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 |



538

**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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F: 540-585-3012
info@inorganicventures.com

## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 — ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Single Analyte Custom Grade Solution |
| Catalog Number: | 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,79Br1 6O,190Os2+,190Pt 2+ |
| ICP-OES 202.030 nm | 0.008 / 0.0002 µg/mL | 1 | Os, Hf |
| ICP-OES 203.844 nm | 0.012 / 0.002 µg/mL | 1 | |
| ICP-OES 204.598 nm | 0.012 / 0.001 µg/mL | 1 | Ir, Ta |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02



## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

July 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

**- July 17, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Prepared By:**

Uyen Truong
Supervisor, Product Documentation



**Certificate Approved By:**

Michael Booth
Director, Technical



**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director



M5978, M5979

INORGANIC VENTURES™
Refine your results. Redefine your industry.

# 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:**

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

$X_i$ = mean of Assay Method i with standard uncertainty $u_{char\ i}$
$w_i$ = the weighting factors for each method calculated using the inverse square of the variance

$w_i = (1/u_{char\ i}^2) / (\Sigma(1/u_{char\ i}^2))$

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$**

k = coverage factor = 2

$u_{char} = (\Sigma(w_i)^2\ (u_{char\ i})^2)^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

**Characterization of CRM/RM by One Method**

**Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:**

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

$X_a$ = mean of Assay Method A with
$u_{char\ a}$ = the standard uncertainty of characterization Method A

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$**

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M | Ag | < | 0.000536 | M | Eu | < | 0.000268 | O | Na | < | 0.032670 | M | Se | | 0.001204 | O | Zn | < | 0.003267 |
| O | Al | | 0.000872 | O | Fe | | 0.003225 | O | Nb | < | 0.043560 | O | Si | | 0.004735 | O | Zr | < | 0.043560 |
| M | As | < | 0.008586 | M | Ga | < | 0.000268 | M | Nd | < | 0.000268 | M | Sm | < | 0.000268 | | | | |
| M | Au | < | 0.004577 | M | Gd | < | 0.000268 | O | Ni | < | 0.010890 | M | Sn | | 0.000096 | | | | |
| O | B | < | 0.008929 | M | Ge | < | 0.002146 | M | Os | < | 0.000269 | O | Sr | | 0.000096 | | | | |
| M | Ba | < | 0.002683 | M | Hf | | 0.002161 | O | P | < | 0.054450 | M | Ta | | 0.010560 | | | | |
| M | Be | < | 0.005366 | M | Hg | < | 0.003231 | M | Pb | < | 0.001073 | M | Tb | < | 0.000268 | | | | |
| M | Bi | < | 0.001609 | M | Ho | < | 0.000268 | M | Pd | < | 0.000268 | M | Te | < | 0.001341 | | | | |
| O | Ca | | 0.000676 | M | In | < | 0.002683 | M | Pr | < | 0.000268 | M | Th | < | 0.053663 | | | | |
| M | Cd | < | 0.000268 | M | Ir | < | 0.000269 | M | Pt | < | 0.000536 | s | Ti | < | | | | | |
| M | Ce | < | 0.000268 | M | K | | 0.001172 | M | Rb | < | 0.000268 | M | Tl | < | 0.000268 | | | | |
| M | Co | < | 0.004293 | M | La | < | 0.000268 | M | Re | < | 0.000268 | M | Tm | < | 0.000268 | | | | |
| M | Cr | | 0.000752 | O | Li | < | 0.027225 | M | Rh | < | 0.000268 | M | U | < | 0.000268 | | | | |
| M | Cs | < | 0.000268 | M | Lu | < | 0.000268 | M | Ru | < | 0.000269 | M | V | < | 0.019855 | | | | |
| O | Cu | < | 0.010890 | O | Mg | < | 0.005445 | i | S | < | | M | W | | 0.000473 | | | | |
| M | Dy | < | 0.000268 | O | Mn | < | 0.003267 | M | Sb | < | 0.006976 | M | Y | < | 0.002146 | | | | |
| M | Er | < | 0.000268 | M | Mo | | 0.000774 | O | Sc | < | 0.004900 | M | Yb | < | 0.000536 | | | | |

M - Checked by ICP-MS  O - Checked by ICP-OES  i - Spectral Interference
n - Not Checked For  s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution -** 47.87 +4 6 Ti(F)6-2

**Chemical Compatibility -** Soluble in concentrated HCl, HF, H3PO4 H2SO4 and HNO3. Avoid neutral to basic media. Unstable at ppm levels with metals that would pull F- away (i.e. Do not mix with Alkaline or Rare Earths or high levels of transition elements unless they are fluorinated). Stable with most inorganic anions with a tendency to hydrolyze forming the hydrated oxide in all dilute acids except HF.

**Stability -** 2-100 ppb levels stable (Alone or mixed with all other metals) as the Ti(F)6-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the Ti(F)6-2 chemically stable for years in 2-5% HNO3 / trace HF in an LDPE container.

**Ti Containing Samples (Preparation and Solution) -** Metal (Soluble in H2O / HF caution -powder reacts violently); Oxide - low temperature history anatase or rutile (Dissolved by heating in 1:1:1 H2O / HF / H2SO4); Oxide - high temperature history (~800EC) brookite (fuse in Pt0 with K2S2O7); Ores ( fuse in Pt0 with KF + K2S2O7 - no KF if silica not present); Organic Matrices (Dry ash at 450EC in Pt0 and dissolve by heating with 1:1:1 H2O / HF / H2SO4 or fuse ash with pyrosulfate if oxide is as plastic pigment and likely in brookite crystalline form).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|---|---|---|---|
| ICP-MS 48 amu | 14 ppt | N/A | 32S16O, 32S14N, 14N16O18O, 14N17N2, 36Ar12C, 48Ca, [96X=2 (where X = Zr, Mo, Ru)] |
| ICP-OES 323.452 nm | 0.0054 / 0.00092 µg/mL | 1 | Ce, Ar, Ni |
| ICP-OES 334.941 nm | 0.0038 / 0.000028 µg/mL | 1 | Nb, Ta, Cr, U |
| ICP-OES 336.121 nm | 0.0053 / 0.000034 µg/mL | 1 | W, Mo, Co |

**HF Note:** This standard should not be prepared or stored in glass.

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

**10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"**

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

**11.1 Certification Issue Date**

June 17, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

**11.2 Lot Expiration Date**

**- June 17, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

**11.3 Period of Validity**

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Thomas Kozikowski
Manager, Quality Control

**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

H5981 R:6/11/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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 | | |

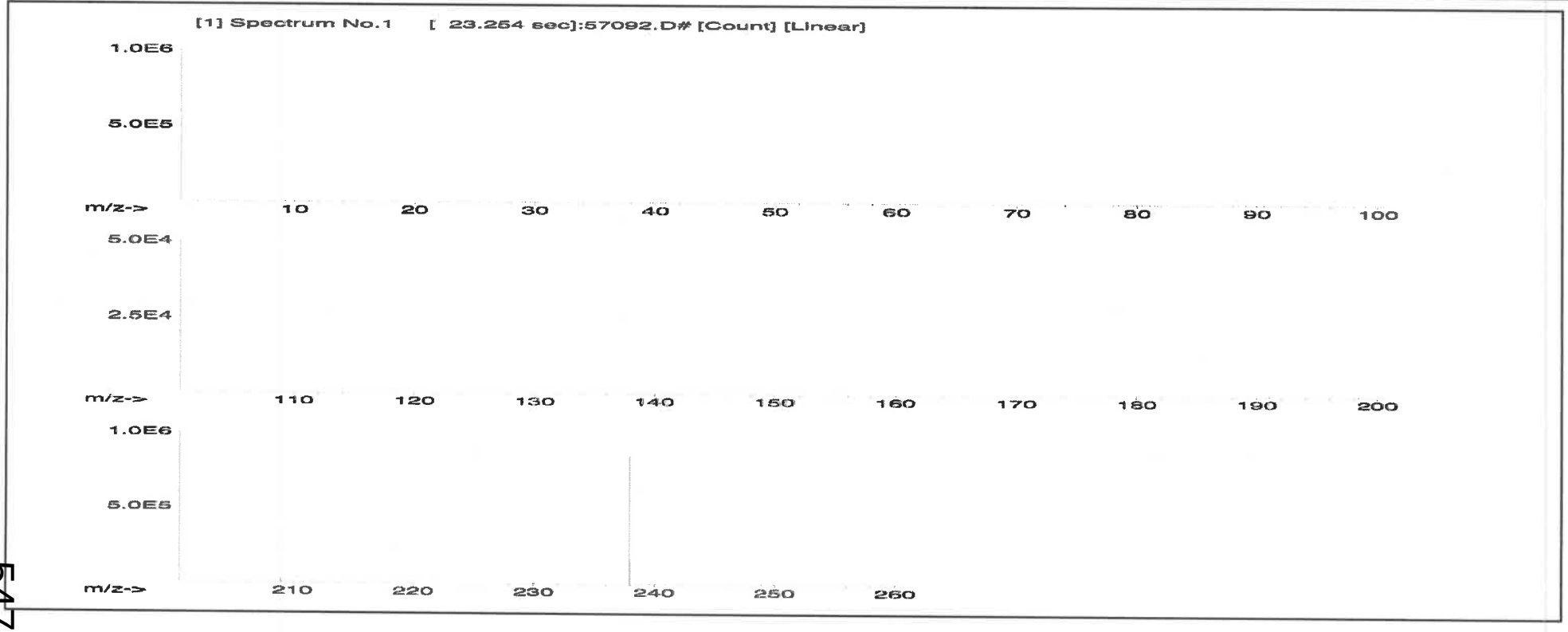
Giovanni Esposito

| 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:**

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***

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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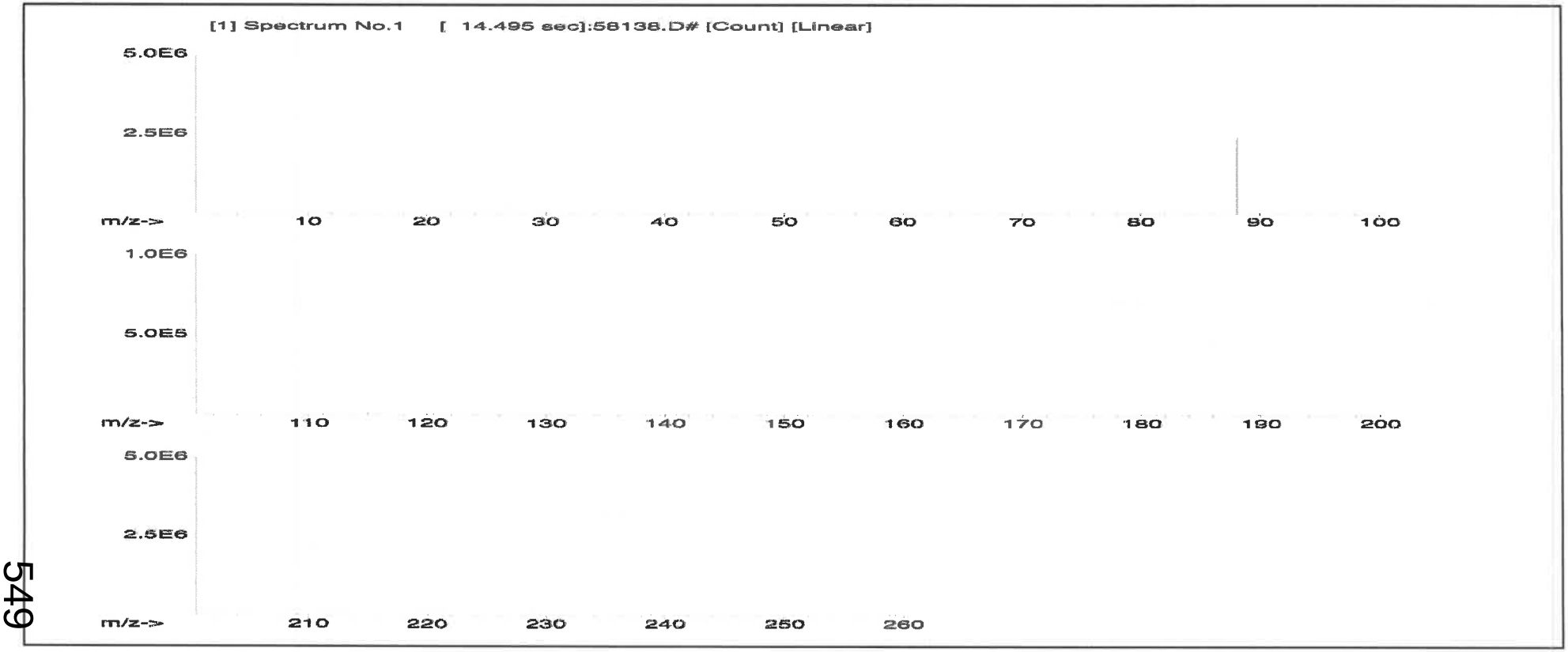
45982 R: 6/11/24

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 |




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**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | T | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Certified by:

Homogeneity: No heterogeneity was observed in the preparation of this standard.

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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*Certified Reference Material CRM*

M5983 R: 6/11/24

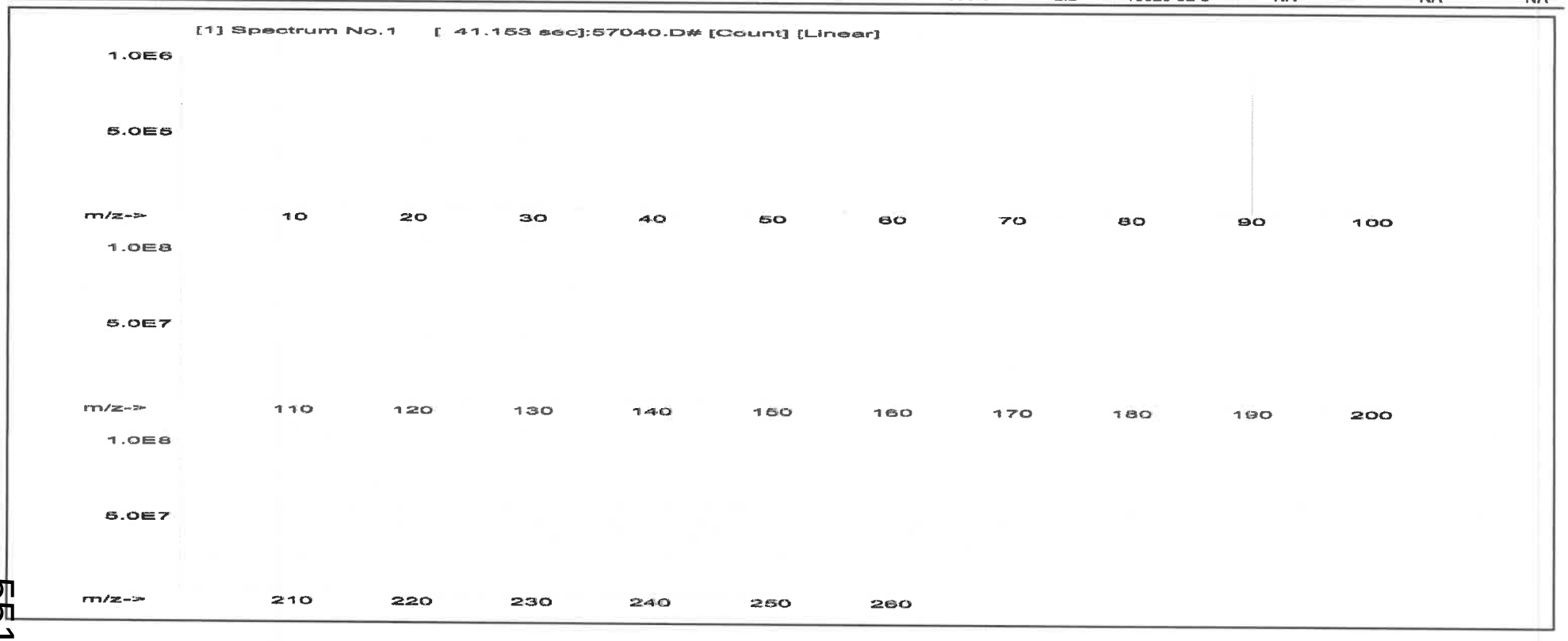
ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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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# Certificate of Analysis

Refine your results. Redefine your industry.

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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F: 540-585-3012
info@inorganicventures.com

R: 2/22/2024
M5999

## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Multi Analyte Custom Grade Solution |
| Catalog Number: | CLPP-SPK-1 |
| Lot Number: | T2-MEB721963 |
| Matrix: | 7% (v/v) HNO3 |
| Value / Analyte(s): | 2 000 µg/mL ea: Aluminum, Barium,<br>1 000 µg/mL ea: Iron,<br>500 µg/mL ea: Manganese, Nickel, Vanadium, Zinc, Cobalt,<br>250 µg/mL ea: Copper,<br>200 µg/mL ea: Chromium,<br>50 µg/mL ea: Beryllium, Silver |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|---|---|---|---|
| Aluminum, Al | 2 000 ± 7 µg/mL | Barium, Ba | 2 000 ± 9 µg/mL |
| Beryllium, Be | 50.00 ± 0.26 µg/mL | Chromium, Cr | 200.0 ± 1.1 µg/mL |
| Cobalt, Co | 500.0 ± 2.4 µg/mL | Copper, Cu | 250.0 ± 1.0 µg/mL |
| Iron, Fe | 1 000 ± 4 µg/mL | Manganese, Mn | 500.0 ± 2.0 µg/mL |
| Nickel, Ni | 500.0 ± 2.2 µg/mL | Silver, Ag | 50.00 ± 0.22 µg/mL |
| Vanadium, V | 500.0 ± 2.2 µg/mL | Zinc, Zn | 500.0 ± 2.2 µg/mL |

**Density:** 1.070 g/mL (measured at 20 ± 4 °C)

**Assay Information:**

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---|---|---|---|
| Ag | ICP Assay | 3151 | 160729 |
| Ag | Volhard | 999c | 999c |
| Ag | Calculated | | See Sec. 4.2 |
| Al | ICP Assay | 3101a | 140903 |
| Al | EDTA | 928 | 928 |
| Ba | ICP Assay | 3104a | 140909 |
| Ba | Gravimetric | | See Sec. 4.2 |
| Be | ICP Assay | 3105a | 090514 |
| Be | Calculated | | See Sec. 4.2 |
| Co | ICP Assay | 3113 | 190630 |
| Co | EDTA | 928 | 928 |
| Cr | ICP Assay | 3112a | 170630 |
| Cu | ICP Assay | 3114 | 121207 |
| Cu | EDTA | 928 | 928 |
| Fe | ICP Assay | 3126a | 140812 |
| Fe | EDTA | 928 | 928 |
| Mn | ICP Assay | 3132 | 050429 |
| Mn | EDTA | 928 | 928 |
| Ni | ICP Assay | 3136 | 120619 |
| Ni | EDTA | 928 | 928 |
| V | IC Assay | 3165 | 160906 |
| V | EDTA | 928 | 928 |
| Zn | ICP Assay | 3168a | 120629 |
| Zn | EDTA | 928 | 928 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### Characterization of CRM/RM by Two or More Methods

**Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:**

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

$X_i$ = mean of Assay Method i with standard uncertainty $u_{char\ i}$

$w_i$ = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$**

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

**Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:**

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

$X_a$ = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$**

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

**Note**: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

July 27, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

### 11.2 Lot Expiration Date

**- July 27, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

### 11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Approved By:**

Thomas Kozikowski
Manager, Quality Control



**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director



**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

R: 01/03/24 M6033

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

557

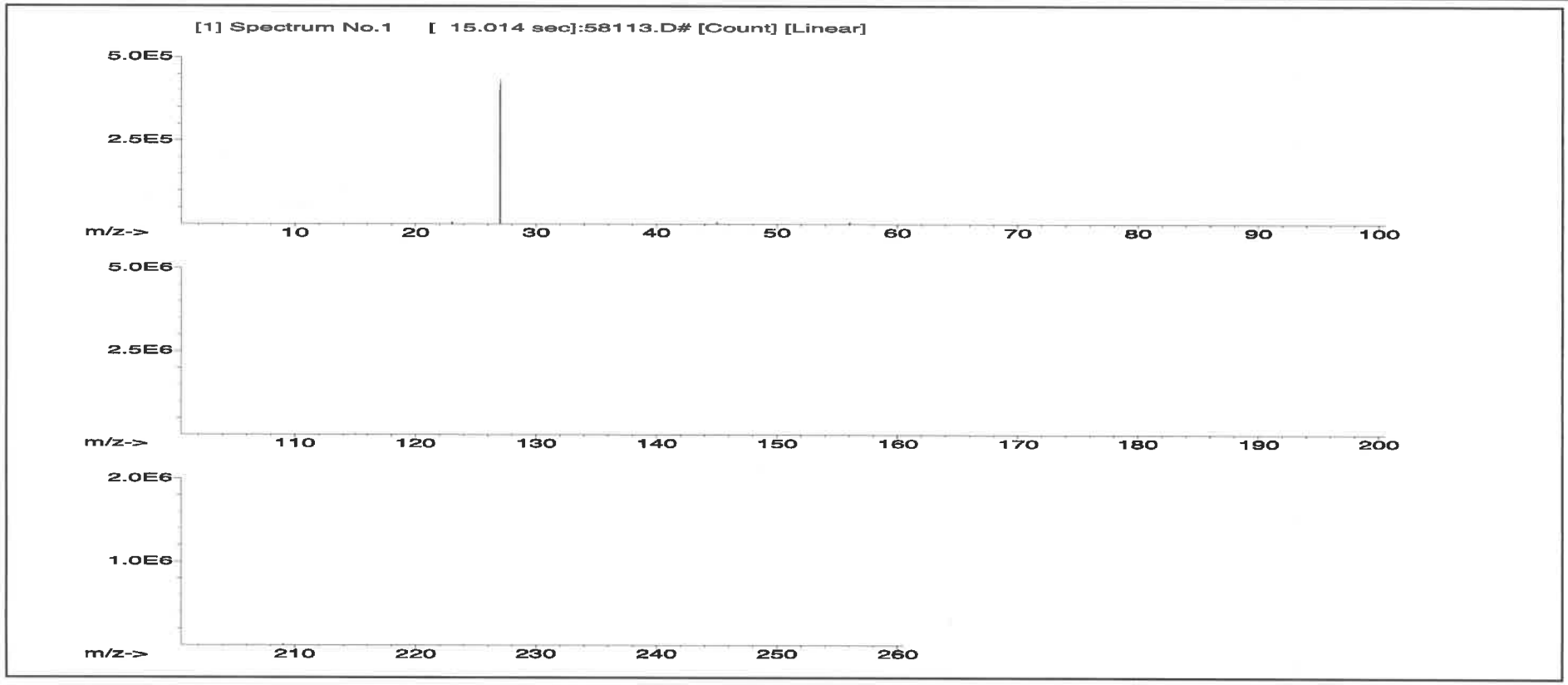
CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **58113** | | **Solvent:** | 20510011 | Nitric Acid |
| **Lot Number:** | **011623** | | | | |
| **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 | | |

Lot #

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



INORGANIC VENTURES™
Refine your results. Redefine your industry.

# Certificate of Analysis

R 8/19/24, 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



Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

M6094
M6095.

metdig
10/21/24.

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

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

M6109
M6110
M6111

Received date 9/29/24 Met dig.

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22F0762009
Manufactured Date: 2022-05-10
Retest Date: 2027-05-09
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 | 1.190 |
| 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 | 0.8 ppb |
| Arsenic and Antimony (as As) | ≤ 5.0 ppb | < 3.0 ppb |
| Trace Impurities – Barium (Ba) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities – Beryllium (Be) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities – Bismuth (Bi) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities – Boron (B) | ≤ 20.0 ppb | < 5.0 ppb |
| Trace Impurities – Cadmium (Cd) | ≤ 1.0 ppb | < 0.3 ppb |
| Trace Impurities – Calcium (Ca) | ≤ 50.0 ppb | 14.9 ppb |
| Trace Impurities – Chromium (Cr) | ≤ 1.0 ppb | < 0.4 ppb |
| Trace Impurities – Cobalt (Co) | ≤ 1.0 ppb | < 0.3 ppb |
| Trace Impurities – Copper (Cu) | ≤ 1.0 ppb | < 0.1 ppb |
| Trace Impurities – Gallium (Ga) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities – Germanium (Ge) | ≤ 3.0 ppb | < 2.0 ppb |
| Trace Impurities – Gold (Au) | ≤ 4.0 ppb | 0.2 ppb |
| Heavy Metals (as Pb) | ≤ 100 ppb | < 50 ppb |
| Trace Impurities – Iron (Fe) | ≤ 15 ppb | 6 ppb |

>>> Continued on page 2 >>>



For questions on this Certificate of Analysis please contact Technical Services at 855 282 6867 or +1 610 386 1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22F0762009

| Test | Specification | Result |
|---|---|---|
| Trace Impurities - Lead (Pb) | ≤ 1.0 ppb | < 0.5 ppb |
| Trace Impurities - Lithium (Li) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities - Magnesium (Mg) | ≤ 10.0 ppb | 0.8 ppb |
| Trace Impurities - Manganese (Mn) | ≤ 1.0 ppb | < 0.4 ppb |
| Trace Impurities - Mercury (Hg) | ≤ 0.5 ppb | 0.1 ppb |
| Trace Impurities - Molybdenum (Mo) | ≤ 10.0 ppb | < 3.0 ppb |
| Trace Impurities - Nickel (Ni) | ≤ 4.0 ppb | < 0.3 ppb |
| Trace Impurities - Niobium (Nb) | ≤ 1.0 ppb | < 0.2 ppb |
| Trace Impurities - Potassium (K) | ≤ 9.0 ppb | < 2.0 ppb |
| Trace Impurities - Selenium (Se), For Information Only | | < 1.0 ppb |
| Trace Impurities - Silicon (Si) | ≤ 100.0 ppb | 1.0 ppb |
| Trace Impurities - Silver (Ag) | ≤ 1.0 ppb | < 0.3 ppb |
| Trace Impurities - Sodium (Na) | ≤ 100.0 ppb | 0.7 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 | < 0.8 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 | 0.8 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.: 22F0762009

| Test | Specification | Result |
|---|---|---|

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

Nitric Acid 69%
CMOS

M6112
M6113
M6114
M6115
M6116
M6117

Receive:
9/29/24
Met dig

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001
Manufactured Date: 2024-01-25
Retest Date: 2029-01-23
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($HNO_3$) | 69.0 - 70.0 % | 69.6 % |
| 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 | < 0.2 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 | < 50 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.: 24B1362001

| Test | Specification | Result |
|---|---|---|
| Trace Impurities – Niobium (Nb) | ≤ 50.0 ppb | < 1.0 ppb |
| Trace Impurities – Potassium (K) | ≤ 50 ppb | < 10 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 | 3 par/ml |
| Particle Count – 1.0 µm and greater | ≤ 10 par/ml | 1 par/ml |

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001

| Test | Specification | Result |
|---|---|---|

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Nitric Acid 69%
CMOS

M6112
M6113
M6114
M6115
M6116
M6117

Receive:
9/29/24
Met dig

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001
Manufactured Date: 2024-01-25
Retest Date: 2029-01-23
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($HNO_3$) | 69.0 - 70.0 % | 69.6 % |
| 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 | < 0.2 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 | < 50 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.: 24B1362001

| Test | Specification | Result |
|---|---|---|
| Trace Impurities – Niobium (Nb) | ≤ 50.0 ppb | < 1.0 ppb |
| Trace Impurities – Potassium (K) | ≤ 50 ppb | < 10 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 | 3 par/ml |
| Particle Count – 1.0 µm and greater | ≤ 10 par/ml | 1 par/ml |

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001

| Test | Specification | Result |
|---|---|---|

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

**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

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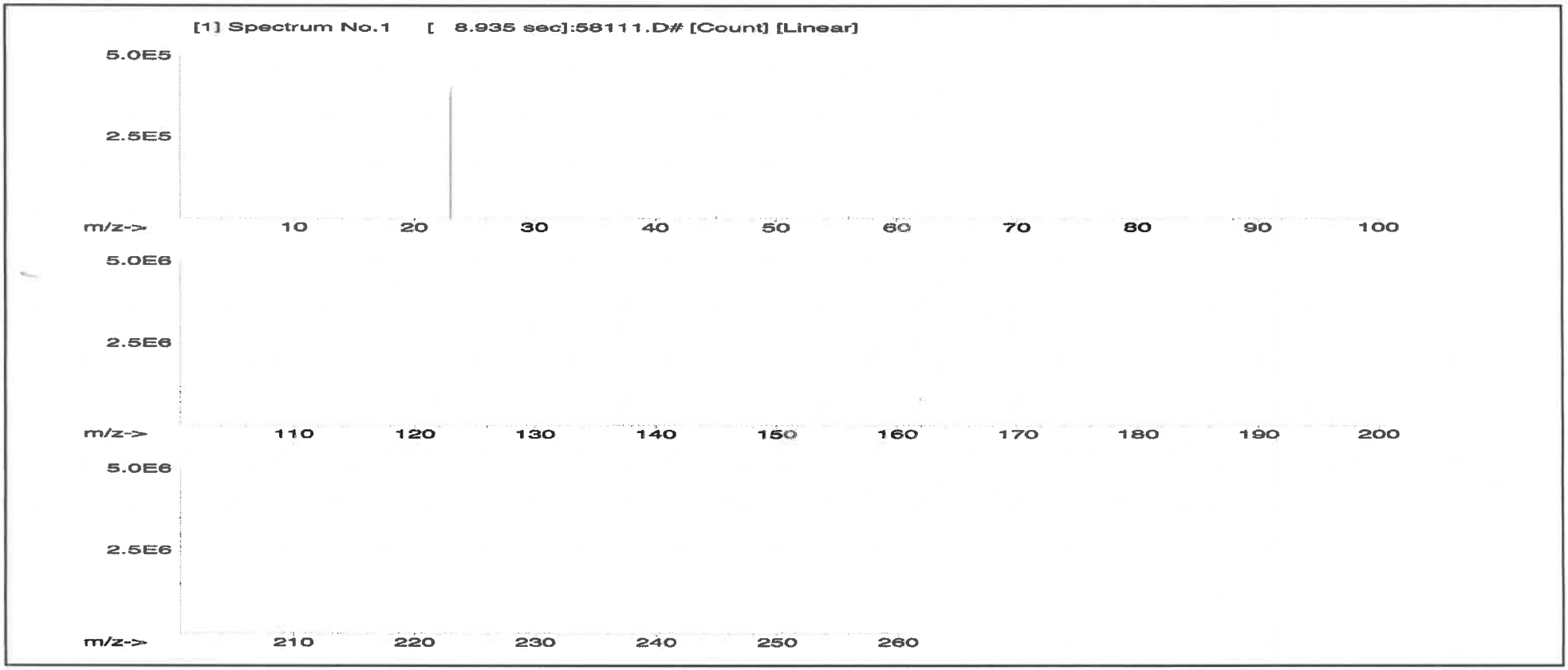
## CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **58111** | | **Lot #** | | |
| **Lot Number:** | **122223** | **Solvent:** | 24002546 | Nitric Acid | |
| **Description:** | **Sodium (Na)** | 2% | 60.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 122226 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **10000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 3000.4 | 0.06 | Flask Uncertainty | | |

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 |



575

**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
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: | 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:

**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.

**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:

**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

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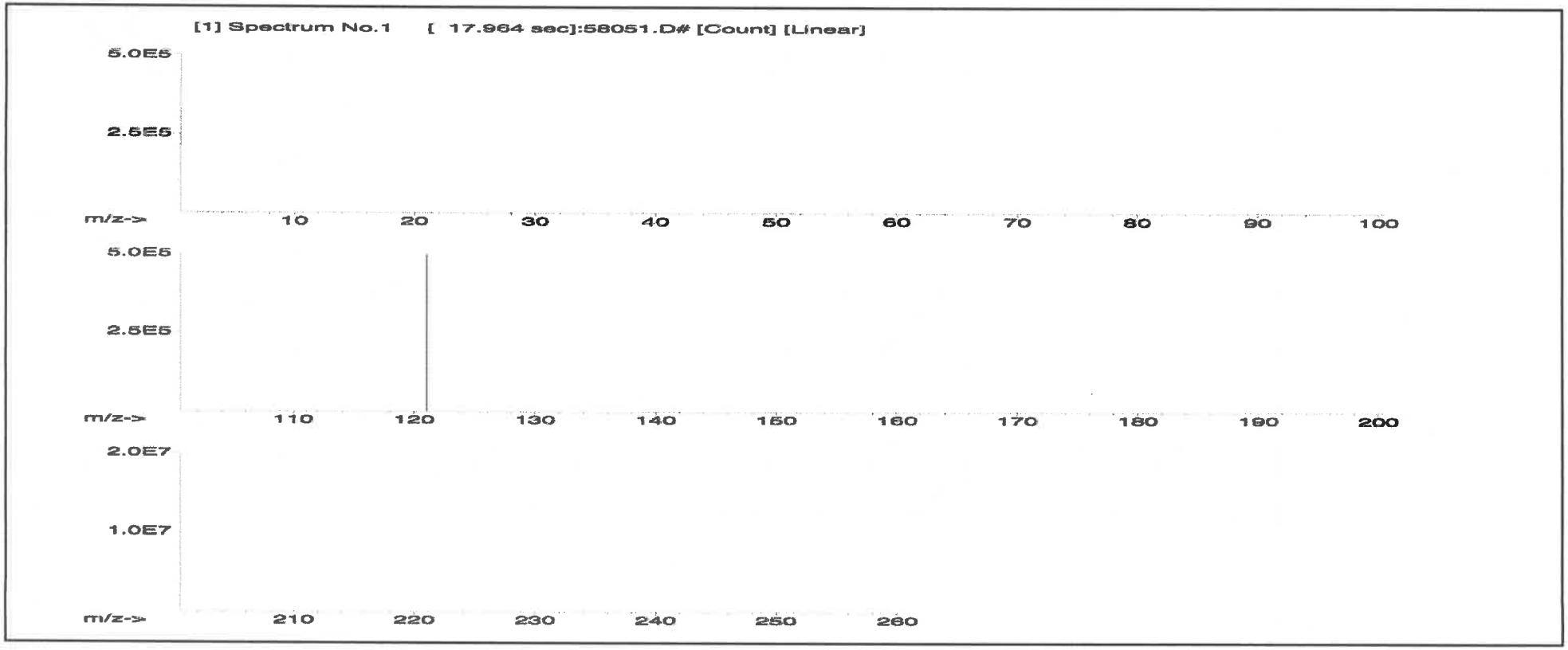
584

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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M6030

R: 8/5/24

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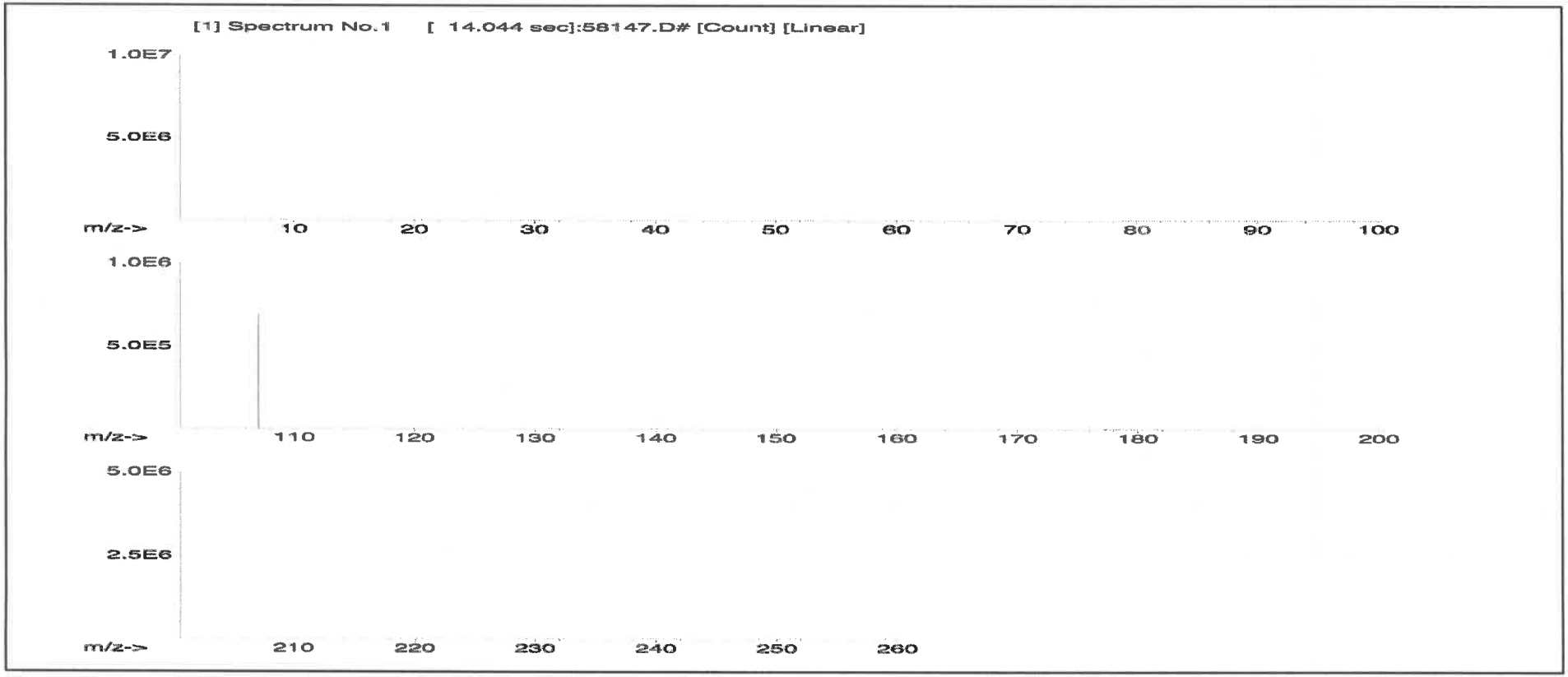
586

CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **57047** | | | **Lot #** | |
| **Lot Number:** | **122823** | **Solvent:** | 24002546 | Nitric Acid | |
| **Description:** | **Silver (Ag)** | | | | |
| | | 2% | 80.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 122826 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **1000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 4000.30 | 0.058 | Flask Uncertainty | | |

| | | |
|---|---|---|
| Formulated By: | Benson Chan | 122823 |
| Reviewed By: | Pedro L. Rentas | 122823 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | Actual Conc. (µg/mL) | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Silver nitrate (Ag) | IN035 | J0612AGA1 | 1000.0 | 99.9999 | 0.10 | 63.7 | 6.27992 | 6.27998 | **1000.0** | **2.0** | 7761-88-8 | 10 ug/m3 | NA | 3151 |



587

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | T | Tl | <0.02 | V | <0.02 |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T)= Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

**Certified by:**

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

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R: 03/16/23 M5473, M5474, M5475, M5476

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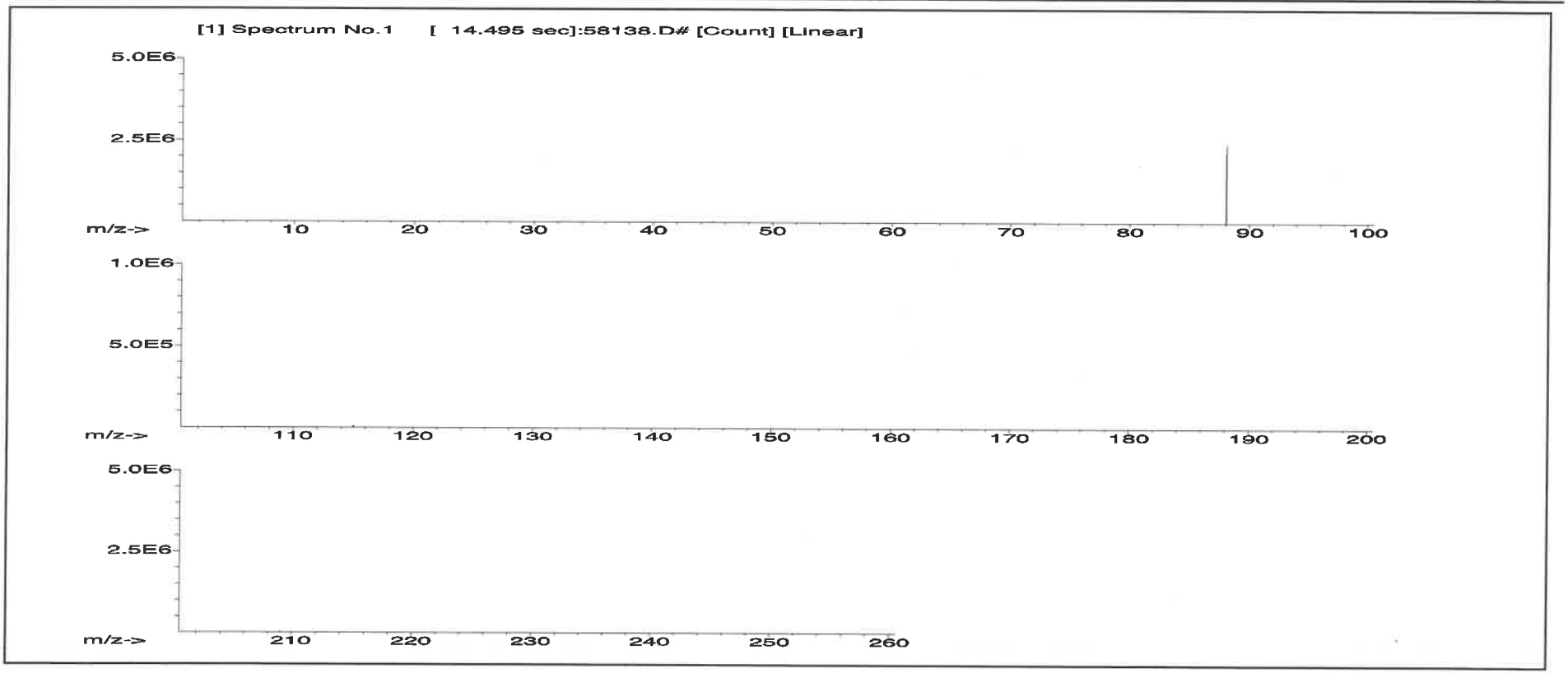
588

CERTIFIED WEIGHT REPORT:

| | | | | | |
|---|---|---|---|---|---|
| **Part Number:** | **56138** | | **Lot #** | | |
| **Lot Number:** | **082922** | **Solvent:** | 20510011 | Nitric Acid | |
| **Description:** | **Strontium (Sr)** | | | | |
| | | 2% | 20.0 (mL) | Nitric Acid | |
| **Expiration Date:** | 082925 | | | | |
| **Recommended Storage:** | Ambient (20 °C) | | | | |
| **Nominal Concentration (µg/mL):** | **10000** | | | | |
| **NIST Test Number:** | 6UTB | 5E-05 | Balance Uncertainty | | |
| **Weight shown below was diluted to (mL):** | 1000.12 | 0.058 | Flask Uncertainty | | |

| | | |
|---|---|---|
| Formulated By: | Lawrence Barry | 082922 |
| Reviewed By: | Pedro L. Rentas | 082922 |

| Compound | RM# | Lot Number | Nominal Conc. (µg/mL) | Purity (%) | Uncertainty Purity (%) | Assay (%) | Target Weight (g) | Actual Weight (g) | **Actual Conc. (µg/mL)** | Expanded Uncertainty +/- (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 | NIST SRM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Strontium nitrate (Sr) | IN017 | SRZ022018A1 | 10000 | 99.997 | 0.10 | 41.2 | 24.2756 | 24.2758 | **10000.1** | **20.0** | 10042-76-9 | NA | orl-rat >2000mg/kg | 3153a |



589

**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 ! 8/5/24

590

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 | | |

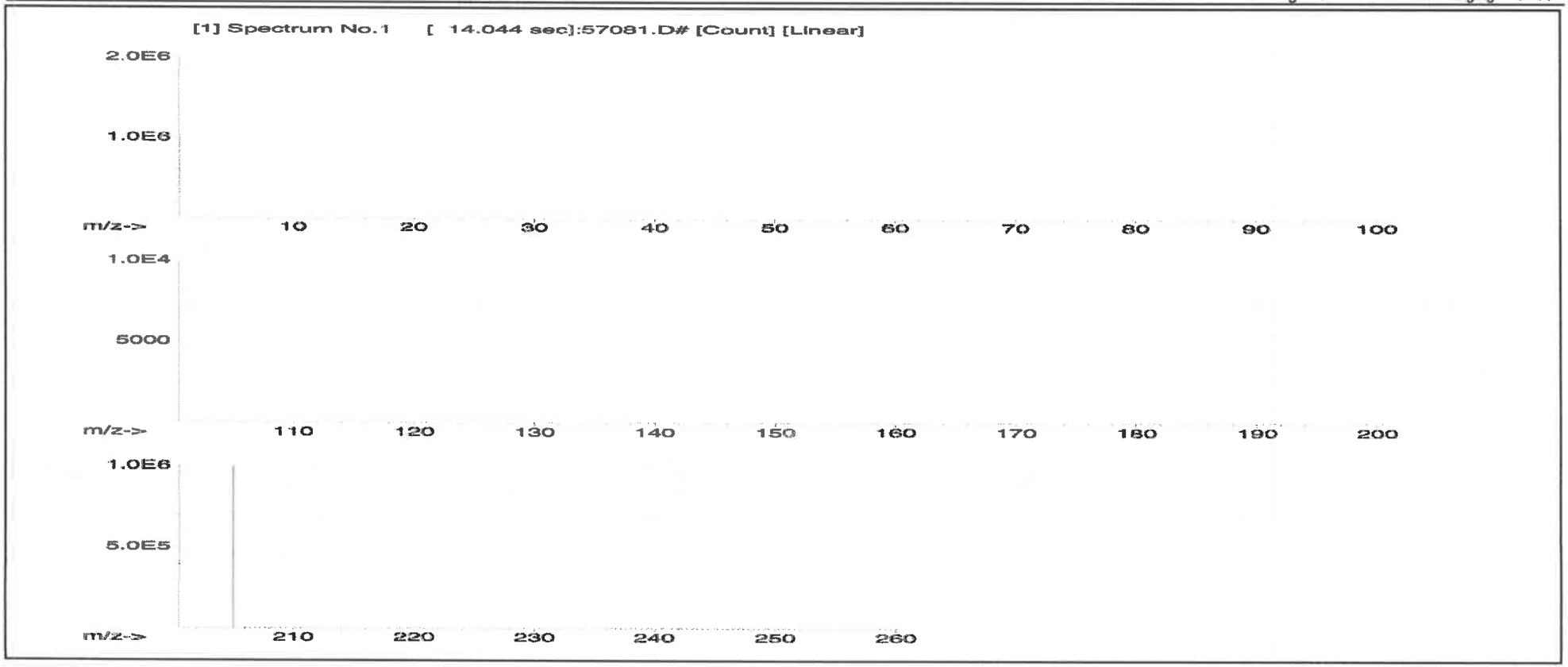
Aleah O'Brady

| | | |
|---|---|---|
| Formulated By: | Aleah O'Brady | 062724 |

Pedro Rentas

| | | |
|---|---|---|
| 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:



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

M6021

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Rc. 8/5/24

592

CERTIFIED WEIGHT REPORT:

| | | Lot # | Solvent: | |
|---|---|---|---|---|
| **Part Number:** | **57023** | | | |
| **Lot Number:** | **062424** | | | |
| **Description:** | **Vanadium (V)** | 24002546 | Nitric Acid | |
| | | 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 | |

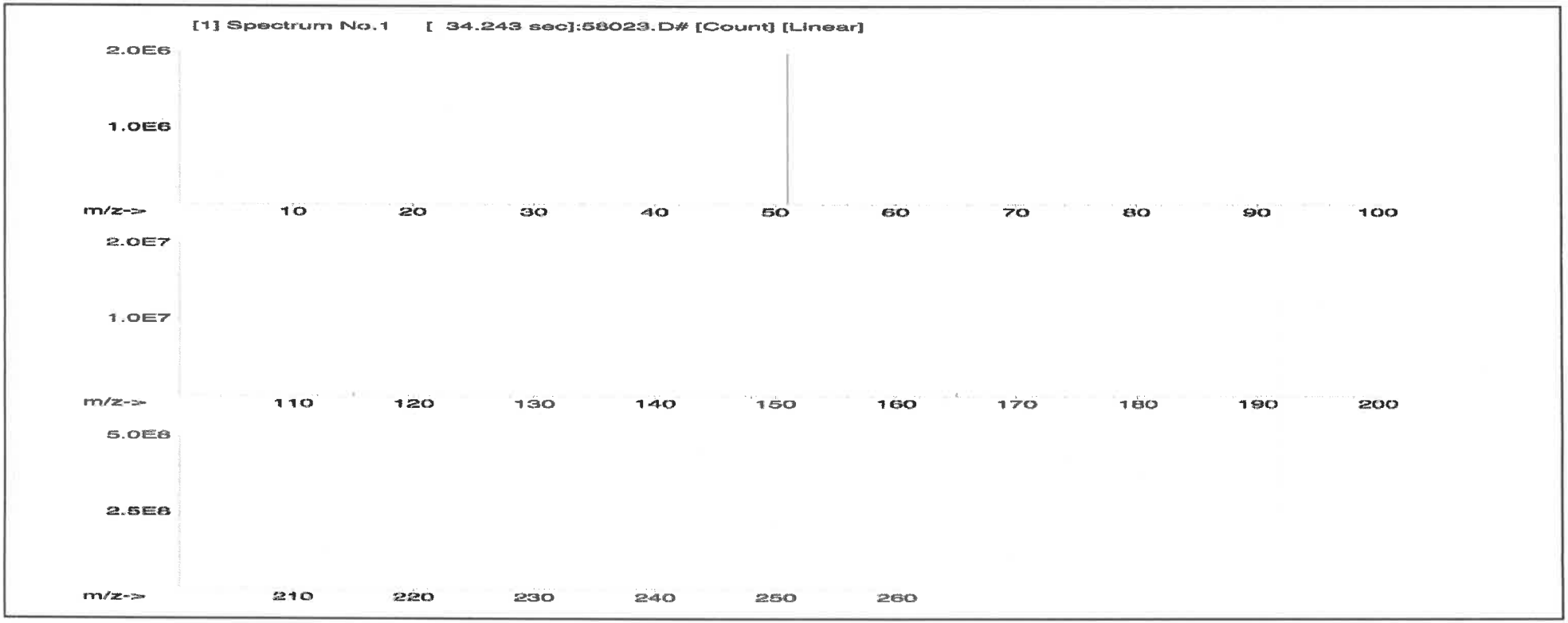
Aleah O'Brady

| 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 |



593

**Instrumental Analysis by Inductively Coupled Plasma Mass Spectrometry (ICP-MS):**

| Trace Metals Verification by ICP-MS (µg/mL) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Al | <0.02 | Cd | <0.02 | Dy | <0.02 | Hf | <0.02 | Li | <0.02 | Ni | <0.02 | Pr | <0.02 | Se | <0.2 | Tb | <0.02 | W | <0.02 |
| Sb | <0.02 | Ca | <0.2 | Er | <0.02 | Ho | <0.02 | Lu | <0.02 | Nb | <0.02 | Re | <0.02 | Si | <0.02 | Te | <0.02 | U | <0.02 |
| As | <0.2 | Ce | <0.02 | Eu | <0.02 | In | <0.02 | Mg | <0.01 | Os | <0.02 | Rh | <0.02 | Ag | <0.02 | Tl | <0.02 | V | T |
| Ba | <0.02 | Cs | <0.02 | Gd | <0.02 | Ir | <0.02 | Mn | <0.02 | Pd | <0.02 | Rb | <0.02 | Na | <0.2 | Th | <0.02 | Yb | <0.02 |
| Be | <0.01 | Cr | <0.02 | Ga | <0.02 | Fe | <0.2 | Hg | <0.2 | P | <0.02 | Ru | <0.02 | Sr | <0.02 | Tm | <0.02 | Y | <0.02 |
| Bi | <0.02 | Co | <0.02 | Ge | <0.02 | La | <0.02 | Mo | <0.02 | Pt | <0.02 | Sm | <0.02 | S | <0.02 | Sn | <0.02 | Zn | <0.02 |
| B | <0.02 | Cu | <0.02 | Au | <0.02 | Pb | <0.02 | Nd | <0.02 | K | <0.2 | Sc | <0.02 | Ta | <0.02 | Ti | <0.02 | Zr | <0.02 |

(T) = Target analyte

**Physical Characterization:**

Homogeneity: No heterogeneity was observed in the preparation of this standard.

**Certified by:**

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).

Alliance TECHNICAL GROUP

**Water Metals Preparation Sheet**

PB165157

**SOP ID :** M200.8-Trace Elements-22, MSFAM01.1-Metals ICPMS-2

**SDG No :** E29Z5

**Matrix :** WATER

**Pippete ID:** ICP A

**Balance ID :** N/A

**Filter paper ID :** N/A

**pH Strip ID :** M6069

**Hood ID :** #1

**Block ID:** 1. HOT BLOCK #1 2. N/A

**Start Digest Date:** 11/21/2024 **Time :** 10:00 **Temp :** 95 °C

**End Digest Date:** 11/21/2024 **Time :** 12:10 **Temp :** 95 °C

**Digestion tube ID:** M5595

**Block thermometer ID:** MET-DIG. #1

**Dig Technician Signature:** jgp

**Supervisor Signature:**

**Temp :** 1. 95°C 2. N/A

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| LCSW | 0.50 | MP83045 |
| Spike Sol. B | 0.50 | MP83047 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| 1:1 HNO3 | 1.00 | MP83122 |
| 1:1 HCL | 0.50 | MP83105 |
| 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: 95 C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 11/21/24 13:00 | jgp / Met dig | Metals Lab |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

**Water Metals Preparation Sheet**

**PB165157**

| Lab Sample ID | Client Sample ID | pH | Initial Vol (ml) | Final Vol (ml) | Color Before | Color After | Clarity Before | Clarity After | Comment | Prep Pos |
|---|---|---|---|---|---|---|---|---|---|---|
| P4877-01 | E29Z1 | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 1 |
| P4877-02 | E29Z3 | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 2 |
| P4877-03 | E29Z5 | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 3 |
| P4877-04 | E29Z7 | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 4 |
| P4877-05 | E2A13 | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 5 |
| P4877-06 | E2A19 | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 6 |
| P4877-07 | E2A22 | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 7 |
| P4877-08 | E2A23 | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 8 |
| P4877-09 | E29Z9 | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 9 |
| P4877-10 | E2A01 | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 10 |
| P4877-11 | E2A01D | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 11 |
| P4877-12 | E2A01S | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | MP83047 | 12 |
| P4877-13 | E2A03 | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 13 |
| P4877-14 | E2A05 | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 14 |
| P4877-15 | E2A07 | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 15 |
| P4877-16 | E2A09 | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 16 |
| P4877-17 | E2A20 | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 17 |
| P4877-18 | E2A24 | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 18 |
| P4877-19 | E29S9 | <2 | 50 | 50 | Colorless | Colorless | Clear | Clear | N/A | 19 |
| PB165157BL | PBW157 | <2 | 50 | 50 | Colorles | Colorles | Clear | Clear | N/A | 20 |
| PB165157BS | LCS157 | <2 | 50 | 50 | Colorles | Colorles | Clear | Clear | MP83045 | 21 |

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Fax : 908 789 8922

**Instrument ID:** P7

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133596

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 11/25/2024 6:18:46 AM |
| Supervise By | Mohan Bera | Supervise On | 11/25/2024 6:19:44 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83014,MP83039,MP83038,MP83036,MP83034,MP83035,MP83033,MP83032,MP83016 |
| ICV Standard | MP83041 |
| CCV Standard | MP83042 |
| ICSA Standard | MP83043,MP83044 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83050,MP83049 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | TUNE | TUNE001 | TUNE | 11/22/24 12:48 | | Jaswal | OK |
| 2 | S00 | S0 | CAL1 | 11/22/24 13:25 | | Jaswal | OK |
| 3 | S02 | S02 | CAL3 | 11/22/24 13:32 | | Jaswal | OK |
| 4 | S03 | S03 | CAL4 | 11/22/24 13:35 | | Jaswal | OK |
| 5 | S04 | S04 | CAL5 | 11/22/24 13:38 | | Jaswal | OK |
| 6 | S05 | S05 | CAL6 | 11/22/24 13:41 | | Jaswal | OK |
| 7 | S06 | S06 | CAL7 | 11/22/24 13:44 | | Jaswal | OK |
| 8 | S07 | S07 | CAL8 | 11/22/24 13:46 | | Jaswal | OK |
| 9 | S08 | S08 | CAL9 | 11/22/24 13:49 | | Jaswal | OK |
| 10 | ICV001 | ICV001 | ICV | 11/22/24 14:01 | Inst. paused for calibration review | Jaswal | OK |
| 11 | ICB001 | ICB001 | ICB | 11/22/24 14:05 | | Jaswal | OK |
| 12 | ICSA001 | ICSA001 | ICSA | 11/22/24 14:08 | | Jaswal | OK |
| 13 | ICSAB001 | ICSAB001 | ICSAB | 11/22/24 14:11 | | Jaswal | OK |
| 14 | CCV001 | CCV001 | CCV | 11/22/24 14:14 | | Jaswal | OK |
| 15 | CCB001 | CCB001 | CCB | 11/22/24 14:17 | | Jaswal | OK |
| 16 | PB165157BL | PBW157 | MB | 11/22/24 14:20 | | Jaswal | OK |
| 17 | PB165157BS | LCS157 | LCS | 11/22/24 14:23 | | Jaswal | OK |
| 18 | PB165158BL | PBW158 | MB | 11/22/24 14:26 | | Jaswal | OK |

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**Instrument ID:** P7

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133596

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|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 11/25/2024 6:18:46 AM |
| Supervise By | Mohan Bera | Supervise On | 11/25/2024 6:19:44 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83014,MP83039,MP83038,MP83036,MP83034,MP83035,MP83033,MP83032,MP83016 |
| ICV Standard | MP83041 |
| CCV Standard | MP83042 |
| ICSA Standard | MP83043,MP83044 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83050,MP83049 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | PB165158BS | LCS158 | LCS | 11/22/24 14:29 | | Jaswal | OK |
| 20 | P4879-22 | E2A11 | SAM | 11/22/24 14:33 | | Jaswal | OK |
| 21 | P4877-01 | E29Z1 | SAM | 11/22/24 14:36 | | Jaswal | OK |
| 22 | P4877-02 | E29Z3 | SAM | 11/22/24 14:39 | | Jaswal | OK |
| 23 | P4877-03 | E29Z5 | SAM | 11/22/24 14:42 | | Jaswal | OK |
| 24 | P4877-04 | E29Z7 | SAM | 11/22/24 14:45 | | Jaswal | OK |
| 25 | P4877-05 | E2A13 | SAM | 11/22/24 14:49 | | Jaswal | OK |
| 26 | P4877-06 | E2A19 | SAM | 11/22/24 14:52 | | Jaswal | OK |
| 27 | P4877-07 | E2A22 | SAM | 11/22/24 14:55 | | Jaswal | OK |
| 28 | P4877-08 | E2A23 | SAM | 11/22/24 14:58 | | Jaswal | OK |
| 29 | P4877-09 | E29Z9 | SAM | 11/22/24 15:01 | | Jaswal | OK |
| 30 | P4877-10 | E2A01 | SAM | 11/22/24 15:05 | | Jaswal | OK |
| 31 | P4877-11RE | E2A01D | DUP | 11/22/24 15:08 | Not Use | Jaswal | Not Ok |
| 32 | P4877-10L | E2A01L | SD | 11/22/24 15:11 | | Jaswal | OK |
| 33 | P4877-10RE | E2A01 | SAM | 11/22/24 15:14 | Not Use | Jaswal | Not Ok |
| 34 | P4877-12 | E2A01S | MS | 11/22/24 15:21 | | Jaswal | OK |
| 35 | P4877-11 | E2A01D | DUP | 11/22/24 15:24 | | Jaswal | OK |
| 36 | P4877-13 | E2A03 | SAM | 11/22/24 15:27 | | Jaswal | OK |
| 37 | P4877-14 | E2A05 | SAM | 11/22/24 15:31 | | Jaswal | OK |
| 38 | P4877-15 | E2A07 | SAM | 11/22/24 15:34 | | Jaswal | OK |

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Fax : 908 789 8922

**Instrument ID:** P7

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133596

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|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 11/25/2024 6:18:46 AM |
| Supervise By | Mohan Bera | Supervise On | 11/25/2024 6:19:44 AM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83014,MP83039,MP83038,MP83036,MP83034,MP83035,MP83033,MP83032,MP83016 |
| ICV Standard | MP83041 |
| CCV Standard | MP83042 |
| ICSA Standard | MP83043,MP83044 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83050,MP83049 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 39 | P4877-16 | E2A09 | SAM | 11/22/24 15:37 | | Jaswal | OK |
| 40 | P4877-17 | E2A20 | SAM | 11/22/24 15:40 | | Jaswal | OK |
| 41 | P4877-18 | E2A24 | SAM | 11/22/24 15:43 | | Jaswal | OK |
| 42 | CCV002 | CCV002 | CCV | 11/22/24 15:50 | | Jaswal | OK |
| 43 | CCB002 | CCB002 | CCB | 11/22/24 15:53 | | Jaswal | OK |
| 44 | P4878-01 | E29Z2 | SAM | 11/22/24 15:56 | | Jaswal | OK |
| 45 | P4878-02 | E29Z4 | SAM | 11/22/24 15:59 | | Jaswal | OK |
| 46 | P4878-03 | E29Z6 | SAM | 11/22/24 16:02 | | Jaswal | OK |
| 47 | P4878-04 | E29Z8 | SAM | 11/22/24 16:05 | | Jaswal | OK |
| 48 | P4878-05 | E2A14 | SAM | 11/22/24 16:08 | | Jaswal | OK |
| 49 | P4878-06 | E2A00 | SAM | 11/22/24 16:12 | | Jaswal | OK |
| 50 | P4878-07 | E2A02 | SAM | 11/22/24 16:15 | | Jaswal | OK |
| 51 | P4878-08 | E2A02D | DUP | 11/22/24 16:18 | | Jaswal | OK |
| 52 | P4878-07L | E2A02L | SD | 11/22/24 16:21 | | Jaswal | OK |
| 53 | P4878-09 | E2A02S | MS | 11/22/24 16:24 | | Jaswal | OK |
| 54 | P4878-10 | E2A04 | SAM | 11/22/24 16:27 | | Jaswal | OK |
| 55 | P4878-11 | E2A06 | SAM | 11/22/24 16:30 | | Jaswal | OK |
| 56 | P4878-12 | E2A08 | SAM | 11/22/24 16:33 | | Jaswal | OK |
| 57 | P4878-13 | E2A10 | SAM | 11/22/24 16:37 | | Jaswal | OK |
| 58 | CCV003 | CCV003 | CCV | 11/22/24 16:43 | | Jaswal | OK |

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**Instrument ID:** P7

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133596

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| Supervise By | Mohan Bera | Supervise On | 11/25/2024 6:19:44 AM |

| STD. NAME | STD REF.# |
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| ICV Standard | MP83041 |
| CCV Standard | MP83042 |
| ICSA Standard | MP83043,MP83044 |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83050,MP83049 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 59 | CCB003 | CCB003 | CCB | 11/22/24 16:46 | | Jaswal | OK |
| 60 | P4877-19 | E29S9 | SAM | 11/22/24 16:49 | | Jaswal | OK |
| 61 | CCV004 | CCV004 | CCV | 11/22/24 16:52 | | Jaswal | OK |
| 62 | CCB004 | CCB004 | CCB | 11/22/24 16:55 | | Jaswal | OK |

EPA SAMPLE NO.

E29S9

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-19

% Solids: Date Received: 11/16/2024

Analytical Method: Hg

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.20 | U | 11/26/2024 | 1607 |

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

Comments:

EPA SAMPLE NO.

E29Z1

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-01

% Solids: Date Received: 11/15/2024

Analytical Method: Hg

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.20 | U | 11/26/2024 | 1522 |

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

Comments:

EPA SAMPLE NO.

E29Z3

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-02

% Solids: Date Received: 11/15/2024

Analytical Method: Hg

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.20 | U | 11/26/2024 | 1524 |

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

Comments:

EPA SAMPLE NO.

E29Z5

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-03

% Solids: Date Received: 11/15/2024

Analytical Method: Hg

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.20 | U | 11/26/2024 | 1526 |

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

Comments:

EPA SAMPLE NO.

E29Z7

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-04

% Solids: Date Received: 11/15/2024

Analytical Method: Hg

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.052 | J | 11/26/2024 | 1529 |

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

Comments:

EPA SAMPLE NO.

E29Z9

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-09

% Solids: Date Received: 11/16/2024

Analytical Method: Hg

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.030 | J | 11/26/2024 | 1540 |

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

Comments:

EPA SAMPLE NO.

E2A01

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-10

% Solids: Date Received: 11/16/2024

Analytical Method: Hg

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.047 | J | 11/26/2024 | 1542 |

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

Comments:

EPA SAMPLE NO.

E2A03

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-13

% Solids: Date Received: 11/16/2024

Analytical Method: Hg

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.20 | U | 11/26/2024 | 1549 |

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

Comments:

EPA SAMPLE NO.

E2A05

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-14

% Solids: Date Received: 11/16/2024

Analytical Method: Hg

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.026 | J | 11/26/2024 | 1551 |

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

Comments:

EPA SAMPLE NO.

E2A07

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-15

% Solids: Date Received: 11/16/2024

Analytical Method: Hg

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.20 | U | 11/26/2024 | 1558 |

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

Comments:

EPA SAMPLE NO.

E2A09

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-16

% Solids: Date Received: 11/16/2024

Analytical Method: Hg

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.20 | U | 11/26/2024 | 1600 |

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

Comments:

EPA SAMPLE NO.

E2A13

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-05

% Solids: Date Received: 11/15/2024

Analytical Method: Hg

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.028 | J | 11/26/2024 | 1531 |

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

Comments:

EPA SAMPLE NO.

E2A19

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-06

% Solids: Date Received: 11/15/2024

Analytical Method: Hg

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.044 | J | 11/26/2024 | 1533 |

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

Comments:

EPA SAMPLE NO.

E2A20

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-17

% Solids: Date Received: 11/16/2024

Analytical Method: Hg

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.20 | U | 11/26/2024 | 1603 |

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

Comments:

EPA SAMPLE NO.

E2A22

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-07

% Solids: Date Received: 11/15/2024

Analytical Method: Hg

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.20 | U | 11/26/2024 | 1535 |

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

Comments:

EPA SAMPLE NO.

E2A23

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-08

% Solids: Date Received: 11/15/2024

Analytical Method: Hg

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.029 | J | 11/26/2024 | 1538 |

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

Comments:

EPA SAMPLE NO.

E2A24

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51878 MA No. : SDG No.: E29Z5

Matrix: Water Lab Sample ID: P4877-18

% Solids: Date Received: 11/16/2024

Analytical Method: Hg

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

| CAS No. | Analyte | Concentration | Q | Date Analyzed | Time Analyzed |
|---|---|---|---|---|---|
| 7439-97-6 | Mercury | 0.20 | U | 11/26/2024 | 1605 |

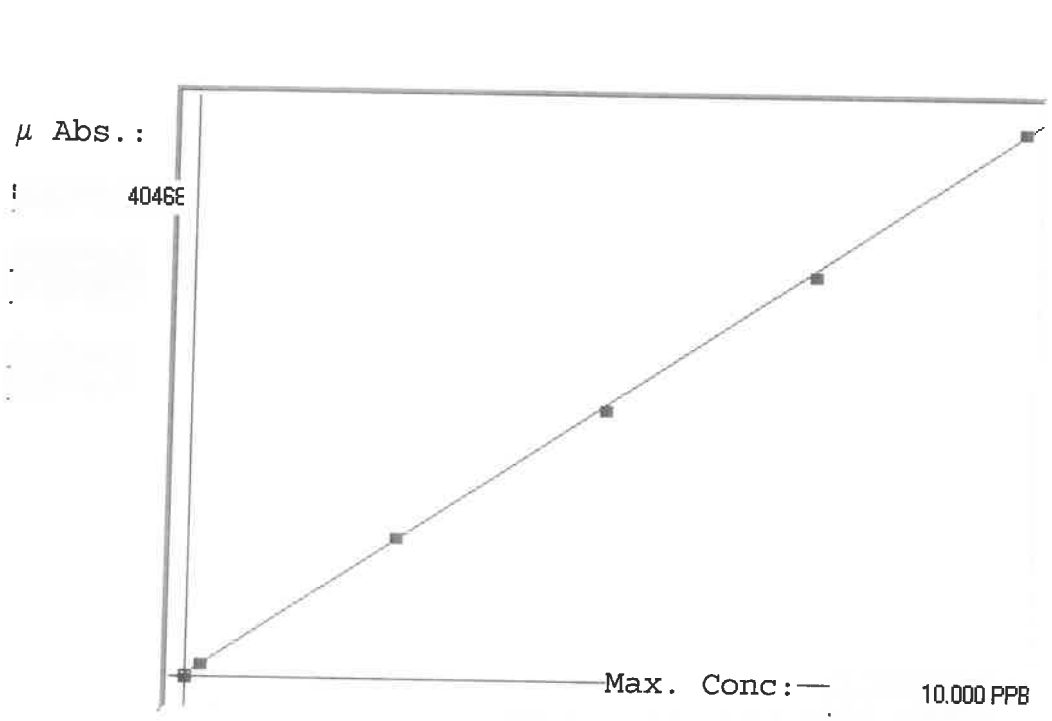
NOTE: Hardness (total) is reported in mg/L

Comments:

Reviewed By:mohan
On:11/27/2024
10:31:16 PM
Inst Id :CV1

LB133633

SFAM01.1 INSTRUMENT ID: CV1




A= 0.0000e+000

B= 2.4956e-004 slope

C= -3.3584e-002 y=mx+c

Rho= 0.9998942

Accept=Accepted

| Std ID | Conc. | Calc. | Dev. | Mean | SD or %RSD | Rep 1 | Rep 2 | Rep 3 | Rep 4 | Rep 5 | c/a 17 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.000 | -0.013 | -0.013 | 83 | 0.000 | 83 | 0 | | | | - |
| 0.05 | 0.050 | | | | | 442 | 0 | | | | 10 |
| 0.20 | 0.200 | 0.220 | 0.020 | 1017 | 0.0 % | 1017 | | | | | 2 |
| 2.50 | 2.500 | 2.560 | 0.060 | 10392 | 0.0 % | 10392 | | | | | -1 |
| 5.00 | 5.000 | 4.932 | -0.068 | 19899 | 0.0 % | 19899 | | | | | -1 |
| 7.50 | 7.500 | 7.435 | -0.065 | 29926 | 0.0 % | 29926 | | | | | 1 |
| 10.0 | 10.000 | 10.066 | 0.066 | 40468 | 0.0 % | 40468 | | | | | |

Reviewed By:mohan
On:11/27/2024
10:31:16 PM
Inst Id :CV1

LB133633

INSTRUMENT ID : CV1

| Sample ID | Extended ID | µ Abs. | Conc. | | Stnd Conc | Method | Units | Date | Type |
|---|---|---|---|---|---|---|---|---|---|
| 0 | S0 | 83 | - | | 0 | SFAM01.1 | PPB | 11/26/2024 13:52 | Std |
| 0.2 | S01 | 1017 | - | | 0.2 | SFAM01.1 | PPB | 11/26/2024 13:54 | Std |
| 2.5 | S02 | 10392 | - | | 2.5 | SFAM01.1 | PPB | 11/26/2024 13:57 | Std |
| 5 | S03 | 19899 | - | | 5 | SFAM01.1 | PPB | 11/26/2024 13:59 | Std |
| 7.5 | S04 | 29926 | - | | 7.5 | SFAM01.1 | PPB | 11/26/2024 14:01 | Std |
| 10 | S05 | 40468 | - | | 10 | SFAM01.1 | PPB | 11/26/2024 14:04 | Std |
| ICV001 | ICV001 | 17194 | 4.2574 | - | | SFAM01.1 | PPB | 11/26/2024 14:09 | SMPL |
| ICB001 | ICB001 | -159 | -0.0733 | - | | SFAM01.1 | PPB | 11/26/2024 14:12 | SMPL |
| CCV055 | CCV055 | 19836 | 4.9167 | - | | SFAM01.1 | PPB | 11/26/2024 14:14 | SMPL |
| CCB055 | CCB055 | -179 | -0.0783 | - | | SFAM01.1 | PPB | 11/26/2024 14:16 | SMPL |
| PB165275BL | PBW275 | 127 | -0.0019 | - | | SFAM01.1 | PPB | 11/26/2024 14:18 | SMPL |
| P4831-01 | E29S4 | -80 | -0.0535 | - | | SFAM01.1 | PPB | 11/26/2024 14:21 | SMPL |
| P4831-02 | E29S4D | -48 | -0.0456 | - | | SFAM01.1 | PPB | 11/26/2024 14:23 | SMPL |
| P4831-03 | E29S4S | 4354 | 1.053 | - | | SFAM01.1 | PPB | 11/26/2024 14:25 | SMPL |
| P4831-04 | E29T2 | 0 | -0.0336 | - | | SFAM01.1 | PPB | 11/26/2024 14:27 | SMPL |
| P4831-05 | E29T4 | 2 | -0.0331 | - | | SFAM01.1 | PPB | 11/26/2024 14:30 | SMPL |
| P4831-06 | E29W0 | 324 | 0.0473 | - | | SFAM01.1 | PPB | 11/26/2024 14:32 | SMPL |
| P4831-07 | E29W4 | 154 | 0.0048 | - | | SFAM01.1 | PPB | 11/26/2024 14:34 | SMPL |
| P4831-08 | E29W1 | 174 | 0.0098 | - | | SFAM01.1 | PPB | 11/26/2024 14:37 | SMPL |
| P4831-09 | E29W5 | 170 | 0.0088 | - | | SFAM01.1 | PPB | 11/26/2024 14:39 | SMPL |
| P4831-10 | E29R6 | 50 | -0.0211 | - | | SFAM01.1 | PPB | 11/26/2024 14:41 | SMPL |
| P4831-11 | E29S0 | 35 | -0.0248 | - | | SFAM01.1 | PPB | 11/26/2024 14:43 | SMPL |
| P4831-12 | E29S2 | 65 | -0.0174 | - | | SFAM01.1 | PPB | 11/26/2024 14:46 | SMPL |
| P4831-13 | E29S6 | 81 | -0.0134 | - | | SFAM01.1 | PPB | 11/26/2024 14:48 | SMPL |
| P4831-14 | E29W6 | 164 | 0.0073 | - | | SFAM01.1 | PPB | 11/26/2024 14:50 | SMPL |
| P4831-15 | E29W2 | 101 | -0.0084 | - | | SFAM01.1 | PPB | 11/26/2024 14:52 | SMPL |
| P4832-01 | E29S5 | 143 | 0.0021 | - | | SFAM01.1 | PPB | 11/26/2024 14:55 | SMPL |
| P4832-02 | E29S5D | 74 | -0.0151 | - | | SFAM01.1 | PPB | 11/26/2024 14:57 | SMPL |
| P4832-03 | E29S5S | 5064 | 1.2302 | - | | SFAM01.1 | PPB | 11/26/2024 14:59 | SMPL |
| P4832-04 | E29T3 | 73 | -0.0154 | - | | SFAM01.1 | PPB | 11/26/2024 15:01 | SMPL |
| CCV056 | CCV056 | 19406 | 4.8094 | - | | SFAM01.1 | PPB | 11/26/2024 15:04 | SMPL |
| CCB056 | CCB056 | -193 | -0.0817 | - | | SFAM01.1 | PPB | 11/26/2024 15:06 | SMPL |
| P4832-05 | E29T5 | 252 | 0.0293 | - | | SFAM01.1 | PPB | 11/26/2024 15:08 | SMPL |
| P4832-06 | E29R7 | 161 | 0.0066 | - | | SFAM01.1 | PPB | 11/26/2024 15:10 | SMPL |
| P4832-07 | E29S1 | 407 | 0.068 | - | | SFAM01.1 | PPB | 11/26/2024 15:13 | SMPL |
| P4832-08 | E29S3 | 238 | 0.0258 | - | | SFAM01.1 | PPB | 11/26/2024 15:15 | SMPL |
| P4832-09 | E29S7 | 257 | 0.0306 | - | | SFAM01.1 | PPB | 11/26/2024 15:17 | SMPL |
| PB165276BL | PBW276 | 108 | -0.0066 | - | | SFAM01.1 | PPB | 11/26/2024 15:20 | SMPL |
| P4877-01 | E29Z1 | 175 | 0.0101 | - | | SFAM01.1 | PPB | 11/26/2024 15:22 | SMPL |
| P4877-02 | E29Z3 | 41 | -0.0234 | - | | SFAM01.1 | PPB | 11/26/2024 15:24 | SMPL |
| P4877-03 | E29Z5 | 65 | -0.0174 | - | | SFAM01.1 | PPB | 11/26/2024 15:26 | SMPL |
| P4877-04 | E29Z7 | 343 | 0.052 | - | | SFAM01.1 | PPB | 11/26/2024 15:29 | SMPL |
| P4877-05 | E2A13 | 247 | 0.0281 | - | | SFAM01.1 | PPB | 11/26/2024 15:31 | SMPL |
| P4877-06 | E2A19 | 311 | 0.044 | - | | SFAM01.1 | PPB | 11/26/2024 15:33 | SMPL |
| P4877-07 | E2A22 | 189 | 0.0136 | - | | SFAM01.1 | PPB | 11/26/2024 15:35 | SMPL |
| P4877-08 | E2A23 | 250 | 0.0288 | - | | SFAM01.1 | PPB | 11/26/2024 15:38 | SMPL |

Reviewed By:mohan
On:11/27/2024
10:31:16 PM
Inst Id :CV1

LB133633

INSTRUMENT ID : CV1

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| P4877-09 | E29Z9 | 253 | 0.0296 | - | SFAM01.1 | PPB | 11/26/2024 15:40 | SMPL |
| P4877-10 | E2A01 | 323 | 0.047 | - | SFAM01.1 | PPB | 11/26/2024 15:42 | SMPL |
| P4877-11 | E2A01D | 131 | -0.0009 | - | SFAM01.1 | PPB | 11/26/2024 15:44 | SMPL |
| P4877-12 | E2A01S | 4581 | 1.1097 | - | SFAM01.1 | PPB | 11/26/2024 15:47 | SMPL |
| P4877-13 | E2A03 | 224 | 0.0223 | - | SFAM01.1 | PPB | 11/26/2024 15:49 | SMPL |
| P4877-14 | E2A05 | 239 | 0.0261 | - | SFAM01.1 | PPB | 11/26/2024 15:51 | SMPL |
| CCV057 | CCV057 | 18931 | 4.6908 | - | SFAM01.1 | PPB | 11/26/2024 15:54 | SMPL |
| CCB057 | CCB057 | -116 | -0.0625 | - | SFAM01.1 | PPB | 11/26/2024 15:56 | SMPL |
| P4877-15 | E2A07 | 203 | 0.0171 | - | SFAM01.1 | PPB | 11/26/2024 15:58 | SMPL |
| P4877-16 | E2A09 | 180 | 0.0113 | - | SFAM01.1 | PPB | 11/26/2024 16:00 | SMPL |
| P4877-17 | E2A20 | 159 | 0.0061 | - | SFAM01.1 | PPB | 11/26/2024 16:03 | SMPL |
| P4877-18 | E2A24 | 127 | -0.0019 | - | SFAM01.1 | PPB | 11/26/2024 16:05 | SMPL |
| P4877-19 | E29S9 | 144 | 0.0024 | - | SFAM01.1 | PPB | 11/26/2024 16:07 | SMPL |
| PB165277BL | PBW277 | 340 | 0.0513 | - | SFAM01.1 | PPB | 11/26/2024 16:09 | SMPL |
| P4878-01 | E29Z2 | 366 | 0.0578 | - | SFAM01.1 | PPB | 11/26/2024 16:12 | SMPL |
| P4878-02 | E29Z4 | 228 | 0.0233 | - | SFAM01.1 | PPB | 11/26/2024 16:14 | SMPL |
| P4878-03 | E29Z6 | 206 | 0.0178 | - | SFAM01.1 | PPB | 11/26/2024 16:16 | SMPL |
| P4878-04 | E29Z8 | 173 | 0.0096 | - | SFAM01.1 | PPB | 11/26/2024 16:18 | SMPL |
| P4878-05 | E2A14 | 179 | 0.0111 | - | SFAM01.1 | PPB | 11/26/2024 16:21 | SMPL |
| P4878-06 | E2A00 | 186 | 0.0128 | - | SFAM01.1 | PPB | 11/26/2024 16:23 | SMPL |
| P4878-07 | E2A02 | 241 | 0.0266 | - | SFAM01.1 | PPB | 11/26/2024 16:25 | SMPL |
| P4878-08 | E2A02D | 302 | 0.0418 | - | SFAM01.1 | PPB | 11/26/2024 16:28 | SMPL |
| P4878-09 | E2A02S | 5155 | 1.2529 | - | SFAM01.1 | PPB | 11/26/2024 16:30 | SMPL |
| P4878-10 | E2A04 | 69 | -0.0164 | - | SFAM01.1 | PPB | 11/26/2024 16:32 | SMPL |
| P4878-11 | E2A06 | 176 | 0.0103 | - | SFAM01.1 | PPB | 11/26/2024 16:34 | SMPL |
| P4878-12 | E2A08 | 272 | 0.0343 | - | SFAM01.1 | PPB | 11/26/2024 16:37 | SMPL |
| P4878-13 | E2A10 | 330 | 0.0488 | - | SFAM01.1 | PPB | 11/26/2024 16:39 | SMPL |
| CCV058 | CCV058 | 19116 | 4.737 | - | SFAM01.1 | PPB | 11/26/2024 16:41 | SMPL |
| CCB058 | CCB058 | -114 | -0.062 | - | SFAM01.1 | PPB | 11/26/2024 16:43 | SMPL |

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

# Prep Standard - Chemical Standard Summary

**Order ID :** P4877

**Test :** Mercury

**Prepbatch ID :** PB165276,

**Sequence ID/Qc Batch ID:** LB133633,

**Standard ID :**
MP83207,MP83208,MP83209,MP83210,MP83377,MP83378,MP83379,MP83380,MP83381,MP83382,MP83383,MP83384,MP83385,MP83386,MP83387,MP83391,

**Chemical ID :**
M4371,M4465,M4916,M5062,M5673,M5882,M5884,M5953,M6119,M6121,M6124,W3112,

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

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 3965 | 2:1 H2SO4 : HNO3 | MP83207 | 11/11/2024 | 05/09/2025 | Mohan Bera | None | None | Sarabjit Jaswal 11/11/2024 |

**FROM** 1600.00000ml of M5673 + 800.00000ml of M6119 = Final Quantity: 3200.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 65 | POTASSIUM PERMANGANATE SOLUTION 5 % | MP83208 | 11/11/2024 | 05/11/2025 | Mohan Bera | METALS_SCALE_3 (M SC-3) | None | Sarabjit Jaswal 11/11/2024 |

**FROM** 100.00000gram of M4916 + 2000.00000ml of W3112 = Final Quantity: 2000.000 ml

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# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 66 | POTASSIUM PERSULFATE SOLUTION 5 % | MP83209 | 11/11/2024 | 05/11/2025 | Mohan Bera | METALS_SCALE_3 (M SC-3) | None | Sarabjit Jaswal 11/11/2024 |

**FROM** 100.00000ml of M4465 + 2000.00000ml of W3112 = Final Quantity: 2000.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 67 | SODIUM CHLORIDE - HYDROXYL- CHLORIDE SOLUTION | MP83210 | 11/11/2024 | 05/11/2025 | Mohan Bera | METALS_SCALE_3 (M SC-3) | None | Sarabjit Jaswal 11/11/2024 |

**FROM** 2000.00000ml of W3112 + 240.00000gram of M4371 + 240.00000gram of M5884 = Final Quantity: 2000.000 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 |
|---|---|---|---|---|---|---|---|---|
| 871 | MERCURY INTERMEDIATE B 250PPB WORKING STD. | MP83377 | 11/26/2024 | 11/27/2024 | Mohan Bera | None | METALS_PIPETTE_5 (HGA) | Sarabjit Jaswal 11/27/2024 |

**FROM** 1.00000ml of M6124 + 2.50000ml of M5062 + 96.50000ml of W3112 = Final Quantity: 100.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1340 | Hg 0.00 PPB STD | MP83378 | 11/26/2024 | 11/27/2024 | Mohan Bera | None | METALS_PIPETTE_5 (HGA) | Sarabjit Jaswal 11/27/2024 |

**FROM** 2.50000ml of M6124 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

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

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1341 | Hg 0.2 PPB STD | MP83379 | 11/26/2024 | 11/27/2024 | Mohan Bera | None | METALS_PIPETTE_5 (HGA) | Sarabjit Jaswal 11/27/2024 |

**FROM** 2.50000ml of M6124 + 247.30000ml of W3112 + 0.20000ml of MP83377 = Final Quantity: 250.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1342 | Hg 2.5 PPB STD | MP83380 | 11/26/2024 | 11/27/2024 | Mohan Bera | None | METALS_PIPETTE_5 (HGA) | Sarabjit Jaswal 11/27/2024 |

**FROM** 2.50000ml of M6124 + 245.00000ml of W3112 + 2.50000ml of MP83377 = Final Quantity: 250.000 ml

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

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1343 | Hg 5.0 PPB STD | MP83381 | 11/26/2024 | 11/27/2024 | Mohan Bera | None | METALS_PIPETTE_5 (HGA) | Sarabjit Jaswal 11/27/2024 |

**FROM** 2.50000ml of M6124 + 242.50000ml of W3112 + 5.00000ml of MP83377 = Final Quantity: 250.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1344 | Hg 7.5 PPB STD | MP83382 | 11/26/2024 | 11/27/2024 | Mohan Bera | None | METALS_PIPETTE_5 (HGA) | Sarabjit Jaswal 11/27/2024 |

**FROM** 2.50000ml of M6124 + 240.00000ml of W3112 + 7.50000ml of MP83377 = Final Quantity: 250.000 ml

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

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1345 | Hg 10.0 PPB STD | MP83383 | 11/26/2024 | 11/27/2024 | Mohan Bera | None | METALS_PIPETTE_5 (HGA) | Sarabjit Jaswal 11/27/2024 |

**FROM** 2.50000ml of M6124 + 237.50000ml of W3112 + 10.00000ml of MP83377 = Final Quantity: 250.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1346 | Hg ICV SOLUTION | MP83384 | 11/26/2024 | 11/27/2024 | Mohan Bera | None | METALS_PIPETTE_5 (HGA) | Sarabjit Jaswal 11/27/2024 |

**FROM** 2.50000ml of M5953 + 2.50000ml of M6124 + 245.00000ml of W3112 = Final Quantity: 250.000 ml

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

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1351 | ICB (Hg 0.00 PPB SOLUTION) | MP83385 | 11/26/2024 | 11/27/2024 | Mohan Bera | None | METALS_PIPETTE_5 (HGA) | Sarabjit Jaswal 11/27/2024 |

**FROM** 2.50000ml of M6124 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1358 | CCV (Hg 5.0 PPB SOLUTION) | MP83386 | 11/26/2024 | 11/27/2024 | Mohan Bera | None | METALS_PIPETTE_5 (HGA) | Sarabjit Jaswal 11/27/2024 |

**FROM** 485.00000ml of W3112 + 5.00000ml of M6124 + 10.00000ml of MP83377 = Final Quantity: 500.000 ml

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

# Metals STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1352 | CCB (Hg 0.00 PPB SOLUTION) | MP83387 | 11/26/2024 | 11/27/2024 | Mohan Bera | None | METALS_PIPETTE_5 (HG A) | Sarabjit Jaswal 11/27/2024 |

**FROM** 495.00000ml of W3112 + 5.00000ml of M6124 = Final Quantity: 500.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 68 | STANNOUS CHLORIDE SOLUTION | MP83391 | 11/26/2024 | 11/27/2024 | Mohan Bera | METALS_SCALE_3 (M SC-3) | None | Sarabjit Jaswal 11/27/2024 |

**FROM** 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M6121 = Final Quantity: 500.000 ml

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

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-2196-01 / Hydroxylamine Hydrochloride, Crystal (cs/4x500g) | 0000215387 | 06/25/2025 | 07/01/2019 / RICHARD | 06/07/2019 / RICHARD | M4371 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-3238-05 / Potassium Persulfate (2.5kg) | 0000234156 | 08/06/2025 | 07/23/2019 / mohan | 07/25/2019 / manojkumar | M4465 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-3227-05 / Potassium Permanganate (2.5kg) | 210800 | 03/31/2026 | 11/30/2022 / mohan | 07/28/2021 / mohan | M4916 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Inorganic Ventures | MSHG-10PPM / MERCURY HCl 125mL 10ug/mL | S2-HG709270 | 09/22/2026 | 05/28/2022 / mohan | 01/27/2022 / mohan | M5062 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L) | 23D2462010 | 03/20/2028 | 09/21/2023 / mohan | 09/05/2023 / mohan | M5673 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-3980-01 / Stannous Chloride (cs/4x500g) | 232820 | 08/31/2028 | 04/30/2024 / mohan | 04/25/2024 / mohan | M5882 |

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

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg) | 0000281938 | 07/06/2026 | 04/30/2024 / mohan | 04/25/2024 / mohan | M5884 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| EPA | ICV-5 / ICV ( HG ) STOCK SOLN | ICV5-0415 | 01/01/2025 | 07/01/2024 / mohan | 03/30/2023 / mohan | M5953 |

| 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) | 24B1362001 | 05/09/2025 | 11/09/2024 / Janvi | 10/09/2024 / Janvi | M6119 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L) | 0000275677 | 05/13/2025 | 11/13/2024 / Eman | 10/13/2024 / Eman | M6121 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L) | 24D1062002 | 05/22/2025 | 11/22/2024 / Janvi | 10/22/2024 / Janvi | M6124 |

| 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 |

Certificate of Analysis

ThermoFisher SCIENTIFIC

M5882 M3



# Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

| | | | |
|---|---|---|---|
| Catalog Number | T142 | Quality Test / Release Date | 08/17/2023 |
| Lot Number | 232820 | | |
| Description | STANNOUS CHLORIDE, DIHYDRATE CERTIFIED ACS (Suitable for Mercury Determination) | | |
| Country of Origin | United States | Suggested Retest Date | Aug/2028 |
| Chemical Origin | Inorganic-non animal | | |
| BSE/TSE Comment | No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product. | | |

| N/A | | | |
|---|---|---|---|
| Result Name | Units | Specifications | Test Value |
| APPEARANCE | | REPORT | Clear crystals |
| ASSAY | % | Inclusive Between 98 - 103 | 100.65 |
| CALCIUM | % | <= 0.005 | 0.0017 |
| IDENTIFICATION | PASS/FAIL | = PASS TEST | PASS TEST |
| IRON (Fe) | % | <= 0.003 | 0.0011 |
| LEAD (Pb) | % | <= 0.01 | 0.0006 |
| MERCURY (Hg) | ppm | <= 0.05 | <0.05 |
| POTASSIUM (K) | % | <= 0.005 | 0.0001 |
| SODIUM (Na) | % | <= 0.01 | <0.01 |
| SOLUBILITY IN HCL | PASS/FAIL | = PASS TEST | PASS TEST |
| SULFATE (SO4) | PASS/FAIL | = P.T. (ABOUT 0.003%) | P.T. (ABOUT 0.003%) |

Harout Sahagian - Quality Control Supervisor - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

M4371

Hydroxylamine Hydrochloride, Crystal
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination
(hydroxylammonium chloride)

Rec – 06.07.19

J.T.Baker® | avantor™

Material No.: 2196-01
Batch No.: 0000215387
Manufactured Date: 2018/06/27
Retest Date: 2025/06/25
Revision No: 1

# Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

| Test | Specification | Result |
|---|---|---|
| Assay ($NH_2OH \cdot HCl$) (by $KMnO_4$ titrn) | >= 96.0 % | 99.1 |
| Clarity of Alcohol Solution | Passes Test | PT |
| Residue after Ignition | <= 0.050 % | 0.017 |
| Titrable Free Acid (meq/g) | <= 0.25 | 0.19 |
| Ammonium ($NH_4$) | Passes Test | PT |
| Sulfur Compounds (as $SO_4$) | <= 0.005 % | < 0.003 |
| Trace Impurities - ACS - Heavy Metals (as Pb) | <= 5 ppm | 4 |
| Trace Impurities - Iron (Fe) | <= 5 ppm | < 3 |
| Trace Impurities - Mercury (Hg) | <= 0.050 ppm | < 0.005 |

For Laboratory, Research or Manufacturing Use

Country of Origin: CN
Packaging Site: Paris Mfg Ctr & DC

ISO
Phillipsburg, NJ 9001:2015, FSSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

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ThermoFisher SCIENTIFIC

M4913-16

MB



# Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

| | | | |
|---|---|---|---|
| Catalog Number | P279 | Quality Test / Release Date | 01/12/2021 |
| Lot Number | 210306 | | |
| Description | POTASSIUM PERMANGANATE, A.C.S. | | |
| Country of Origin | United States | Suggested Retest Date | Jan/2026 |

| N/A | | | |
|---|---|---|---|
| Result Name | Units | Specifications | Test Value |
| APPEARANCE | | REPORT | Dark purple to purple green crystals |
| ASSAY | % | >= 99 | 99.3 |
| CHLORIDE & CHLORATE | % | <= 0.005 | <0.005 |
| IDENTIFICATION | PASS/FAIL | = PASS TEST | pass test |
| INSOLUBLE MATTER | % | <= 0.2 | <0.2 |
| MERCURY (Hg) | ppm | <= 0.05 | <0.004 |
| SULFATE (SO4) | % | <= 0.02 | <0.02 |

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

INORGANIC VENTURES
Refine your results. Redefine your industry.

# Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

M5062
M5063
M3

## 1.0 ACCREDITATION / REGISTRATION

**INORGANIC VENTURES** is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01 ACCREDITED Reference Material Producer Certificate 883.02

## 2.0 PRODUCT DESCRIPTION

| | |
|---|---|
| Product Code: | Single Analyte Mass Spec Solution |
| Catalog Number: | MSHG-10PPM |
| Lot Number: | S2-HG709270 |
| Matrix: | 10% (v/v) HCl |
| Value / Analyte(s): | 10 µg/mL ea: Mercury |
| Starting Material: | Hg metal |
| Starting Material Lot#: | 1959 |
| Starting Material Purity: | 99.9994% |

## 3.0 CERTIFIED VALUES AND UNCERTAINTIES

**Certified Value:** 10.001 ± 0.053 µg/mL

**Density:** 1.020 g/mL (measured at 20 ± 4 °C)

### Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---|---|---|---|
| Hg | ICP Assay | 3133 | 160921 |
| Hg | EDTA | 928 | 928 |
| Hg | Calculated | | See Sec. 4.2 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

### Characterization of CRM/RM by Two or More Methods

**Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:**

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

$X_i$ = mean of Assay Method i with standard uncertainty $u_{char\ i}$

$w_i$ = the weighting factors for each method calculated using the inverse square of the variance.

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$**

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty

### Characterization of CRM/RM by One Method

**Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:**

$X_{CRM/RM} = (X_a)(u_{char\ a})$

$X_a$ = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

**CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$**

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

$u_{bb}$ = bottle to bottle homogeneity standard uncertainty

$u_{lts}$ = long term stability standard uncertainty (storage)

$u_{ts}$ = transport stability standard uncertainty



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## 4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

### 4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

### 4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

### 4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

## 5.0 TRACE METALLIC IMPURITIES (TMI ) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| O | Ag | | 0.000011 | M | Eu | < | 0.000201 | O | Na | | 0.000004 | M | Se | < | 0.015915 | O | Zn | < | 0.001510 |
| O | Al | | 0.000001 | O | Fe | | 0.000001 | M | Nb | < | 0.000201 | O | Si | | 0.000005 | M | Zr | < | 0.000201 |
| M | As | < | 0.000402 | M | Ga | < | 0.000201 | M | Nd | < | 0.000201 | M | Sm | < | 0.000201 | | | | |
| M | Au | < | 0.003631 | M | Gd | < | 0.000201 | M | Ni | < | 0.000402 | M | Sn | < | 0.001007 | | | | |
| M | B | < | 0.001208 | M | Ge | < | 0.000201 | M | Os | < | 0.000605 | M | Sr | < | 0.000201 | | | | |
| M | Ba | < | 0.000201 | M | Hf | < | 0.000201 | O | P | < | 0.032370 | M | Ta | < | 0.000201 | | | | |
| M | Be | < | 0.000201 | s | Hg | < | | M | Pb | < | 0.000201 | M | Tb | < | 0.000201 | | | | |
| M | Bi | < | 0.000201 | M | Ho | < | 0.000201 | M | Pd | < | 0.000403 | M | Te | < | 0.002216 | | | | |
| O | Ca | | 0.000007 | M | In | < | 0.000201 | M | Pr | < | 0.000201 | M | Th | < | 0.000201 | | | | |
| M | Cd | < | 0.000201 | M | Ir | < | 0.000201 | M | Pt | < | 0.000402 | M | Ti | < | 0.000402 | | | | |
| M | Ce | < | 0.000201 | O | K | | 0.000020 | M | Rb | < | 0.000201 | O | Tl | < | 0.016508 | | | | |
| M | Co | < | 0.000201 | M | La | < | 0.000201 | M | Re | < | 0.000201 | M | Tm | < | 0.000201 | | | | |
| O | Cr | < | 0.003021 | O | Li | < | 0.000107 | M | Rh | < | 0.000201 | M | U | < | 0.008058 | | | | |
| M | Cs | < | 0.001208 | M | Lu | < | 0.000201 | M | Ru | < | 0.000201 | M | V | < | 0.000201 | | | | |
| M | Cu | < | 0.000402 | O | Mg | | 0.000001 | O | S | < | 0.053950 | M | W | < | 0.000604 | | | | |
| M | Dy | < | 0.000201 | M | Mn | < | 0.000604 | M | Sb | < | 0.001208 | M | Y | < | 0.000201 | | | | |
| M | Er | < | 0.000201 | M | Mo | | 0.000009 | M | Sc | < | 0.000201 | M | Yb | < | 0.000201 | | | | |

M - Checked by ICP-MS  O - Checked by ICP-OES  i - Spectral Interference
n - Not Checked For  s - Solution Standard Element

## 6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

## 7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

### 7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

**Atomic Weight; Valence; Coordination Number; Chemical Form in Solution -** 200.59 +2 4 Hg(OH)(aq) 1+

**Chemical Compatibility -** Stable in HNO3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

**Stability -** 2-100 ppb levels not stable in 1% HNO3 / LDPE container, stable in 10% HNO3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO3 / LDPE container.

**Hg Containing Samples (Preparation and Solution) -** Metal (soluble in HNO3 ); Oxide ( Soluble in HNO3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

**Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):**

| **Technique/Line** | **Estimated D.L.** | **Order** | **Interferences** (underlined indicates severe) |
|---|---|---|---|
| ICP-MS 202 amu | 9 ppt | n/a | 186W16O |
| ICP-OES 184.950 nm | 0.03 / 0.005 µg/mL | 1 | |
| ICP-OES 194.227 nm | 0.03 / 0.005 µg/mL | 1 | V |
| ICP-OES 253.652 nm | 0.1 / 0.03 µg/mL | 1 | Ta, Co, Th ,Rh , Fe, U |

## 8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

## 9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

## 10.0 QUALITY STANDARD DOCUMENTATION

### 10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

### 10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

### 10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

## 11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

### 11.1 Certification Issue Date

September 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

### 11.2 Lot Expiration Date

**- September 22, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

### 11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

## 12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

**Certificate Prepared By:**

Uyen Truong
Supervisor, Product Documentation



**Certificate Approved By:**

Michael Booth
Director, Quality Control



**Certifying Officer:**

Paul Gaines
Chairman / Senior Technical Director



Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

9673- 33

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010
Manufactured Date: 2023-03-22
Retest Date: 2028-03-20
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| ACS – Assay ($H_2SO_4$) | 95.0 – 98.0 % | 96.1 % |
| Appearance | Passes Test | Passes Test |
| ACS – Color (APHA) | ≤ 10 | 5 |
| ACS – Residue after Ignition | ≤ 3 ppm | < 1 ppm |
| ACS – Substances Reducing Permanganate (as SO2) | ≤ 2 ppm | < 2 ppm |
| Ammonium ($NH_4$) | ≤ 1 ppm | 1 ppm |
| Chloride (Cl) | ≤ 0.1 ppm | < 0.1 ppm |
| Nitrate ($NO_3$) | ≤ 0.2 ppm | < 0.1 ppm |
| Phosphate ($PO_4$) | ≤ 0.5 ppm | < 0.1 ppm |
| Trace Impurities – Aluminum (Al) | ≤ 30.0 ppb | < 5.0 ppb |
| Arsenic and Antimony (as As) | ≤ 4.0 ppb | < 2.0 ppb |
| Trace Impurities – Boron (B) | ≤ 10.0 ppb | 8.5 ppb |
| Trace Impurities – Cadmium (Cd) | ≤ 2.0 ppb | < 0.3 ppb |
| Trace Impurities – Chromium (Cr) | ≤ 6.0 ppb | < 0.4 ppb |
| Trace Impurities – Cobalt (Co) | ≤ 0.5 ppb | < 0.3 ppb |
| Trace Impurities – Copper (Cu) | ≤ 1.0 ppb | < 0.1 ppb |
| Trace Impurities – Gold (Au) | ≤ 10.0 ppb | 0.5 ppb |
| Heavy Metals (as Pb) | ≤ 500.0 ppb | < 100.0 ppb |
| Trace Impurities – Iron (Fe) | ≤ 50.0 ppb | 1.3 ppb |
| Trace Impurities – Lead (Pb) | ≤ 0.5 ppb | < 0.5 ppb |
| Trace Impurities – Magnesium (Mg) | ≤ 7.0 ppb | 0.8 ppb |
| Trace Impurities – Manganese (Mn) | ≤ 1.0 ppb | < 0.4 ppb |
| Trace Impurities – Mercury (Hg) | ≤ 0.5 ppb | < 0.1 ppb |
| Trace Impurities – Nickel (Ni) | ≤ 2.0 ppb | 0.3 ppb |
| Trace Impurities – Potassium (K) | ≤ 500.0 ppb | < 2.0 ppb |
| Trace Impurities – Selenium (Se) | ≤ 50.0 ppb | < 0.1 ppb |
| Trace Impurities – Silicon (Si) | ≤ 100.0 ppb | 31.5 ppb |
| Trace Impurities – Silver (Ag) | ≤ 1.0 ppb | < 0.3 ppb |

>>> Continued on page 2 >>>

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010

| Test | Specification | Result |
|---|---|---|
| Trace Impurities – Sodium (Na) | ≤ 500.0 ppb | 5.4 ppb |
| Trace Impurities – Strontium (Sr) | ≤ 5.0 ppb | < 0.2 ppb |
| Trace Impurities – Tin (Sn) | ≤ 5.0 ppb | < 0.8 ppb |
| Trace Impurities – Zinc (Zn) | ≤ 5.0 ppb | 0.4 ppb |

For Laboratory,Research,or Manufacturing Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

MF884
MB

avantor™ | J.T.Baker®

Material No.: 3624-01
Batch No.: 0000281938
Manufactured Date: 2021-06-07
Retest Date: 2026-06-07
Revision No.: 1

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay (NaCl) (by Ag titrn) | ≥ 99.0 % | 100.0 % |
| pH of 5% Solution at 25°C | 5.0 - 9.0 | 6.3 |
| Insoluble Matter | ≤ 0.005 % | 0.003 % |
| Iodide (I) | ≤ 0.002 % | < 0.002 % |
| Bromide (Br) | ≤ 0.01 % | < 0.01 % |
| Chlorate and Nitrate (as $NO_3$) | ≤ 0.003 % | < 0.001 % |
| ACS - Phosphate ($PO_4$) | ≤ 5 ppm | < 5 ppm |
| Sulfate ($SO_4$) | ≤ 0.004 % | < 0.004 % |
| Barium (Ba) | Passes Test | Passes Test |
| ACS - Heavy Metals (as Pb) | ≤ 5 ppm | < 5 ppm |
| Iron (Fe) | ≤ 2 ppm | < 1 ppm |
| Calcium (Ca) | ≤ 0.002 % | < 0.001 % |
| Magnesium (Mg) | ≤ 0.001 % | < 0.001 % |
| Potassium (K) | ≤ 0.005 % | 0.001 % |

For Laboratory,Research,or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs
Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Mansford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

640

## 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.

MSS28 - 37
MS953
3/30/23

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions
**HAZARDOUS MATERIAL**

Safety Data Sheets Available Upon Request

### (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.

## Instructions for QATS Reference Material: *Inorganic ICV Solutions*

**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 |

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

M6119

Recive -> 10/9/24
Met dig

Material No.: 9606-03
Batch No.: 24B1362001
Manufactured Date: 2024-01-25
Retest Date: 2029-01-23
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($HNO_3$) | 69.0 - 70.0 % | 69.6 % |
| 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 | < 0.2 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 | < 50 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.: 24B1362001

| Test | Specification | Result |
|---|---|---|
| Trace Impurities – Niobium (Nb) | ≤ 50.0 ppb | < 1.0 ppb |
| Trace Impurities – Potassium (K) | ≤ 50 ppb | < 10 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 | 3 par/ml |
| Particle Count – 1.0 µm and greater | ≤ 10 par/ml | 1 par/ml |

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24B1362001

| Test | Specification | Result |
|---|---|---|

For Microelectronic Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

R → 10/13/24
Met dig

M 6/21

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
Revision No: 1

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| ACS - Assay (as HCl) (by acid-base titrn) | 36.5 - 38.0 % | 37.6 |
| ACS - Color (APHA) | <= 10 | 5 |
| ACS - Residue after Ignition | <= 3 ppm | 1 |
| ACS - Specific Gravity at 60°/60°F | 1.185 - 1.192 | 1.190 |
| ACS - Bromide (Br) | <= 0.005 % | < 0.005 |
| ACS - Extractable Organic Substances | <= 5 ppm | 1 |
| ACS - Free Chlorine (as $Cl_2$) | <= 0.5 ppm | < 0.5 |
| Phosphate ($PO_4$) | <= 0.05 ppm | < 0.03 |
| Sulfate ($SO_4$) | <= 0.5 ppm | < 0.3 |
| Sulfite ($SO_3$) | <= 0.8 ppm | 0.3 |
| Ammonium ($NH_4$) | <= 3 ppm | < 1 |
| Trace Impurities - Arsenic (As) | <= 0.010 ppm | < 0.003 |
| Trace Impurities - Aluminum (Al) | <= 10.0 ppb | < 0.2 |
| Arsenic and Antimony (as As) | <= 5 ppb | < 3 |
| Trace Impurities - Barium (Ba) | <= 1.0 ppb | < 0.2 |
| Trace Impurities - Beryllium (Be) | <= 1.0 ppb | < 0.2 |
| Trace Impurities - Bismuth (Bi) | <= 10.0 ppb | < 1.0 |
| Trace Impurities - Boron (B) | <= 20.0 ppb | < 5.0 |
| Trace Impurities - Cadmium (Cd) | <= 1.0 ppb | < 0.3 |
| Trace Impurities - Calcium (Ca) | <= 50.0 ppb | 29.7 |
| Trace Impurities - Chromium (Cr) | <= 1.0 ppb | < 0.4 |
| Trace Impurities - Cobalt (Co) | <= 1.0 ppb | < 0.3 |
| Trace Impurities - Copper (Cu) | <= 1.0 ppb | < 0.1 |
| Trace Impurities - Gallium (Ga) | <= 1.0 ppb | < 0.2 |

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

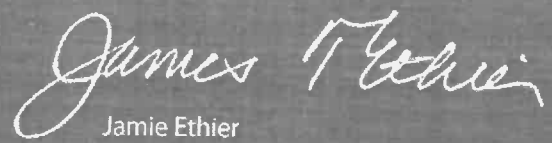
646

Material No.: 9530-33
Batch No.: 0000275677

| Test | Specification | Result |
|---|---|---|
| Trace Impurities - Germanium (Ge) | <= 3.0 ppb | < 2.0 |
| Trace Impurities - Gold (Au) | <= 4.0 ppb | < 0.2 |
| Heavy Metals (as Pb) | <= 100 ppb | < 50 |
| Trace Impurities - Iron (Fe) | <= 15.0 ppb | <1 |
| Trace Impurities - Lead (Pb) | <= 1.0 ppb | < 0.5 |
| Trace Impurities - Lithium (Li) | <= 1.0 ppb | 0.2 |
| Trace Impurities - Magnesium (Mg) | <= 10.0 ppb | 0.4 |
| Trace Impurities - Manganese (Mn) | <= 1.0 ppb | < 0.4 |
| Trace Impurities - Mercury (Hg) | <= 0.5 ppb | 0.1 |
| Trace Impurities - Molybdenum (Mo) | <= 10.0 ppb | < 5.0 |
| Trace Impurities - Nickel (Ni) | <= 4.0 ppb | < 0.3 |
| Trace Impurities - Niobium (Nb) | <= 1.0 ppb | < 0.2 |
| Trace Impurities - Potassium (K) | <= 9.0 ppb | < 2.0 |
| Trace Impurities - Selenium (Se), For Information Only | ppb | 1.0 |
| Trace Impurities - Silicon (Si) | <= 100.0 ppb | < 10.0 |
| Trace Impurities - Silver (Ag) | <= 1.0 ppb | < 0.3 |
| Trace Impurities - Sodium (Na) | <= 100.0 ppb | < 5.0 |
| Trace Impurities - Strontium (Sr) | <= 1.0 ppb | < 0.2 |
| Trace Impurities - Tantalum (Ta) | <= 1.0 ppb | < 0.9 |
| Trace Impurities - Thallium (Tl) | <= 5.0 ppb | < 2.0 |
| Trace Impurities - Tin (Sn) | <= 5.0 ppb | < 0.8 |
| Trace Impurities - Titanium (Ti) | <= 1.0 ppb | 0.2 |
| Trace Impurities - Vanadium (V) | <= 1.0 ppb | < 0.2 |
| Trace Impurities - Zinc (Zn) | <= 5.0 ppb | 0.3 |
| Trace Impurities - Zirconium (Zr) | <= 1.0 ppb | < 0.1 |

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

647

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R:- 10/22/24

MG124

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

Alliance TECHNICAL GROUP

**Water Mercury Preparation Sheet**

PB165276

**SOP ID :** M7470A-Mercury-19, MSFAM01.1-Mercury in Water-2

**SDG No :** E29Z5

**Matrix :** WATER

**Pippete ID:** HG A

**Balance ID :** N/A

**Filter paper ID :** NA

**pH Strip ID :** M4909

**Hood ID :** #1

**Block ID:** 1. HG HOT BLOCK#2 2. N/A

**Start Digest Date:** 11/26/2024 **Time :** 09:50 **Temp :** 94 °C

**End Digest Date:** 11/26/2024 **Time :** 11:50 **Temp :** 94 °C

**Digestion tube ID:** M60

**Block thermometer ID:** HG-DIG#2

**Dig Technician Signature:** MB

**Supervisor Signature:** TL

**Temp :** 1. 94°C 2. N/A

| Standared Name | MLS USED | STD REF. # FROM LOG |
|---|---|---|
| ICV | 100mL | MP83384 |
| CCV | 100mL | MP83386 |
| Matrix Spike | 0.40mL | MP83377 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---|---|---|
| HNO3/H2SO4(1:2) | 7.5mL | MP83207 |
| KMnO4 (5%) | 15.0mL | MP83208 |
| K2S2O8 (5%) | 8.0mL | MP83209 |
| Hydroxylamine HCL (12%) | 6.0mL | MP83210 |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |
| N/A | N/A | N/A |

| LAB SAMPLE ID | CLIENT SAMPLE ID | Wt(g)/Vol(ml) | Comment |
|---|---|---|---|
| 0.0 ppb | S0 | 100mL | MP83378 |
| 0.05 ppb | S0.05 | N/A | N/A |
| 0.2 ppb | S0.2 | 100mL | MP83379 |
| 2.5 ppb | S2.5 | 100mL | MP83380 |
| 5.0 ppb | S5.0 | 100mL | MP83381 |
| 7.5 ppb | S7.5 | 100mL | MP83382 |
| 10.0 ppb | S10.0 | 100mL | MP83383 |
| ICV | ICV | 100mL | MP83384 |
| ICB | ICB | 100mL | MP83385 |
| CCV | CCV | 100mL | MP83386 |
| CCB | CCB | 100mL | MP83387 |
| CRI | CRI | N/A | N/A |
| CHK STD | CHK STD | N/A | N/A |

**Extraction Conformance/Non-Conformance Comments:**

N/A

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|---|---|---|
| 11/26/24 @ 12:15 | MB – B19 – LVS | MB – metals Lab |
| | Preparation Group | Analysis Group |

Alliance TECHNICAL GROUP

## Water Mercury Preparation Sheet

**PB165276**

| Lab Sample ID | Client Sample ID | Initial Vol (ml) | Final Vol (ml) | pH | Comment | Prep Pos |
|---|---|---|---|---|---|---|
| P4877-01 | E29Z1 | 100 | 100 | <2 | N/A | 2-1 |
| P4877-02 | E29Z3 | 100 | 100 | <2 | N/A | 2 |
| P4877-03 | E29Z5 | 100 | 100 | <2 | N/A | 3 |
| P4877-04 | E29Z7 | 100 | 100 | <2 | N/A | 4 |
| P4877-05 | E2A13 | 100 | 100 | <2 | N/A | 5 |
| P4877-06 | E2A19 | 100 | 100 | <2 | N/A | 6 |
| P4877-07 | E2A22 | 100 | 100 | <2 | N/A | 7 |
| P4877-08 | E2A23 | 100 | 100 | <2 | N/A | 8 |
| P4877-09 | E29Z9 | 100 | 100 | <2 | N/A | 9 |
| P4877-10 | E2A01 | 100 | 100 | <2 | N/A | 10 |
| P4877-11 | E2A01D | 100 | 100 | <2 | N/A | 11 |
| P4877-12 | E2A01S | 100 | 100 | <2 | MP83377 | 12 |
| P4877-13 | E2A03 | 100 | 100 | <2 | N/A | 13 |
| P4877-14 | E2A05 | 100 | 100 | <2 | N/A | 14 |
| P4877-15 | E2A07 | 100 | 100 | <2 | N/A | 15 |
| P4877-16 | E2A09 | 100 | 100 | <2 | N/A | 16 |
| P4877-17 | E2A20 | 100 | 100 | <2 | N/A | 17 |
| P4877-18 | E2A24 | 100 | 100 | <2 | N/A | 18 |
| P4877-19 | E29S9 | 100 | 100 | <2 | N/A | 19 |
| PB165276BL | PBW276 | 100 | 100 | <2 | N/A | 20 |

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Fax : 908 789 8922

**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133633

| | | | |
|---|---|---|---|
| Review By | Sarabjit Jaswal | Review On | 11/27/2024 10:29:19 PM |
| Supervise By | Mohan Bera | Supervise On | 11/27/2024 10:31:16 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83378,MP83379,MP83380,MP83381,MP83382,MP83383 |
| ICV Standard | MP83384 |
| CCV Standard | MP83386 |
| ICSA Standard | |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83385,MP83387,MP83391 |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | S0 | S0 | CAL1 | 11/26/24 13:52 | | Mohan | OK |
| 2 | S0.2 | S01 | CAL2 | 11/26/24 13:54 | | Mohan | OK |
| 3 | S2.5 | S02 | CAL3 | 11/26/24 13:57 | | Mohan | OK |
| 4 | S5 | S03 | CAL4 | 11/26/24 13:59 | | Mohan | OK |
| 5 | S7.5 | S04 | CAL5 | 11/26/24 14:01 | | Mohan | OK |
| 6 | S10 | S05 | CAL6 | 11/26/24 14:04 | | Mohan | OK |
| 7 | ICV001 | ICV001 | ICV | 11/26/24 14:09 | | Mohan | OK |
| 8 | ICB001 | ICB001 | ICB | 11/26/24 14:12 | | Mohan | OK |
| 9 | CCV055 | CCV055 | CCV | 11/26/24 14:14 | | Mohan | OK |
| 10 | CCB055 | CCB055 | CCB | 11/26/24 14:16 | | Mohan | OK |
| 11 | PB165275BL | PBW275 | MB | 11/26/24 14:18 | | Mohan | OK |
| 12 | P4831-01 | E29S4 | SAM | 11/26/24 14:21 | | Mohan | OK |
| 13 | P4831-02 | E29S4D | DUP | 11/26/24 14:23 | | Mohan | OK |
| 14 | P4831-03 | E29S4S | MS | 11/26/24 14:25 | | Mohan | OK |
| 15 | P4831-04 | E29T2 | SAM | 11/26/24 14:27 | | Mohan | OK |
| 16 | P4831-05 | E29T4 | SAM | 11/26/24 14:30 | | Mohan | OK |
| 17 | P4831-06 | E29W0 | SAM | 11/26/24 14:32 | | Mohan | OK |
| 18 | P4831-07 | E29W4 | SAM | 11/26/24 14:34 | | Mohan | OK |

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**Instrument ID:** CV1

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| Supervise By | Mohan Bera | Supervise On | 11/27/2024 10:31:16 PM |

| STD. NAME | STD REF.# |
|---|---|
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| ICV Standard | MP83384 |
| CCV Standard | MP83386 |
| ICSA Standard | |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83385,MP83387,MP83391 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | P4831-08 | E29W1 | SAM | 11/26/24 14:37 | | Mohan | OK |
| 20 | P4831-09 | E29W5 | SAM | 11/26/24 14:39 | | Mohan | OK |
| 21 | P4831-10 | E29R6 | SAM | 11/26/24 14:41 | | Mohan | OK |
| 22 | P4831-11 | E29S0 | SAM | 11/26/24 14:43 | | Mohan | OK |
| 23 | P4831-12 | E29S2 | SAM | 11/26/24 14:46 | | Mohan | OK |
| 24 | P4831-13 | E29S6 | SAM | 11/26/24 14:48 | | Mohan | OK |
| 25 | P4831-14 | E29W6 | SAM | 11/26/24 14:50 | | Mohan | OK |
| 26 | P4831-15 | E29W2 | SAM | 11/26/24 14:52 | | Mohan | OK |
| 27 | P4832-01 | E29S5 | SAM | 11/26/24 14:55 | | Mohan | OK |
| 28 | P4832-02 | E29S5D | DUP | 11/26/24 14:57 | | Mohan | OK |
| 29 | P4832-03 | E29S5S | MS | 11/26/24 14:59 | | Mohan | OK |
| 30 | P4832-04 | E29T3 | SAM | 11/26/24 15:01 | | Mohan | OK |
| 31 | CCV056 | CCV056 | CCV | 11/26/24 15:04 | | Mohan | OK |
| 32 | CCB056 | CCB056 | CCB | 11/26/24 15:06 | | Mohan | OK |
| 33 | P4832-05 | E29T5 | SAM | 11/26/24 15:08 | | Mohan | OK |
| 34 | P4832-06 | E29R7 | SAM | 11/26/24 15:10 | | Mohan | OK |
| 35 | P4832-07 | E29S1 | SAM | 11/26/24 15:13 | | Mohan | OK |
| 36 | P4832-08 | E29S3 | SAM | 11/26/24 15:15 | | Mohan | OK |
| 37 | P4832-09 | E29S7 | SAM | 11/26/24 15:17 | | Mohan | OK |
| 38 | PB165276BL | PBW276 | MB | 11/26/24 15:20 | | Mohan | OK |

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**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133633

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|---|---|---|---|
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| Supervise By | Mohan Bera | Supervise On | 11/27/2024 10:31:16 PM |

| STD. NAME | STD REF.# |
|---|---|
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| ICV Standard | MP83384 |
| CCV Standard | MP83386 |
| ICSA Standard | |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83385,MP83387,MP83391 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 39 | P4877-01 | E29Z1 | SAM | 11/26/24 15:22 | | Mohan | OK |
| 40 | P4877-02 | E29Z3 | SAM | 11/26/24 15:24 | | Mohan | OK |
| 41 | P4877-03 | E29Z5 | SAM | 11/26/24 15:26 | | Mohan | OK |
| 42 | P4877-04 | E29Z7 | SAM | 11/26/24 15:29 | | Mohan | OK |
| 43 | P4877-05 | E2A13 | SAM | 11/26/24 15:31 | | Mohan | OK |
| 44 | P4877-06 | E2A19 | SAM | 11/26/24 15:33 | | Mohan | OK |
| 45 | P4877-07 | E2A22 | SAM | 11/26/24 15:35 | | Mohan | OK |
| 46 | P4877-08 | E2A23 | SAM | 11/26/24 15:38 | | Mohan | OK |
| 47 | P4877-09 | E29Z9 | SAM | 11/26/24 15:40 | | Mohan | OK |
| 48 | P4877-10 | E2A01 | SAM | 11/26/24 15:42 | | Mohan | OK |
| 49 | P4877-11 | E2A01D | DUP | 11/26/24 15:44 | | Mohan | OK |
| 50 | P4877-12 | E2A01S | MS | 11/26/24 15:47 | | Mohan | OK |
| 51 | P4877-13 | E2A03 | SAM | 11/26/24 15:49 | | Mohan | OK |
| 52 | P4877-14 | E2A05 | SAM | 11/26/24 15:51 | | Mohan | OK |
| 53 | CCV057 | CCV057 | CCV | 11/26/24 15:54 | | Mohan | OK |
| 54 | CCB057 | CCB057 | CCB | 11/26/24 15:56 | | Mohan | OK |
| 55 | P4877-15 | E2A07 | SAM | 11/26/24 15:58 | | Mohan | OK |
| 56 | P4877-16 | E2A09 | SAM | 11/26/24 16:00 | | Mohan | OK |
| 57 | P4877-17 | E2A20 | SAM | 11/26/24 16:03 | | Mohan | OK |
| 58 | P4877-18 | E2A24 | SAM | 11/26/24 16:05 | | Mohan | OK |

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**Instrument ID:** CV1

## Daily Analysis Runlog For Sequence/QCBatch ID # LB133633

| | | | |
|---|---|---|---|
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| Supervise By | Mohan Bera | Supervise On | 11/27/2024 10:31:16 PM |

| STD. NAME | STD REF.# |
|---|---|
| ICAL Standard | MP83378,MP83379,MP83380,MP83381,MP83382,MP83383 |
| ICV Standard | MP83384 |
| CCV Standard | MP83386 |
| ICSA Standard | |
| CRI Standard | |
| LCS Standard | |
| Chk Standard | MP83385,MP83387,MP83391 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 59 | P4877-19 | E29S9 | SAM | 11/26/24 16:07 | | Mohan | OK |
| 60 | PB165277BL | PBW277 | MB | 11/26/24 16:09 | | Mohan | OK |
| 61 | P4878-01 | E29Z2 | SAM | 11/26/24 16:12 | | Mohan | OK |
| 62 | P4878-02 | E29Z4 | SAM | 11/26/24 16:14 | | Mohan | OK |
| 63 | P4878-03 | E29Z6 | SAM | 11/26/24 16:16 | | Mohan | OK |
| 64 | P4878-04 | E29Z8 | SAM | 11/26/24 16:18 | | Mohan | OK |
| 65 | P4878-05 | E2A14 | SAM | 11/26/24 16:21 | | Mohan | OK |
| 66 | P4878-06 | E2A00 | SAM | 11/26/24 16:23 | | Mohan | OK |
| 67 | P4878-07 | E2A02 | SAM | 11/26/24 16:25 | | Mohan | OK |
| 68 | P4878-08 | E2A02D | DUP | 11/26/24 16:28 | | Mohan | OK |
| 69 | P4878-09 | E2A02S | MS | 11/26/24 16:30 | | Mohan | OK |
| 70 | P4878-10 | E2A04 | SAM | 11/26/24 16:32 | | Mohan | OK |
| 71 | P4878-11 | E2A06 | SAM | 11/26/24 16:34 | | Mohan | OK |
| 72 | P4878-12 | E2A08 | SAM | 11/26/24 16:37 | | Mohan | OK |
| 73 | P4878-13 | E2A10 | SAM | 11/26/24 16:39 | | Mohan | OK |
| 74 | CCV058 | CCV058 | CCV | 11/26/24 16:41 | | Mohan | OK |
| 75 | CCB058 | CCB058 | CCB | 11/26/24 16:43 | | Mohan | OK |

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DEPT: 2173

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J24402409100 1uv

FedEx Express

11/16/24 0905 1.7C

**SATURDAY 12:00P**
**PRIORITY OVERNIGHT**

TRK# 0201 **7799 8239 0195**

**X0 KBCA**

**07092**
**NJ-US EWR**

After printing this label:
**CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH**
1. Fold the printed page along the horizontal line.
2. Place label in shipping pouch and affix it to your shipment.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

ORIGIN ID:DAYA (916) 804-6338
MATT HARTMAN
EA ENGINEERING SCIENCE & TECH
170 E MAIN ST
SUITE #4
DONNELSVILLE, OH 45319
UNITED STATES US

SHIP DATE: 15NOV24
ACTWGT: 50.00 LB
CAD: 25326/SSI3INET4535
DIMS: 24x12x12 IN

BILL SENDER

TO **MOHAMMAD AHMED**
**ALLIANCE TECHNICAL GROUP LLC**
**284 SHEFFIELD STREET**
**MOUNTAINSIDE NJ 07092**
(908) 789-8900
INV:
PO:
REF: 15765-32-0134-CP-6.14
DEPT: 2173

11-16-24
9:00 AM
20

58CJ5/582E/C8C4

J244034061001av

FedEx Express

TRK# 0201 **7799 8940 0140**

**SATURDAY 12:00P**
**PRIORITY OVERNIGHT**

**XO KBCA**

**07092**
**NJ-US EWR**

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ORIGIN ID:DAYA (916) 804-6338
MATT HARTMAN
EA ENGINEERING SCIENCE & TECH
170 E MAIN ST
SUITE #4
DONNELSVILLE, OH 45319
UNITED STATES US

SHIP DATE: 15NOV24
ACTWGT: 50.00 LB
CAD: 253267503/INET4535
DIMS: 24x12x12 IN

BILL SENDER

TO **MOHAMMAD AHMED**
**ALLIANCE TECHNICAL GROUP LLC**
**284 SHEFFIELD STREET**

**MOUNTAINSIDE NJ 07092**
(908) 789-8900
INV:
PO:
REF: 15785-32-0134-CP-6.14
DEPT: 2173

58CJ5/582E/C6C4

J24402409100tuv

FedEx Express

11/16/24 0905 2-1.c

**SATURDAY 12:00P**
**PRIORITY OVERNIGHT**

TRK# 0201 **7799 8940 7501**

**XO KBCA**

**07092**
**NJ-US EWR**

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Alliance TECHNICAL GROUP 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

# Login Summary Report

| | | | | | |
|---|---|---|---|---|---|
| Order ID : | P4877 | Order Date : | 11/16/2024 9:05:00 AM | Project Mgr : | Deepak |
| Client : | USEPA CLP SMO | Project : | 51878 | Report Type : | USEPA CLP |
| Contact : | Anita Kapadia | Receive Date : | 11/16/2024 9:05:00 AM | EDD Type : | EPA CLP |
| Date Sign Off : | 11/20/2024 10:44:59 AM | | | | |

| Sample ID | Client ID | Matrix | Sampling Date | Test | Test Group | Method | TAT Days | Fax Due Date | HC Due Date |
|---|---|---|---|---|---|---|---|---|---|
| P4877-01 | E29Z1 | Water | 11/14/2024 | | | | | | |
| | | | | Mercury | | SFAM_HG | 15 | 12/09/2024 | 12/09/2024 |
| | | | | Metals CLP MS | | SFAM_MS | 15 | 12/09/2024 | 12/09/2024 |
| P4877-02 | E29Z3 | Water | 11/14/2024 | | | | | | |
| | | | | Mercury | | SFAM_HG | 15 | 12/09/2024 | 12/09/2024 |
| | | | | Metals CLP MS | | SFAM_MS | 15 | 12/09/2024 | 12/09/2024 |
| P4877-03 | E29Z5 | Water | 11/14/2024 | | | | | | |
| | | | | Mercury | | SFAM_HG | 15 | 12/09/2024 | 12/09/2024 |
| | | | | Metals CLP MS | | SFAM_MS | 15 | 12/09/2024 | 12/09/2024 |
| P4877-04 | E29Z7 | Water | 11/14/2024 | | | | | | |
| | | | | Mercury | | SFAM_HG | 15 | 12/09/2024 | 12/09/2024 |
| | | | | Metals CLP MS | | SFAM_MS | 15 | 12/09/2024 | 12/09/2024 |
| P4877-05 | E2A13 | Water | 11/14/2024 | | DUP | | | | |
| | | | | Mercury | | SFAM_HG | 15 | 12/09/2024 | 12/09/2024 |
| | | | | Metals CLP MS | | SFAM_MS | 15 | 12/09/2024 | 12/09/2024 |
| P4877-06 | E2A19 | Water | 11/14/2024 | | FB | | | | |
| | | | | Mercury | | SFAM_HG | 15 | 12/09/2024 | 12/09/2024 |
| | | | | Metals CLP MS | | SFAM_MS | 15 | 12/09/2024 | 12/09/2024 |
| P4877-07 | E2A22 | Water | 11/14/2024 | | RB | | | | |
| | | | | Mercury | | SFAM_HG | 15 | 12/09/2024 | 12/09/2024 |
| | | | | Metals CLP MS | | SFAM_MS | 15 | 12/09/2024 | 12/09/2024 |
| P4877-08 | E2A23 | Water | 11/14/2024 | | RB | | | | |
| | | | | Mercury | | SFAM_HG | 15 | 12/09/2024 | 12/09/2024 |
| | | | | Metals CLP MS | | SFAM_MS | 15 | 12/09/2024 | 12/09/2024 |
| P4877-09 | E29Z9 | Water | 11/14/2024 | | | | | | |
| | | | | Mercury | | SFAM_HG | 15 | 12/09/2024 | 12/09/2024 |
| | | | | Metals CLP MS | | SFAM_MS | 15 | 12/09/2024 | 12/09/2024 |
| P4877-10 | E2A01 | Water | 11/15/2024 | | | | | | |
| | | | | Mercury | | SFAM_HG | 15 | 12/09/2024 | 12/09/2024 |
| | | | | Metals CLP MS | | SFAM_MS | 15 | 12/09/2024 | 12/09/2024 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| P4877-11 | E2A01D | Water | 11/15/2024 | | | | | | |
| | | | | Mercury | | SFAM_HG | 15 | 12/09/2024 | 12/09/2024 |
| | | | | Metals CLP MS | | SFAM_MS | 15 | 12/09/2024 | 12/09/2024 |
| P4877-12 | E2A01S | Water | 11/15/2024 | | | | | | |
| | | | | Mercury | | SFAM_HG | 15 | 12/09/2024 | 12/09/2024 |
| | | | | Metals CLP MS | | SFAM_MS | 15 | 12/09/2024 | 12/09/2024 |
| P4877-13 | E2A03 | Water | 11/15/2024 | | | | | | |
| | | | | Mercury | | SFAM_HG | 15 | 12/09/2024 | 12/09/2024 |
| | | | | Metals CLP MS | | SFAM_MS | 15 | 12/09/2024 | 12/09/2024 |
| P4877-14 | E2A05 | Water | 11/15/2024 | | | | | | |
| | | | | Mercury | | SFAM_HG | 15 | 12/09/2024 | 12/09/2024 |
| | | | | Metals CLP MS | | SFAM_MS | 15 | 12/09/2024 | 12/09/2024 |
| P4877-15 | E2A07 | Water | 11/15/2024 | | | | | | |
| | | | | Mercury | | SFAM_HG | 15 | 12/09/2024 | 12/09/2024 |
| | | | | Metals CLP MS | | SFAM_MS | 15 | 12/09/2024 | 12/09/2024 |
| P4877-16 | E2A09 | Water | 11/15/2024 | | | | | | |
| | | | | Mercury | | SFAM_HG | 15 | 12/09/2024 | 12/09/2024 |
| | | | | Metals CLP MS | | SFAM_MS | 15 | 12/09/2024 | 12/09/2024 |
| P4877-17 | E2A20 | Water | 11/15/2024 | | FB | | | | |
| | | | | Mercury | | SFAM_HG | 15 | 12/09/2024 | 12/09/2024 |
| | | | | Metals CLP MS | | SFAM_MS | 15 | 12/09/2024 | 12/09/2024 |
| P4877-18 | E2A24 | Water | 11/15/2024 | | RB | | | | |
| | | | | Mercury | | SFAM_HG | 15 | 12/09/2024 | 12/09/2024 |
| | | | | Metals CLP MS | | SFAM_MS | 15 | 12/09/2024 | 12/09/2024 |
| P4877-19 | E29S9 | Water | 11/15/2024 | | RB | | | | |
| | | | | Mercury | | SFAM_HG | 15 | 12/09/2024 | 12/09/2024 |
| | | | | Metals CLP MS | | SFAM_MS | 15 | 12/09/2024 | 12/09/2024 |

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** PB165157 **WorkList ID :** 185634 **Department :** Digestion **Date :** 11-21-2024 08:44:55

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P4877-01 | E29Z1 | Water | Metals CLP MS | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/14/2024 | SFAM_MS |
| P4877-02 | E29Z3 | Water | Metals CLP MS | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/14/2024 | SFAM_MS |
| P4877-03 | E29Z5 | Water | Metals CLP MS | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/14/2024 | SFAM_MS |
| P4877-04 | E29Z7 | Water | Metals CLP MS | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/14/2024 | SFAM_MS |
| P4877-05 | E2A13 | Water | Metals CLP MS | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/14/2024 | SFAM_MS |
| P4877-06 | E2A19 | Water | Metals CLP MS | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/14/2024 | SFAM_MS |
| P4877-07 | E2A22 | Water | Metals CLP MS | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/14/2024 | SFAM_MS |
| P4877-08 | E2A23 | Water | Metals CLP MS | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/14/2024 | SFAM_MS |
| P4877-09 | E29Z9 | Water | Metals CLP MS | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/14/2024 | SFAM_MS |
| P4877-10 | E2A01 | Water | Metals CLP MS | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/14/2024 | SFAM_MS |
| P4877-11 | E2A01D | Water | Metals CLP MS | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/15/2024 | SFAM_MS |
| P4877-12 | E2A01S | Water | Metals CLP MS | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/15/2024 | SFAM_MS |
| P4877-13 | E2A03 | Water | Metals CLP MS | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/15/2024 | SFAM_MS |
| P4877-14 | E2A05 | Water | Metals CLP MS | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/15/2024 | SFAM_MS |
| P4877-15 | E2A07 | Water | Metals CLP MS | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/15/2024 | SFAM_MS |
| P4877-16 | E2A09 | Water | Metals CLP MS | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/15/2024 | SFAM_MS |
| P4877-17 | E2A20 | Water | Metals CLP MS | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/15/2024 | SFAM_MS |
| P4877-18 | E2A24 | Water | Metals CLP MS | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/15/2024 | SFAM_MS |
| P4877-19 | E29S9 | Water | Metals CLP MS | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/15/2024 | SFAM_MS |

667

**Date/Time** 11/21/24 8:50

**Raw Sample Received by:** [signature]

**Raw Sample Relinquished by:** [signature]



**Date/Time** 11/21/24 10:15

**Raw Sample Received by:** [signature]

**Raw Sample Relinquished by:** [signature]

# WORKLIST(Hardcopy Internal Chain)

**WorkList Name :** P4877_HgW **WorkList ID :** 185752 **Department :** Digestion **Date :** 11-25-2024 12:00:08

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P4877-01 | E29Z1 | Water | Mercury | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/14/2024 | SFAM_HG |
| P4877-02 | E29Z3 | Water | Mercury | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/14/2024 | SFAM_HG |
| P4877-03 | E29Z5 | Water | Mercury | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/14/2024 | SFAM_HG |
| P4877-04 | E29Z7 | Water | Mercury | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/14/2024 | SFAM_HG |
| P4877-05 | E2A13 | Water | Mercury | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/14/2024 | SFAM_HG |
| P4877-06 | E2A19 | Water | Mercury | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/14/2024 | SFAM_HG |
| P4877-07 | E2A22 | Water | Mercury | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/14/2024 | SFAM_HG |
| P4877-08 | E2A23 | Water | Mercury | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/14/2024 | SFAM_HG |
| P4877-09 | E29Z9 | Water | Mercury | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/14/2024 | SFAM_HG |
| P4877-10 | E2A01 | Water | Mercury | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/14/2024 | SFAM_HG |
| P4877-11 | E2A01D | Water | Mercury | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/15/2024 | SFAM_HG |
| P4877-12 | E2A01S | Water | Mercury | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/15/2024 | SFAM_HG |
| P4877-13 | E2A03 | Water | Mercury | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/15/2024 | SFAM_HG |
| P4877-14 | E2A05 | Water | Mercury | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/15/2024 | SFAM_HG |
| P4877-15 | E2A07 | Water | Mercury | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/15/2024 | SFAM_HG |
| P4877-16 | E2A09 | Water | Mercury | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/15/2024 | SFAM_HG |
| P4877-17 | E2A20 | Water | Mercury | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/15/2024 | SFAM_HG |
| P4877-18 | E2A24 | Water | Mercury | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/15/2024 | SFAM_HG |
| P4877-19 | E29S9 | Water | Mercury | 1:1 HNO3 to pH < 2 | USEP01 | Q12 | 11/15/2024 | SFAM_HG |

899

**Date/Time** 11/26/24 @ 9:05

**Raw Sample Received by:** MB-DLG-LMS

**Raw Sample Relinquished by:** MB-DLG-LMS



**Date/Time** 11/26/24 @ 10:15

**Raw Sample Received by:** MB-DLG-LMS

**Raw Sample Relinquished by:** MB-DLG-LMS