

PREP BATCH REPORT

Prep Code: **PRP-3010**
 Prep Batch **163116** Prep Temp: **92 °C**

Technician: **Amanda E. McDaniels**
 Batch Units: **ML**

Prep Start Date: **1/20/2022 1:11:20 PM**
 Prep End Date: **1/21/2022 10:37:00 AM**

| Sample ID | Matrix | pH | Initial Samp Amt | Sol Added | Sol Recovered | Final Vol (mL) | Factor | Balance | Prep Start Date | Prep End Date |
|--------------------|--------------|----|------------------|-----------|---------------|----------------|--------|---------|-----------------|---------------|
| MB-163116 | Temp cell E3 | | 50 | 0 | 0 | 50 | 1 | | 1/20/2022 | 1/21/2022 |
| LCS4-163116 | | | 50 | 0 | 0 | 50 | 1 | | 1/20/2022 | 1/21/2022 |
| B22011214-001B | Ground Water | | 50 | 0 | 0 | 50 | 1 | | 1/20/2022 | 1/21/2022 |
| B22011214-001BMS4 | | | 50 | 0 | 0 | 50 | 1 | | 1/20/2022 | 1/21/2022 |
| B22011214-001BMSD4 | | | 50 | 0 | 0 | 50 | 1 | | 1/20/2022 | 1/21/2022 |
| B22011227-001B | Ground Water | | 50 | 0 | 0 | 50 | 1 | | 1/20/2022 | 1/21/2022 |
| B22011228-001B | Ground Water | | 50 | 0 | 0 | 50 | 1 | | 1/20/2022 | 1/21/2022 |

| Number | Reagent Name | Exp Date |
|--------|--|------------|
| 14614 | 50mL DigiTubes J526127-2104 | 12/10/2022 |
| 14626 | Nitric Acid 69.0- 70.0% D0521 | 12/14/2026 |
| 14758 | Hydrochloric Acid, 36.5-38.0% 0000275677 | 12/15/2025 |

| Spk ID | Spike Name | SampType | AmtAdd | Exp Date |
|----------------|------------|----------|---------|------------|
| ME211124 EL-M | EL-MSICV-2 | LCS4/MS4 | 0.05 ml | 11/24/2022 |
| ME211202 EL200 | EL-200.2MS | LCS4/MS4 | 0.05 mL | 12/2/2022 |
| ME220117 AUDI | AUDIGSPK | LCS4/MS4 | 0.05 ml | 10/25/2022 |

Energy Laboratories Inc

ANALYTICAL RUN Summary

25-Jan-22

Run ID ICPMS207-B_220121A

Run Start Date: 1/21/2022 2:08:28 P
 Analyst: Cindy Rohrer
 Ical: 0
 Column ID:
 Comments:

| Instrument ID | Description |
|---------------|---------------------------------------|
| 04F07114 | Metals 5-50 uL Adjustable Pipette |
| 340760037 | Metals 100-1000 uL Adjustable Pipette |
| 340760040 | Metals 100-1000 uL Adjustable Pipette |
| 440780018 | Metals 1-5 mL Adjustable Pipette |
| 440780025 | Metals 1-5 mL Adjustable Pipette |
| 841980007 | 1000-5000uL Pipette |
| 841980009 | 1000-5000uL Pipette |

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|---------------------------|----------------------------|------------|-----------|-------------|------------|----------|-----------------|
| ME210901 ICSA | ICSA | | | | | ICSA | 9/1/2022 |
| ME210901 ICSAB | ICSAB | | | | | ICSAB | 9/1/2022 |
| ME211206 ICV STANDARD | ICV for ICPMS Standards | | | | | ICV | 4/30/2022 |
| ME211207 2008TS | 200.8 Tune Solution | | | | | | 12/7/2022 |
| ME220112 0.025 PPB STAND | 0.025 ppb Standard | | | | | | 11/18/2022 |
| ME220112 0.05 PPB STANDA | 0.5 ppb Standard | | | | | | 11/18/2022 |
| ME220112 0.1 PPB STANDAR | 0.1 ppb Standard | | | | | | 11/18/2022 |
| ME220112 0.5 PPB STANDAR | 0.5 ppb Standard | | | | | | 11/18/2022 |
| ME220112 1 PPB STANDARD | 1 ppb Standard | | | | | | 11/18/2022 |
| ME220112 10 PPB STANDAR | 10 ppb Standard | | | | | CCV | 11/18/2022 |
| ME220112 100 PPB STANDAR | 100 ppb Standard | | | | | CAL8 | 11/18/2022 |
| ME220112 50 PPB STANDAR | 50 ppb Standard/CCV | | | | | CRI | 11/18/2022 |
| ME220112 7900 INTERNAL ST | Internal Standards 2 mg/L | | | | | | 2/8/2022 |
| ME220112 SS1 | SS1 ICPMS Spiking Solution | | | | | LFB/MS | 12/8/2022 |
| ME220112A 1000 PPB STAND | 1000 PPB Standard | | | | | URL | 11/18/2022 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|--------|--------------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998053 | Rinse | ICPMS-6020-W- SAMP | | | 1/21/2022 2:08:2 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|--------|--------------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998054 | Rinse | ICPMS-6020-W- SAMP | | | 1/21/2022 2:14:4 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|--------|--------------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998055 | Rinse | ICPMS-6020-W- SAMP | | | 1/21/2022 2:20:5 | 1 | R373694 | | | 0 | 0 | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------|--------------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998056 | Cal Blk | ICPMS-6020-W- SAMP | | | 1/21/2022 2:27:1 | 1 | R373694 | | | 0 | 0 | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| | | | | | | | | | | | | | | | | |
|------------|---|------|---|---|--|---|---|---|-----------|-----------|-------|----|---|---|----|---|
| Aluminum | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0006966 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0002882 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0001626 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 8.917E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Beryllium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0001137 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Boron | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0036397 | 0.0036397 | 1 | 0% | 0 | 0 | 0% | L |
| Cadmium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 2.969E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Calcium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0254163 | 0.0254163 | 50 | 0% | 0 | 0 | 0% | L |
| Cerium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 8.97E-06 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0002078 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 2.037E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0001010 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Iron | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0021231 | 0.0021231 | 5 | 0% | 0 | 0 | 0% | L |
| Lanthanum | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 1.209E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 3.957E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Magnesium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0084694 | 0.0084694 | 50 | 0% | 0 | 0 | 0% | L |
| Manganese | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 5.319E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 7.78E-06 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0000598 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0001477 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Potassium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0951865 | 0.0951865 | 50 | 0% | 0 | 0 | 0% | L |
| Selenium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 6.961E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silicon | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0786454 | 0.1 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 1.541E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Sodium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0321039 | 0.0321039 | 50 | 0% | 0 | 0 | 0% | L |
| Strontium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 9.136E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0001262 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 7.051E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Tin | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0021596 | 0.0021596 | 0.1 | 0% | 0 | 0 | 0% | L |
| Titanium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0001844 | 0.001 | 1 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|---------|---------------|------------|---------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14998056 | Cal Blk | ICPMS-6020-W- | SAMP | | 1/21/2022 2:27:1 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Uranium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 1.948E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.004194 | 0.004194 | 1 | 0% | 0 | 0 | 0% | L |
| Zinc | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0006119 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lithium | B | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.05 | 0.05 | 1 | 0% | 0 | 0 | 0% | L |
| Iron, Ferrous | C | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0021231 | 0.0021231 | 5 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|---------------|---------------|-------------|-------------|------------------|-----------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998057 | 0.025 ppb STD | ICPMS-6020B-C | Cal1 | | 1/21/2022 2:34:3 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0001162 | 0.0001162 | | 0 | 0 | 0 | | 0.01 | | 0% | | | 0% | |
| Antimony | A | mg/L | 0.00002883 | 0.00002883 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Arsenic | A | mg/L | 0.00004803 | 0.00004803 | | 0.000025 | 0 | 0 | | 0.001 | | 192% | 80 | 120 | 0% | S |
| Barium | A | mg/L | 0.00003113 | 0.00003113 | | 0.000025 | 0 | 0 | | 0.0003 | | 125% | 80 | 120 | 0% | S |
| Beryllium | A | mg/L | 0.00002409 | 0.00002409 | | 0.000025 | 0 | 0 | | 0.001 | | 96% | 80 | 120 | 0% | |
| Boron | A | mg/L | -0.0003706 | -0.0003706 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Cadmium | A | mg/L | 0.00002301 | 0.00002301 | | 0.000025 | 0 | 0 | | 0.001 | | 92% | 80 | 120 | 0% | |
| Calcium | A | mg/L | 0.006919 | 0.006919 | | 0 | 0 | 0 | | 1 | | 0% | | | 0% | |
| Cerium | A | mg/L | 0.00002416 | 0.00002416 | | 0.000025 | 0 | 0 | | 0.001 | | 97% | 80 | 120 | 0% | |
| Chromium | A | mg/L | 0.00003595 | 0.00003595 | | 0.000025 | 0 | 0 | | 0.001 | | 144% | 80 | 120 | 0% | S |
| Cobalt | A | mg/L | 0.00002271 | 0.00002271 | | 0.000025 | 0 | 0 | | 0.001 | | 91% | 80 | 120 | 0% | |
| Copper | A | mg/L | 0.00002946 | 0.00002946 | | 0 | 0 | 0 | | 0.005 | | 0% | | | 0% | |
| Iron | A | mg/L | 0.000751 | 0.000751 | | 0 | 0 | 0 | | 0.01 | | 0% | | | 0% | |
| Lanthanum | A | mg/L | 0.00002362 | 0.00002362 | | 0.000025 | 0 | 0 | | 0.001 | | 94% | 80 | 120 | 0% | |
| Lead | A | mg/L | 0.00002086 | 0.00002086 | | 0.000025 | 0 | 0 | | 0.001 | | 83% | 80 | 120 | 0% | |
| Lithium | A | mg/L | 0.0002615 | 0.0002615 | | 0.0003125 | 0 | 0 | | 1 | | 84% | 80 | 120 | 0% | |
| Magnesium | A | mg/L | 0.005972 | 0.005972 | | 0 | 0 | 0 | | 1 | | 0% | | | 0% | |
| Manganese | A | mg/L | 0.000027 | 0.000027 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Mercury | A | mg/L | -6.456E-07 | -6.456E-07 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Molybdenum | A | mg/L | 0.00002591 | 0.00002591 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Nickel | A | mg/L | 0.00004174 | 0.00004174 | | 0 | 0 | 0 | | 0.005 | | 0% | | | 0% | |
| Potassium | A | mg/L | 0.008966 | 0.008966 | | 0.00625 | 0 | 0 | | 1 | | 143% | 80 | 120 | 0% | S |
| Selenium | A | mg/L | 0.00001752 | 0.00001752 | | 0.000025 | 0 | 0 | | 0.005 | | 70% | 80 | 120 | 0% | S |
| Silicon | A | mg/L | -0.00006814 | -0.00006814 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Silver | A | mg/L | 0.00001498 | 0.00001498 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|---------------|---------------|-------------|-------------|------------------|-----------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14998057 | 0.025 ppb STD | ICPMS-6020B-C | Cal1 | | 1/21/2022 2:34:3 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Sodium | A | mg/L | 0.005683 | 0.005683 | | 0.00625 | 0 | 0 | | 1 | | 91% | 80 | 120 | 0% | |
| Strontium | A | mg/L | 0.00001748 | 0.00001748 | | 0 | 0 | 0 | | 0.001 | | 0% | 80 | 120 | 0% | |
| Thallium | A | mg/L | 0.00002227 | 0.00002227 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Thorium | A | mg/L | 0.00001675 | 0.00001675 | | 0 | 0 | 0 | | 0.05 | | 0% | | | 0% | |
| Tin | A | mg/L | 0.00004093 | 0.00004093 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Titanium | A | mg/L | 0.00004367 | 0.00004367 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Uranium | A | mg/L | 0.00002478 | 0.00002478 | | 0.000025 | 0 | 0 | | 0.001 | | 99% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.00009247 | 0.00009247 | | 0 | 0 | 0 | | 0.005 | | 0% | | | 0% | |
| Zinc | A | mg/L | 0.00005315 | 0.00005315 | | 0 | 0 | 0 | | 0.01 | | 0% | | | 0% | |
| Iron, Ferrous | C | mg/L | 0.000751 | 0.000751 | | 0.000025 | 0 | 0 | | 0.01 | 5 | 3004% | 80 | 120 | 0% | S |
| Silicon as SiO2 | C | mg/L | -0.00014582 | -0.00014582 | | 0.0000535 | 0 | 0 | | 0.214 | 0.9 | -273% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|--------------|---------------|------------|------------|------------------|----------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998058 | 0.05 ppb STD | ICPMS-6020B-C | Cal2 | | 1/21/2022 2:41:1 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0001081 | 0.0001081 | | 0 | 0 | 0 | | 0.01 | | 0% | | | 0% | |
| Antimony | A | mg/L | 0.00005595 | 0.00005595 | | 0.00005 | 0 | 0 | | 0.001 | | 112% | 80 | 120 | 0% | |
| Arsenic | A | mg/L | 0.00006918 | 0.00006918 | | 0.00005 | 0 | 0 | | 0.001 | | 138% | 80 | 120 | 0% | S |
| Barium | A | mg/L | 0.00004527 | 0.00004527 | | 0.00005 | 0 | 0 | | 0.0003 | | 91% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | 0.00005034 | 0.00005034 | | 0.00005 | 0 | 0 | | 0.001 | | 101% | 80 | 120 | 0% | |
| Boron | A | mg/L | -0.00109 | -0.00109 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Cadmium | A | mg/L | 0.00005967 | 0.00005967 | | 0.00005 | 0 | 0 | | 0.001 | | 119% | 80 | 120 | 0% | |
| Calcium | A | mg/L | 0.01484 | 0.01484 | | 0.0125 | 0 | 0 | | 1 | | 119% | 80 | 120 | 0% | |
| Cerium | A | mg/L | 0.00005741 | 0.00005741 | | 0.00005 | 0 | 0 | | 0.001 | | 115% | 80 | 120 | 0% | |
| Chromium | A | mg/L | 0.00006244 | 0.00006244 | | 0.00005 | 0 | 0 | | 0.001 | | 125% | 80 | 120 | 0% | S |
| Cobalt | A | mg/L | 0.00006116 | 0.00006116 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Copper | A | mg/L | 0.00005747 | 0.00005747 | | 0.00005 | 0 | 0 | | 0.005 | | 115% | 80 | 120 | 0% | |
| Iron | A | mg/L | 0.001561 | 0.001561 | | 0.00125 | 0 | 0 | | 0.01 | | 125% | 80 | 120 | 0% | S |
| Lanthanum | A | mg/L | 0.00005514 | 0.00005514 | | 0.00005 | 0 | 0 | | 0.001 | | 110% | 80 | 120 | 0% | |
| Lead | A | mg/L | 0.00005023 | 0.00005023 | | 0.00005 | 0 | 0 | | 0.001 | | 100% | 80 | 120 | 0% | |
| Lithium | A | mg/L | 0.0006174 | 0.0006174 | | 0.000625 | 0 | 0 | | 1 | | 99% | 80 | 120 | 0% | |
| Magnesium | A | mg/L | 0.01456 | 0.01456 | | 0.0125 | 0 | 0 | | 1 | | 116% | 80 | 120 | 0% | |
| Manganese | A | mg/L | 0.00005438 | 0.00005438 | | 0.00005 | 0 | 0 | | 0.001 | | 109% | 80 | 120 | 0% | |
| Mercury | A | mg/L | -5.411E-07 | -5.411E-07 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|--------------|---------------|-------------|-------------|------------------|---------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14998058 | 0.05 ppb STD | ICPMS-6020B-C | Cal2 | | 1/21/2022 2:41:1 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Molybdenum | A | mg/L | 0.00006304 | 0.00006304 | | 0.00005 | 0 | 0 | | 0.001 | | 126% | 80 | 120 | 0% | S |
| Nickel | A | mg/L | 0.00007482 | 0.00007482 | | 0 | 0 | 0 | | 0.005 | | 0% | | | 0% | |
| Potassium | A | mg/L | 0.01994 | 0.01994 | | 0.0125 | 0 | 0 | | 1 | | 160% | 80 | 120 | 0% | S |
| Selenium | A | mg/L | 0.00005245 | 0.00005245 | | 0.00005 | 0 | 0 | | 0.005 | | 105% | 80 | 120 | 0% | |
| Silicon | A | mg/L | -0.00002162 | -0.00002162 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Silver | A | mg/L | 0.00002194 | 0.00002194 | | 0.00002 | 0 | 0 | | 0.001 | | 110% | 80 | 120 | 0% | |
| Sodium | A | mg/L | 0.01385 | 0.01385 | | 0.0125 | 0 | 0 | | 1 | | 111% | 80 | 120 | 0% | |
| Strontium | A | mg/L | 0.00004504 | 0.00004504 | | 0.00005 | 0 | 0 | | 0.001 | | 90% | 80 | 120 | 0% | |
| Thallium | A | mg/L | 0.00005561 | 0.00005561 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Thorium | A | mg/L | 0.00004279 | 0.00004279 | | 0 | 0 | 0 | | 0.05 | | 0% | | | 0% | |
| Tin | A | mg/L | 0.0000546 | 0.0000546 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Titanium | A | mg/L | 0.00006111 | 0.00006111 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Uranium | A | mg/L | 0.00005752 | 0.00005752 | | 0.00005 | 0 | 0 | | 0.001 | | 115% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.0001469 | 0.0001469 | | 0 | 0 | 0 | | 0.005 | | 0% | | | 0% | |
| Zinc | A | mg/L | 0.00004369 | 0.00004369 | | 0 | 0 | 0 | | 0.01 | | 0% | | | 0% | |
| Iron, Ferrous | C | mg/L | 0.001561 | 0.001561 | | 0.00005 | 0 | 0 | | 0.01 | 5 | 3122% | 80 | 120 | 0% | S |
| Silicon as SiO2 | C | mg/L | -4.6267E-05 | -4.6267E-05 | | 0.00428 | 0 | 0 | | 0.214 | 0.9 | -1% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|--------------|---------------|------------|------------|------------------|--------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998059 | 0.10 ppb STD | ICPMS-6020B-C | Cal3 | | 1/21/2022 2:47:5 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0001464 | 0.0001464 | | 0.0001 | 0 | 0 | | 0.01 | | 146% | 80 | 120 | 0% | S |
| Antimony | A | mg/L | 0.0001083 | 0.0001083 | | 0.0001 | 0 | 0 | | 0.001 | | 108% | 80 | 120 | 0% | |
| Arsenic | A | mg/L | 0.0001265 | 0.0001265 | | 0.0001 | 0 | 0 | | 0.001 | | 127% | 80 | 120 | 0% | S |
| Barium | A | mg/L | 0.0001062 | 0.0001062 | | 0.0001 | 0 | 0 | | 0.0003 | | 106% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | 0.0001029 | 0.0001029 | | 0.0001 | 0 | 0 | | 0.001 | | 103% | 80 | 120 | 0% | |
| Boron | A | mg/L | -0.001098 | -0.001098 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Cadmium | A | mg/L | 0.0001046 | 0.0001046 | | 0.0001 | 0 | 0 | | 0.001 | | 105% | 80 | 120 | 0% | |
| Calcium | A | mg/L | 0.02655 | 0.02655 | | 0.025 | 0 | 0 | | 1 | | 106% | 80 | 120 | 0% | |
| Cerium | A | mg/L | 0.0001026 | 0.0001026 | | 0.0001 | 0 | 0 | | 0.001 | | 103% | 80 | 120 | 0% | |
| Chromium | A | mg/L | 0.00008118 | 0.00008118 | | 0.0001 | 0 | 0 | | 0.001 | | 81% | 80 | 120 | 0% | |
| Cobalt | A | mg/L | 0.0001007 | 0.0001007 | | 0.0001 | 0 | 0 | | 0.001 | | 101% | 80 | 120 | 0% | |
| Copper | A | mg/L | 0.0001002 | 0.0001002 | | 0.0001 | 0 | 0 | | 0.005 | | 100% | 80 | 120 | 0% | |
| Iron | A | mg/L | 0.002747 | 0.002747 | | 0.0025 | 0 | 0 | | 0.01 | | 110% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|--------------|---------------|-------------|-------------|------------------|----------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14998059 | 0.10 ppb STD | ICPMS-6020B-C | Cal3 | | 1/21/2022 2:47:5 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Lanthanum | A | mg/L | 0.0001032 | 0.0001032 | | 0.0001 | 0 | 0 | | 0.001 | | 103% | 80 | 120 | 0% | |
| Lead | A | mg/L | 0.00009554 | 0.00009554 | | 0.0001 | 0 | 0 | | 0.001 | | 96% | 80 | 120 | 0% | |
| Lithium | A | mg/L | 0.001203 | 0.001203 | | 0.00125 | 0 | 0 | | 1 | | 96% | 80 | 120 | 0% | |
| Magnesium | A | mg/L | 0.02612 | 0.02612 | | 0.025 | 0 | 0 | | 1 | | 104% | 80 | 120 | 0% | |
| Manganese | A | mg/L | 0.000101 | 0.000101 | | 0.0001 | 0 | 0 | | 0.001 | | 101% | 80 | 120 | 0% | |
| Mercury | A | mg/L | 6.655E-07 | 6.655E-07 | | 0.000002 | 0 | 0 | | 0.001 | | 33% | 80 | 120 | 0% | S |
| Molybdenum | A | mg/L | 0.0001129 | 0.0001129 | | 0.0001 | 0 | 0 | | 0.001 | | 113% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.00009595 | 0.00009595 | | 0.0001 | 0 | 0 | | 0.005 | | 96% | 80 | 120 | 0% | |
| Potassium | A | mg/L | 0.02659 | 0.02659 | | 0.025 | 0 | 0 | | 1 | | 106% | 80 | 120 | 0% | |
| Selenium | A | mg/L | 0.0001032 | 0.0001032 | | 0.0001 | 0 | 0 | | 0.005 | | 103% | 80 | 120 | 0% | |
| Silicon | A | mg/L | 0.0003106 | 0.0003106 | | 0.0004 | 0 | 0 | | 0.1 | | 78% | 80 | 120 | 0% | S |
| Silver | A | mg/L | 0.00004643 | 0.00004643 | | 0.00004 | 0 | 0 | | 0.001 | | 116% | 80 | 120 | 0% | |
| Sodium | A | mg/L | 0.02439 | 0.02439 | | 0.025 | 0 | 0 | | 1 | | 98% | 80 | 120 | 0% | |
| Strontium | A | mg/L | 0.00009126 | 0.00009126 | | 0.0001 | 0 | 0 | | 0.001 | | 91% | 80 | 120 | 0% | |
| Thallium | A | mg/L | 0.0001051 | 0.0001051 | | 0.0001 | 0 | 0 | | 0.001 | | 105% | 80 | 120 | 0% | |
| Thorium | A | mg/L | 0.00008862 | 0.00008862 | | 0.0001 | 0 | 0 | | 0.05 | | 89% | 80 | 120 | 0% | |
| Tin | A | mg/L | 0.00009495 | 0.00009495 | | 0.0001 | 0 | 0 | | 0.001 | | 95% | 80 | 120 | 0% | |
| Titanium | A | mg/L | 0.0001017 | 0.0001017 | | 0.0001 | 0 | 0 | | 0.001 | | 102% | 80 | 120 | 0% | |
| Uranium | A | mg/L | 0.0001051 | 0.0001051 | | 0.0001 | 0 | 0 | | 0.001 | | 105% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.0001147 | 0.0001147 | | 0.0001 | 0 | 0 | | 0.005 | | 115% | 80 | 120 | 0% | |
| Zinc | A | mg/L | 0.00007297 | 0.00007297 | | 0.0001 | 0 | 0 | | 0.01 | | 73% | 80 | 120 | 0% | S |
| Iron, Ferrous | C | mg/L | 0.002747 | 0.002747 | | 0.0001 | 0 | 0 | | 0.01 | 5 | 2747% | 80 | 120 | 0% | S |
| Silicon as SiO2 | C | mg/L | 0.000664684 | 0.000664684 | | 0.00856 | 0 | 0 | | 0.214 | 0.9 | 8% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|-------------|---------------|------------|------------|------------------|--------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998060 | 0.5 ppb STD | ICPMS-6020B-C | Cal4 | | 1/21/2022 2:54:3 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0005488 | 0.0005488 | | 0.0005 | 0 | 0 | | 0.01 | | 110% | 80 | 120 | 0% | |
| Antimony | A | mg/L | 0.0004977 | 0.0004977 | | 0.0005 | 0 | 0 | | 0.001 | | 100% | 80 | 120 | 0% | |
| Arsenic | A | mg/L | 0.0004916 | 0.0004916 | | 0.0005 | 0 | 0 | | 0.001 | | 98% | 80 | 120 | 0% | |
| Barium | A | mg/L | 0.0004845 | 0.0004845 | | 0.0005 | 0 | 0 | | 0.0003 | | 97% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | 0.0004797 | 0.0004797 | | 0.0005 | 0 | 0 | | 0.001 | | 96% | 80 | 120 | 0% | |
| Boron | A | mg/L | -0.0001913 | -0.0001913 | | 0.0005 | 0 | 0 | | 0.1 | | -38% | 80 | 120 | 0% | S |
| Cadmium | A | mg/L | 0.0004921 | 0.0004921 | | 0.0005 | 0 | 0 | | 0.001 | | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|-------------|--------------------|------------|-----------|------------------|---------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14998060 | 0.5 ppb STD | ICPMS-6020B-C Cal4 | | | 1/21/2022 2:54:3 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Calcium | A | mg/L | 0.1201 | 0.1201 | | 0.125 | 0 | 0 | | 1 | | 96% | 80 | 120 | 0% | |
| Cerium | A | mg/L | 0.0004776 | 0.0004776 | | 0.0005 | 0 | 0 | | 0.001 | | 96% | 80 | 120 | 0% | |
| Chromium | A | mg/L | 0.0005009 | 0.0005009 | | 0.0005 | 0 | 0 | | 0.001 | | 100% | 80 | 120 | 0% | |
| Cobalt | A | mg/L | 0.0004712 | 0.0004712 | | 0.0005 | 0 | 0 | | 0.001 | | 94% | 80 | 120 | 0% | |
| Copper | A | mg/L | 0.0005381 | 0.0005381 | | 0.0005 | 0 | 0 | | 0.005 | | 108% | 80 | 120 | 0% | |
| Iron | A | mg/L | 0.01263 | 0.01263 | | 0.0125 | 0 | 0 | | 0.01 | | 101% | 80 | 120 | 0% | |
| Lanthanum | A | mg/L | 0.0004831 | 0.0004831 | | 0.0005 | 0 | 0 | | 0.001 | | 97% | 80 | 120 | 0% | |
| Lead | A | mg/L | 0.0004879 | 0.0004879 | | 0.0005 | 0 | 0 | | 0.001 | | 98% | 80 | 120 | 0% | |
| Lithium | A | mg/L | 0.005937 | 0.005937 | | 0.00625 | 0 | 0 | | 1 | | 95% | 80 | 120 | 0% | |
| Magnesium | A | mg/L | 0.1205 | 0.1205 | | 0.125 | 0 | 0 | | 1 | | 96% | 80 | 120 | 0% | |
| Manganese | A | mg/L | 0.0004902 | 0.0004902 | | 0.0005 | 0 | 0 | | 0.001 | | 98% | 80 | 120 | 0% | |
| Mercury | A | mg/L | 0.0000939 | 0.0000939 | | 0.00001 | 0 | 0 | | 0.001 | | 94% | 80 | 120 | 0% | |
| Molybdenum | A | mg/L | 0.0004873 | 0.0004873 | | 0.0005 | 0 | 0 | | 0.001 | | 97% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.0006183 | 0.0006183 | | 0.0005 | 0 | 0 | | 0.005 | | 124% | 80 | 120 | 0% | S |
| Potassium | A | mg/L | 0.1212 | 0.1212 | | 0.125 | 0 | 0 | | 1 | | 97% | 80 | 120 | 0% | |
| Selenium | A | mg/L | 0.0004859 | 0.0004859 | | 0.0005 | 0 | 0 | | 0.005 | | 97% | 80 | 120 | 0% | |
| Silicon | A | mg/L | 0.001795 | 0.001795 | | 0.002 | 0 | 0 | | 0.1 | | 90% | 80 | 120 | 0% | |
| Silver | A | mg/L | 0.000196 | 0.000196 | | 0.0002 | 0 | 0 | | 0.001 | | 98% | 80 | 120 | 0% | |
| Sodium | A | mg/L | 0.1204 | 0.1204 | | 0.125 | 0 | 0 | | 1 | | 96% | 80 | 120 | 0% | |
| Strontium | A | mg/L | 0.0004773 | 0.0004773 | | 0.0005 | 0 | 0 | | 0.001 | | 95% | 80 | 120 | 0% | |
| Thallium | A | mg/L | 0.0004841 | 0.0004841 | | 0.0005 | 0 | 0 | | 0.001 | | 97% | 80 | 120 | 0% | |
| Thorium | A | mg/L | 0.0004558 | 0.0004558 | | 0.0005 | 0 | 0 | | 0.05 | | 91% | 80 | 120 | 0% | |
| Tin | A | mg/L | 0.0005259 | 0.0005259 | | 0.0005 | 0 | 0 | | 0.001 | | 105% | 80 | 120 | 0% | |
| Titanium | A | mg/L | 0.000447 | 0.000447 | | 0.0005 | 0 | 0 | | 0.001 | | 89% | 80 | 120 | 0% | |
| Uranium | A | mg/L | 0.000491 | 0.000491 | | 0.0005 | 0 | 0 | | 0.001 | | 98% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.0005332 | 0.0005332 | | 0.0005 | 0 | 0 | | 0.005 | | 107% | 80 | 120 | 0% | |
| Zinc | A | mg/L | 0.0005052 | 0.0005052 | | 0.0005 | 0 | 0 | | 0.01 | | 101% | 80 | 120 | 0% | |
| Iron, Ferrous | C | mg/L | 0.01263 | 0.01263 | | 0.0005 | 0 | 0 | | 0.01 | 5 | 2526% | 80 | 120 | 0% | S |
| Silicon as SiO2 | C | mg/L | 0.0038413 | 0.0038413 | | 0.0428 | 0 | 0 | | 0.214 | 0.9 | 9% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|-----------|--------------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998061 | 1 ppb STD | ICPMS-6020B-C Cal5 | | | 1/21/2022 3:01:1 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|-----------|---------------|------------|------------|------------------|---------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14998061 | 1 ppb STD | ICPMS-6020B-C | CaI5 | | 1/21/2022 3:01:1 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0009681 | 0.0009681 | | 0.001 | 0 | 0 | | 0.01 | | 97% | 80 | 120 | 0% | |
| Antimony | A | mg/L | 0.0009999 | 0.0009999 | | 0.001 | 0 | 0 | | 0.001 | | 100% | 80 | 120 | 0% | |
| Arsenic | A | mg/L | 0.001 | 0.001 | | 0.001 | 0 | 0 | | 0.001 | | 100% | 80 | 120 | 0% | |
| Barium | A | mg/L | 0.001007 | 0.001007 | | 0.001 | 0 | 0 | | 0.0003 | | 101% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | 0.00101 | 0.00101 | | 0.001 | 0 | 0 | | 0.001 | | 101% | 80 | 120 | 0% | |
| Boron | A | mg/L | 0.001522 | 0.001522 | | 0.001 | 0 | 0 | | 0.1 | | 152% | 80 | 120 | 0% | S |
| Cadmium | A | mg/L | 0.001003 | 0.001003 | | 0.001 | 0 | 0 | | 0.001 | | 100% | 80 | 120 | 0% | |
| Calcium | A | mg/L | 0.2522 | 0.2522 | | 0.25 | 0 | 0 | | 1 | | 101% | 80 | 120 | 0% | |
| Cerium | A | mg/L | 0.001011 | 0.001011 | | 0.001 | 0 | 0 | | 0.001 | | 101% | 80 | 120 | 0% | |
| Chromium | A | mg/L | 0.001001 | 0.001001 | | 0.001 | 0 | 0 | | 0.001 | | 100% | 80 | 120 | 0% | |
| Cobalt | A | mg/L | 0.001014 | 0.001014 | | 0.001 | 0 | 0 | | 0.001 | | 101% | 80 | 120 | 0% | |
| Copper | A | mg/L | 0.0009804 | 0.0009804 | | 0.001 | 0 | 0 | | 0.005 | | 98% | 80 | 120 | 0% | |
| Iron | A | mg/L | 0.02615 | 0.02615 | | 0.025 | 0 | 0 | | 0.01 | | 105% | 80 | 120 | 0% | |
| Lanthanum | A | mg/L | 0.001008 | 0.001008 | | 0.001 | 0 | 0 | | 0.001 | | 101% | 80 | 120 | 0% | |
| Lead | A | mg/L | 0.001007 | 0.001007 | | 0.001 | 0 | 0 | | 0.001 | | 101% | 80 | 120 | 0% | |
| Lithium | A | mg/L | 0.01266 | 0.01266 | | 0.0125 | 0 | 0 | | 1 | | 101% | 80 | 120 | 0% | |
| Magnesium | A | mg/L | 0.2521 | 0.2521 | | 0.25 | 0 | 0 | | 1 | | 101% | 80 | 120 | 0% | |
| Manganese | A | mg/L | 0.001005 | 0.001005 | | 0.001 | 0 | 0 | | 0.001 | | 100% | 80 | 120 | 0% | |
| Mercury | A | mg/L | 0.00002052 | 0.00002052 | | 0.00002 | 0 | 0 | | 0.001 | | 103% | 80 | 120 | 0% | |
| Molybdenum | A | mg/L | 0.001004 | 0.001004 | | 0.001 | 0 | 0 | | 0.001 | | 100% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.0009396 | 0.0009396 | | 0.001 | 0 | 0 | | 0.005 | | 94% | 80 | 120 | 0% | |
| Potassium | A | mg/L | 0.2513 | 0.2513 | | 0.25 | 0 | 0 | | 1 | | 101% | 80 | 120 | 0% | |
| Selenium | A | mg/L | 0.001007 | 0.001007 | | 0.001 | 0 | 0 | | 0.005 | | 101% | 80 | 120 | 0% | |
| Silicon | A | mg/L | 0.004122 | 0.004122 | | 0.004 | 0 | 0 | | 0.1 | | 103% | 80 | 120 | 0% | |
| Silver | A | mg/L | 0.0004012 | 0.0004012 | | 0.0004 | 0 | 0 | | 0.001 | | 100% | 80 | 120 | 0% | |
| Sodium | A | mg/L | 0.2523 | 0.2523 | | 0.25 | 0 | 0 | | 1 | | 101% | 80 | 120 | 0% | |
| Strontium | A | mg/L | 0.001013 | 0.001013 | | 0.001 | 0 | 0 | | 0.001 | | 101% | 80 | 120 | 0% | |
| Thallium | A | mg/L | 0.001007 | 0.001007 | | 0.001 | 0 | 0 | | 0.001 | | 101% | 80 | 120 | 0% | |
| Thorium | A | mg/L | 0.001024 | 0.001024 | | 0.001 | 0 | 0 | | 0.05 | | 102% | 80 | 120 | 0% | |
| Tin | A | mg/L | 0.0009869 | 0.0009869 | | 0.001 | 0 | 0 | | 0.001 | | 99% | 80 | 120 | 0% | |
| Titanium | A | mg/L | 0.001025 | 0.001025 | | 0.001 | 0 | 0 | | 0.001 | | 102% | 80 | 120 | 0% | |
| Uranium | A | mg/L | 0.001004 | 0.001004 | | 0.001 | 0 | 0 | | 0.001 | | 100% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.0009754 | 0.0009754 | | 0.001 | 0 | 0 | | 0.005 | | 98% | 80 | 120 | 0% | |
| Zinc | A | mg/L | 0.001 | 0.001 | | 0.001 | 0 | 0 | | 0.01 | | 100% | 80 | 120 | 0% | |
| Iron, Ferrous | C | mg/L | 0.02615 | 0.02615 | | 0.001 | 0 | 0 | | 0.01 | 5 | 2615% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|-----------|--------------------|------------|------------|------------------|--------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998061 | 1 ppb STD | ICPMS-6020B-C Ca15 | | | 1/21/2022 3:01:1 | 1 | R373694 | | | 0 | 0 | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Silicon as SiO2 | C | mg/L | 0.00882108 | 0.00882108 | | 0.0856 | 0 | 0 | | 0.214 | 0.9 | 10% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|--------|--------------------|-------------|-----------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14998062 | Rinse | ICPMS-6020-W- SAMP | | | 1/21/2022 4:59:1 | 1 | R373694 | | | 0 | 0 | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.00002022 | 0 | | 0 | 0 | 0 | 0.0006966 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 0.0001475 | 0 | | 0 | 0 | 0 | 0.0002882 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | -0.00007269 | 0 | | 0 | 0 | 0 | 0.0001626 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.000002217 | 0 | | 0 | 0 | 0 | 8.917E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Beryllium | A | mg/L | -0.00003861 | 0 | | 0 | 0 | 0 | 0.0001137 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Boron | A | mg/L | 0.002623 | 0 | | 0 | 0 | 0 | 0.0036397 | 0.0036397 | 1 | 0% | 0 | 0 | 0% | L |
| Cadmium | A | mg/L | 0.000008499 | 0 | | 0 | 0 | 0 | 2.969E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Calcium | A | mg/L | 0.002869 | 0 | | 0 | 0 | 0 | 0.0254163 | 0.0254163 | 50 | 0% | 0 | 0 | 0% | L |
| Cerium | A | mg/L | -1.324E-07 | 0 | | 0 | 0 | 0 | 8.97E-06 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | -6.425E-06 | 0 | | 0 | 0 | 0 | 0.0002078 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | -7.611E-06 | 0 | | 0 | 0 | 0 | 2.037E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0.00002111 | 0 | | 0 | 0 | 0 | 0.0001010 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Iron | A | mg/L | 0.0001919 | 0 | | 0 | 0 | 0 | 0.0021231 | 0.0021231 | 5 | 0% | 0 | 0 | 0% | L |
| Lanthanum | A | mg/L | 1.774E-07 | 0 | | 0 | 0 | 0 | 1.209E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.000003257 | 0 | | 0 | 0 | 0 | 3.957E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Magnesium | A | mg/L | 0.0000601 | 0 | | 0 | 0 | 0 | 0.0084694 | 0.0084694 | 50 | 0% | 0 | 0 | 0% | L |
| Manganese | A | mg/L | 0.0001208 | 0.0001208 | | 0 | 0 | 0 | 5.319E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Mercury | A | mg/L | 0.00000579 | 0 | | 0 | 0 | 0 | 7.78E-06 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.00001712 | 0 | | 0 | 0 | 0 | 0.0000598 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | -0.00001058 | 0 | | 0 | 0 | 0 | 0.0001477 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Potassium | A | mg/L | -0.001194 | 0 | | 0 | 0 | 0 | 0.0951865 | 0.0951865 | 50 | 0% | 0 | 0 | 0% | L |
| Selenium | A | mg/L | -1.236E-06 | 0 | | 0 | 0 | 0 | 6.961E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silicon | A | mg/L | 0.0005902 | 0 | | 0 | 0 | 0 | 0.0786454 | 0.1 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 0.000002693 | 0 | | 0 | 0 | 0 | 1.541E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Sodium | A | mg/L | 0.007395 | 0 | | 0 | 0 | 0 | 0.0321039 | 0.0321039 | 50 | 0% | 0 | 0 | 0% | L |
| Strontium | A | mg/L | -9.162E-06 | 0 | | 0 | 0 | 0 | 9.136E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.0002031 | 0.0002031 | | 0 | 0 | 0 | 0.0001262 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Thorium | A | mg/L | 0.00004255 | 0 | | 0 | 0 | 0 | 7.051E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Tin | A | mg/L | 0.00000282 | 0 | | 0 | 0 | 0 | 0.0021596 | 0.0021596 | 0.1 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|-------------|---------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14998062 | Rinse | ICPMS-6020-W- | SAMP | | 1/21/2022 4:59:1 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Titanium | A | mg/L | -0.00004091 | 0 | | 0 | 0 | 0 | 0.0001844 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.000009162 | 0 | | 0 | 0 | 0 | 1.948E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | A | mg/L | -0.0006643 | 0 | | 0 | 0 | 0 | 0.004194 | 0.004194 | 1 | 0% | 0 | 0 | 0% | L |
| Zinc | A | mg/L | -5.355E-06 | 0 | | 0 | 0 | 0 | 0.0006119 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lithium | B | mg/L | 0.0002573 | 0 | | 0 | 0 | 0 | 0.05 | 0.05 | 1 | 0% | 0 | 0 | 0% | L |
| Iron, Ferrous | C | mg/L | 0.0001919 | 0 | | 0 | 0 | 0 | 0.0021231 | 0.0021231 | 5 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|------------|---------------|------------|-----------|------------------|--------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998063 | 10 ppb STD | ICPMS-6020B-C | Cal6 | | 1/21/2022 5:05:3 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.009983 | 0.009983 | | 0.01 | 0 | 0 | | 0.01 | | 100% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.01001 | 0.01001 | | 0.01 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.009991 | 0.009991 | | 0.01 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.01 | 0.01 | | 0.01 | 0 | 0 | | 0.0003 | | 100% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.009983 | 0.009983 | | 0.01 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Boron | A | mg/L | 0.01009 | 0.01009 | | 0.01 | 0 | 0 | | 0.1 | | 101% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.01001 | 0.01001 | | 0.01 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 2.499 | 2.499 | | 2.5 | 0 | 0 | | 1 | | 100% | 90 | 110 | 0% | |
| Cerium | A | mg/L | 0.01 | 0.01 | | 0.01 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.009996 | 0.009996 | | 0.01 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.009998 | 0.009998 | | 0.01 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.009993 | 0.009993 | | 0.01 | 0 | 0 | | 0.005 | | 100% | 90 | 110 | 0% | |
| Iron | A | mg/L | 0.2599 | 0.2599 | | 0.25 | 0 | 0 | | 0.01 | | 104% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.01 | 0.01 | | 0.01 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.01001 | 0.01001 | | 0.01 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Lithium | A | mg/L | 0.1246 | 0.1246 | | 0.125 | 0 | 0 | | 1 | | 100% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 2.5 | 2.5 | | 2.5 | 0 | 0 | | 1 | | 100% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.009997 | 0.009997 | | 0.01 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.0002003 | 0.0002003 | | 0.0002 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.01 | 0.01 | | 0.01 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.009988 | 0.009988 | | 0.01 | 0 | 0 | | 0.005 | | 100% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 2.495 | 2.495 | | 2.5 | 0 | 0 | | 1 | | 100% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.009999 | 0.009999 | | 0.01 | 0 | 0 | | 0.005 | | 100% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.04006 | 0.04006 | | 0.04 | 0 | 0 | | 0.1 | | 100% | 90 | 110 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|------------|--------------------|------------|-----------|------------------|-------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14998063 | 10 ppb STD | ICPMS-6020B-C Cal6 | | | 1/21/2022 5:05:3 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Silver | A | mg/L | 0.004 | 0.004 | | 0.004 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 2.5 | 2.5 | | 2.5 | 0 | 0 | | 1 | | 100% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.009997 | 0.009997 | | 0.01 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.01 | 0.01 | | 0.01 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.01001 | 0.01001 | | 0.01 | 0 | 0 | | 0.05 | | 100% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.01 | 0.01 | | 0.01 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.009991 | 0.009991 | | 0.01 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.01001 | 0.01001 | | 0.01 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.009947 | 0.009947 | | 0.01 | 0 | 0 | | 0.005 | | 99% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.00999 | 0.00999 | | 0.01 | 0 | 0 | | 0.01 | | 100% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 0.2599 | 0.2599 | | 0.01 | 0 | 0 | | 0.01 | 5 | 2599% | 90 | 110 | 0% | S |
| Silicon as SiO2 | C | mg/L | 0.0857284 | 0.0857284 | | 0.856 | 0 | 0 | | 0.214 | 0.9 | 10% | 90 | 110 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|--------|--------------------|-------------|-----------|------------------|-------|----------|-----------|----------|--------|--------|------|-----|------|------|---|
| 14998064 | Rinse | ICPMS-6020-W- SAMP | | | 1/21/2022 5:13:2 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.00002666 | 0 | | 0 | 0 | 0 | 0.00086 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 0.00005463 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | -0.00003516 | 0 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | -8.872E-08 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Beryllium | A | mg/L | -0.00004181 | 0 | | 0 | 0 | 0 | 0.00012 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | -1.428E-06 | 0 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 1.761E-07 | 0 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | -8.424E-06 | 0 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | -9.796E-06 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0.00002117 | 0 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lanthanum | A | mg/L | 5.515E-08 | 0 | | 0 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | -7.136E-06 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 0.0001132 | 0.0001132 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Mercury | A | mg/L | 0.000004516 | 0 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.00001116 | 0 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | -0.00001493 | 0 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | -7.809E-06 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silicon | A | mg/L | 0.0001637 | 0 | | 0 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|-------------|------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998064 | Rinse | ICPMS-6020-W- | SAMP | | 1/21/2022 5:13:2 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Silver | A | mg/L | -7.442E-07 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | -7.083E-06 | 0 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00005505 | 0.00005505 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Thorium | A | mg/L | 0.0000213 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | -0.00004749 | 0 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 9.827E-07 | 0 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Boron | B | mg/L | 0.0004491 | 0 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | 0 | 0 | 0% | L |
| Calcium | B | mg/L | -0.00006374 | 0 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | L |
| Iron | B | mg/L | 0.0001607 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0.0001607 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | 0.0004339 | 0 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | L |
| Potassium | B | mg/L | 0.009801 | 0 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | 0 | 0 | 0% | L |
| Sodium | B | mg/L | 0.006179 | 0 | | 0 | 0 | 0 | 0.02171 | 0.02171 | 50 | 0% | 0 | 0 | 0% | L |
| Tin | B | mg/L | -3.536E-06 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Vanadium | B | mg/L | -0.0003783 | 0 | | 0 | 0 | 0 | 0.0013 | 0.0013 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | -0.0000269 | 0 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|---------|---------------|------------|---------|------------------|-------|----------|-----------|----------|--------|--------|------|-----|------|------|---|
| 14998065 | Cal Blk | ICPMS-6020-W- | SAMP | | 1/21/2022 5:19:3 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00086 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Beryllium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00012 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lanthanum | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|---------|---------------|------------|---------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998065 | Cal Blk | ICPMS-6020-W- | SAMP | | 1/21/2022 5:19:3 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Molybdenum | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silicon | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Boron | B | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | 0 | 0 | 0% | L |
| Calcium | B | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | L |
| Iron | B | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | L |
| Potassium | B | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | 0 | 0 | 0% | L |
| Sodium | B | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.02171 | 0.02171 | 50 | 0% | 0 | 0 | 0% | L |
| Tin | B | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Vanadium | B | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.0013 | 0.0013 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|---------------|---------------|------------|------------|------------------|----------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998066 | 0.025 ppb STD | ICPMS-6020B-C | Cal1 | | 1/21/2022 5:26:1 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0001404 | 0.0001404 | | 0 | 0 | 0 | | 0.01 | | 0% | | | 0% | |
| Antimony | A | mg/L | 0.00001874 | 0.00001874 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Arsenic | A | mg/L | 0.00004683 | 0.00004683 | | 0.000025 | 0 | 0 | | 0.001 | | 187% | 80 | 120 | 0% | S |
| Barium | A | mg/L | 0.0000262 | 0.0000262 | | 0.000025 | 0 | 0 | | 0.0003 | | 105% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | -9.124E-06 | -9.124E-06 | | 0.000025 | 0 | 0 | | 0.001 | | -36% | 80 | 120 | 0% | S |
| Boron | A | mg/L | -0.0001905 | -0.0001905 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Cadmium | A | mg/L | 0.00002166 | 0.00002166 | | 0.000025 | 0 | 0 | | 0.001 | | 87% | 80 | 120 | 0% | |
| Calcium | A | mg/L | 0.0071 | 0.0071 | | 0 | 0 | 0 | | 1 | | 0% | | | 0% | |
| Cerium | A | mg/L | 0.00002393 | 0.00002393 | | 0.000025 | 0 | 0 | | 0.001 | | 96% | 80 | 120 | 0% | |
| Chromium | A | mg/L | 0.00004885 | 0.00004885 | | 0.000025 | 0 | 0 | | 0.001 | | 195% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|---------------|--------------------|-------------|-------------|------------------|-----------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14998066 | 0.025 ppb STD | ICPMS-6020B-C Cal1 | | | 1/21/2022 5:26:1 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Cobalt | A | mg/L | 0.0001849 | 0.0001849 | | 0.000025 | 0 | 0 | | 0.001 | | 740% | 80 | 120 | 0% | S |
| Copper | A | mg/L | 0.00004179 | 0.00004179 | | 0 | 0 | 0 | | 0.005 | | 0% | | | 0% | |
| Iron | A | mg/L | 0.0007674 | 0.0007674 | | 0 | 0 | 0 | | 0.01 | | 0% | | | 0% | |
| Lanthanum | A | mg/L | 0.00002302 | 0.00002302 | | 0.000025 | 0 | 0 | | 0.001 | | 92% | 80 | 120 | 0% | |
| Lead | A | mg/L | 0.00002523 | 0.00002523 | | 0.000025 | 0 | 0 | | 0.001 | | 101% | 80 | 120 | 0% | |
| Lithium | A | mg/L | 0.0003451 | 0.0003451 | | 0.0003125 | 0 | 0 | | 1 | | 110% | 80 | 120 | 0% | |
| Magnesium | A | mg/L | 0.006719 | 0.006719 | | 0 | 0 | 0 | | 1 | | 0% | | | 0% | |
| Manganese | A | mg/L | 0.00003278 | 0.00003278 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Mercury | A | mg/L | -7.019E-08 | -7.019E-08 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Molybdenum | A | mg/L | 0.00002382 | 0.00002382 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Nickel | A | mg/L | 0.00003591 | 0.00003591 | | 0 | 0 | 0 | | 0.005 | | 0% | | | 0% | |
| Potassium | A | mg/L | 0.008572 | 0.008572 | | 0.00625 | 0 | 0 | | 1 | | 137% | 80 | 120 | 0% | S |
| Selenium | A | mg/L | 0.00002295 | 0.00002295 | | 0.000025 | 0 | 0 | | 0.005 | | 92% | 80 | 120 | 0% | |
| Silicon | A | mg/L | 0.0004154 | 0.0004154 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Silver | A | mg/L | 0.00001405 | 0.00001405 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Sodium | A | mg/L | 0.005041 | 0.005041 | | 0.00625 | 0 | 0 | | 1 | | 81% | 80 | 120 | 0% | |
| Strontium | A | mg/L | 0.00002101 | 0.00002101 | | 0 | 0 | 0 | | 0.001 | | 0% | 80 | 120 | 0% | |
| Thallium | A | mg/L | 0.000009053 | 0.000009053 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Thorium | A | mg/L | 0.00001263 | 0.00001263 | | 0 | 0 | 0 | | 0.05 | | 0% | | | 0% | |
| Tin | A | mg/L | 0.00006137 | 0.00006137 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Titanium | A | mg/L | 0.00004323 | 0.00004323 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Uranium | A | mg/L | 0.00002386 | 0.00002386 | | 0.000025 | 0 | 0 | | 0.001 | | 95% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.0002747 | 0.0002747 | | 0 | 0 | 0 | | 0.005 | | 0% | | | 0% | |
| Zinc | A | mg/L | 0.00004065 | 0.00004065 | | 0 | 0 | 0 | | 0.01 | | 0% | | | 0% | |
| Iron, Ferrous | C | mg/L | 0.0007674 | 0.0007674 | | 0.000025 | 0 | 0 | | 0.01 | 5 | 3070% | 80 | 120 | 0% | S |
| Silicon as SiO2 | C | mg/L | 0.000888956 | 0.000888956 | | 0.0000535 | 0 | 0 | | 0.214 | 0.9 | 1662% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|--------------|--------------------|------------|------------|------------------|---------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998067 | 0.05 ppb STD | ICPMS-6020B-C Cal2 | | | 1/21/2022 5:32:5 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0001337 | 0.0001337 | | 0 | 0 | 0 | | 0.01 | | 0% | | | 0% | |
| Antimony | A | mg/L | 0.00004488 | 0.00004488 | | 0.00005 | 0 | 0 | | 0.001 | | 90% | 80 | 120 | 0% | |
| Arsenic | A | mg/L | 0.00006096 | 0.00006096 | | 0.00005 | 0 | 0 | | 0.001 | | 122% | 80 | 120 | 0% | S |
| Barium | A | mg/L | 0.00004963 | 0.00004963 | | 0.00005 | 0 | 0 | | 0.0003 | | 99% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|--------------|---------------|-------------|-------------|------------------|----------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14998067 | 0.05 ppb STD | ICPMS-6020B-C | Cal2 | | 1/21/2022 5:32:5 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Beryllium | A | mg/L | 0.00001828 | 0.00001828 | | 0.00005 | 0 | 0 | | 0.001 | | 37% | 80 | 120 | 0% | S |
| Boron | A | mg/L | -0.0002925 | -0.0002925 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Cadmium | A | mg/L | 0.00005136 | 0.00005136 | | 0.00005 | 0 | 0 | | 0.001 | | 103% | 80 | 120 | 0% | |
| Calcium | A | mg/L | 0.01507 | 0.01507 | | 0.0125 | 0 | 0 | | 1 | | 121% | 80 | 120 | 0% | S |
| Cerium | A | mg/L | 0.00005932 | 0.00005932 | | 0.00005 | 0 | 0 | | 0.001 | | 119% | 80 | 120 | 0% | |
| Chromium | A | mg/L | 0.00007761 | 0.00007761 | | 0.00005 | 0 | 0 | | 0.001 | | 155% | 80 | 120 | 0% | S |
| Cobalt | A | mg/L | 0.00006261 | 0.00006261 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Copper | A | mg/L | 0.00007216 | 0.00007216 | | 0.00005 | 0 | 0 | | 0.005 | | 144% | 80 | 120 | 0% | S |
| Iron | A | mg/L | 0.001609 | 0.001609 | | 0.00125 | 0 | 0 | | 0.01 | | 129% | 80 | 120 | 0% | S |
| Lanthanum | A | mg/L | 0.00005619 | 0.00005619 | | 0.00005 | 0 | 0 | | 0.001 | | 112% | 80 | 120 | 0% | |
| Lead | A | mg/L | 0.00005334 | 0.00005334 | | 0.00005 | 0 | 0 | | 0.001 | | 107% | 80 | 120 | 0% | |
| Lithium | A | mg/L | 0.0006293 | 0.0006293 | | 0.000625 | 0 | 0 | | 1 | | 101% | 80 | 120 | 0% | |
| Magnesium | A | mg/L | 0.01563 | 0.01563 | | 0.0125 | 0 | 0 | | 1 | | 125% | 80 | 120 | 0% | S |
| Manganese | A | mg/L | 0.00006534 | 0.00006534 | | 0.00005 | 0 | 0 | | 0.001 | | 131% | 80 | 120 | 0% | S |
| Mercury | A | mg/L | 0.000002148 | 0.000002148 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Molybdenum | A | mg/L | 0.00005225 | 0.00005225 | | 0.00005 | 0 | 0 | | 0.001 | | 104% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.00008749 | 0.00008749 | | 0 | 0 | 0 | | 0.005 | | 0% | | | 0% | |
| Potassium | A | mg/L | 0.01435 | 0.01435 | | 0.0125 | 0 | 0 | | 1 | | 115% | 80 | 120 | 0% | |
| Selenium | A | mg/L | 0.00005083 | 0.00005083 | | 0.00005 | 0 | 0 | | 0.005 | | 102% | 80 | 120 | 0% | |
| Silicon | A | mg/L | 0.0008223 | 0.0008223 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Silver | A | mg/L | 0.00002572 | 0.00002572 | | 0.00002 | 0 | 0 | | 0.001 | | 129% | 80 | 120 | 0% | S |
| Sodium | A | mg/L | 0.01459 | 0.01459 | | 0.0125 | 0 | 0 | | 1 | | 117% | 80 | 120 | 0% | |
| Strontium | A | mg/L | 0.00005632 | 0.00005632 | | 0.00005 | 0 | 0 | | 0.001 | | 113% | 80 | 120 | 0% | |
| Thallium | A | mg/L | 0.00003272 | 0.00003272 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Thorium | A | mg/L | 0.0000328 | 0.0000328 | | 0 | 0 | 0 | | 0.05 | | 0% | | | 0% | |
| Tin | A | mg/L | 0.0000384 | 0.0000384 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Titanium | A | mg/L | 0.00006374 | 0.00006374 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Uranium | A | mg/L | 0.00005603 | 0.00005603 | | 0.00005 | 0 | 0 | | 0.001 | | 112% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.00006742 | 0.00006742 | | 0 | 0 | 0 | | 0.005 | | 0% | | | 0% | |
| Zinc | A | mg/L | 0.00008042 | 0.00008042 | | 0 | 0 | 0 | | 0.01 | | 0% | | | 0% | |
| Iron, Ferrous | C | mg/L | 0.001609 | 0.001609 | | 0.00005 | 0 | 0 | | 0.01 | 5 | 3218% | 80 | 120 | 0% | S |
| Silicon as SiO2 | C | mg/L | 0.001759722 | 0.001759722 | | 0.00428 | 0 | 0 | | 0.214 | 0.9 | 41% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------------|---------------|------------|------------|------------------|----------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14998068 | 0.10 ppb STD | ICPMS-6020B-C | Cal3 | | 1/21/2022 5:39:2 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0001671 | 0.0001671 | | 0.0001 | 0 | 0 | | 0.01 | | 167% | 80 | 120 | 0% | S |
| Antimony | A | mg/L | 0.00008953 | 0.00008953 | | 0.0001 | 0 | 0 | | 0.001 | | 90% | 80 | 120 | 0% | |
| Arsenic | A | mg/L | 0.0001116 | 0.0001116 | | 0.0001 | 0 | 0 | | 0.001 | | 112% | 80 | 120 | 0% | |
| Barium | A | mg/L | 0.0001002 | 0.0001002 | | 0.0001 | 0 | 0 | | 0.0003 | | 100% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | 0.00005448 | 0.00005448 | | 0.0001 | 0 | 0 | | 0.001 | | 54% | 80 | 120 | 0% | S |
| Boron | A | mg/L | -0.0004185 | -0.0004185 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Cadmium | A | mg/L | 0.0001032 | 0.0001032 | | 0.0001 | 0 | 0 | | 0.001 | | 103% | 80 | 120 | 0% | |
| Calcium | A | mg/L | 0.02825 | 0.02825 | | 0.025 | 0 | 0 | | 1 | | 113% | 80 | 120 | 0% | |
| Cerium | A | mg/L | 0.0001106 | 0.0001106 | | 0.0001 | 0 | 0 | | 0.001 | | 111% | 80 | 120 | 0% | |
| Chromium | A | mg/L | 0.0001311 | 0.0001311 | | 0.0001 | 0 | 0 | | 0.001 | | 131% | 80 | 120 | 0% | S |
| Cobalt | A | mg/L | 0.0001095 | 0.0001095 | | 0.0001 | 0 | 0 | | 0.001 | | 110% | 80 | 120 | 0% | |
| Copper | A | mg/L | 0.0001057 | 0.0001057 | | 0.0001 | 0 | 0 | | 0.005 | | 106% | 80 | 120 | 0% | |
| Iron | A | mg/L | 0.002963 | 0.002963 | | 0.0025 | 0 | 0 | | 0.01 | | 119% | 80 | 120 | 0% | |
| Lanthanum | A | mg/L | 0.0001063 | 0.0001063 | | 0.0001 | 0 | 0 | | 0.001 | | 106% | 80 | 120 | 0% | |
| Lead | A | mg/L | 0.0001004 | 0.0001004 | | 0.0001 | 0 | 0 | | 0.001 | | 100% | 80 | 120 | 0% | |
| Lithium | A | mg/L | 0.001105 | 0.001105 | | 0.00125 | 0 | 0 | | 1 | | 88% | 80 | 120 | 0% | |
| Magnesium | A | mg/L | 0.02723 | 0.02723 | | 0.025 | 0 | 0 | | 1 | | 109% | 80 | 120 | 0% | |
| Manganese | A | mg/L | 0.000116 | 0.000116 | | 0.0001 | 0 | 0 | | 0.001 | | 116% | 80 | 120 | 0% | |
| Mercury | A | mg/L | 0.00002229 | 0.00002229 | | 0.000002 | 0 | 0 | | 0.001 | | 111% | 80 | 120 | 0% | |
| Molybdenum | A | mg/L | 0.0001074 | 0.0001074 | | 0.0001 | 0 | 0 | | 0.001 | | 107% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.0001168 | 0.0001168 | | 0.0001 | 0 | 0 | | 0.005 | | 117% | 80 | 120 | 0% | |
| Potassium | A | mg/L | 0.02028 | 0.02028 | | 0.025 | 0 | 0 | | 1 | | 81% | 80 | 120 | 0% | |
| Selenium | A | mg/L | 0.00009813 | 0.00009813 | | 0.0001 | 0 | 0 | | 0.005 | | 98% | 80 | 120 | 0% | |
| Silicon | A | mg/L | 0.0008781 | 0.0008781 | | 0.0004 | 0 | 0 | | 0.1 | | 220% | 80 | 120 | 0% | S |
| Silver | A | mg/L | 0.00004498 | 0.00004498 | | 0.00004 | 0 | 0 | | 0.001 | | 112% | 80 | 120 | 0% | |
| Sodium | A | mg/L | 0.02739 | 0.02739 | | 0.025 | 0 | 0 | | 1 | | 110% | 80 | 120 | 0% | |
| Strontium | A | mg/L | 0.0001166 | 0.0001166 | | 0.0001 | 0 | 0 | | 0.001 | | 117% | 80 | 120 | 0% | |
| Thallium | A | mg/L | 0.00007678 | 0.00007678 | | 0.0001 | 0 | 0 | | 0.001 | | 77% | 80 | 120 | 0% | S |
| Thorium | A | mg/L | 0.00006987 | 0.00006987 | | 0.0001 | 0 | 0 | | 0.05 | | 70% | 80 | 120 | 0% | S |
| Tin | A | mg/L | 0.00008883 | 0.00008883 | | 0.0001 | 0 | 0 | | 0.001 | | 89% | 80 | 120 | 0% | |
| Titanium | A | mg/L | 0.000111 | 0.000111 | | 0.0001 | 0 | 0 | | 0.001 | | 111% | 80 | 120 | 0% | |
| Uranium | A | mg/L | 0.0001017 | 0.0001017 | | 0.0001 | 0 | 0 | | 0.001 | | 102% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.00003593 | 0.00003593 | | 0.0001 | 0 | 0 | | 0.005 | | 4% | 80 | 120 | 0% | S |
| Zinc | A | mg/L | 0.00009014 | 0.00009014 | | 0.0001 | 0 | 0 | | 0.01 | | 90% | 80 | 120 | 0% | |
| Iron, Ferrous | C | mg/L | 0.002963 | 0.002963 | | 0.0001 | 0 | 0 | | 0.01 | 5 | 2963% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|--------------|--------------------|-------------|-------------|------------------|---------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998068 | 0.10 ppb STD | ICPMS-6020B-C Cal3 | | | 1/21/2022 5:39:2 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Silicon as SiO2 | C | mg/L | 0.001879134 | 0.001879134 | | 0.00856 | 0 | 0 | | 0.214 | 0.9 | 22% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|-------------|--------------------|------------|------------|------------------|---------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998069 | 0.5 ppb STD | ICPMS-6020B-C Cal4 | | | 1/21/2022 5:46:0 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0005973 | 0.0005973 | | 0.0005 | 0 | 0 | | 0.01 | | 119% | 80 | 120 | 0% | |
| Antimony | A | mg/L | 0.0004713 | 0.0004713 | | 0.0005 | 0 | 0 | | 0.001 | | 94% | 80 | 120 | 0% | |
| Arsenic | A | mg/L | 0.0005219 | 0.0005219 | | 0.0005 | 0 | 0 | | 0.001 | | 104% | 80 | 120 | 0% | |
| Barium | A | mg/L | 0.0004824 | 0.0004824 | | 0.0005 | 0 | 0 | | 0.0003 | | 96% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | 0.0004066 | 0.0004066 | | 0.0005 | 0 | 0 | | 0.001 | | 81% | 80 | 120 | 0% | |
| Boron | A | mg/L | -0.0001012 | -0.0001012 | | 0.0005 | 0 | 0 | | 0.1 | | -20% | 80 | 120 | 0% | S |
| Cadmium | A | mg/L | 0.000494 | 0.000494 | | 0.0005 | 0 | 0 | | 0.001 | | 99% | 80 | 120 | 0% | |
| Calcium | A | mg/L | 0.133 | 0.133 | | 0.125 | 0 | 0 | | 1 | | 106% | 80 | 120 | 0% | |
| Cerium | A | mg/L | 0.0004836 | 0.0004836 | | 0.0005 | 0 | 0 | | 0.001 | | 97% | 80 | 120 | 0% | |
| Chromium | A | mg/L | 0.0005108 | 0.0005108 | | 0.0005 | 0 | 0 | | 0.001 | | 102% | 80 | 120 | 0% | |
| Cobalt | A | mg/L | 0.0004835 | 0.0004835 | | 0.0005 | 0 | 0 | | 0.001 | | 97% | 80 | 120 | 0% | |
| Copper | A | mg/L | 0.000679 | 0.000679 | | 0.0005 | 0 | 0 | | 0.005 | | 136% | 80 | 120 | 0% | S |
| Iron | A | mg/L | 0.01371 | 0.01371 | | 0.0125 | 0 | 0 | | 0.01 | | 110% | 80 | 120 | 0% | |
| Lanthanum | A | mg/L | 0.0004964 | 0.0004964 | | 0.0005 | 0 | 0 | | 0.001 | | 99% | 80 | 120 | 0% | |
| Lead | A | mg/L | 0.0004824 | 0.0004824 | | 0.0005 | 0 | 0 | | 0.001 | | 96% | 80 | 120 | 0% | |
| Lithium | A | mg/L | 0.005768 | 0.005768 | | 0.00625 | 0 | 0 | | 1 | | 92% | 80 | 120 | 0% | |
| Magnesium | A | mg/L | 0.1302 | 0.1302 | | 0.125 | 0 | 0 | | 1 | | 104% | 80 | 120 | 0% | |
| Manganese | A | mg/L | 0.0005191 | 0.0005191 | | 0.0005 | 0 | 0 | | 0.001 | | 104% | 80 | 120 | 0% | |
| Mercury | A | mg/L | 0.00000783 | 0.00000783 | | 0.00001 | 0 | 0 | | 0.001 | | 78% | 80 | 120 | 0% | S |
| Molybdenum | A | mg/L | 0.0004781 | 0.0004781 | | 0.0005 | 0 | 0 | | 0.001 | | 96% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.0006586 | 0.0006586 | | 0.0005 | 0 | 0 | | 0.005 | | 132% | 80 | 120 | 0% | S |
| Potassium | A | mg/L | 0.1246 | 0.1246 | | 0.125 | 0 | 0 | | 1 | | 100% | 80 | 120 | 0% | |
| Selenium | A | mg/L | 0.0005083 | 0.0005083 | | 0.0005 | 0 | 0 | | 0.005 | | 102% | 80 | 120 | 0% | |
| Silicon | A | mg/L | 0.002053 | 0.002053 | | 0.002 | 0 | 0 | | 0.1 | | 103% | 80 | 120 | 0% | |
| Silver | A | mg/L | 0.0002057 | 0.0002057 | | 0.0002 | 0 | 0 | | 0.001 | | 103% | 80 | 120 | 0% | |
| Sodium | A | mg/L | 0.1277 | 0.1277 | | 0.125 | 0 | 0 | | 1 | | 102% | 80 | 120 | 0% | |
| Strontium | A | mg/L | 0.0005183 | 0.0005183 | | 0.0005 | 0 | 0 | | 0.001 | | 104% | 80 | 120 | 0% | |
| Thallium | A | mg/L | 0.000445 | 0.000445 | | 0.0005 | 0 | 0 | | 0.001 | | 89% | 80 | 120 | 0% | |
| Thorium | A | mg/L | 0.0004019 | 0.0004019 | | 0.0005 | 0 | 0 | | 0.05 | | 80% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|-------------|--------------------|------------|------------|------------------|--------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14998069 | 0.5 ppb STD | ICPMS-6020B-C Cal4 | | | 1/21/2022 5:46:0 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Tin | A | mg/L | 0.0005114 | 0.0005114 | | 0.0005 | 0 | 0 | | 0.001 | | 102% | 80 | 120 | 0% | |
| Titanium | A | mg/L | 0.0004424 | 0.0004424 | | 0.0005 | 0 | 0 | | 0.001 | | 88% | 80 | 120 | 0% | |
| Uranium | A | mg/L | 0.0004754 | 0.0004754 | | 0.0005 | 0 | 0 | | 0.001 | | 95% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.0005702 | 0.0005702 | | 0.0005 | 0 | 0 | | 0.005 | | 114% | 80 | 120 | 0% | |
| Zinc | A | mg/L | 0.0006091 | 0.0006091 | | 0.0005 | 0 | 0 | | 0.01 | | 122% | 80 | 120 | 0% | S |
| Iron, Ferrous | C | mg/L | 0.01371 | 0.01371 | | 0.0005 | 0 | 0 | | 0.01 | 5 | 2742% | 80 | 120 | 0% | S |
| Silicon as SiO2 | C | mg/L | 0.00439342 | 0.00439342 | | 0.0428 | 0 | 0 | | 0.214 | 0.9 | 10% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|-----------|--------------------|------------|------------|------------------|---------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998070 | 1 ppb STD | ICPMS-6020B-C Cal5 | | | 1/21/2022 5:52:4 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.001108 | 0.001108 | | 0.001 | 0 | 0 | | 0.01 | | 111% | 80 | 120 | 0% | |
| Antimony | A | mg/L | 0.0009708 | 0.0009708 | | 0.001 | 0 | 0 | | 0.001 | | 97% | 80 | 120 | 0% | |
| Arsenic | A | mg/L | 0.001076 | 0.001076 | | 0.001 | 0 | 0 | | 0.001 | | 108% | 80 | 120 | 0% | |
| Barium | A | mg/L | 0.0009819 | 0.0009819 | | 0.001 | 0 | 0 | | 0.0003 | | 98% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | 0.0009937 | 0.0009937 | | 0.001 | 0 | 0 | | 0.001 | | 99% | 80 | 120 | 0% | |
| Boron | A | mg/L | 0.0004073 | 0.0004073 | | 0.001 | 0 | 0 | | 0.1 | | 41% | 80 | 120 | 0% | S |
| Cadmium | A | mg/L | 0.001029 | 0.001029 | | 0.001 | 0 | 0 | | 0.001 | | 103% | 80 | 120 | 0% | |
| Calcium | A | mg/L | 0.2751 | 0.2751 | | 0.25 | 0 | 0 | | 1 | | 110% | 80 | 120 | 0% | |
| Cerium | A | mg/L | 0.001024 | 0.001024 | | 0.001 | 0 | 0 | | 0.001 | | 102% | 80 | 120 | 0% | |
| Chromium | A | mg/L | 0.001061 | 0.001061 | | 0.001 | 0 | 0 | | 0.001 | | 106% | 80 | 120 | 0% | |
| Cobalt | A | mg/L | 0.001069 | 0.001069 | | 0.001 | 0 | 0 | | 0.001 | | 107% | 80 | 120 | 0% | |
| Copper | A | mg/L | 0.001101 | 0.001101 | | 0.001 | 0 | 0 | | 0.005 | | 110% | 80 | 120 | 0% | |
| Iron | A | mg/L | 0.02826 | 0.02826 | | 0.025 | 0 | 0 | | 0.01 | | 113% | 80 | 120 | 0% | |
| Lanthanum | A | mg/L | 0.00101 | 0.00101 | | 0.001 | 0 | 0 | | 0.001 | | 101% | 80 | 120 | 0% | |
| Lead | A | mg/L | 0.0009965 | 0.0009965 | | 0.001 | 0 | 0 | | 0.001 | | 100% | 80 | 120 | 0% | |
| Lithium | A | mg/L | 0.01329 | 0.01329 | | 0.0125 | 0 | 0 | | 1 | | 106% | 80 | 120 | 0% | |
| Magnesium | A | mg/L | 0.2646 | 0.2646 | | 0.25 | 0 | 0 | | 1 | | 106% | 80 | 120 | 0% | |
| Manganese | A | mg/L | 0.001071 | 0.001071 | | 0.001 | 0 | 0 | | 0.001 | | 107% | 80 | 120 | 0% | |
| Mercury | A | mg/L | 0.00001879 | 0.00001879 | | 0.00002 | 0 | 0 | | 0.001 | | 94% | 80 | 120 | 0% | |
| Molybdenum | A | mg/L | 0.0009484 | 0.0009484 | | 0.001 | 0 | 0 | | 0.001 | | 95% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.001084 | 0.001084 | | 0.001 | 0 | 0 | | 0.005 | | 108% | 80 | 120 | 0% | |
| Potassium | A | mg/L | 0.2745 | 0.2745 | | 0.25 | 0 | 0 | | 1 | | 110% | 80 | 120 | 0% | |
| Selenium | A | mg/L | 0.001047 | 0.001047 | | 0.001 | 0 | 0 | | 0.005 | | 105% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|-----------|---------------|------------|------------|------------------|--------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14998070 | 1 ppb STD | ICPMS-6020B-C | Cal5 | | 1/21/2022 5:52:4 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Silicon | A | mg/L | 0.004072 | 0.004072 | | 0.004 | 0 | 0 | | 0.1 | | 102% | 80 | 120 | 0% | |
| Silver | A | mg/L | 0.0004132 | 0.0004132 | | 0.0004 | 0 | 0 | | 0.001 | | 103% | 80 | 120 | 0% | |
| Sodium | A | mg/L | 0.2633 | 0.2633 | | 0.25 | 0 | 0 | | 1 | | 105% | 80 | 120 | 0% | |
| Strontium | A | mg/L | 0.00108 | 0.00108 | | 0.001 | 0 | 0 | | 0.001 | | 108% | 80 | 120 | 0% | |
| Thallium | A | mg/L | 0.0009558 | 0.0009558 | | 0.001 | 0 | 0 | | 0.001 | | 96% | 80 | 120 | 0% | |
| Thorium | A | mg/L | 0.0008981 | 0.0008981 | | 0.001 | 0 | 0 | | 0.05 | | 90% | 80 | 120 | 0% | |
| Tin | A | mg/L | 0.0009755 | 0.0009755 | | 0.001 | 0 | 0 | | 0.001 | | 98% | 80 | 120 | 0% | |
| Titanium | A | mg/L | 0.0009922 | 0.0009922 | | 0.001 | 0 | 0 | | 0.001 | | 99% | 80 | 120 | 0% | |
| Uranium | A | mg/L | 0.0009902 | 0.0009902 | | 0.001 | 0 | 0 | | 0.001 | | 99% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.001239 | 0.001239 | | 0.001 | 0 | 0 | | 0.005 | | 124% | 80 | 120 | 0% | S |
| Zinc | A | mg/L | 0.001085 | 0.001085 | | 0.001 | 0 | 0 | | 0.01 | | 108% | 80 | 120 | 0% | |
| Iron, Ferrous | C | mg/L | 0.02826 | 0.02826 | | 0.001 | 0 | 0 | | 0.01 | 5 | 2826% | 80 | 120 | 0% | S |
| Silicon as SiO2 | C | mg/L | 0.00871408 | 0.00871408 | | 0.0856 | 0 | 0 | | 0.214 | 0.9 | 10% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|------------|---------------|------------|----------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998071 | 10 ppb STD | ICPMS-6020B-C | Cal6 | | 1/21/2022 5:59:2 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.00945 | 0.00945 | | 0.01 | 0 | 0 | | 0.01 | | 94% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.009745 | 0.009745 | | 0.01 | 0 | 0 | | 0.001 | | 97% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.01013 | 0.01013 | | 0.01 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.009554 | 0.009554 | | 0.01 | 0 | 0 | | 0.0003 | | 96% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.008746 | 0.008746 | | 0.01 | 0 | 0 | | 0.001 | | 87% | 90 | 110 | 0% | S |
| Boron | A | mg/L | 0.00775 | 0.00775 | | 0.01 | 0 | 0 | | 0.1 | | 78% | 90 | 110 | 0% | S |
| Cadmium | A | mg/L | 0.01001 | 0.01001 | | 0.01 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 2.589 | 2.589 | | 2.5 | 0 | 0 | | 1 | | 104% | 90 | 110 | 0% | |
| Cerium | A | mg/L | 0.009931 | 0.009931 | | 0.01 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.01005 | 0.01005 | | 0.01 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.01014 | 0.01014 | | 0.01 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.01033 | 0.01033 | | 0.01 | 0 | 0 | | 0.005 | | 103% | 90 | 110 | 0% | |
| Iron | A | mg/L | 0.2691 | 0.2691 | | 0.25 | 0 | 0 | | 0.01 | | 108% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.009873 | 0.009873 | | 0.01 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.009602 | 0.009602 | | 0.01 | 0 | 0 | | 0.001 | | 96% | 90 | 110 | 0% | |
| Lithium | A | mg/L | 0.1091 | 0.1091 | | 0.125 | 0 | 0 | | 1 | | 87% | 90 | 110 | 0% | S |
| Magnesium | A | mg/L | 2.449 | 2.449 | | 2.5 | 0 | 0 | | 1 | | 98% | 90 | 110 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|------------|---------------|------------|-----------|------------------|--------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14998071 | 10 ppb STD | ICPMS-6020B-C | Cal6 | | 1/21/2022 5:59:2 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Manganese | A | mg/L | 0.01031 | 0.01031 | | 0.01 | 0 | 0 | | 0.001 | | 103% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.000192 | 0.000192 | | 0.0002 | 0 | 0 | | 0.001 | | 96% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.009444 | 0.009444 | | 0.01 | 0 | 0 | | 0.001 | | 94% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.01014 | 0.01014 | | 0.01 | 0 | 0 | | 0.005 | | 101% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 2.525 | 2.525 | | 2.5 | 0 | 0 | | 1 | | 101% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.0101 | 0.0101 | | 0.01 | 0 | 0 | | 0.005 | | 101% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.03911 | 0.03911 | | 0.04 | 0 | 0 | | 0.1 | | 98% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.003956 | 0.003956 | | 0.004 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 2.422 | 2.422 | | 2.5 | 0 | 0 | | 1 | | 97% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.01059 | 0.01059 | | 0.01 | 0 | 0 | | 0.001 | | 106% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.009739 | 0.009739 | | 0.01 | 0 | 0 | | 0.001 | | 97% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.009418 | 0.009418 | | 0.01 | 0 | 0 | | 0.05 | | 94% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.009523 | 0.009523 | | 0.01 | 0 | 0 | | 0.001 | | 95% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.009497 | 0.009497 | | 0.01 | 0 | 0 | | 0.001 | | 95% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.009553 | 0.009553 | | 0.01 | 0 | 0 | | 0.001 | | 96% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.009369 | 0.009369 | | 0.01 | 0 | 0 | | 0.005 | | 94% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.01001 | 0.01001 | | 0.01 | 0 | 0 | | 0.01 | | 100% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 0.2691 | 0.2691 | | 0.01 | 0 | 0 | | 0.01 | 5 | 2691% | 90 | 110 | 0% | S |
| Silicon as SiO2 | C | mg/L | 0.0836954 | 0.0836954 | | 0.856 | 0 | 0 | | 0.214 | 0.9 | 10% | 90 | 110 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|------------|---------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998072 | 50 ppb STD | ICPMS-6020B-C | Cal7 | | 1/21/2022 6:06:0 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.06011 | 0.06011 | | 0.05 | 0 | 0 | | 0.01 | | 120% | 90 | 110 | 0% | S |
| Antimony | A | mg/L | 0.05334 | 0.05334 | | 0.05 | 0 | 0 | | 0.001 | | 107% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.05045 | 0.05045 | | 0.05 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.05114 | 0.05114 | | 0.05 | 0 | 0 | | 0.0003 | | 102% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.04964 | 0.04964 | | 0.05 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Boron | A | mg/L | 0.04939 | 0.04939 | | 0.05 | 0 | 0 | | 0.1 | | 99% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.05229 | 0.05229 | | 0.05 | 0 | 0 | | 0.001 | | 105% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 12.35 | 12.35 | | 12.5 | 0 | 0 | | 1 | | 99% | 90 | 110 | 0% | |
| Cerium | A | mg/L | 0.05014 | 0.05014 | | 0.05 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.05029 | 0.05029 | | 0.05 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.05117 | 0.05117 | | 0.05 | 0 | 0 | | 0.001 | | 102% | 90 | 110 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|------------|---------------|------------|----------|------------------|-------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14998072 | 50 ppb STD | ICPMS-6020B-C | Cal7 | | 1/21/2022 6:06:0 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Copper | A | mg/L | 0.05145 | 0.05145 | | 0.05 | 0 | 0 | | 0.005 | | 103% | 90 | 110 | 0% | |
| Iron | A | mg/L | 1.316 | 1.316 | | 1.25 | 0 | 0 | | 0.01 | | 105% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.04976 | 0.04976 | | 0.05 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.05144 | 0.05144 | | 0.05 | 0 | 0 | | 0.001 | | 103% | 90 | 110 | 0% | |
| Lithium | A | mg/L | 0.6037 | 0.6037 | | 0.625 | 0 | 0 | | 1 | | 97% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 12.12 | 12.12 | | 12.5 | 0 | 0 | | 1 | | 97% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.05085 | 0.05085 | | 0.05 | 0 | 0 | | 0.001 | | 102% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.001015 | 0.001015 | | 0.001 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.0527 | 0.0527 | | 0.05 | 0 | 0 | | 0.001 | | 105% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.05029 | 0.05029 | | 0.05 | 0 | 0 | | 0.005 | | 101% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 12.35 | 12.35 | | 12.5 | 0 | 0 | | 1 | | 99% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.05144 | 0.05144 | | 0.05 | 0 | 0 | | 0.005 | | 103% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.2183 | 0.2183 | | 0.2 | 0 | 0 | | 0.1 | | 109% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.02043 | 0.02043 | | 0.02 | 0 | 0 | | 0.001 | | 102% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 12.28 | 12.28 | | 12.5 | 0 | 0 | | 1 | | 98% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.05099 | 0.05099 | | 0.05 | 0 | 0 | | 0.001 | | 102% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.0515 | 0.0515 | | 0.05 | 0 | 0 | | 0.001 | | 103% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.05055 | 0.05055 | | 0.05 | 0 | 0 | | 0.05 | | 101% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.05237 | 0.05237 | | 0.05 | 0 | 0 | | 0.001 | | 105% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.0519 | 0.0519 | | 0.05 | 0 | 0 | | 0.001 | | 104% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.05073 | 0.05073 | | 0.05 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.05014 | 0.05014 | | 0.05 | 0 | 0 | | 0.005 | | 100% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.05119 | 0.05119 | | 0.05 | 0 | 0 | | 0.01 | | 102% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 1.316 | 1.316 | | 0.05 | 0 | 0 | | 0.01 | 5 | 2632% | 90 | 110 | 0% | S |
| Silicon as SiO2 | C | mg/L | 0.467162 | 0.467162 | | 4.28 | 0 | 0 | | 0.214 | 0.9 | 11% | 90 | 110 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|-------------|---------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998073 | 100 ppb STD | ICPMS-6020B-C | Cal8 | | 1/21/2022 6:12:3 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.095 | 0.095 | | 0.1 | 0 | 0 | | 0.01 | | 95% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.09836 | 0.09836 | | 0.1 | 0 | 0 | | 0.001 | | 98% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.09976 | 0.09976 | | 0.1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.09948 | 0.09948 | | 0.1 | 0 | 0 | | 0.0003 | | 99% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.1003 | 0.1003 | | 0.1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|-------------|---------------|------------|----------|------------------|-------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14998073 | 100 ppb STD | ICPMS-6020B-C | Cal8 | | 1/21/2022 6:12:3 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Boron | A | mg/L | 0.1005 | 0.1005 | | 0.1 | 0 | 0 | | 0.1 | | 100% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.09885 | 0.09885 | | 0.1 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 25.07 | 25.07 | | 25 | 0 | 0 | | 1 | | 100% | 90 | 110 | 0% | |
| Cerium | A | mg/L | 0.09994 | 0.09994 | | 0.1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.09985 | 0.09985 | | 0.1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.0994 | 0.0994 | | 0.1 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.09924 | 0.09924 | | 0.1 | 0 | 0 | | 0.005 | | 99% | 90 | 110 | 0% | |
| Iron | A | mg/L | 2.591 | 2.591 | | 2.5 | 0 | 0 | | 0.01 | | 104% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.1001 | 0.1001 | | 0.1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.09932 | 0.09932 | | 0.1 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Lithium | A | mg/L | 1.262 | 1.262 | | 1.25 | 0 | 0 | | 1 | | 101% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 25.2 | 25.2 | | 25 | 0 | 0 | | 1 | | 101% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.09954 | 0.09954 | | 0.1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.001993 | 0.001993 | | 0.002 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.09871 | 0.09871 | | 0.1 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.09984 | 0.09984 | | 0.1 | 0 | 0 | | 0.005 | | 100% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 25.07 | 25.07 | | 25 | 0 | 0 | | 1 | | 100% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.09927 | 0.09927 | | 0.1 | 0 | 0 | | 0.005 | | 99% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.3909 | 0.3909 | | 0.4 | 0 | 0 | | 0.1 | | 98% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.03979 | 0.03979 | | 0.04 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 25.12 | 25.12 | | 25 | 0 | 0 | | 1 | | 100% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.09944 | 0.09944 | | 0.1 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.09928 | 0.09928 | | 0.1 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.09978 | 0.09978 | | 0.1 | 0 | 0 | | 0.05 | | 100% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.09886 | 0.09886 | | 0.1 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.0991 | 0.0991 | | 0.1 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.09968 | 0.09968 | | 0.1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.09999 | 0.09999 | | 0.1 | 0 | 0 | | 0.005 | | 100% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.0994 | 0.0994 | | 0.1 | 0 | 0 | | 0.01 | | 99% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 2.591 | 2.591 | | 0.1 | 0 | 0 | | 0.01 | 5 | 2591% | 90 | 110 | 0% | S |
| Silicon as SiO2 | C | mg/L | 0.836526 | 0.836526 | | 8.56 | 0 | 0 | | 0.214 | 0.9 | 10% | 90 | 110 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|--------------|---------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998074 | 1000 ppb STD | ICPMS-6020B-C | Cal10 | | 1/21/2022 6:19:0 | 1 | R373694 | | | 0 | 0 | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|----------------|---------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998075 | 100 ppb Br STD | ICPMS-6020-W- | SAMP | | 1/21/2022 6:25:3 | 1 | R373694 | | | 0 | 0 | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| | | | | | | | | | | | | | | | | |
|---------------|---|------|-------------|------------|--|---|---|---|----------|---------|-------|----|---|---|----|---|
| Aluminum | A | mg/L | 0.00003531 | 0 | | 0 | 0 | 0 | 0.00086 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 0.00003111 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0.0000611 | 0 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.000004834 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Beryllium | A | mg/L | 0.0000139 | 0 | | 0 | 0 | 0 | 0.00012 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00001458 | 0 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 4.754E-07 | 0 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0.00001462 | 0 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0.000006656 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0.0000768 | 0 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lanthanum | A | mg/L | -1.678E-07 | 0 | | 0 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00006783 | 0.00006783 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Manganese | A | mg/L | 0.000008427 | 0 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 0.000006141 | 0 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.00001415 | 0 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0.000006448 | 0 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.0001037 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silicon | A | mg/L | 0.0006199 | 0 | | 0 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 0.0005808 | 0.0005808 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | J |
| Strontium | A | mg/L | -1.186E-06 | 0 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.0009391 | 0.0009391 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Thorium | A | mg/L | 0.0001209 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.00007028 | 0 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00002808 | 0 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Boron | B | mg/L | 0.01113 | 0.01113 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | 0 | 0 | 0% | D |
| Calcium | B | mg/L | 0.0007862 | 0 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | L |
| Iron | B | mg/L | 0.00007899 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0.00007899 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | -0.0001945 | 0 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | L |
| Potassium | B | mg/L | 0.6061 | 0.6061 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | 0 | 0 | 0% | D |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|----------------|---------------|-------------|------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998075 | 100 ppb Br STD | ICPMS-6020-W- | SAMP | | 1/21/2022 6:25:3 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Sodium | B | mg/L | -0.004582 | 0 | | 0 | 0 | 0 | 0.02171 | 0.02171 | 50 | 0% | 0 | 0 | 0% | L |
| Tin | B | mg/L | 0.0000425 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Vanadium | B | mg/L | -0.001381 | 0 | | 0 | 0 | 0 | 0.0013 | 0.0013 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.00004447 | 0 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | L |
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
| 14998076 | Rinse | ICPMS-6020-W- | SAMP | | 1/21/2022 6:31:5 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | -0.00005333 | 0 | | 0 | 0 | 0 | 0.00086 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 0.000004361 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | -0.0000211 | 0 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.000007504 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Beryllium | A | mg/L | -0.00001805 | 0 | | 0 | 0 | 0 | 0.00012 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.000004298 | 0 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 2.823E-07 | 0 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0.000009549 | 0 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0.000001586 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0.000008062 | 0 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lanthanum | A | mg/L | -2.126E-07 | 0 | | 0 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00003178 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 0.0001424 | 0.0001424 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Mercury | A | mg/L | 0.000003171 | 0 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.000002182 | 0 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | -2.619E-06 | 0 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.00002265 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silicon | A | mg/L | -0.00009928 | 0 | | 0 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 0.00004842 | 0.00004842 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | J |
| Strontium | A | mg/L | 0.000001103 | 0 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.0002484 | 0.0002484 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Thorium | A | mg/L | 0.00002154 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.000007355 | 0 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.000005192 | 0 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Boron | B | mg/L | 0.004534 | 0 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | 0 | 0 | 0% | L |
| Calcium | B | mg/L | -0.00006762 | 0 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|--------------------|------------|---------|------------------|-------|----------|-----------|---------|---------|--------|------|-----|------|------|---|
| 14998076 | Rinse | ICPMS-6020-W- SAMP | | | 1/21/2022 6:31:5 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Iron | B | mg/L | 0.0001241 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0.0001241 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | 0.0001039 | 0 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | L |
| Potassium | B | mg/L | 0.009954 | 0 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | 0 | 0 | 0% | L |
| Sodium | B | mg/L | -0.005194 | 0 | | 0 | 0 | 0 | 0.02171 | 0.02171 | 50 | 0% | 0 | 0 | 0% | L |
| Tin | B | mg/L | 6.858E-07 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Vanadium | B | mg/L | -0.001537 | 0 | | 0 | 0 | 0 | 0.0013 | 0.0013 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.00003112 | 0 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|--------|-------------------|------------|-----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998077 | QCS | ICPMS-6020-W- ICV | | | 1/21/2022 6:38:0 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.2358 | 0.2358 | | 0.25 | 0 | 0 | 0.00086 | 0.001 | 1 | 94% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.0472 | 0.0472 | | 0.05 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 94% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.04819 | 0.04819 | | 0.05 | 0 | 0 | 0.00019 | 0.001 | 1 | 96% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.04694 | 0.04694 | | 0.05 | 0 | 0 | 0.000042 | 0.001 | 1 | 94% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.02369 | 0.02369 | | 0.025 | 0 | 0 | 0.00012 | 0.001 | 1 | 95% | 90 | 110 | 0% | |
| Boron | A | mg/L | 0.05263 | 0.05263 | | 0.05 | 0 | 0 | 0.00561 | 0.00561 | 1 | 105% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.02455 | 0.02455 | | 0.025 | 0 | 0 | 0.000025 | 0.001 | 1 | 98% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 2.495 | 2.495 | | 2.5 | 0 | 0 | 0.02092 | 0.02092 | 50 | 100% | 90 | 110 | 0% | |
| Cerium | A | mg/L | 0.0507 | 0.0507 | | 0.05 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 101% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.04834 | 0.04834 | | 0.05 | 0 | 0 | 0.00018 | 0.001 | 1 | 97% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.05118 | 0.05118 | | 0.05 | 0 | 0 | 0.000042 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.05061 | 0.05061 | | 0.05 | 0 | 0 | 0.00027 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Iron | A | mg/L | 0.2523 | 0.2523 | | 0.25 | 0 | 0 | 0.00119 | 0.00119 | 5 | 101% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.05085 | 0.05085 | | 0.05 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 102% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.04803 | 0.04803 | | 0.05 | 0 | 0 | 0.000056 | 0.001 | 1 | 96% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 2.465 | 2.465 | | 2.5 | 0 | 0 | 0.00564 | 0.00564 | 50 | 99% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.2478 | 0.2478 | | 0.25 | 0 | 0 | 0.000095 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.0009719 | 0.0009719 | | 0.001 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 97% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.04775 | 0.04775 | | 0.05 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 95% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.0489 | 0.0489 | | 0.05 | 0 | 0 | 0.00063 | 0.001 | 1 | 98% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 2.436 | 2.436 | | 2.5 | 0 | 0 | 0.08139 | 0.08139 | 50 | 97% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.04891 | 0.04891 | | 0.05 | 0 | 0 | 0.00033 | 0.001 | 1 | 98% | 90 | 110 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|-------------------|------------|---------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998077 | QCS | ICPMS-6020-W- ICV | | | 1/21/2022 6:38:0 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Silicon | A | mg/L | 0.4964 | 0.4964 | | 0.5 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 99% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.02475 | 0.02475 | | 0.025 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 99% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 2.465 | 2.465 | | 2.5 | 0 | 0 | 0.02171 | 0.02171 | 50 | 99% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.05002 | 0.05002 | | 0.05 | 0 | 0 | 0.00014 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.04844 | 0.04844 | | 0.05 | 0 | 0 | 0.000041 | 0.001 | 1 | 97% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.04896 | 0.04896 | | 0.05 | 0 | 0 | 0.00061 | 0.001 | 1 | 98% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.04891 | 0.04891 | | 0.05 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 98% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.0492 | 0.0492 | | 0.05 | 0 | 0 | 0.000094 | 0.001 | 1 | 98% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.051 | 0.051 | | 0.05 | 0 | 0 | 0.000052 | 0.0003 | 1 | 102% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.0462 | 0.0462 | | 0.05 | 0 | 0 | 0.0013 | 0.0013 | 1 | 92% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.04867 | 0.04867 | | 0.05 | 0 | 0 | 0.00273 | 0.00273 | 1 | 97% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 0.2523 | 0.2523 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|--------|-------------------|------------|----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998078 | CCV | ICPMS-6020-W- CCV | | | 1/21/2022 6:44:2 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.06006 | 0.06006 | | 0.05 | 0 | 0 | 0.00086 | 0.001 | 1 | 120% | 90 | 110 | 0% | S |
| Antimony | A | mg/L | 0.05343 | 0.05343 | | 0.05 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 107% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.05075 | 0.05075 | | 0.05 | 0 | 0 | 0.00019 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.05058 | 0.05058 | | 0.05 | 0 | 0 | 0.000042 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.05025 | 0.05025 | | 0.05 | 0 | 0 | 0.00012 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Boron | A | mg/L | 0.05449 | 0.05449 | | 0.05 | 0 | 0 | 0.00561 | 0.00561 | 1 | 109% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.05195 | 0.05195 | | 0.05 | 0 | 0 | 0.000025 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 12.69 | 12.69 | | 12.5 | 0 | 0 | 0.02092 | 0.02092 | 50 | 102% | 90 | 110 | 0% | |
| Cerium | A | mg/L | 0.05124 | 0.05124 | | 0.05 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 102% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.05124 | 0.05124 | | 0.05 | 0 | 0 | 0.00018 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.05169 | 0.05169 | | 0.05 | 0 | 0 | 0.000042 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.05192 | 0.05192 | | 0.05 | 0 | 0 | 0.00027 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Iron | A | mg/L | 1.31 | 1.31 | | 1.3 | 0 | 0 | 0.00119 | 0.00119 | 5 | 101% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.04994 | 0.04994 | | 0.05 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 100% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.05105 | 0.05105 | | 0.05 | 0 | 0 | 0.000056 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 12.35 | 12.35 | | 12.5 | 0 | 0 | 0.00564 | 0.00564 | 50 | 99% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.05119 | 0.05119 | | 0.05 | 0 | 0 | 0.000095 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.001006 | 0.001006 | | 0.001 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 101% | 90 | 110 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|------------|---------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998078 | CCV | ICPMS-6020-W- | CCV | | 1/21/2022 6:44:2 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Molybdenum | A | mg/L | 0.05301 | 0.05301 | | 0.05 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 106% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.05187 | 0.05187 | | 0.05 | 0 | 0 | 0.00063 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 12.36 | 12.36 | | 12.5 | 0 | 0 | 0.08139 | 0.08139 | 50 | 99% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.05164 | 0.05164 | | 0.05 | 0 | 0 | 0.00033 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.2215 | 0.2215 | | 0.2 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 111% | 90 | 110 | 0% | S |
| Silver | A | mg/L | 0.02071 | 0.02071 | | 0.02 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 104% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 12.19 | 12.19 | | 12.5 | 0 | 0 | 0.02171 | 0.02171 | 50 | 98% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.05181 | 0.05181 | | 0.05 | 0 | 0 | 0.00014 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.05044 | 0.05044 | | 0.05 | 0 | 0 | 0.000041 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.04955 | 0.04955 | | 0.05 | 0 | 0 | 0.00061 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.05271 | 0.05271 | | 0.05 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 105% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.05171 | 0.05171 | | 0.05 | 0 | 0 | 0.000094 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.05032 | 0.05032 | | 0.05 | 0 | 0 | 0.000052 | 0.0003 | 1 | 101% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.04946 | 0.04946 | | 0.05 | 0 | 0 | 0.0013 | 0.0013 | 1 | 99% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.05038 | 0.05038 | | 0.05 | 0 | 0 | 0.00273 | 0.00273 | 1 | 101% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 1.31 | 1.31 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|--------|---------------|-------------|-------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998079 | CCB | ICPMS-6020-W- | CCB | | 1/21/2022 6:50:3 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | -0.00008334 | -0.00008334 | | 0 | 0 | 0 | 0.00086 | 0.001 | 1 | 0% | | | 0% | |
| Antimony | A | mg/L | 0.00009752 | 0.00009752 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | | | 0% | |
| Arsenic | A | mg/L | -0.00001788 | -0.00001788 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | | | 0% | |
| Barium | A | mg/L | -2.267E-06 | -2.267E-06 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | | | 0% | |
| Beryllium | A | mg/L | -0.0000297 | -0.0000297 | | 0 | 0 | 0 | 0.00012 | 0.001 | 1 | 0% | | | 0% | |
| Boron | A | mg/L | 0.003158 | 0.003158 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | | | 0% | |
| Cadmium | A | mg/L | -7.682E-08 | -7.682E-08 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | | | 0% | |
| Calcium | A | mg/L | -0.0006591 | -0.0006591 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | | | 0% | |
| Cerium | A | mg/L | -3.093E-07 | -3.093E-07 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | -0.00000562 | -0.00000562 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | | | 0% | |
| Cobalt | A | mg/L | -3.073E-08 | -3.073E-08 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | | | 0% | |
| Copper | A | mg/L | -3.925E-06 | -3.925E-06 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | | | 0% | |
| Iron | A | mg/L | -0.00002827 | -0.00002827 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | | | 0% | |
| Lanthanum | A | mg/L | 1.131E-07 | 1.131E-07 | | 0 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|-------------|-------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998079 | CCB | ICPMS-6020-W- | CCB | | 1/21/2022 6:50:3 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Lead | A | mg/L | 0.00001708 | 0.00001708 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | | | 0% | |
| Magnesium | A | mg/L | 0.00000502 | 0.00000502 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | | | 0% | |
| Manganese | A | mg/L | -3.721E-06 | -3.721E-06 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | | | 0% | |
| Mercury | A | mg/L | 0.000008847 | 0.000008847 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | | | 0% | |
| Molybdenum | A | mg/L | 0.00002745 | 0.00002745 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | | | 0% | |
| Nickel | A | mg/L | -1.692E-06 | -1.692E-06 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | | | 0% | |
| Potassium | A | mg/L | 0.005592 | 0.005592 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | | | 0% | |
| Selenium | A | mg/L | 0.000002865 | 0.000002865 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | | | 0% | |
| Silicon | A | mg/L | -0.0000577 | -0.0000577 | | 0 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -4.698E-07 | -4.698E-07 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | | | 0% | |
| Sodium | A | mg/L | -0.006108 | -0.006108 | | 0 | 0 | 0 | 0.02171 | 0.02171 | 50 | 0% | | | 0% | |
| Strontium | A | mg/L | 1.608E-07 | 1.608E-07 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.0001839 | 0.0001839 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | 0.00002256 | 0.00002256 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Tin | A | mg/L | 0.00003255 | 0.00003255 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | -2.121E-06 | -2.121E-06 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.000003448 | 0.000003448 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | A | mg/L | -0.001229 | -0.001229 | | 0 | 0 | 0 | 0.0013 | 0.0013 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | A | mg/L | 0.00003239 | 0.00003239 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | C | mg/L | -0.00002827 | -0.00002827 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|--------|---------------|-------------|---------|------------------|-------|----------|-----------|----------|--------|--------|------|-----|------|------|---|
| 14998080 | Rinse | ICPMS-6020-W- | SAMP | | 1/21/2022 6:56:5 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.00002038 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | -0.00002733 | 0 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.000001837 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.000003405 | 0 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 7.842E-08 | 0 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0.000008644 | 0 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 8.188E-07 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 2.673E-07 | 0 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lanthanum | A | mg/L | -4.08E-07 | 0 | | 0 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00001422 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|-------------|-----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998080 | Rinse | ICPMS-6020-W- | SAMP | | 1/21/2022 6:56:5 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Manganese | A | mg/L | -9.366E-07 | 0 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 0.000007575 | 0 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.000006079 | 0 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | -2.986E-06 | 0 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | -4.479E-07 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 5.487E-07 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | -6.478E-06 | 0 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.0000698 | 0.0000698 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Thorium | A | mg/L | 0.000003569 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | -0.00001149 | 0 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.000001129 | 0 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Boron | B | mg/L | 0.001589 | 0 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | 0 | 0 | 0% | L |
| Calcium | B | mg/L | -0.0001919 | 0 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | L |
| Iron | B | mg/L | -0.00003439 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | -0.00003439 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | 0.0003372 | 0 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | L |
| Potassium | B | mg/L | 0.006841 | 0 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | 0 | 0 | 0% | L |
| Sodium | B | mg/L | -0.005594 | 0 | | 0 | 0 | 0 | 0.02171 | 0.02171 | 50 | 0% | 0 | 0 | 0% | L |
| Tin | B | mg/L | 0.00000474 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Vanadium | B | mg/L | -0.001174 | 0 | | 0 | 0 | 0 | 0.0013 | 0.0013 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.00001541 | 0 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|--------|---------------|-------------|------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998081 | LRB | ICPMS-6020-W- | MBLK | | 1/21/2022 7:03:0 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0004133 | 0 | | 0 | 0 | 0 | 0.00086 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 0.00000844 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | -0.00002077 | 0 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.00009291 | 0.00009291 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Beryllium | A | mg/L | -0.00003403 | 0 | | 0 | 0 | 0 | 0.00012 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Boron | A | mg/L | 0.001155 | 0 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00001985 | 0 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Calcium | A | mg/L | 0.008124 | 0 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 0.000001558 | 0 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|--------------------|-------------|---------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998081 | LRB | ICPMS-6020-W- MBLK | | | 1/21/2022 7:03:0 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Chromium | A | mg/L | 0.00001146 | 0 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 4.566E-07 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0.0000231 | 0 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Iron | A | mg/L | 0.0003366 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Lanthanum | A | mg/L | 2.824E-07 | 0 | | 0 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00002045 | 0 | | 0 | 0 | 0 | 0.000056 | 0.0005 | 1 | 0% | 0 | 0 | 0% | |
| Magnesium | A | mg/L | 0.001005 | 0 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 0.00002619 | 0 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 0.000004836 | 0 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.000007644 | 0 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0.00002193 | 0 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Potassium | A | mg/L | 0.007913 | 0 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.000000196 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silicon | A | mg/L | 0.07265 | 0.07265 | | 0 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -0.00006565 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Sodium | A | mg/L | 0.005793 | 0 | | 0 | 0 | 0 | 0.02171 | 0.02171 | 50 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.00003717 | 0 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00002874 | 0 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | -2.522E-07 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Tin | A | mg/L | 0.00001472 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.000007062 | 0 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 7.498E-07 | 0 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | A | mg/L | -0.001178 | 0 | | 0 | 0 | 0 | 0.0013 | 0.0013 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | A | mg/L | 0.0002964 | 0 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | C | mg/L | 0.0003366 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|--------|-------------------|------------|-----------|------------------|-------|----------|-----------|-----------|--------|--------|------|-----|------|------|---|
| 14998082 | LFB | ICPMS-6020-W- LFB | | | 1/21/2022 7:09:2 | 1.03 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.04581 | 0.0471843 | | 0.05 | 0 | 0 | 0.0008858 | 0.001 | 1 | 94% | 85 | 115 | 0% | |
| Antimony | A | mg/L | 0.04745 | 0.0488735 | | 0.05 | 0 | 0 | 0.0004326 | 0.001 | 0.1 | 98% | 85 | 115 | 0% | |
| Arsenic | A | mg/L | 0.04834 | 0.0497902 | | 0.05 | 0 | 0 | 0.0001957 | 0.001 | 1 | 100% | 85 | 115 | 0% | |
| Barium | A | mg/L | 0.04747 | 0.0488941 | | 0.05 | 0 | 0 | 4.326E-05 | 0.001 | 1 | 98% | 85 | 115 | 0% | |
| Beryllium | A | mg/L | 0.04449 | 0.0458247 | | 0.05 | 0 | 0 | 0.0001236 | 0.001 | 1 | 92% | 85 | 115 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|------------|-------------|------------------|-------|----------|-----------|-----------|-----------|--------|------|-----|------|------|---|
| 14998082 | LFB | ICPMS-6020-W- | LFB | | 1/21/2022 7:09:2 | 1.03 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Boron | A | mg/L | 0.04596 | 0.0473388 | | 0.05 | 0 | 0 | 0.0057783 | 0.0057783 | 1 | 95% | 85 | 115 | 0% | |
| Cadmium | A | mg/L | 0.04804 | 0.0494812 | | 0.05 | 0 | 0 | 2.575E-05 | 0.001 | 1 | 99% | 85 | 115 | 0% | |
| Calcium | A | mg/L | 48.57 | 50.0271 | | 50 | 0 | 0 | 0.0215476 | 0.0215476 | 50 | 100% | 85 | 115 | 0% | |
| Cerium | A | mg/L | 0.0491 | 0.050573 | | 0.05 | 0 | 0 | 1.236E-05 | 0.001 | 0.1 | 101% | 85 | 115 | 0% | |
| Chromium | A | mg/L | 0.04655 | 0.0479465 | | 0.05 | 0 | 0 | 0.0001854 | 0.001 | 1 | 96% | 85 | 115 | 0% | |
| Cobalt | A | mg/L | 0.04617 | 0.0475551 | | 0.05 | 0 | 0 | 4.326E-05 | 0.001 | 1 | 95% | 85 | 115 | 0% | |
| Copper | A | mg/L | 0.04689 | 0.0482967 | | 0.05 | 0 | 0 | 0.0002781 | 0.001 | 1 | 97% | 85 | 115 | 0% | |
| Iron | A | mg/L | 5.002 | 5.15206 | | 5.05 | 0 | 0 | 0.0012257 | 0.0012257 | 5 | 102% | 85 | 115 | 0% | |
| Lanthanum | A | mg/L | 0.0000052 | 0 | | 0.05 | 0 | 0 | 1.133E-05 | 0.001 | 0.1 | 0% | 85 | 115 | 0% | S |
| Lead | A | mg/L | 0.04866 | 0.0501198 | | 0.05 | 0 | 0 | 5.768E-05 | 0.001 | 1 | 100% | 88 | 115 | 0% | |
| Magnesium | A | mg/L | 47.37 | 48.7911 | | 50 | 0 | 0 | 0.0058092 | 0.0058092 | 50 | 98% | 85 | 115 | 0% | |
| Manganese | A | mg/L | 0.04765 | 0.0490795 | | 0.05 | 0 | 0 | 9.785E-05 | 0.001 | 1 | 98% | 85 | 115 | 0% | |
| Mercury | A | mg/L | 0.0009606 | 0.000989418 | | 0.001 | 0 | 0 | 0.0001648 | 0.001 | 0.002 | 99% | 85 | 115 | 0% | |
| Molybdenum | A | mg/L | 0.04766 | 0.0490898 | | 0.05 | 0 | 0 | 0.0000515 | 0.001 | 0.1 | 98% | 85 | 115 | 0% | |
| Nickel | A | mg/L | 0.04623 | 0.0476169 | | 0.05 | 0 | 0 | 0.0006489 | 0.001 | 1 | 95% | 85 | 115 | 0% | |
| Potassium | A | mg/L | 46.66 | 48.0598 | | 50 | 0 | 0 | 0.0838317 | 0.0838317 | 50 | 96% | 85 | 115 | 0% | |
| Selenium | A | mg/L | 0.04896 | 0.0504288 | | 0.05 | 0 | 0 | 0.0003399 | 0.001 | 1 | 101% | 85 | 115 | 0% | |
| Silicon | A | mg/L | 0.2636 | 0.271508 | | 0.2 | 0 | 0 | 0.0125969 | 0.1 | 0.4 | 136% | 85 | 115 | 0% | S |
| Silver | A | mg/L | 0.01952 | 0.0201056 | | 0.02 | 0 | 0 | 0.0000206 | 0.001 | 0.04 | 101% | 85 | 115 | 0% | |
| Sodium | A | mg/L | 46.79 | 48.1937 | | 50 | 0 | 0 | 0.0223613 | 0.0223613 | 50 | 96% | 85 | 115 | 0% | |
| Strontium | A | mg/L | 0.04895 | 0.0504185 | | 0.05 | 0 | 0 | 0.0001442 | 0.001 | 1 | 101% | 85 | 115 | 0% | |
| Thallium | A | mg/L | 0.04957 | 0.0510571 | | 0.05 | 0 | 0 | 4.223E-05 | 0.001 | 1 | 102% | 85 | 115 | 0% | |
| Thorium | A | mg/L | 0.04787 | 0.0493061 | | 0.05 | 0 | 0 | 0.0006283 | 0.001 | 1 | 99% | 85 | 115 | 0% | |
| Tin | A | mg/L | 0.04711 | 0.0485233 | | 0.05 | 0 | 0 | 0.0013596 | 0.0013596 | 0.1 | 97% | 85 | 115 | 0% | |
| Titanium | A | mg/L | 0.04981 | 0.0513043 | | 0.05 | 0 | 0 | 9.682E-05 | 0.001 | 1 | 103% | 85 | 115 | 0% | |
| Uranium | A | mg/L | 0.04894 | 0.0504082 | | 0.05 | 0 | 0 | 5.356E-05 | 0.0003 | 1 | 101% | 85 | 115 | 0% | |
| Vanadium | A | mg/L | 0.04669 | 0.0480907 | | 0.05 | 0 | 0 | 0.001339 | 0.001339 | 1 | 96% | 85 | 115 | 0% | |
| Zinc | A | mg/L | 0.04796 | 0.0493988 | | 0.05 | 0 | 0 | 0.0028119 | 0.0028119 | 1 | 99% | 85 | 115 | 0% | |
| Iron, Ferrous | C | mg/L | 5.002 | 5.15206 | | 0 | 0 | 0 | 0.0012257 | 0.0012257 | 5 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|--------|---------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998083 | ICSA | ICPMS-6020-W- | ICSA | | 1/21/2022 7:15:4 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|-------------|-------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998083 | ICSA | ICPMS-6020-W- | ICSA | | 1/21/2022 7:15:4 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 36.61 | 36.61 | | 40 | 0 | 0 | 0.00086 | 0.001 | 1 | 92% | 80 | 120 | 0% | |
| Antimony | A | mg/L | 0.0001483 | 0.0001483 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | | | 0% | |
| Arsenic | A | mg/L | -6.573E-06 | -6.573E-06 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | | | 0% | |
| Barium | A | mg/L | 0.00007164 | 0.00007164 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | | | 0% | |
| Beryllium | A | mg/L | -0.00004143 | -0.00004143 | | 0 | 0 | 0 | 0.00012 | 0.001 | 1 | 0% | | | 0% | |
| Boron | A | mg/L | 0.001432 | 0.001432 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | | | 0% | |
| Cadmium | A | mg/L | 0.00007616 | 0.00007616 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | | | 0% | |
| Calcium | A | mg/L | 123.4 | 123.4 | | 120 | 0 | 0 | 0.02092 | 0.02092 | 50 | 103% | 80 | 120 | 0% | |
| Cerium | A | mg/L | 0.000002237 | 0.000002237 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | | | 0% | |
| Chromium | A | mg/L | 0.0008664 | 0.0008664 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | | | 0% | |
| Cobalt | A | mg/L | 0.0003428 | 0.0003428 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | | | 0% | |
| Copper | A | mg/L | 0.0000565 | 0.0000565 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | | | 0% | |
| Iron | A | mg/L | 105 | 105 | | 100 | 0 | 0 | 0.00119 | 0.00119 | 5 | 105% | 80 | 120 | 0% | |
| Lanthanum | A | mg/L | 0.00000965 | 0.00000965 | | 0 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 0% | | | 0% | |
| Lead | A | mg/L | 0.00002378 | 0.00002378 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | | | 0% | |
| Magnesium | A | mg/L | 39.77 | 39.77 | | 50 | 0 | 0 | 0.00564 | 0.00564 | 50 | 80% | | | 0% | |
| Manganese | A | mg/L | 0.000223 | 0.000223 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | | | 0% | |
| Mercury | A | mg/L | 0.000007912 | 0.000007912 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | | | 0% | |
| Molybdenum | A | mg/L | 0.79 | 0.79 | | 0.8 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 99% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.0001824 | 0.0001824 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | | | 0% | |
| Potassium | A | mg/L | 40 | 40 | | 50 | 0 | 0 | 0.08139 | 0.08139 | 50 | 80% | | | 0% | |
| Selenium | A | mg/L | 0.0001231 | 0.0001231 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | | | 0% | |
| Silicon | A | mg/L | 0.00401 | 0.00401 | | 0 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 0% | | | 0% | |
| Silver | A | mg/L | 0.000005626 | 0.000005626 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | | | 0% | |
| Sodium | A | mg/L | 98.15 | 98.15 | | 100 | 0 | 0 | 0.02171 | 0.02171 | 50 | 98% | | | 0% | |
| Strontium | A | mg/L | 0.001213 | 0.001213 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | | | 0% | |
| Thallium | A | mg/L | 0.00007521 | 0.00007521 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | | | 0% | |
| Thorium | A | mg/L | 0.00002456 | 0.00002456 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | | | 0% | |
| Tin | A | mg/L | 0.00004425 | 0.00004425 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | | | 0% | |
| Titanium | A | mg/L | 0.7665 | 0.7665 | | 0.8 | 0 | 0 | 0.000094 | 0.001 | 1 | 96% | | | 0% | |
| Uranium | A | mg/L | 0.000002654 | 0.000002654 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | | | 0% | |
| Vanadium | A | mg/L | -0.002681 | -0.002681 | | 0 | 0 | 0 | 0.0013 | 0.0013 | 1 | 0% | | | 0% | |
| Zinc | A | mg/L | 0.0003461 | 0.0003461 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | | | 0% | |
| Iron, Ferrous | C | mg/L | 105 | 105 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | | | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------------|-------------|-------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998084 | ICSAB | ICPMS-6020-W- ICSAB | | | 1/21/2022 7:21:5 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 35.69 | 35.69 | | 40 | 0 | 0 | 0.00086 | 0.001 | 1 | 89% | 80 | 120 | 0% | |
| Antimony | A | mg/L | 0.00004712 | 0.00004712 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | | | 0% | |
| Arsenic | A | mg/L | 0.009885 | 0.009885 | | 0.01 | 0 | 0 | 0.00019 | 0.001 | 1 | 99% | 80 | 120 | 0% | |
| Barium | A | mg/L | 0.00005507 | 0.00005507 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | | | 0% | |
| Beryllium | A | mg/L | -0.00004567 | -0.00004567 | | 0 | 0 | 0 | 0.00012 | 0.001 | 1 | 0% | | | 0% | |
| Boron | A | mg/L | 0.0007254 | 0.0007254 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | | | 0% | |
| Cadmium | A | mg/L | 0.009671 | 0.009671 | | 0.01 | 0 | 0 | 0.000025 | 0.001 | 1 | 97% | 80 | 120 | 0% | |
| Calcium | A | mg/L | 121.5 | 121.5 | | 120 | 0 | 0 | 0.02092 | 0.02092 | 50 | 101% | 80 | 120 | 0% | |
| Cerium | A | mg/L | 0.000002861 | 0.000002861 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | | | 0% | |
| Chromium | A | mg/L | 0.02036 | 0.02036 | | 0.02 | 0 | 0 | 0.00018 | 0.001 | 1 | 102% | 80 | 120 | 0% | |
| Cobalt | A | mg/L | 0.01951 | 0.01951 | | 0.02 | 0 | 0 | 0.000042 | 0.001 | 1 | 98% | 80 | 120 | 0% | |
| Copper | A | mg/L | 0.0197 | 0.0197 | | 0.02 | 0 | 0 | 0.00027 | 0.001 | 1 | 98% | 80 | 120 | 0% | |
| Iron | A | mg/L | 102.8 | 102.8 | | 100 | 0 | 0 | 0.00119 | 0.00119 | 5 | 103% | 80 | 120 | 0% | |
| Lanthanum | A | mg/L | 0.000009375 | 0.000009375 | | 0 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 0% | | | 0% | |
| Lead | A | mg/L | 0.00001851 | 0.00001851 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | | | 0% | |
| Magnesium | A | mg/L | 39.38 | 39.38 | | 40 | 0 | 0 | 0.00564 | 0.00564 | 50 | 98% | 80 | 120 | 0% | |
| Manganese | A | mg/L | 0.02002 | 0.02002 | | 0.02 | 0 | 0 | 0.000095 | 0.001 | 1 | 100% | 80 | 120 | 0% | |
| Mercury | A | mg/L | 0.00000465 | 0.00000465 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | | | 0% | |
| Molybdenum | A | mg/L | 0.7937 | 0.7937 | | 0.8 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 99% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.02011 | 0.02011 | | 0.02 | 0 | 0 | 0.00063 | 0.001 | 1 | 101% | 80 | 120 | 0% | |
| Potassium | A | mg/L | 40.81 | 40.81 | | 40 | 0 | 0 | 0.08139 | 0.08139 | 50 | 102% | 80 | 120 | 0% | |
| Selenium | A | mg/L | 0.01009 | 0.01009 | | 0.01 | 0 | 0 | 0.00033 | 0.001 | 1 | 101% | 80 | 120 | 0% | |
| Silicon | A | mg/L | 0.002787 | 0.002787 | | 0 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 0% | | | 0% | |
| Silver | A | mg/L | 0.004652 | 0.004652 | | 0.005 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 93% | 80 | 120 | 0% | |
| Sodium | A | mg/L | 98.68 | 98.68 | | 100 | 0 | 0 | 0.02171 | 0.02171 | 50 | 99% | 80 | 120 | 0% | |
| Strontium | A | mg/L | 0.001263 | 0.001263 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | | | 0% | |
| Thallium | A | mg/L | 0.0000178 | 0.0000178 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | | | 0% | |
| Thorium | A | mg/L | 0.000006585 | 0.000006585 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | | | 0% | |
| Tin | A | mg/L | 0.00003712 | 0.00003712 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | | | 0% | |
| Titanium | A | mg/L | 0.7705 | 0.7705 | | 0.8 | 0 | 0 | 0.000094 | 0.001 | 1 | 96% | 80 | 120 | 0% | |
| Uranium | A | mg/L | 0.000001175 | 0.000001175 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | | | 0% | |
| Vanadium | A | mg/L | 0.01715 | 0.01715 | | 0.02 | 0 | 0 | 0.0013 | 0.0013 | 1 | 86% | 80 | 120 | 0% | |
| Zinc | A | mg/L | 0.01006 | 0.01006 | | 0.01 | 0 | 0 | 0.00273 | 0.00273 | 1 | 101% | 80 | 120 | 0% | |
| Iron, Ferrous | C | mg/L | 102.8 | 102.8 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | | | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|-------------|-----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998085 | Rinse | ICPMS-6020-W- | SAMP | | 1/21/2022 7:28:1 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.00007088 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | -0.0001086 | 0 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.000004146 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.000002559 | 0 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 1.433E-07 | 0 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | -0.00001438 | 0 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | -2.535E-08 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | -0.00000589 | 0 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.000003567 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 0.0001269 | 0.0001269 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Mercury | A | mg/L | 0.000003669 | 0 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.0001989 | 0.0001989 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Nickel | A | mg/L | 0.000005669 | 0 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | -3.499E-06 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -9.111E-07 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.000001196 | 0 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00001804 | 0 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | -3.359E-06 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.000119 | 0.000119 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Uranium | A | mg/L | 5.372E-07 | 0 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Boron | B | mg/L | 0.000005533 | 0 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | 0 | 0 | 0% | L |
| Calcium | B | mg/L | 0.0006013 | 0 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | L |
| Iron | B | mg/L | 0.0009312 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0.0009312 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | -0.0005737 | 0 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | L |
| Potassium | B | mg/L | 0.0002652 | 0 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | 0 | 0 | 0% | L |
| Sodium | B | mg/L | 0.01295 | 0 | | 0 | 0 | 0 | 0.02171 | 0.02171 | 50 | 0% | 0 | 0 | 0% | L |
| Tin | B | mg/L | -0.00001041 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | -0.0000111 | 0 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|--------|---------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998086 | Rinse | ICPMS-6020-W- | SAMP | | 1/21/2022 7:34:2 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|-------------|-----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998086 | Rinse | ICPMS-6020-W- | SAMP | | 1/21/2022 7:34:2 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | -1.651E-06 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | -0.0001081 | 0 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 5.064E-07 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.000004055 | 0 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 1.251E-07 | 0 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | -5.182E-06 | 0 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0.000000561 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | -0.0000108 | 0 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 6.603E-07 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 0.0001285 | 0.0001285 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Mercury | A | mg/L | 0.000002463 | 0 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.0000494 | 0 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | -1.024E-06 | 0 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | -0.00001492 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -2.846E-06 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | -1.864E-06 | 0 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.000007649 | 0 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | -5.463E-06 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.00005353 | 0 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 3.772E-07 | 0 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Boron | B | mg/L | -0.0001862 | 0 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | 0 | 0 | 0% | L |
| Calcium | B | mg/L | 0.0001684 | 0 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | L |
| Iron | B | mg/L | 0.0003866 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0.0003866 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | -0.0006523 | 0 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | L |
| Potassium | B | mg/L | -0.004613 | 0 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | 0 | 0 | 0% | L |
| Sodium | B | mg/L | 0.01026 | 0 | | 0 | 0 | 0 | 0.02171 | 0.02171 | 50 | 0% | 0 | 0 | 0% | L |
| Tin | B | mg/L | -5.751E-07 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.00001647 | 0 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|--------|---------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998087 | CCV | ICPMS-6020-W- | CCV | | 1/21/2022 7:40:4 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|------------|-----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998087 | CCV | ICPMS-6020-W- | CCV | | 1/21/2022 7:40:4 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.05674 | 0.05674 | | 0.05 | 0 | 0 | 0.00086 | 0.001 | 1 | 113% | 90 | 110 | 0% | S |
| Antimony | A | mg/L | 0.05264 | 0.05264 | | 0.05 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 105% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.05159 | 0.05159 | | 0.05 | 0 | 0 | 0.00019 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.05006 | 0.05006 | | 0.05 | 0 | 0 | 0.000042 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.04299 | 0.04299 | | 0.05 | 0 | 0 | 0.00012 | 0.001 | 1 | 86% | 90 | 110 | 0% | S |
| Boron | A | mg/L | 0.04481 | 0.04481 | | 0.05 | 0 | 0 | 0.00561 | 0.00561 | 1 | 90% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.05089 | 0.05089 | | 0.05 | 0 | 0 | 0.000025 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 12.55 | 12.55 | | 12.5 | 0 | 0 | 0.02092 | 0.02092 | 50 | 100% | 90 | 110 | 0% | |
| Cerium | A | mg/L | 0.05163 | 0.05163 | | 0.05 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 103% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.05015 | 0.05015 | | 0.05 | 0 | 0 | 0.00018 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.04966 | 0.04966 | | 0.05 | 0 | 0 | 0.000042 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.05197 | 0.05197 | | 0.05 | 0 | 0 | 0.00027 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Iron | A | mg/L | 1.323 | 1.323 | | 1.3 | 0 | 0 | 0.00119 | 0.00119 | 5 | 102% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.05074 | 0.05074 | | 0.05 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 101% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.05044 | 0.05044 | | 0.05 | 0 | 0 | 0.000056 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 11.96 | 11.96 | | 12.5 | 0 | 0 | 0.00564 | 0.00564 | 50 | 96% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.05099 | 0.05099 | | 0.05 | 0 | 0 | 0.000095 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.0009792 | 0.0009792 | | 0.001 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 98% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.0513 | 0.0513 | | 0.05 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 103% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.05013 | 0.05013 | | 0.05 | 0 | 0 | 0.00063 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 12.2 | 12.2 | | 12.5 | 0 | 0 | 0.08139 | 0.08139 | 50 | 98% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.05215 | 0.05215 | | 0.05 | 0 | 0 | 0.00033 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.2188 | 0.2188 | | 0.2 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 109% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.01984 | 0.01984 | | 0.02 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 99% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 12.24 | 12.24 | | 12.5 | 0 | 0 | 0.02171 | 0.02171 | 50 | 98% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.0531 | 0.0531 | | 0.05 | 0 | 0 | 0.00014 | 0.001 | 1 | 106% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.05027 | 0.05027 | | 0.05 | 0 | 0 | 0.000041 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.04876 | 0.04876 | | 0.05 | 0 | 0 | 0.00061 | 0.001 | 1 | 98% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.0524 | 0.0524 | | 0.05 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 105% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.04973 | 0.04973 | | 0.05 | 0 | 0 | 0.000094 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.04973 | 0.04973 | | 0.05 | 0 | 0 | 0.000052 | 0.0003 | 1 | 99% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.04853 | 0.04853 | | 0.05 | 0 | 0 | 0.0013 | 0.0013 | 1 | 97% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.05256 | 0.05256 | | 0.05 | 0 | 0 | 0.00273 | 0.00273 | 1 | 105% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 1.323 | 1.323 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|-------------|-------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|----|
| 14998088 | CCB | ICPMS-6020-W- | CCB | | 1/21/2022 7:46:5 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.00002508 | 0.00002508 | | 0 | 0 | 0 | 0.00086 | 0.001 | 1 | 0% | | | | 0% |
| Antimony | A | mg/L | 0.00007866 | 0.00007866 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | | | | 0% |
| Arsenic | A | mg/L | -0.00007487 | -0.00007487 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | | | | 0% |
| Barium | A | mg/L | 0.000003741 | 0.000003741 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | | | | 0% |
| Beryllium | A | mg/L | -0.00003987 | -0.00003987 | | 0 | 0 | 0 | 0.00012 | 0.001 | 1 | 0% | | | | 0% |
| Boron | A | mg/L | 0.0003892 | 0.0003892 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | | | | 0% |
| Cadmium | A | mg/L | 0.000001919 | 0.000001919 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | | | | 0% |
| Calcium | A | mg/L | -0.00009227 | -0.00009227 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | | | | 0% |
| Cerium | A | mg/L | 1.426E-07 | 1.426E-07 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | | 0% |
| Chromium | A | mg/L | 0.0001156 | 0.0001156 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | | | | 0% |
| Cobalt | A | mg/L | -1.747E-06 | -1.747E-06 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | | | | 0% |
| Copper | A | mg/L | -5.861E-06 | -5.861E-06 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | | | | 0% |
| Iron | A | mg/L | 0.0001494 | 0.0001494 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | | | | 0% |
| Lanthanum | A | mg/L | -2.293E-07 | -2.293E-07 | | 0 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 0% | 0 | 0 | | 0% |
| Lead | A | mg/L | 0.00000459 | 0.00000459 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | | | | 0% |
| Magnesium | A | mg/L | -0.0001894 | -0.0001894 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | | | | 0% |
| Manganese | A | mg/L | -6.619E-06 | -6.619E-06 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | | | | 0% |
| Mercury | A | mg/L | 0.000005715 | 0.000005715 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | | | | 0% |
| Molybdenum | A | mg/L | 0.00003537 | 0.00003537 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | | | | 0% |
| Nickel | A | mg/L | -3.952E-06 | -3.952E-06 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | | | | 0% |
| Potassium | A | mg/L | 0.006306 | 0.006306 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | | | | 0% |
| Selenium | A | mg/L | 0.000003006 | 0.000003006 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | | | | 0% |
| Silicon | A | mg/L | 0.0003604 | 0.0003604 | | 0 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 0% | 0 | 0 | | 0% |
| Silver | A | mg/L | 0.000000495 | 0.000000495 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | | | | 0% |
| Sodium | A | mg/L | 0.001802 | 0.001802 | | 0 | 0 | 0 | 0.02171 | 0.02171 | 50 | 0% | | | | 0% |
| Strontium | A | mg/L | -1.406E-06 | -1.406E-06 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Thallium | A | mg/L | 0.0001487 | 0.0001487 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Thorium | A | mg/L | 0.000009463 | 0.000009463 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Tin | A | mg/L | 0.000009815 | 0.000009815 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | | 0% |
| Titanium | A | mg/L | 0.0000232 | 0.0000232 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Uranium | A | mg/L | 0.000002263 | 0.000002263 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | | 0% |
| Vanadium | A | mg/L | -0.00189 | -0.00189 | | 0 | 0 | 0 | 0.0013 | 0.0013 | 1 | 0% | 0 | 0 | | 0% |
| Zinc | A | mg/L | 0.000003594 | 0.000003594 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | | 0% |
| Iron, Ferrous | C | mg/L | 0.0001494 | 0.0001494 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | | 0% |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|-------------|-----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998089 | Rinse | ICPMS-6020-W- | SAMP | | 1/21/2022 7:53:0 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.00001246 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | -0.0001017 | 0 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.000003602 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | -7.908E-07 | 0 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 1.429E-07 | 0 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | -0.00001397 | 0 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 1.402E-07 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | -0.0000181 | 0 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 4.629E-07 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 0.0001224 | 0.0001224 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Mercury | A | mg/L | 0.000003829 | 0 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.00001699 | 0 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0.000008455 | 0 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | -8.408E-06 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -2.615E-06 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.000002821 | 0 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00004065 | 0 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | -6.483E-07 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.00002228 | 0 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 7.061E-07 | 0 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Calcium | B | mg/L | 0.0001239 | 0 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | L |
| Iron | B | mg/L | 0.0002098 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0.0002098 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | -0.0002552 | 0 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | L |
| Tin | B | mg/L | -8.11E-07 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.00002085 | 0 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|-----------|---------------|------------|---------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|---|
| 14998090 | MB-163063 | ICPMS-6020-W- | MBLK | | 1/21/2022 7:59:2 | 1 | 163063 | 1/19/2022 1: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.001822 | 0 | | 0 | 0 | 0 | 0.0038747 | 0.0031975 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 0.00001392 | 0 | | 0 | 0 | 0 | 0.0002799 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0.00001998 | 0 | | 0 | 0 | 0 | 0.0003412 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.00001236 | 0 | | 0 | 0 | 0 | 0.0002682 | 0.001 | 1 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|-----------|--------------------|-------------|-----------|---------------|------------------|----------|-----------|--------------|-----------|--------|------|-----|------|------|---|
| 14998090 | MB-163063 | ICPMS-6020-W- MBLK | | | | 1/21/2022 7:59:2 | 1 | 163063 | 1/19/2022 1: | 0 | 0 | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Beryllium | A | mg/L | -0.00003736 | 0 | | 0 | 0 | 0 | 0.0001071 | 0.01 | 1 | 0% | 0 | 0 | 0% | |
| Boron | A | mg/L | 0.001124 | 0 | | 0 | 0 | 0 | 0.0203802 | 0.01467 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 2.05E-08 | 0 | | 0 | 0 | 0 | 1.821E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | |
| Calcium | A | mg/L | 0.03579 | 0 | | 0 | 0 | 0 | 0.0372936 | 0.1103481 | 50 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 0.000000717 | 0 | | 0 | 0 | 0 | 2.738E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0.00006561 | 0 | | 0 | 0 | 0 | 0.0015375 | 0.0015375 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0.00009103 | 0 | | 0 | 0 | 0 | 9.541E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0.0001901 | 0 | | 0 | 0 | 0 | 0.0008747 | 0.00198 | 1 | 0% | 0 | 0 | 0% | |
| Iron | A | mg/L | 0.001119 | 0 | | 0 | 0 | 0 | 0.007424 | 0.00513 | 5 | 0% | 0 | 0 | 0% | |
| Lanthanum | A | mg/L | -4.713E-08 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00004518 | 0 | | 0 | 0 | 0 | 7.716E-05 | 0.0005 | 1 | 0% | 0 | 0 | 0% | |
| Magnesium | A | mg/L | 0.0009207 | 0 | | 0 | 0 | 0 | 0.0104254 | 0.0081522 | 50 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 0.0001296 | 0 | | 0 | 0 | 0 | 0.0005399 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.0004262 | 0.0004262 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0.000001977 | 0 | | 0 | 0 | 0 | 0.0002288 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | |
| Potassium | A | mg/L | -0.006019 | 0 | | 0 | 0 | 0 | 0.0765619 | 0.0261205 | 50 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.00001768 | 0 | | 0 | 0 | 0 | 0.0001357 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silicon | A | mg/L | 0.0212 | 0 | | 0 | 0 | 0 | 0.0422089 | 0.0053212 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -0.00006609 | 0 | | 0 | 0 | 0 | 4.281E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Sodium | A | mg/L | 0.02295 | 0 | | 0 | 0 | 0 | 0.1019461 | 0.7330269 | 50 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.00003298 | 0 | | 0 | 0 | 0 | 0.0002433 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00007001 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | 0.00004142 | 0 | | 0 | 0 | 0 | 0.0003796 | 0.00415 | 1 | 0% | 0 | 0 | 0% | |
| Tin | A | mg/L | 0.0004151 | 0 | | 0 | 0 | 0 | 0.0018932 | 0.0011175 | 0.1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.0004782 | 0 | | 0 | 0 | 0 | 0.0005733 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.000001236 | 0 | | 0 | 0 | 0 | 1.699E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | A | mg/L | -0.001483 | 0 | | 0 | 0 | 0 | 0.0039127 | 0.0021085 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | A | mg/L | 0.0001935 | 0 | | 0 | 0 | 0 | 0.0011617 | 0.0065544 | 1 | 0% | 0 | 0 | 0% | |
| Silica | C | mg/L | 0.04535104 | 0 | | 0 | 0 | 0 | 0.0902933 | 0.0113831 | 5 | 0% | 0 | 0 | 0% | |
| Silicon as SiO2 | C | mg/L | 0.04535104 | 0 | | 0 | 0 | 0 | 0.0902933 | 0.0113831 | 5 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|-----------|--------------------|------------|---------|---------------|------------------|----------|-----------|--------------|--------|--------|------|-----|------|------|---|
| 14998091 | MB-163116 | ICPMS-6020-W- MBLK | | | | 1/21/2022 8:05:3 | 1 | 163116 | 1/20/2022 1: | 0 | 0 | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|-----------|--------------------|-------------|-----------|---------------|------------------|----------|-----------|--------------|-----------|--------|------|-----|------|------|---|
| 14998091 | MB-163116 | ICPMS-6020-W- MBLK | | | | 1/21/2022 8:05:3 | 1 | 163116 | 1/20/2022 1: | 0 | 0 | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.001598 | 0 | | 0 | 0 | 0 | 0.0038747 | 0.0031975 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 0.000002878 | 0 | | 0 | 0 | 0 | 0.0002799 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | -7.995E-06 | 0 | | 0 | 0 | 0 | 0.0003412 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.0000275 | 0 | | 0 | 0 | 0 | 0.0002682 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Beryllium | A | mg/L | -0.00003843 | 0 | | 0 | 0 | 0 | 0.0001071 | 0.01 | 1 | 0% | 0 | 0 | 0% | |
| Boron | A | mg/L | 0.0006974 | 0 | | 0 | 0 | 0 | 0.0203802 | 0.01467 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | -5.223E-07 | 0 | | 0 | 0 | 0 | 1.821E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | |
| Calcium | A | mg/L | 0.01045 | 0 | | 0 | 0 | 0 | 0.0372936 | 0.1103481 | 50 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 0.000001407 | 0 | | 0 | 0 | 0 | 2.738E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0.00005231 | 0 | | 0 | 0 | 0 | 0.0015375 | 0.0015375 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0.0001202 | 0.0001202 | | 0 | 0 | 0 | 9.541E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0.0002007 | 0 | | 0 | 0 | 0 | 0.0008747 | 0.00198 | 1 | 0% | 0 | 0 | 0% | |
| Iron | A | mg/L | 0.000419 | 0 | | 0 | 0 | 0 | 0.007424 | 0.00513 | 5 | 0% | 0 | 0 | 0% | |
| Lanthanum | A | mg/L | 3.481E-07 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.0000448 | 0 | | 0 | 0 | 0 | 7.716E-05 | 0.0005 | 1 | 0% | 0 | 0 | 0% | |
| Magnesium | A | mg/L | 0.0009618 | 0 | | 0 | 0 | 0 | 0.0104254 | 0.0081522 | 50 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 0.0001126 | 0 | | 0 | 0 | 0 | 0.0005399 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.0004248 | 0.0004248 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0.00001253 | 0 | | 0 | 0 | 0 | 0.0002288 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | |
| Potassium | A | mg/L | -0.007508 | 0 | | 0 | 0 | 0 | 0.0765619 | 0.0261205 | 50 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.000005379 | 0 | | 0 | 0 | 0 | 0.0001357 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silicon | A | mg/L | 0.01756 | 0 | | 0 | 0 | 0 | 0.0422089 | 0.0053212 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -0.00006533 | 0 | | 0 | 0 | 0 | 4.281E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Sodium | A | mg/L | 0.01967 | 0 | | 0 | 0 | 0 | 0.1019461 | 0.7330269 | 50 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.000009853 | 0 | | 0 | 0 | 0 | 0.0002433 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00004269 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | 0.00001587 | 0 | | 0 | 0 | 0 | 0.0003796 | 0.00415 | 1 | 0% | 0 | 0 | 0% | |
| Tin | A | mg/L | 0.000426 | 0 | | 0 | 0 | 0 | 0.0018932 | 0.0011175 | 0.1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.000312 | 0 | | 0 | 0 | 0 | 0.0005733 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 5.096E-07 | 0 | | 0 | 0 | 0 | 1.699E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | A | mg/L | -0.001676 | 0 | | 0 | 0 | 0 | 0.0039127 | 0.0021085 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | A | mg/L | 0.0001642 | 0 | | 0 | 0 | 0 | 0.0011617 | 0.0065544 | 1 | 0% | 0 | 0 | 0% | |
| Silica | C | mg/L | 0.037564352 | 0 | | 0 | 0 | 0 | 0.0902933 | 0.0113831 | 5 | 0% | 0 | 0 | 0% | |
| Silicon as SiO2 | C | mg/L | 0.037564352 | 0 | | 0 | 0 | 0 | 0.0902933 | 0.0113831 | 5 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|-------------|--------------------|------------|-----------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|---|
| 14998092 | LCS4-163063 | ICPMS-6020-W- LCS4 | | | 1/21/2022 8:11:5 | 1 | 163063 | 1/19/2022 1: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.4537 | 0.4537 | | 0.5 | 0 | 0 | 0.0038747 | 0.0031975 | 1 | 91% | 80 | 120 | 0% | |
| Antimony | A | mg/L | 0.1003 | 0.1003 | | 0.1 | 0 | 0 | 0.0002799 | 0.001 | 0.1 | 100% | 80 | 120 | 0% | |
| Arsenic | A | mg/L | 0.09751 | 0.09751 | | 0.1 | 0 | 0 | 0.0003412 | 0.001 | 1 | 98% | 80 | 120 | 0% | |
| Barium | A | mg/L | 0.09345 | 0.09345 | | 0.1 | 0 | 0 | 0.0002682 | 0.001 | 1 | 93% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | 0.04142 | 0.04142 | | 0.05 | 0 | 0 | 0.0001071 | 0.01 | 1 | 83% | 80 | 120 | 0% | |
| Boron | A | mg/L | 0.0887 | 0.0887 | | 0.1 | 0 | 0 | 0.0203802 | 0.01467 | 1 | 89% | 80 | 120 | 0% | |
| Cadmium | A | mg/L | 0.05101 | 0.05101 | | 0.05 | 0 | 0 | 1.821E-05 | 0.005 | 1 | 102% | 80 | 120 | 0% | |
| Calcium | A | mg/L | 5.696 | 5.696 | | 5 | 0 | 0 | 0.0372936 | 0.1103481 | 50 | 114% | 80 | 120 | 0% | |
| Cerium | A | mg/L | 0.1096 | 0.1096 | | 0.1 | 0 | 0 | 2.738E-05 | 0.001 | 0.1 | 110% | 80 | 120 | 0% | |
| Chromium | A | mg/L | 0.09602 | 0.09602 | | 0.1 | 0 | 0 | 0.0015375 | 0.0015375 | 1 | 96% | 80 | 120 | 0% | |
| Cobalt | A | mg/L | 0.09954 | 0.09954 | | 0.1 | 0 | 0 | 9.541E-05 | 0.001 | 1 | 100% | 80 | 120 | 0% | |
| Copper | A | mg/L | 0.1015 | 0.1015 | | 0.1 | 0 | 0 | 0.0008747 | 0.00198 | 1 | 101% | 80 | 120 | 0% | |
| Iron | A | mg/L | 0.6022 | 0.6022 | | 0.5 | 0 | 0 | 0.007424 | 0.00513 | 5 | 120% | 80 | 120 | 0% | |
| Lanthanum | A | mg/L | 0.1076 | 0.1076 | | 0.1 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 108% | 80 | 120 | 0% | |
| Lead | A | mg/L | 0.1013 | 0.1013 | | 0.1 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 101% | 88 | 115 | 0% | |
| Magnesium | A | mg/L | 4.951 | 4.951 | | 5 | 0 | 0 | 0.0104254 | 0.0081522 | 50 | 99% | 80 | 120 | 0% | |
| Manganese | A | mg/L | 0.488 | 0.488 | | 0.5 | 0 | 0 | 0.0005399 | 0.001 | 1 | 98% | 80 | 120 | 0% | |
| Molybdenum | A | mg/L | 0.0942 | 0.0942 | | 0.1 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 94% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.09914 | 0.09914 | | 0.1 | 0 | 0 | 0.0002288 | 0.0024200 | 1 | 99% | 80 | 120 | 0% | |
| Potassium | A | mg/L | 4.564 | 4.564 | | 5 | 0 | 0 | 0.0765619 | 0.0261205 | 50 | 91% | 80 | 120 | 0% | |
| Selenium | A | mg/L | 0.1174 | 0.1174 | | 0.1 | 0 | 0 | 0.0001357 | 0.001 | 1 | 117% | 80 | 120 | 0% | |
| Silicon | A | mg/L | 1.251 | 1.251 | | 1 | 0 | 0 | 0.0422089 | 0.0053212 | 0.4 | 125% | 80 | 120 | 0% | S |
| Silver | A | mg/L | 0.009614 | 0.009614 | | 0.01 | 0 | 0 | 4.281E-05 | 0.001 | 0.04 | 96% | 80 | 120 | 0% | |
| Sodium | A | mg/L | 4.986 | 4.986 | | 5 | 0 | 0 | 0.1019461 | 0.7330269 | 50 | 100% | 80 | 120 | 0% | |
| Strontium | A | mg/L | 0.1031 | 0.1031 | | 0.1 | 0 | 0 | 0.0002433 | 0.001 | 1 | 103% | 80 | 120 | 0% | |
| Thallium | A | mg/L | 0.1026 | 0.1026 | | 0.1 | 0 | 0 | 0.0001114 | 0.001 | 1 | 103% | 80 | 120 | 0% | |
| Thorium | A | mg/L | 0.1018 | 0.1018 | | 0.1 | 0 | 0 | 0.0003796 | 0.00415 | 1 | 102% | 80 | 120 | 0% | |
| Tin | A | mg/L | 0.09919 | 0.09919 | | 0.1 | 0 | 0 | 0.0018932 | 0.0011175 | 0.1 | 99% | 80 | 120 | 0% | |
| Titanium | A | mg/L | 0.08756 | 0.08756 | | 0.1 | 0 | 0 | 0.0005733 | 0.001 | 1 | 88% | 80 | 120 | 0% | |
| Uranium | A | mg/L | 0.1034 | 0.1034 | | 0.1 | 0 | 0 | 1.699E-05 | 0.0003 | 1 | 103% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.09547 | 0.09547 | | 0.1 | 0 | 0 | 0.0039127 | 0.0021085 | 1 | 95% | 80 | 120 | 0% | |
| Zinc | A | mg/L | 0.09751 | 0.09751 | | 0.1 | 0 | 0 | 0.0011617 | 0.0065544 | 1 | 98% | 80 | 120 | 0% | |
| Silica | C | mg/L | 2.6761392 | 2.6761392 | | 0 | 0 | 0 | 0.0902933 | 0.0113831 | 5 | 0% | 0 | 0 | 0% | |
| Silicon as SiO2 | C | mg/L | 2.6761392 | 2.6761392 | | 2.14 | 0 | 0 | 0.0902933 | 0.0113831 | 5 | 125% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|-------------|--------------------|------------|-----------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|---|
| 14998093 | LCS4-163116 | ICPMS-6020-W- LCS4 | | | 1/21/2022 8:18:0 | 1 | 163116 | 1/20/2022 1: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.402 | 0.402 | | 0.5 | 0 | 0 | 0.0038747 | 0.0031975 | 1 | 80% | 80 | 120 | 0% | |
| Antimony | A | mg/L | 0.09856 | 0.09856 | | 0.1 | 0 | 0 | 0.0002799 | 0.001 | 0.1 | 99% | 80 | 120 | 0% | |
| Arsenic | A | mg/L | 0.1007 | 0.1007 | | 0.1 | 0 | 0 | 0.0003412 | 0.001 | 1 | 101% | 80 | 120 | 0% | |
| Barium | A | mg/L | 0.09206 | 0.09206 | | 0.1 | 0 | 0 | 0.0002682 | 0.001 | 1 | 92% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | 0.03757 | 0.03757 | | 0.05 | 0 | 0 | 0.0001071 | 0.01 | 1 | 75% | 80 | 120 | 0% | S |
| Boron | A | mg/L | 0.07989 | 0.07989 | | 0.1 | 0 | 0 | 0.0203802 | 0.01467 | 1 | 80% | 80 | 120 | 0% | |
| Cadmium | A | mg/L | 0.05154 | 0.05154 | | 0.05 | 0 | 0 | 1.821E-05 | 0.005 | 1 | 103% | 80 | 120 | 0% | |
| Calcium | A | mg/L | 5.358 | 5.358 | | 5 | 0 | 0 | 0.0372936 | 0.1103481 | 50 | 107% | 80 | 120 | 0% | |
| Cerium | A | mg/L | 0.1107 | 0.1107 | | 0.1 | 0 | 0 | 2.738E-05 | 0.001 | 0.1 | 111% | 80 | 120 | 0% | |
| Chromium | A | mg/L | 0.09835 | 0.09835 | | 0.1 | 0 | 0 | 0.0015375 | 0.0015375 | 1 | 98% | 80 | 120 | 0% | |
| Cobalt | A | mg/L | 0.09268 | 0.09268 | | 0.1 | 0 | 0 | 9.541E-05 | 0.001 | 1 | 93% | 80 | 120 | 0% | |
| Copper | A | mg/L | 0.104 | 0.104 | | 0.1 | 0 | 0 | 0.0008747 | 0.00198 | 1 | 104% | 80 | 120 | 0% | |
| Iron | A | mg/L | 0.5579 | 0.5579 | | 0.5 | 0 | 0 | 0.007424 | 0.00513 | 5 | 112% | 80 | 120 | 0% | |
| Lanthanum | A | mg/L | 0.1095 | 0.1095 | | 0.1 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 109% | 80 | 120 | 0% | |
| Lead | A | mg/L | 0.09816 | 0.09816 | | 0.1 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 98% | 88 | 115 | 0% | |
| Magnesium | A | mg/L | 4.943 | 4.943 | | 5 | 0 | 0 | 0.0104254 | 0.0081522 | 50 | 99% | 80 | 120 | 0% | |
| Manganese | A | mg/L | 0.4997 | 0.4997 | | 0.5 | 0 | 0 | 0.0005399 | 0.001 | 1 | 100% | 80 | 120 | 0% | |
| Molybdenum | A | mg/L | 0.09342 | 0.09342 | | 0.1 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 93% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.1013 | 0.1013 | | 0.1 | 0 | 0 | 0.0002288 | 0.0024200 | 1 | 101% | 80 | 120 | 0% | |
| Potassium | A | mg/L | 4.743 | 4.743 | | 5 | 0 | 0 | 0.0765619 | 0.0261205 | 50 | 95% | 80 | 120 | 0% | |
| Selenium | A | mg/L | 0.1095 | 0.1095 | | 0.1 | 0 | 0 | 0.0001357 | 0.001 | 1 | 109% | 80 | 120 | 0% | |
| Silicon | A | mg/L | 1.101 | 1.101 | | 1 | 0 | 0 | 0.0422089 | 0.0053212 | 0.4 | 110% | 80 | 120 | 0% | |
| Silver | A | mg/L | 0.009573 | 0.009573 | | 0.01 | 0 | 0 | 4.281E-05 | 0.001 | 0.04 | 96% | 80 | 120 | 0% | |
| Sodium | A | mg/L | 4.936 | 4.936 | | 5 | 0 | 0 | 0.1019461 | 0.7330269 | 50 | 99% | 80 | 120 | 0% | |
| Strontium | A | mg/L | 0.106 | 0.106 | | 0.1 | 0 | 0 | 0.0002433 | 0.001 | 1 | 106% | 80 | 120 | 0% | |
| Thallium | A | mg/L | 0.1059 | 0.1059 | | 0.1 | 0 | 0 | 0.0001114 | 0.001 | 1 | 106% | 80 | 120 | 0% | |
| Thorium | A | mg/L | 0.1049 | 0.1049 | | 0.1 | 0 | 0 | 0.0003796 | 0.00415 | 1 | 105% | 80 | 120 | 0% | |
| Tin | A | mg/L | 0.09952 | 0.09952 | | 0.1 | 0 | 0 | 0.0018932 | 0.0011175 | 0.1 | 100% | 80 | 120 | 0% | |
| Titanium | A | mg/L | 0.08689 | 0.08689 | | 0.1 | 0 | 0 | 0.0005733 | 0.001 | 1 | 87% | 80 | 120 | 0% | |
| Uranium | A | mg/L | 0.09956 | 0.09956 | | 0.1 | 0 | 0 | 1.699E-05 | 0.0003 | 1 | 100% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.09793 | 0.09793 | | 0.1 | 0 | 0 | 0.0039127 | 0.0021085 | 1 | 98% | 80 | 120 | 0% | |
| Zinc | A | mg/L | 0.09955 | 0.09955 | | 0.1 | 0 | 0 | 0.0011617 | 0.0065544 | 1 | 100% | 80 | 120 | 0% | |
| Silica | C | mg/L | 2.3552592 | 2.3552592 | | 0 | 0 | 0 | 0.0902933 | 0.0113831 | 5 | 0% | 0 | 0 | 0% | |
| Silicon as SiO2 | C | mg/L | 2.3552592 | 2.3552592 | | 2.14 | 0 | 0 | 0.0902933 | 0.0113831 | 5 | 110% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|-------------|-----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998094 | Rinse | ICPMS-6020-W- | SAMP | | 1/21/2022 8:24:2 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.0001541 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | -0.00009479 | 0 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.000002622 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.000007312 | 0 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 6.085E-08 | 0 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | -0.00001005 | 0 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 6.296E-07 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | -8.101E-06 | 0 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00001832 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 0.0001408 | 0.0001408 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Mercury | A | mg/L | 0.000002739 | 0 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.00001692 | 0 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0.000004118 | 0 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | -1.954E-07 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -6.469E-07 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | -1.404E-06 | 0 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.000227 | 0.000227 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Thorium | A | mg/L | 0.00002163 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.00001195 | 0 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00000244 | 0 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Calcium | B | mg/L | -0.0006537 | 0 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | L |
| Iron | B | mg/L | 0.0001706 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0.0001706 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | -0.0001556 | 0 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | L |
| Tin | B | mg/L | 0.00002562 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.00006911 | 0 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|-----------|------------------|-------|----------|-----------|----------|--------|--------|------|-----|------|------|---|
| 14998095 | B22011124-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 8:30:3 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.0000231 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | -0.0001194 | 0 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.003061 | 0.003061 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.0000385 | 0.0000385 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|---------------|---------------|-------------|------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998095 | B22011124-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 8:30:3 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Cerium | A | mg/L | -4.259E-08 | 0 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0.001809 | 0.001809 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0.00003108 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0.0002981 | 0.0002981 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lead | A | mg/L | 0.00001097 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Manganese | A | mg/L | 0.0004958 | 0.0004958 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Mercury | A | mg/L | 0.00000635 | 0 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.0004954 | 0.0004954 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Nickel | A | mg/L | 0.001756 | 0.001756 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.0001444 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -0.00006192 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.06572 | 0.06572 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00009305 | 0.00009305 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Thorium | A | mg/L | -2.214E-06 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.001801 | 0.001801 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.000009692 | 0 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Calcium | B | mg/L | 9.723 | 9.723 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | D |
| Iron | B | mg/L | 0.001158 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0.001158 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | 10.95 | 10.95 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | D |
| Sodium | B | mg/L | 36.85 | 36.85 | | 0 | 0 | 0 | 0.02171 | 0.02171 | 50 | 0% | 0 | 0 | 0% | D |
| Tin | B | mg/L | -0.0000779 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.004587 | 0.004587 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | D |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|---------------|---------------|-------------|-----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998096 | B22011124-001 | ICPMS-6020-W- | SD | | 1/21/2022 8:36:5 | 5 | R373694 | | 0 | 1E+07 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.001441 | 0.007205 | | 0 | 0 | 0.0014 | 0.0043 | 0.0043 | 1 | 0% | | | | N |
| Antimony | A | mg/L | 0.000008366 | 0 | | 0 | 0 | 0 | 0.0021 | 0.0021 | 0.1 | 0% | | | | |
| Arsenic | A | mg/L | -0.0001162 | 0 | | 0 | 0 | 0 | 0.00095 | 0.001 | 1 | 0% | | | | |
| Barium | A | mg/L | 0.003128 | 0.01564 | | 0 | 0 | 0.003061 | 0.00021 | 0.001 | 1 | 0% | | | 135% | R |
| Beryllium | A | mg/L | -0.0000364 | 0 | | 0 | 0 | 0 | 0.0006 | 0.001 | 1 | 0% | | | | |
| Boron | A | mg/L | 0.0593 | 0.2965 | | 0 | 0 | 0.05841 | 0.02805 | 0.02805 | 1 | 0% | | | | N |
| Cadmium | A | mg/L | 0.00003872 | 0.0001936 | | 0 | 0 | 0.0000385 | 0.000125 | 0.001 | 1 | 0% | | | | N |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|---------------|------------------|-------------|-----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998096 | B22011124-001 | ICPMS-6020-W- SD | | | 1/21/2022 8:36:5 | 5 | R373694 | | 0 | 1E+07 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Calcium | A | mg/L | 9.848 | 49.24 | | 0 | 0 | 9.723 | 0.1046 | 0.1046 | 50 | 0% | | | 134% | R |
| Cerium | A | mg/L | 0.000001027 | 0 | | 0 | 0 | 0 | 0.00006 | 0.001 | 0.1 | 0% | | | | |
| Chromium | A | mg/L | 0.001727 | 0.008635 | | 0 | 0 | 0.001809 | 0.0009 | 0.001 | 1 | 0% | | | | N |
| Cobalt | A | mg/L | 0.00003126 | 0 | | 0 | 0 | 0 | 0.00021 | 0.001 | 1 | 0% | | | | |
| Copper | A | mg/L | 0.0003097 | 0.0015485 | | 0 | 0 | 0.0002981 | 0.00135 | 0.00135 | 1 | 0% | | | | N |
| Iron | A | mg/L | 0.001167 | 0 | | 0 | 0 | 0 | 0.00595 | 0.00595 | 5 | 0% | | | | |
| Lanthanum | A | mg/L | -7.459E-08 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | | | | |
| Lead | A | mg/L | 0.00001086 | 0 | | 0 | 0 | 0 | 0.00028 | 0.001 | 1 | 0% | | | | |
| Magnesium | A | mg/L | 10.57 | 52.85 | | 0 | 0 | 10.95 | 0.0282 | 0.0282 | 50 | 0% | | | 131% | R |
| Manganese | A | mg/L | 0.0004773 | 0.0023865 | | 0 | 0 | 0.0004958 | 0.000475 | 0.001 | 1 | 0% | | | | N |
| Mercury | A | mg/L | 0.00000371 | 0 | | 0 | 0 | 0 | 0.0008 | 0.001 | 0.002 | 0% | | | | |
| Molybdenum | A | mg/L | 0.0004994 | 0.002497 | | 0 | 0 | 0.0004954 | 0.00025 | 0.001 | 0.1 | 0% | | | | N |
| Nickel | A | mg/L | 0.001683 | 0.008415 | | 0 | 0 | 0.001756 | 0.00315 | 0.00315 | 1 | 0% | | | | N |
| Potassium | A | mg/L | 1.897 | 9.485 | | 0 | 0 | 1.949 | 0.40695 | 0.40695 | 50 | 0% | | | | N |
| Selenium | A | mg/L | 0.0001541 | 0 | | 0 | 0 | 0 | 0.00165 | 0.00165 | 1 | 0% | | | | |
| Silicon | A | mg/L | 24.81 | 124.05 | | 0 | 0 | 24.61 | 0.06115 | 0.1 | 0.4 | 0% | | | 134% | R |
| Silver | A | mg/L | -0.00006333 | 0 | | 0 | 0 | 0 | 0.0001 | 0.001 | 0.04 | 0% | | | | |
| Sodium | A | mg/L | 36.36 | 181.8 | | 0 | 0 | 36.85 | 0.10855 | 0.10855 | 50 | 0% | | | 133% | R |
| Strontium | A | mg/L | 0.06465 | 0.32325 | | 0 | 0 | 0.06572 | 0.0007 | 0.001 | 1 | 0% | | | 132% | R |
| Thallium | A | mg/L | 0.00003703 | 0 | | 0 | 0 | 9.305E-05 | 0.000205 | 0.001 | 1 | 0% | | | | |
| Thorium | A | mg/L | -6.291E-06 | 0 | | 0 | 0 | 0 | 0.00305 | 0.00305 | 1 | 0% | | | | |
| Tin | A | mg/L | -0.00008544 | 0 | | 0 | 0 | 0 | 0.0066 | 0.0066 | 0.1 | 0% | | | | |
| Titanium | A | mg/L | 0.001843 | 0.009215 | | 0 | 0 | 0.001801 | 0.00047 | 0.001 | 1 | 0% | | | | N |
| Uranium | A | mg/L | 0.000009172 | 0 | | 0 | 0 | 0 | 0.00026 | 0.0003 | 1 | 0% | | | | |
| Vanadium | A | mg/L | 0.01712 | 0.0856 | | 0 | 0 | 0.01726 | 0.0065 | 0.0065 | 1 | 0% | | | | N |
| Zinc | A | mg/L | 0.00458 | 0.0229 | | 0 | 0 | 0.004587 | 0.01365 | 0.01365 | 1 | 0% | | | | N |
| Iron, Ferrous | C | mg/L | 0.001167 | 0 | | 0 | 0 | 0 | 0.00595 | 0.00595 | 5 | 0% | | | | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|------------------|------------|-----------|------------------|-------|----------|-----------|-----------|--------|--------|------|-----|------|------|---|
| 14998097 | B22011124-001 | ICPMS-6020-W- MS | | | 1/21/2022 8:43:0 | 1.03 | R373694 | | 1E+07 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0455 | 0.046865 | | 0.05 | 0.0014 | 0 | 0.0008858 | 0.001 | 1 | 91% | 75 | 125 | 0% | |
| Antimony | A | mg/L | 0.04762 | 0.0490486 | | 0.05 | 0 | 0 | 0.0004326 | 0.001 | 0.1 | 98% | 75 | 125 | 0% | |
| Arsenic | A | mg/L | 0.04836 | 0.0498108 | | 0.05 | 0 | 0 | 0.0001957 | 0.001 | 1 | 100% | 75 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|---------------|------------------|-------------|-------------|------------------|-------|-----------|-----------|-----------|-----------|--------|------|-----|------|------|----|
| 14998097 | B22011124-001 | ICPMS-6020-W- MS | | | 1/21/2022 8:43:0 | 1.03 | R373694 | | 1E+07 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Barium | A | mg/L | 0.05069 | 0.0522107 | | 0.05 | 0.003061 | 0 | 4.326E-05 | 0.001 | 1 | 98% | 75 | 125 | 0% | |
| Beryllium | A | mg/L | 0.04392 | 0.0452376 | | 0.05 | 0 | 0 | 0.0001236 | 0.001 | 1 | 90% | 75 | 125 | 0% | |
| Boron | A | mg/L | 0.09776 | 0.1006928 | | 0.05 | 0.05841 | 0 | 0.0057783 | 0.0057783 | 1 | 85% | 75 | 125 | 0% | |
| Cadmium | A | mg/L | 0.04941 | 0.0508923 | | 0.05 | 0.0000385 | 0 | 2.575E-05 | 0.001 | 1 | 102% | 75 | 125 | 0% | |
| Calcium | A | mg/L | 9.325 | 9.60475 | | 50 | 9.723 | 0 | 0.0215476 | 0.0215476 | 50 | 0% | 75 | 125 | 0% | S |
| Cerium | A | mg/L | 0.04966 | 0.0511498 | | 0.05 | 0 | 0 | 1.236E-05 | 0.001 | 0.1 | 102% | 75 | 125 | 0% | |
| Chromium | A | mg/L | 0.04958 | 0.0510674 | | 0.05 | 0.001809 | 0 | 0.0001854 | 0.001 | 1 | 99% | 75 | 125 | 0% | |
| Cobalt | A | mg/L | 0.04835 | 0.0498005 | | 0.05 | 0 | 0 | 4.326E-05 | 0.001 | 1 | 100% | 75 | 125 | 0% | |
| Copper | A | mg/L | 0.05026 | 0.0517678 | | 0.05 | 0.0002981 | 0 | 0.0002781 | 0.001 | 1 | 103% | 75 | 125 | 0% | |
| Iron | A | mg/L | 0.05176 | 0.0533128 | | 5.05 | 0 | 0 | 0.0012257 | 0.0012257 | 5 | 1% | 75 | 125 | 0% | S |
| Lanthanum | A | mg/L | 0.000001721 | 0 | | 0.05 | 0 | 0 | 1.133E-05 | 0.001 | 0.1 | 0% | 75 | 125 | 0% | S |
| Lead | A | mg/L | 0.04796 | 0.0493988 | | 0.05 | 0 | 0 | 5.768E-05 | 0.001 | 1 | 99% | 88 | 115 | 0% | |
| Magnesium | A | mg/L | 10.72 | 11.0416 | | 50 | 10.95 | 0 | 0.0058092 | 0.0058092 | 50 | 0% | 75 | 125 | 0% | S |
| Manganese | A | mg/L | 0.04956 | 0.0510468 | | 0.05 | 0.0004958 | 0 | 9.785E-05 | 0.001 | 1 | 101% | 75 | 125 | 0% | |
| Mercury | A | mg/L | 0.0009467 | 0.000975101 | | 0.001 | 0 | 0 | 0.0001648 | 0.001 | 0.002 | 98% | 75 | 125 | 0% | |
| Molybdenum | A | mg/L | 0.04663 | 0.0480289 | | 0.05 | 0.0004954 | 0 | 0.0000515 | 0.001 | 0.1 | 95% | 75 | 125 | 0% | |
| Nickel | A | mg/L | 0.05053 | 0.0520459 | | 0.05 | 0.001756 | 0 | 0.0006489 | 0.001 | 1 | 101% | 75 | 125 | 0% | |
| Potassium | A | mg/L | 1.908 | 1.96524 | | 50 | 1.949 | 0 | 0.0838317 | 0.0838317 | 50 | 0% | 75 | 125 | 0% | S |
| Selenium | A | mg/L | 0.05011 | 0.0516133 | | 0.05 | 0 | 0 | 0.0003399 | 0.001 | 1 | 103% | 75 | 125 | 0% | |
| Silicon | A | mg/L | 23.89 | 24.6067 | | 0.2 | 24.61 | 0 | 0.0125969 | 0.1 | 0.4 | | 75 | 125 | 0% | AE |
| Silver | A | mg/L | 0.0193 | 0.019879 | | 0.02 | 0 | 0 | 0.0000206 | 0.001 | 0.04 | 99% | 75 | 125 | 0% | |
| Sodium | A | mg/L | 35.72 | 36.7916 | | 50 | 36.85 | 0 | 0.0223613 | 0.0223613 | 50 | 0% | 75 | 125 | 0% | S |
| Strontium | A | mg/L | 0.1135 | 0.116905 | | 0.05 | 0.06572 | 0 | 0.0001442 | 0.001 | 1 | 102% | 75 | 125 | 0% | |
| Thallium | A | mg/L | 0.04809 | 0.0495327 | | 0.05 | 9.305E-05 | 0 | 4.223E-05 | 0.001 | 1 | 99% | 75 | 125 | 0% | |
| Thorium | A | mg/L | 0.04669 | 0.0480907 | | 0.05 | 0 | 0 | 0.0006283 | 0.001 | 1 | 96% | 75 | 125 | 0% | |
| Tin | A | mg/L | 0.0439 | 0.045217 | | 0.05 | 0 | 0 | 0.0013596 | 0.0013596 | 0.1 | 90% | 75 | 125 | 0% | |
| Titanium | A | mg/L | 0.04723 | 0.0486469 | | 0.05 | 0.001801 | 0 | 9.682E-05 | 0.001 | 1 | 94% | 75 | 125 | 0% | |
| Uranium | A | mg/L | 0.04749 | 0.0489147 | | 0.05 | 0 | 0 | 5.356E-05 | 0.0003 | 1 | 98% | 75 | 125 | 0% | |
| Vanadium | A | mg/L | 0.06656 | 0.0685568 | | 0.05 | 0.01726 | 0 | 0.001339 | 0.001339 | 1 | 103% | 75 | 125 | 0% | |
| Zinc | A | mg/L | 0.05509 | 0.0567427 | | 0.05 | 0.004587 | 0 | 0.0028119 | 0.0028119 | 1 | 104% | 75 | 125 | 0% | |
| Iron, Ferrous | C | mg/L | 0.05176 | 0.0533128 | | 0 | 0 | 0 | 0.0012257 | 0.0012257 | 5 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|---------------|-------------------|-------------|-------------|------------------|-------|-----------|-----------|-----------|-----------|--------|------|-----|------|------|----|
| 14998098 | B22011124-001 | ICPMS-6020-W- MSD | | | 1/21/2022 8:49:1 | 1.03 | R373694 | | 1E+07 | 1E+07 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.04822 | 0.0496666 | | 0.05 | 0.0014 | 0.046865 | 0.0008858 | 0.001 | 1 | 97% | 75 | 125 | 6% | |
| Antimony | A | mg/L | 0.04786 | 0.0492958 | | 0.05 | 0 | 0.0490486 | 0.0004326 | 0.001 | 0.1 | 99% | 75 | 125 | 1% | |
| Arsenic | A | mg/L | 0.04817 | 0.0496151 | | 0.05 | 0 | 0.0498108 | 0.0001957 | 0.001 | 1 | 99% | 75 | 125 | 0% | |
| Barium | A | mg/L | 0.05237 | 0.0539411 | | 0.05 | 0.003061 | 0.0522107 | 4.326E-05 | 0.001 | 1 | 102% | 75 | 125 | 3% | |
| Beryllium | A | mg/L | 0.04867 | 0.0501301 | | 0.05 | 0 | 0.0452376 | 0.0001236 | 0.001 | 1 | 100% | 75 | 125 | 10% | |
| Boron | A | mg/L | 0.1074 | 0.110622 | | 0.05 | 0.05841 | 0.1006928 | 0.0057783 | 0.0057783 | 1 | 104% | 75 | 125 | 9% | |
| Cadmium | A | mg/L | 0.04987 | 0.0513661 | | 0.05 | 0.0000385 | 0.0508923 | 2.575E-05 | 0.001 | 1 | 103% | 75 | 125 | 1% | |
| Calcium | A | mg/L | 9.245 | 9.52235 | | 50 | 9.723 | 9.60475 | 0.0215476 | 0.0215476 | 50 | 0% | 75 | 125 | 1% | S |
| Cerium | A | mg/L | 0.05002 | 0.0515206 | | 0.05 | 0 | 0.0511498 | 1.236E-05 | 0.001 | 0.1 | 103% | 75 | 125 | 1% | |
| Chromium | A | mg/L | 0.0498 | 0.051294 | | 0.05 | 0.001809 | 0.0510674 | 0.0001854 | 0.001 | 1 | 99% | 75 | 125 | 0% | |
| Cobalt | A | mg/L | 0.04895 | 0.0504185 | | 0.05 | 0 | 0.0498005 | 4.326E-05 | 0.001 | 1 | 101% | 75 | 125 | 1% | |
| Copper | A | mg/L | 0.04993 | 0.0514279 | | 0.05 | 0.0002981 | 0.0517678 | 0.0002781 | 0.001 | 1 | 102% | 75 | 125 | 1% | |
| Iron | A | mg/L | 0.05155 | 0.0530965 | | 5.05 | 0 | 0.0533128 | 0.0012257 | 0.0012257 | 5 | 1% | 75 | 125 | 0% | S |
| Lanthanum | A | mg/L | 0.000001304 | 0 | | 0.05 | 0 | 0 | 1.133E-05 | 0.001 | 0.1 | 0% | 75 | 125 | | S |
| Lead | A | mg/L | 0.04811 | 0.0495533 | | 0.05 | 0 | 0.0493988 | 5.768E-05 | 0.001 | 1 | 99% | 88 | 115 | 0% | |
| Magnesium | A | mg/L | 10.38 | 10.6914 | | 50 | 10.95 | 11.0416 | 0.0058092 | 0.0058092 | 50 | -1% | 75 | 125 | 3% | S |
| Manganese | A | mg/L | 0.04858 | 0.0500374 | | 0.05 | 0.0004958 | 0.0510468 | 9.785E-05 | 0.001 | 1 | 99% | 75 | 125 | 2% | |
| Mercury | A | mg/L | 0.0009434 | 0.000971702 | | 0.001 | 0 | 0.0009751 | 0.0001648 | 0.001 | 0.002 | 97% | 75 | 125 | | |
| Molybdenum | A | mg/L | 0.04687 | 0.0482761 | | 0.05 | 0.0004954 | 0.0480289 | 0.0000515 | 0.001 | 0.1 | 96% | 75 | 125 | 1% | |
| Nickel | A | mg/L | 0.05028 | 0.0517884 | | 0.05 | 0.001756 | 0.0520459 | 0.0006489 | 0.001 | 1 | 100% | 75 | 125 | 0% | |
| Potassium | A | mg/L | 1.872 | 1.92816 | | 50 | 1.949 | 1.96524 | 0.0838317 | 0.0838317 | 50 | 0% | 75 | 125 | 2% | S |
| Selenium | A | mg/L | 0.04969 | 0.0511807 | | 0.05 | 0 | 0.0516133 | 0.0003399 | 0.001 | 1 | 102% | 75 | 125 | 1% | |
| Silicon | A | mg/L | 24.47 | 25.2041 | | 0.2 | 24.61 | 24.6067 | 0.0125969 | 0.1 | 0.4 | | 75 | 125 | 2% | AE |
| Silver | A | mg/L | 0.0194 | 0.019982 | | 0.02 | 0 | 0.019879 | 0.0000206 | 0.001 | 0.04 | 100% | 75 | 125 | 1% | |
| Sodium | A | mg/L | 35.82 | 36.8946 | | 50 | 36.85 | 36.7916 | 0.0223613 | 0.0223613 | 50 | 0% | 75 | 125 | 0% | S |
| Strontium | A | mg/L | 0.1119 | 0.115257 | | 0.05 | 0.06572 | 0.116905 | 0.0001442 | 0.001 | 1 | 99% | 75 | 125 | 1% | |
| Thallium | A | mg/L | 0.04867 | 0.0501301 | | 0.05 | 9.305E-05 | 0.0495327 | 4.223E-05 | 0.001 | 1 | 100% | 75 | 125 | 1% | |
| Thorium | A | mg/L | 0.04631 | 0.0476993 | | 0.05 | 0 | 0.0480907 | 0.0006283 | 0.001 | 1 | 95% | 75 | 125 | 1% | |
| Tin | A | mg/L | 0.04544 | 0.0468032 | | 0.05 | 0 | 0.045217 | 0.0013596 | 0.0013596 | 0.1 | 94% | 75 | 125 | 3% | |
| Titanium | A | mg/L | 0.04718 | 0.0485954 | | 0.05 | 0.001801 | 0.0486469 | 9.682E-05 | 0.001 | 1 | 94% | 75 | 125 | 0% | |
| Uranium | A | mg/L | 0.04764 | 0.0490692 | | 0.05 | 0 | 0.0489147 | 5.356E-05 | 0.0003 | 1 | 98% | 75 | 125 | 0% | |
| Vanadium | A | mg/L | 0.06535 | 0.0673105 | | 0.05 | 0.01726 | 0.0685568 | 0.001339 | 0.001339 | 1 | 100% | 75 | 125 | 2% | |
| Zinc | A | mg/L | 0.05399 | 0.0556097 | | 0.05 | 0.004587 | 0.0567427 | 0.0028119 | 0.0028119 | 1 | 102% | 75 | 125 | 2% | |
| Iron, Ferrous | C | mg/L | 0.05155 | 0.0530965 | | 0 | 0 | 0.0533128 | 0.0012257 | 0.0012257 | 5 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|-------------|------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998099 | Rinse | ICPMS-6020-W- | SAMP | | 1/21/2022 8:55:3 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.0001252 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | -0.00003828 | 0 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.000001763 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.000008458 | 0 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 6.671E-07 | 0 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0.00002542 | 0 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0.000003293 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | -0.00001955 | 0 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.000008772 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 0.0001423 | 0.0001423 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Mercury | A | mg/L | 0.00001045 | 0 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.00008399 | 0.00008399 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Nickel | A | mg/L | 0.000001254 | 0 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.00001192 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 4.236E-07 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | -4.289E-06 | 0 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.0000921 | 0.0000921 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Thorium | A | mg/L | 0.00006281 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.00001551 | 0 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.000005677 | 0 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Calcium | B | mg/L | -0.0008198 | 0 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | L |
| Iron | B | mg/L | 0.0001346 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0.0001346 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | 0.0002666 | 0 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | L |
| Tin | B | mg/L | 0.0003834 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.00000872 | 0 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|--------------|-----------|--------|--------|------|-----|------|------|---|
| 14998100 | B22011124-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 9:01:4 | 1 | 163063 | 1/19/2022 2: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.00007826 | 0 | | 0 | 0 | 0 | 0.0002799 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Arsenic | A | mg/L | 0.0001823 | 0 | | 0 | 0 | 0 | 0.0003412 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Barium | A | mg/L | 0.00359 | 0.00359 | | 0 | 0 | 0 | 0.0002682 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | -1.146E-06 | 0 | | 0 | 0 | 0 | 1.821E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | U |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|---------------|---------------|-------------|-----------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|----|
| 14998100 | B22011124-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 9:01:4 | 1 | 163063 | 1/19/2022 2: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Cerium | A | mg/L | 0.000004107 | 0 | | 0 | 0 | 0 | 2.738E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Cobalt | A | mg/L | 0.0001341 | 0.0001341 | | 0 | 0 | 0 | 9.541E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lanthanum | A | mg/L | 8.622E-07 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Lead | A | mg/L | 0.00007028 | 0 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Manganese | A | mg/L | 0.001292 | 0.001292 | | 0 | 0 | 0 | 0.0005399 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.001922 | 0.001922 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.0002152 | 0.0002152 | | 0 | 0 | 0 | 0.0001357 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Silver | A | mg/L | -0.00006126 | 0 | | 0 | 0 | 0 | 4.281E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Strontium | A | mg/L | 0.06807 | 0.06807 | | 0 | 0 | 0 | 0.0002433 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00006973 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Titanium | A | mg/L | 0.001994 | 0.001994 | | 0 | 0 | 0 | 0.0005733 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00001403 | 0 | | 0 | 0 | 0 | 1.699E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | U |
| Calcium | B | mg/L | 9.449 | 9.449 | | 0 | 0 | 0 | 0.0372936 | 0.1103481 | 50 | 0% | 0 | 0 | 0% | D |
| Chromium | B | mg/L | 0.00223 | 0.00223 | | 0 | 0 | 0 | 0.0015375 | 0.0015375 | 1 | 0% | 0 | 0 | 0% | UD |
| Copper | B | mg/L | 0.0003667 | 0 | | 0 | 0 | 0 | 0.0008747 | 0.00198 | 1 | 0% | 0 | 0 | 0% | UL |
| Iron | B | mg/L | 0.01605 | 0.01605 | | 0 | 0 | 0 | 0.007424 | 0.00513 | 5 | 0% | 0 | 0 | 0% | UD |
| Magnesium | B | mg/L | 10.49 | 10.49 | | 0 | 0 | 0 | 0.0104254 | 0.0081522 | 50 | 0% | 0 | 0 | 0% | D |
| Nickel | B | mg/L | 0.001935 | 0.001935 | | 0 | 0 | 0 | 0.0002288 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | JL |
| Sodium | B | mg/L | 37.99 | 37.99 | | 0 | 0 | 0 | 0.1019461 | 0.7330269 | 50 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | 0.00009462 | 0 | | 0 | 0 | 0 | 0.0003796 | 0.00415 | 1 | 0% | 0 | 0 | 0% | UL |
| Tin | B | mg/L | 0.0008274 | 0 | | 0 | 0 | 0 | 0.0018932 | 0.0011175 | 0.1 | 0% | 0 | 0 | 0% | U |
| Vanadium | B | mg/L | 0.02148 | 0.02148 | | 0 | 0 | 0 | 0.0039127 | 0.0021085 | 1 | 0% | 0 | 0 | 0% | D |
| Zinc | B | mg/L | 0.005856 | 0.005856 | | 0 | 0 | 0 | 0.0011617 | 0.0065544 | 1 | 0% | 0 | 0 | 0% | JL |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|---------------|---------------|-------------|-----------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|---|
| 14998101 | B22011124-001 | ICPMS-6020-W- | SD | | 1/21/2022 9:08:0 | 5 | 163063 | 1/19/2022 2: | 0 | 1E+07 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.001378 | 0 | | 0 | 0 | 0.005018 | 0.0193736 | 0.0159875 | 1 | 0% | 0 | 0 | | |
| Antimony | A | mg/L | 0.00001286 | 0 | | 0 | 0 | 0 | 0.0013997 | 0.0049 | 0.1 | 0% | 0 | 0 | | |
| Arsenic | A | mg/L | -0.00001687 | 0 | | 0 | 0 | 0 | 0.0017061 | 0.0013383 | 1 | 0% | 0 | 0 | | |
| Barium | A | mg/L | 0.0006541 | 0.0032705 | | 0 | 0 | 0.00359 | 0.0013411 | 0.0012039 | 1 | 0% | 0 | 0 | | N |
| Beryllium | A | mg/L | -0.0000423 | 0 | | 0 | 0 | 0 | 0.0005353 | 0.01 | 1 | 0% | 0 | 0 | | |
| Boron | A | mg/L | 0.01059 | 0 | | 0 | 0 | 0.05482 | 0.1019008 | 0.07335 | 1 | 0% | 0 | 0 | | |
| Cadmium | A | mg/L | 0.000001671 | 0 | | 0 | 0 | 0 | 9.105E-05 | 0.005 | 1 | 0% | 0 | 0 | | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|---------------|------------------|-------------|-----------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|---|
| 14998101 | B22011124-001 | ICPMS-6020-W- SD | | | 1/21/2022 9:08:0 | 5 | 163063 | 1/19/2022 2: | 0 | 1E+07 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Calcium | A | mg/L | 1.826 | 9.13 | | 0 | 0 | 9.449 | 0.1864681 | 0.5517403 | 50 | 0% | 0 | 0 | 3% | |
| Cerium | A | mg/L | 8.874E-07 | 0 | | 0 | 0 | 0 | 0.0001369 | 0.001 | 0.1 | 0% | 0 | 0 | | |
| Chromium | A | mg/L | 0.0004859 | 0 | | 0 | 0 | 0.00223 | 0.0076875 | 0.0076875 | 1 | 0% | 0 | 0 | | |
| Cobalt | A | mg/L | 0.00002453 | 0 | | 0 | 0 | 0.0001341 | 0.0004771 | 0.001 | 1 | 0% | 0 | 0 | | |
| Copper | A | mg/L | 0.0003059 | 0 | | 0 | 0 | 0 | 0.0043735 | 0.0099 | 1 | 0% | 0 | 0 | | |
| Iron | A | mg/L | 0.003216 | 0 | | 0 | 0 | 0.01605 | 0.0371198 | 0.02565 | 5 | 0% | 0 | 0 | | |
| Lanthanum | A | mg/L | 1.328E-07 | 0 | | 0 | 0 | 0 | 0.000275 | 0.001 | 0.1 | 0% | 0 | 0 | | |
| Lead | A | mg/L | 0.00003256 | 0 | | 0 | 0 | 0 | 0.0003858 | 0.001 | 1 | 0% | 0 | 0 | | |
| Magnesium | A | mg/L | 2.082 | 10.41 | | 0 | 0 | 10.49 | 0.0521269 | 0.0407608 | 50 | 0% | 0 | 0 | 1% | |
| Manganese | A | mg/L | 0.0002714 | 0 | | 0 | 0 | 0.001292 | 0.0026994 | 0.0010695 | 1 | 0% | 0 | 0 | | |
| Molybdenum | A | mg/L | 0.0003526 | 0.001763 | | 0 | 0 | 0.001922 | 0.0008814 | 0.001 | 0.1 | 0% | 0 | 0 | | N |
| Nickel | A | mg/L | 0.000445 | 0.002225 | | 0 | 0 | 0.001935 | 0.0011441 | 0.0121000 | 1 | 0% | 0 | 0 | | N |
| Potassium | A | mg/L | 0.3199 | 1.5995 | | 0 | 0 | 1.709 | 0.3828097 | 0.1306027 | 50 | 0% | 0 | 0 | | N |
| Selenium | A | mg/L | 0.00003401 | 0 | | 0 | 0 | 0.0002152 | 0.0006787 | 0.0029274 | 1 | 0% | 0 | 0 | | |
| Silicon | A | mg/L | 4.731 | 23.655 | | 0 | 0 | 23.63 | 0.2110446 | 0.026606 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -0.00006531 | 0 | | 0 | 0 | 0 | 0.0002141 | 0.001 | 0.04 | 0% | 0 | 0 | | |
| Sodium | A | mg/L | 7.331 | 36.655 | | 0 | 0 | 37.99 | 0.5097304 | 3.6651346 | 50 | 0% | 0 | 0 | 4% | |
| Strontium | A | mg/L | 0.0135 | 0.0675 | | 0 | 0 | 0.06807 | 0.0012164 | 0.001 | 1 | 0% | 0 | 0 | 1% | |
| Thallium | A | mg/L | 0.00001115 | 0 | | 0 | 0 | 0 | 0.0005569 | 0.001 | 1 | 0% | 0 | 0 | | |
| Thorium | A | mg/L | 0.000007756 | 0 | | 0 | 0 | 0 | 0.0018981 | 0.02075 | 1 | 0% | 0 | 0 | | |
| Tin | A | mg/L | 0.0001427 | 0 | | 0 | 0 | 0 | 0.0094659 | 0.0055874 | 0.1 | 0% | 0 | 0 | | |
| Titanium | A | mg/L | 0.000412 | 0 | | 0 | 0 | 0.001994 | 0.0028666 | 0.001 | 1 | 0% | 0 | 0 | | |
| Uranium | A | mg/L | 0.000002203 | 0 | | 0 | 0 | 0 | 8.495E-05 | 0.0004224 | 1 | 0% | 0 | 0 | | |
| Vanadium | A | mg/L | 0.004067 | 0.020335 | | 0 | 0 | 0.02148 | 0.0195637 | 0.0105423 | 1 | 0% | 0 | 0 | | N |
| Zinc | A | mg/L | 0.001694 | 0.00847 | | 0 | 0 | 0.005856 | 0.0058087 | 0.0327721 | 1 | 0% | 0 | 0 | | N |
| Silica | C | mg/L | 10.1205552 | 50.602776 | | 0 | 0 | 0 | 0.4514666 | 0.0569155 | 5 | 0% | 0 | 0 | | N |
| Silicon as SiO2 | C | mg/L | 10.1205552 | 50.602776 | | 0 | 0 | 0 | 0.4514666 | 0.0569155 | 5 | 0% | 0 | 0 | | N |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|--------|-------------------|------------|---------|------------------|-------|----------|-----------|---------|--------|--------|------|-----|------|------|---|
| 14998102 | CCV | ICPMS-6020-W- CCV | | | 1/21/2022 9:14:1 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.05165 | 0.05165 | | 0.05 | 0 | 0 | 0.00086 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.05463 | 0.05463 | | 0.05 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 109% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.05063 | 0.05063 | | 0.05 | 0 | 0 | 0.00019 | 0.001 | 1 | 101% | 90 | 110 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|------------|----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998102 | CCV | ICPMS-6020-W- | CCV | | 1/21/2022 9:14:1 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Barium | A | mg/L | 0.05192 | 0.05192 | | 0.05 | 0 | 0 | 0.000042 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.03782 | 0.03782 | | 0.05 | 0 | 0 | 0.00012 | 0.001 | 1 | 76% | 90 | 110 | 0% | S |
| Boron | A | mg/L | 0.03888 | 0.03888 | | 0.05 | 0 | 0 | 0.00561 | 0.00561 | 1 | 78% | 90 | 110 | 0% | S |
| Cadmium | A | mg/L | 0.05214 | 0.05214 | | 0.05 | 0 | 0 | 0.000025 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 11.63 | 11.63 | | 12.5 | 0 | 0 | 0.02092 | 0.02092 | 50 | 93% | 90 | 110 | 0% | |
| Cerium | A | mg/L | 0.05311 | 0.05311 | | 0.05 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 106% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.04825 | 0.04825 | | 0.05 | 0 | 0 | 0.00018 | 0.001 | 1 | 96% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.04819 | 0.04819 | | 0.05 | 0 | 0 | 0.000042 | 0.001 | 1 | 96% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.05255 | 0.05255 | | 0.05 | 0 | 0 | 0.00027 | 0.001 | 1 | 105% | 90 | 110 | 0% | |
| Iron | A | mg/L | 1.298 | 1.298 | | 1.3 | 0 | 0 | 0.00119 | 0.00119 | 5 | 100% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.05238 | 0.05238 | | 0.05 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 105% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.05076 | 0.05076 | | 0.05 | 0 | 0 | 0.000056 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 11.36 | 11.36 | | 12.5 | 0 | 0 | 0.00564 | 0.00564 | 50 | 91% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.04942 | 0.04942 | | 0.05 | 0 | 0 | 0.000095 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.001018 | 0.001018 | | 0.001 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 102% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.05113 | 0.05113 | | 0.05 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 102% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.05081 | 0.05081 | | 0.05 | 0 | 0 | 0.00063 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 11.05 | 11.05 | | 12.5 | 0 | 0 | 0.08139 | 0.08139 | 50 | 88% | 90 | 110 | 0% | S |
| Selenium | A | mg/L | 0.05108 | 0.05108 | | 0.05 | 0 | 0 | 0.00033 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.2145 | 0.2145 | | 0.2 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 107% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.02028 | 0.02028 | | 0.02 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 101% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 11.83 | 11.83 | | 12.5 | 0 | 0 | 0.02171 | 0.02171 | 50 | 95% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.05248 | 0.05248 | | 0.05 | 0 | 0 | 0.00014 | 0.001 | 1 | 105% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.05081 | 0.05081 | | 0.05 | 0 | 0 | 0.000041 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.05043 | 0.05043 | | 0.05 | 0 | 0 | 0.00061 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.05351 | 0.05351 | | 0.05 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 107% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.04587 | 0.04587 | | 0.05 | 0 | 0 | 0.000094 | 0.001 | 1 | 92% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.05176 | 0.05176 | | 0.05 | 0 | 0 | 0.000052 | 0.0003 | 1 | 104% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.04844 | 0.04844 | | 0.05 | 0 | 0 | 0.0013 | 0.0013 | 1 | 97% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.05247 | 0.05247 | | 0.05 | 0 | 0 | 0.00273 | 0.00273 | 1 | 105% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 1.298 | 1.298 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|-------------|-------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|----|
| 14998103 | CCB | ICPMS-6020-W- | CCB | | 1/21/2022 9:20:2 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | -0.00007167 | -0.00007167 | | 0 | 0 | 0 | 0.00086 | 0.001 | 1 | 0% | | | | 0% |
| Antimony | A | mg/L | 0.00008578 | 0.00008578 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | | | | 0% |
| Arsenic | A | mg/L | -0.00002921 | -0.00002921 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | | | | 0% |
| Barium | A | mg/L | 7.547E-07 | 7.547E-07 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | | | | 0% |
| Beryllium | A | mg/L | -0.00003933 | -0.00003933 | | 0 | 0 | 0 | 0.00012 | 0.001 | 1 | 0% | | | | 0% |
| Boron | A | mg/L | -0.00004055 | -0.00004055 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | | | | 0% |
| Cadmium | A | mg/L | 0.000002051 | 0.000002051 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | | | | 0% |
| Calcium | A | mg/L | -0.001107 | -0.001107 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | | | | 0% |
| Cerium | A | mg/L | 2.799E-07 | 2.799E-07 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | | 0% |
| Chromium | A | mg/L | 0.00002558 | 0.00002558 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | | | | 0% |
| Cobalt | A | mg/L | -1.549E-06 | -1.549E-06 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | | | | 0% |
| Copper | A | mg/L | -6.049E-06 | -6.049E-06 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | | | | 0% |
| Iron | A | mg/L | 0.0001025 | 0.0001025 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | | | | 0% |
| Lanthanum | A | mg/L | -2.237E-07 | -2.237E-07 | | 0 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 0% | 0 | 0 | | 0% |
| Lead | A | mg/L | 0.000004574 | 0.000004574 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | | | | 0% |
| Magnesium | A | mg/L | 0.0009753 | 0.0009753 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | | | | 0% |
| Manganese | A | mg/L | 0.000004863 | 0.000004863 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | | | | 0% |
| Mercury | A | mg/L | 0.000006137 | 0.000006137 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | | | | 0% |
| Molybdenum | A | mg/L | 0.00002357 | 0.00002357 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | | | | 0% |
| Nickel | A | mg/L | -9.516E-06 | -9.516E-06 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | | | | 0% |
| Potassium | A | mg/L | -0.0251 | -0.0251 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | | | | 0% |
| Selenium | A | mg/L | 0.000001435 | 0.000001435 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | | | | 0% |
| Silicon | A | mg/L | 0.001196 | 0.001196 | | 0 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 0% | 0 | 0 | | 0% |
| Silver | A | mg/L | -1.021E-06 | -1.021E-06 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | | | | 0% |
| Sodium | A | mg/L | 0.02685 | 0.02685 | | 0 | 0 | 0 | 0.02171 | 0.02171 | 50 | 0% | | | | 0% |
| Strontium | A | mg/L | -7.619E-06 | -7.619E-06 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Thallium | A | mg/L | 0.0001347 | 0.0001347 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Thorium | A | mg/L | 0.00001441 | 0.00001441 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Tin | A | mg/L | 0.00003594 | 0.00003594 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | | 0% |
| Titanium | A | mg/L | 0.00001715 | 0.00001715 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Uranium | A | mg/L | 0.000002519 | 0.000002519 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | | 0% |
| Vanadium | A | mg/L | 0.0008204 | 0.0008204 | | 0 | 0 | 0 | 0.0013 | 0.0013 | 1 | 0% | 0 | 0 | | 0% |
| Zinc | A | mg/L | 0.00007603 | 0.00007603 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | | 0% |
| Iron, Ferrous | C | mg/L | 0.0001025 | 0.0001025 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | | 0% |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|---------------|---------------|-------------|------------|------------------|--------|-----------|--------------|-----------|-----------|--------|--------|-----|------|------|---|
| 14998104 | B22011124-001 | ICPMS-6020-W- | PDS1 | | 1/21/2022 9:26:4 | 1.03 | 163063 | 1/19/2022 2: | 1E+07 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0461 | 0.047483 | | 0.0515 | 0.005018 | 0 | 0.003991 | 0.0032934 | 1 | 82% | 75 | 125 | 0% | |
| Antimony | A | mg/L | 0.0504 | 0.051912 | | 0.0515 | 0 | 0 | 0.0002883 | 0.0010094 | 0.1 | 101% | 75 | 125 | 0% | |
| Arsenic | A | mg/L | 0.04813 | 0.0495739 | | 0.0515 | 0 | 0 | 0.0003514 | 0.001 | 1 | 96% | 75 | 125 | 0% | |
| Barium | A | mg/L | 0.05281 | 0.0543943 | | 0.0515 | 0.00359 | 0 | 0.0002763 | 0.001 | 1 | 99% | 75 | 125 | 0% | |
| Beryllium | A | mg/L | 0.03634 | 0.0374302 | | 0.0515 | 0 | 0 | 0.0001103 | 0.01 | 1 | 73% | 75 | 125 | 0% | S |
| Boron | A | mg/L | 0.09189 | 0.0946467 | | 0.0515 | 0.05482 | 0 | 0.0209916 | 0.0151101 | 1 | 77% | 75 | 125 | 0% | |
| Cadmium | A | mg/L | 0.05002 | 0.0515206 | | 0.0515 | 0 | 0 | 1.876E-05 | 0.005 | 1 | 100% | 75 | 125 | 0% | |
| Calcium | A | mg/L | 8.557 | 8.81371 | | 51.5 | 9.449 | 0 | 0.0384124 | 0.1136585 | 50 | -1% | 75 | 125 | 0% | S |
| Cerium | A | mg/L | 0.05275 | 0.0543325 | | 0.0515 | 0 | 0 | 2.820E-05 | 0.001 | 0.1 | 105% | 75 | 125 | 0% | |
| Chromium | A | mg/L | 0.04727 | 0.0486881 | | 0.0515 | 0.00223 | 0 | 0.0015836 | 0.0015836 | 1 | 90% | 75 | 125 | 0% | |
| Cobalt | A | mg/L | 0.0469 | 0.048307 | | 0.0515 | 0.0001341 | 0 | 9.827E-05 | 0.001 | 1 | 94% | 75 | 125 | 0% | |
| Copper | A | mg/L | 0.04952 | 0.0510056 | | 0.0515 | 0 | 0 | 0.0009009 | 0.0020394 | 1 | 99% | 75 | 125 | 0% | |
| Iron | A | mg/L | 0.06438 | 0.0663114 | | 5.15 | 0.01605 | 0 | 0.0076467 | 0.0052839 | 5 | 1% | 75 | 125 | 0% | S |
| Lanthanum | A | mg/L | 0.000003055 | 0 | | 0.0515 | 0 | 0 | 5.665E-05 | 0.001 | 0.1 | 0% | 75 | 125 | 0% | S |
| Lead | A | mg/L | 0.05043 | 0.0519429 | | 0.0515 | 0 | 0 | 7.947E-05 | 0.001 | 1 | 101% | 80 | 120 | 0% | |
| Magnesium | A | mg/L | 10.05 | 10.3515 | | 51.5 | 10.49 | 0 | 0.0107381 | 0.0083967 | 50 | 0% | 75 | 125 | 0% | S |
| Manganese | A | mg/L | 0.04775 | 0.0491825 | | 0.0515 | 0.001292 | 0 | 0.0005561 | 0.001 | 1 | 93% | 75 | 125 | 0% | |
| Molybdenum | A | mg/L | 0.04863 | 0.0500889 | | 0.0515 | 0.001922 | 0 | 0.0001816 | 0.001 | 0.1 | 94% | 75 | 125 | 0% | |
| Nickel | A | mg/L | 0.04905 | 0.0505215 | | 0.0515 | 0.001935 | 0 | 0.0002357 | 0.0024926 | 1 | 94% | 75 | 125 | 0% | |
| Potassium | A | mg/L | 1.615 | 1.66345 | | 51.5 | 1.709 | 0 | 0.0788588 | 0.0269042 | 50 | 0% | 75 | 125 | 0% | S |
| Selenium | A | mg/L | 0.04984 | 0.0513352 | | 0.0515 | 0.0002152 | 0 | 0.0001398 | 0.001 | 1 | 99% | 75 | 125 | 0% | |
| Silicon | A | mg/L | 23.05 | 23.7415 | | 0.206 | 23.63 | 0 | 0.0434752 | 0.0054808 | 0.4 | | 0 | 0 | 0% | A |
| Silver | A | mg/L | 0.01932 | 0.0198996 | | 0.0206 | 0 | 0 | 4.409E-05 | 0.001 | 0.04 | 97% | 75 | 125 | 0% | |
| Sodium | A | mg/L | 34.8 | 35.844 | | 51.5 | 37.99 | 0 | 0.1050045 | 0.7550177 | 50 | -4% | 75 | 125 | 0% | S |
| Strontium | A | mg/L | 0.1157 | 0.119171 | | 0.0515 | 0.06807 | 0 | 0.0002506 | 0.001 | 1 | 99% | 75 | 125 | 0% | |
| Thallium | A | mg/L | 0.04944 | 0.0509232 | | 0.0515 | 0 | 0 | 0.0001147 | 0.001 | 1 | 99% | 75 | 125 | 0% | |
| Thorium | A | mg/L | 0.04992 | 0.0514176 | | 0.0515 | 0 | 0 | 0.000391 | 0.0042745 | 1 | 100% | 75 | 125 | 0% | |
| Tin | A | mg/L | 0.05225 | 0.0538175 | | 0.0515 | 0 | 0 | 0.00195 | 0.001151 | 0.1 | 104% | 75 | 125 | 0% | |
| Titanium | A | mg/L | 0.04203 | 0.0432909 | | 0.0515 | 0.001994 | 0 | 0.0005905 | 0.001 | 1 | 80% | 75 | 125 | 0% | |
| Uranium | A | mg/L | 0.05193 | 0.0534879 | | 0.0515 | 0 | 0 | 1.75E-05 | 0.0003 | 1 | 104% | 75 | 125 | 0% | |
| Vanadium | A | mg/L | 0.0667 | 0.068701 | | 0.0515 | 0.02148 | 0 | 0.0040301 | 0.0021717 | 1 | 92% | 75 | 125 | 0% | |
| Zinc | A | mg/L | 0.05425 | 0.0558775 | | 0.0515 | 0.005856 | 0 | 0.0011966 | 0.0067511 | 1 | 97% | 75 | 125 | 0% | |
| Silica | C | mg/L | 49.30856 | 50.7878168 | | 0 | 0 | 0 | 0.0930021 | 0.0117246 | 5 | 0% | 0 | 0 | 0% | |
| Silicon as SiO2 | C | mg/L | 49.30856 | 50.7878168 | | 0.0515 | 0 | 0 | 0.0930021 | 0.0117246 | 5 | 98617% | 75 | 125 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|---------------|-------------------|------------|-----------|------------------|-------|-----------|--------------|-----------|-----------|--------|-------|-----|------|------|---|
| 14998105 | B22011124-001 | ICPMS-6020-W- MS4 | | | 1/21/2022 9:32:5 | 1 | 163063 | 1/19/2022 2: | 1E+07 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.4014 | 0.4014 | | 0.5 | 0.005018 | 0 | 0.0038747 | 0.0031975 | 1 | 79% | 75 | 125 | 0% | |
| Antimony | A | mg/L | 0.1045 | 0.1045 | | 0.1 | 0 | 0 | 0.0002799 | 0.001 | 0.1 | 104% | 75 | 125 | 0% | |
| Arsenic | A | mg/L | 0.099 | 0.099 | | 0.1 | 0 | 0 | 0.0003412 | 0.001 | 1 | 99% | 75 | 125 | 0% | |
| Barium | A | mg/L | 0.1004 | 0.1004 | | 0.1 | 0.00359 | 0 | 0.0002682 | 0.001 | 1 | 97% | 75 | 125 | 0% | |
| Beryllium | A | mg/L | 0.0363 | 0.0363 | | 0.05 | 0 | 0 | 0.0001071 | 0.01 | 1 | 73% | 75 | 125 | 0% | S |
| Boron | A | mg/L | 0.1268 | 0.1268 | | 0.1 | 0.05482 | 0 | 0.0203802 | 0.01467 | 1 | 72% | 75 | 125 | 0% | S |
| Cadmium | A | mg/L | 0.05 | 0.05 | | 0.05 | 0 | 0 | 1.821E-05 | 0.005 | 1 | 100% | 75 | 125 | 0% | |
| Calcium | A | mg/L | 13.71 | 13.71 | | 5 | 9.449 | 0 | 0.0372936 | 0.1103481 | 50 | 85% | 75 | 125 | 0% | |
| Cerium | A | mg/L | 0.1072 | 0.1072 | | 0.1 | 0 | 0 | 2.738E-05 | 0.001 | 0.1 | 107% | 75 | 125 | 0% | |
| Chromium | A | mg/L | 0.09595 | 0.09595 | | 0.1 | 0.00223 | 0 | 0.0015375 | 0.0015375 | 1 | 94% | 75 | 125 | 0% | |
| Cobalt | A | mg/L | 0.09239 | 0.09239 | | 0.1 | 0.0001341 | 0 | 9.541E-05 | 0.001 | 1 | 92% | 75 | 125 | 0% | |
| Copper | A | mg/L | 0.1007 | 0.1007 | | 0.1 | 0 | 0 | 0.0008747 | 0.00198 | 1 | 101% | 75 | 125 | 0% | |
| Iron | A | mg/L | 0.5215 | 0.5215 | | 0.5 | 0.01605 | 0 | 0.007424 | 0.00513 | 5 | 101% | 75 | 125 | 0% | |
| Lanthanum | A | mg/L | 0.1061 | 0.1061 | | 0.1 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 106% | 75 | 125 | 0% | |
| Lead | A | mg/L | 0.1033 | 0.1033 | | 0.1 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 103% | 88 | 115 | 0% | |
| Magnesium | A | mg/L | 14.69 | 14.69 | | 5 | 10.49 | 0 | 0.0104254 | 0.0081522 | 50 | 84% | 75 | 125 | 0% | |
| Manganese | A | mg/L | 0.4802 | 0.4802 | | 0.5 | 0.001292 | 0 | 0.0005399 | 0.001 | 1 | 96% | 75 | 125 | 0% | |
| Molybdenum | A | mg/L | 0.09676 | 0.09676 | | 0.1 | 0.001922 | 0 | 0.0001763 | 0.001 | 0.1 | 95% | 75 | 125 | 0% | |
| Nickel | A | mg/L | 0.1003 | 0.1003 | | 0.1 | 0.001935 | 0 | 0.0002288 | 0.0024200 | 1 | 98% | 75 | 125 | 0% | |
| Potassium | A | mg/L | 5.989 | 5.989 | | 5 | 1.709 | 0 | 0.0765619 | 0.0261205 | 50 | 86% | 75 | 125 | 0% | |
| Selenium | A | mg/L | 0.1031 | 0.1031 | | 0.1 | 0.0002152 | 0 | 0.0001357 | 0.001 | 1 | 103% | 75 | 125 | 0% | |
| Silicon | A | mg/L | 23.17 | 23.17 | | 1 | 23.63 | 0 | 0.0422089 | 0.0053212 | 0.4 | | 75 | 125 | 0% | A |
| Silver | A | mg/L | 0.009614 | 0.009614 | | 0.01 | 0 | 0 | 4.281E-05 | 0.001 | 0.04 | 96% | 75 | 125 | 0% | |
| Sodium | A | mg/L | 38.95 | 38.95 | | 5 | 37.99 | 0 | 0.1019461 | 0.7330269 | 50 | | 75 | 125 | 0% | A |
| Strontium | A | mg/L | 0.1705 | 0.1705 | | 0.1 | 0.06807 | 0 | 0.0002433 | 0.001 | 1 | 102% | 75 | 125 | 0% | |
| Thallium | A | mg/L | 0.1001 | 0.1001 | | 0.1 | 0 | 0 | 0.0001114 | 0.001 | 1 | 100% | 75 | 125 | 0% | |
| Thorium | A | mg/L | 0.1025 | 0.1025 | | 0.1 | 0 | 0 | 0.0003796 | 0.00415 | 1 | 102% | 75 | 125 | 0% | |
| Tin | A | mg/L | 0.1044 | 0.1044 | | 0.1 | 0 | 0 | 0.0018932 | 0.0011175 | 0.1 | 104% | 75 | 125 | 0% | |
| Titanium | A | mg/L | 0.08462 | 0.08462 | | 0.1 | 0.001994 | 0 | 0.0005733 | 0.001 | 1 | 83% | 75 | 125 | 0% | |
| Uranium | A | mg/L | 0.107 | 0.107 | | 0.1 | 0 | 0 | 1.699E-05 | 0.0003 | 1 | 107% | 75 | 125 | 0% | |
| Vanadium | A | mg/L | 0.112 | 0.112 | | 0.1 | 0.02148 | 0 | 0.0039127 | 0.0021085 | 1 | 91% | 75 | 125 | 0% | |
| Zinc | A | mg/L | 0.1044 | 0.1044 | | 0.1 | 0.005856 | 0 | 0.0011617 | 0.0065544 | 1 | 99% | 75 | 125 | 0% | |
| Silica | C | mg/L | 49.565264 | 49.565264 | | 0 | 0 | 0 | 0.0902933 | 0.0113831 | 5 | 0% | 0 | 0 | 0% | |
| Silicon as SiO2 | C | mg/L | 49.565264 | 49.565264 | | 2.14 | 0 | 0 | 0.0902933 | 0.0113831 | 5 | 2316% | 75 | 125 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|---------------|-------------------|------------|----------|------------------|-------|-----------|--------------|-----------|-----------|--------|-------|-----|------|------|---|
| 14998106 | B22011124-001 | ICPMS-6020-W-MSD4 | | | 1/21/2022 9:39:1 | 1 | 163063 | 1/19/2022 2: | 1E+07 | 1E+07 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.4083 | 0.4083 | | 0.5 | 0.005018 | 0.4014 | 0.0038747 | 0.0031975 | 1 | 81% | 75 | 125 | 2% | |
| Antimony | A | mg/L | 0.1028 | 0.1028 | | 0.1 | 0 | 0.1045 | 0.0002799 | 0.001 | 0.1 | 103% | 75 | 125 | 2% | |
| Arsenic | A | mg/L | 0.09892 | 0.09892 | | 0.1 | 0 | 0.099 | 0.0003412 | 0.001 | 1 | 99% | 75 | 125 | 0% | |
| Barium | A | mg/L | 0.09639 | 0.09639 | | 0.1 | 0.00359 | 0.1004 | 0.0002682 | 0.001 | 1 | 93% | 75 | 125 | 4% | |
| Beryllium | A | mg/L | 0.03834 | 0.03834 | | 0.05 | 0 | 0.0363 | 0.0001071 | 0.01 | 1 | 77% | 75 | 125 | 5% | |
| Boron | A | mg/L | 0.1362 | 0.1362 | | 0.1 | 0.05482 | 0.1268 | 0.0203802 | 0.01467 | 1 | 81% | 75 | 125 | 7% | |
| Cadmium | A | mg/L | 0.05163 | 0.05163 | | 0.05 | 0 | 0.05 | 1.821E-05 | 0.005 | 1 | 103% | 75 | 125 | 3% | |
| Calcium | A | mg/L | 13.56 | 13.56 | | 5 | 9.449 | 13.71 | 0.0372936 | 0.1103481 | 50 | 82% | 75 | 125 | 1% | |
| Cerium | A | mg/L | 0.1109 | 0.1109 | | 0.1 | 0 | 0.1072 | 2.738E-05 | 0.001 | 0.1 | 111% | 75 | 125 | 3% | |
| Chromium | A | mg/L | 0.09618 | 0.09618 | | 0.1 | 0.00223 | 0.09595 | 0.0015375 | 0.0015375 | 1 | 94% | 75 | 125 | 0% | |
| Cobalt | A | mg/L | 0.09313 | 0.09313 | | 0.1 | 0.0001341 | 0.09239 | 9.541E-05 | 0.001 | 1 | 93% | 75 | 125 | 1% | |
| Copper | A | mg/L | 0.1008 | 0.1008 | | 0.1 | 0 | 0.1007 | 0.0008747 | 0.00198 | 1 | 101% | 75 | 125 | 0% | |
| Iron | A | mg/L | 0.5306 | 0.5306 | | 0.5 | 0.01605 | 0.5215 | 0.007424 | 0.00513 | 5 | 103% | 75 | 125 | 2% | |
| Lanthanum | A | mg/L | 0.1087 | 0.1087 | | 0.1 | 0 | 0.1061 | 0.000055 | 0.001 | 0.1 | 109% | 75 | 125 | 2% | |
| Lead | A | mg/L | 0.103 | 0.103 | | 0.1 | 0 | 0.1033 | 7.716E-05 | 0.001 | 1 | 103% | 88 | 115 | 0% | |
| Magnesium | A | mg/L | 14.9 | 14.9 | | 5 | 10.49 | 14.69 | 0.0104254 | 0.0081522 | 50 | 88% | 75 | 125 | 1% | |
| Manganese | A | mg/L | 0.4771 | 0.4771 | | 0.5 | 0.001292 | 0.4802 | 0.0005399 | 0.001 | 1 | 95% | 75 | 125 | 1% | |
| Molybdenum | A | mg/L | 0.0936 | 0.0936 | | 0.1 | 0.001922 | 0.09676 | 0.0001763 | 0.001 | 0.1 | 92% | 75 | 125 | 3% | |
| Nickel | A | mg/L | 0.09979 | 0.09979 | | 0.1 | 0.001935 | 0.1003 | 0.0002288 | 0.0024200 | 1 | 98% | 75 | 125 | 1% | |
| Potassium | A | mg/L | 5.914 | 5.914 | | 5 | 1.709 | 5.989 | 0.0765619 | 0.0261205 | 50 | 84% | 75 | 125 | 1% | |
| Selenium | A | mg/L | 0.1036 | 0.1036 | | 0.1 | 0.0002152 | 0.1031 | 0.0001357 | 0.001 | 1 | 103% | 75 | 125 | 0% | |
| Silicon | A | mg/L | 24.25 | 24.25 | | 1 | 23.63 | 23.17 | 0.0422089 | 0.0053212 | 0.4 | | 75 | 125 | 5% | A |
| Silver | A | mg/L | 0.009406 | 0.009406 | | 0.01 | 0 | 0.009614 | 4.281E-05 | 0.001 | 0.04 | 94% | 75 | 125 | 2% | |
| Sodium | A | mg/L | 40.37 | 40.37 | | 5 | 37.99 | 38.95 | 0.1019461 | 0.7330269 | 50 | | 75 | 125 | 4% | A |
| Strontium | A | mg/L | 0.1688 | 0.1688 | | 0.1 | 0.06807 | 0.1705 | 0.0002433 | 0.001 | 1 | 101% | 75 | 125 | 1% | |
| Thallium | A | mg/L | 0.1009 | 0.1009 | | 0.1 | 0 | 0.1001 | 0.0001114 | 0.001 | 1 | 101% | 75 | 125 | 1% | |
| Thorium | A | mg/L | 0.1025 | 0.1025 | | 0.1 | 0 | 0.1025 | 0.0003796 | 0.00415 | 1 | 102% | 75 | 125 | 0% | |
| Tin | A | mg/L | 0.1005 | 0.1005 | | 0.1 | 0 | 0.1044 | 0.0018932 | 0.0011175 | 0.1 | 100% | 75 | 125 | 4% | |
| Titanium | A | mg/L | 0.08518 | 0.08518 | | 0.1 | 0.001994 | 0.08462 | 0.0005733 | 0.001 | 1 | 83% | 75 | 125 | 1% | |
| Uranium | A | mg/L | 0.1077 | 0.1077 | | 0.1 | 0 | 0.107 | 1.699E-05 | 0.0003 | 1 | 108% | 75 | 125 | 1% | |
| Vanadium | A | mg/L | 0.1138 | 0.1138 | | 0.1 | 0.02148 | 0.112 | 0.0039127 | 0.0021085 | 1 | 92% | 75 | 125 | 2% | |
| Zinc | A | mg/L | 0.1046 | 0.1046 | | 0.1 | 0.005856 | 0.1044 | 0.0011617 | 0.0065544 | 1 | 99% | 75 | 125 | 0% | |
| Silica | C | mg/L | 51.8756 | 51.8756 | | 0 | 0 | 49.565264 | 0.0902933 | 0.0113831 | 5 | 0% | 0 | 0 | 5% | |
| Silicon as SiO2 | C | mg/L | 51.8756 | 51.8756 | | 2.14 | 0 | 49.565264 | 0.0902933 | 0.0113831 | 5 | 2424% | 75 | 125 | 5% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|-------------|-----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998107 | Rinse | ICPMS-6020-W- | SAMP | | 1/21/2022 9:45:2 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | -0.00006942 | 0 | | 0 | 0 | 0 | 0.00086 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 0.0001285 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | -0.00001208 | 0 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.000001666 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00001081 | 0 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 2.057E-07 | 0 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0.00003542 | 0 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0.00000908 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0.00001031 | 0 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00002159 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 0.0001513 | 0.0001513 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Mercury | A | mg/L | 0.000005269 | 0 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.00001757 | 0 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0.00001016 | 0 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | -3.671E-07 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -0.000002 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | -7.061E-06 | 0 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.0002405 | 0.0002405 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Thorium | A | mg/L | 0.00002148 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.000008772 | 0 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.000002617 | 0 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Calcium | B | mg/L | -0.001546 | 0 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | L |
| Iron | B | mg/L | 0.0001585 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0.0001585 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | 0.00107 | 0 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | L |
| Tin | B | mg/L | 0.00003449 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Vanadium | B | mg/L | 0.0004567 | 0 | | 0 | 0 | 0 | 0.0013 | 0.0013 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.0000938 | 0 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998108 | B22011125-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 9:51:3 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|---------------|---------------|-------------|------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998108 | B22011125-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 9:51:3 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.004066 | 0.004066 | | 0 | 0 | 0 | 0.00086 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 0.0002138 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | -0.0001032 | 0 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.003792 | 0.003792 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00003714 | 0.00003714 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Cerium | A | mg/L | 0.00001353 | 0.00001353 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Chromium | A | mg/L | 0.002359 | 0.002359 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0.00004129 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0.0004906 | 0.0004906 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lead | A | mg/L | 0.0000539 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Manganese | A | mg/L | 0.002899 | 0.002899 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 0.00002553 | 0 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.0001139 | 0.0001139 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Nickel | A | mg/L | 0.0004793 | 0 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.0001554 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -0.00005479 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.09612 | 0.09612 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00009317 | 0.00009317 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Thorium | A | mg/L | -1.886E-06 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.001742 | 0.001742 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.000009425 | 0 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Calcium | B | mg/L | 15.15 | 15.15 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | D |
| Iron | B | mg/L | 0.008715 | 0.008715 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0.008715 | 0.008715 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | 15.11 | 15.11 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | D |
| Sodium | B | mg/L | 32.13 | 32.13 | | 0 | 0 | 0 | 0.02171 | 0.02171 | 50 | 0% | 0 | 0 | 0% | D |
| Tin | B | mg/L | -0.00005527 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Vanadium | B | mg/L | 0.0154 | 0.0154 | | 0 | 0 | 0 | 0.0013 | 0.0013 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.007734 | 0.007734 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | D |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|--------------|--------|--------|--------|------|-----|------|------|---|
| 14998109 | B22011125-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 9:57:5 | 1 | 163063 | 1/19/2022 2: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|---------------|---------------|-------------|-----------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|----|
| 14998109 | B22011125-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 9:57:5 | 1 | 163063 | 1/19/2022 2: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.0002437 | 0 | | 0 | 0 | 0 | 0.0002799 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Arsenic | A | mg/L | 0.0002297 | 0 | | 0 | 0 | 0 | 0.0003412 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Barium | A | mg/L | 0.004502 | 0.004502 | | 0 | 0 | 0 | 0.0002682 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.000003712 | 0 | | 0 | 0 | 0 | 1.821E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | U |
| Cerium | A | mg/L | 0.0001316 | 0.0001316 | | 0 | 0 | 0 | 2.738E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Cobalt | A | mg/L | 0.0002311 | 0.0002311 | | 0 | 0 | 0 | 9.541E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lanthanum | A | mg/L | 0.00005065 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Lead | A | mg/L | 0.0002582 | 0.0002582 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Manganese | A | mg/L | 0.01903 | 0.01903 | | 0 | 0 | 0 | 0.0005399 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.0002049 | 0.0002049 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Selenium | A | mg/L | 0.0002044 | 0.0002044 | | 0 | 0 | 0 | 0.0001357 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Silver | A | mg/L | 0.0005407 | 0.0005407 | | 0 | 0 | 0 | 4.281E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | J |
| Strontium | A | mg/L | 0.09759 | 0.09759 | | 0 | 0 | 0 | 0.0002433 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00009311 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Titanium | A | mg/L | 0.009402 | 0.009402 | | 0 | 0 | 0 | 0.0005733 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.0000125 | 0 | | 0 | 0 | 0 | 1.699E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | U |
| Aluminum | B | mg/L | 0.1141 | 0.1141 | | 0 | 0 | 0 | 0.0038747 | 0.0031975 | 1 | 0% | 0 | 0 | 0% | D |
| Calcium | B | mg/L | 14.6 | 14.6 | | 0 | 0 | 0 | 0.0372936 | 0.1103481 | 50 | 0% | 0 | 0 | 0% | D |
| Chromium | B | mg/L | 0.00287 | 0.00287 | | 0 | 0 | 0 | 0.0015375 | 0.0015375 | 1 | 0% | 0 | 0 | 0% | UD |
| Copper | B | mg/L | 0.001253 | 0.001253 | | 0 | 0 | 0 | 0.0008747 | 0.00198 | 1 | 0% | 0 | 0 | 0% | JL |
| Iron | B | mg/L | 0.1489 | 0.1489 | | 0 | 0 | 0 | 0.007424 | 0.00513 | 5 | 0% | 0 | 0 | 0% | D |
| Magnesium | B | mg/L | 15.41 | 15.41 | | 0 | 0 | 0 | 0.0104254 | 0.0081522 | 50 | 0% | 0 | 0 | 0% | D |
| Nickel | B | mg/L | 0.00124 | 0.00124 | | 0 | 0 | 0 | 0.0002288 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | JL |
| Sodium | B | mg/L | 32.18 | 32.18 | | 0 | 0 | 0 | 0.1019461 | 0.7330269 | 50 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | 0.00005105 | 0 | | 0 | 0 | 0 | 0.0003796 | 0.00415 | 1 | 0% | 0 | 0 | 0% | UL |
| Tin | B | mg/L | 0.0005899 | 0 | | 0 | 0 | 0 | 0.0018932 | 0.0011175 | 0.1 | 0% | 0 | 0 | 0% | U |
| Vanadium | B | mg/L | 0.02021 | 0.02021 | | 0 | 0 | 0 | 0.0039127 | 0.0021085 | 1 | 0% | 0 | 0 | 0% | D |
| Zinc | B | mg/L | 0.01571 | 0.01571 | | 0 | 0 | 0 | 0.0011617 | 0.0065544 | 1 | 0% | 0 | 0 | 0% | D |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998110 | B22011126-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 10:04: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|---------------|---------------|-------------|------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998110 | B22011126-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 10:04: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.002161 | 0.002161 | | 0 | 0 | 0 | 0.00086 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 0.0003699 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0.0004696 | 0.0004696 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Barium | A | mg/L | 0.004042 | 0.004042 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.0000435 | 0.0000435 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Cerium | A | mg/L | 0.000001199 | 0 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0.000131 | 0 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0.0003131 | 0.0003131 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Copper | A | mg/L | 0.0006295 | 0.0006295 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lead | A | mg/L | 0.00001032 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Manganese | A | mg/L | 0.1873 | 0.1873 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 0.00004407 | 0 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.01036 | 0.01036 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0.002021 | 0.002021 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.0001064 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -0.00006365 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.2243 | 0.2243 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00003253 | 0 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | -6.938E-06 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.001181 | 0.001181 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00007607 | 0.00007607 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | J |
| Calcium | B | mg/L | 29.67 | 29.67 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | D |
| Iron | B | mg/L | 0.0009801 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0.0009801 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | 30.98 | 30.98 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | D |
| Tin | B | mg/L | -0.00002674 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Vanadium | B | mg/L | 0.006104 | 0.006104 | | 0 | 0 | 0 | 0.0013 | 0.0013 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.002205 | 0 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|--------------|--------|--------|--------|------|-----|------|------|---|
| 14998111 | B22011126-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 10:10: | 1 | 163063 | 1/19/2022 2: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|---------------|---------------|-------------|------------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|----|
| 14998111 | B22011126-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 10:10: | 1 | 163063 | 1/19/2022 2: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.000452 | 0.000452 | | 0 | 0 | 0 | 0.0002799 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Arsenic | A | mg/L | 0.0007835 | 0.0007835 | | 0 | 0 | 0 | 0.0003412 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Barium | A | mg/L | 0.004579 | 0.004579 | | 0 | 0 | 0 | 0.0002682 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.000006907 | 0 | | 0 | 0 | 0 | 1.821E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | U |
| Cerium | A | mg/L | 0.0000174 | 0 | | 0 | 0 | 0 | 2.738E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Cobalt | A | mg/L | 0.0004374 | 0.0004374 | | 0 | 0 | 0 | 9.541E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lanthanum | A | mg/L | 0.000006599 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Lead | A | mg/L | 0.0000345 | 0 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Manganese | A | mg/L | 0.185 | 0.185 | | 0 | 0 | 0 | 0.0005399 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.01126 | 0.01126 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.0001557 | 0.0001557 | | 0 | 0 | 0 | 0.0001357 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Silver | A | mg/L | -0.00006405 | 0 | | 0 | 0 | 0 | 4.281E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Strontium | A | mg/L | 0.2314 | 0.2314 | | 0 | 0 | 0 | 0.0002433 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00005505 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Titanium | A | mg/L | 0.001805 | 0.001805 | | 0 | 0 | 0 | 0.0005733 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00008927 | 0.00008927 | | 0 | 0 | 0 | 1.699E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | J |
| Aluminum | B | mg/L | 0.009249 | 0.009249 | | 0 | 0 | 0 | 0.0038747 | 0.0031975 | 1 | 0% | 0 | 0 | 0% | UD |
| Calcium | B | mg/L | 27.78 | 27.78 | | 0 | 0 | 0 | 0.0372936 | 0.1103481 | 50 | 0% | 0 | 0 | 0% | D |
| Chromium | B | mg/L | 0.0003555 | 0 | | 0 | 0 | 0 | 0.0015375 | 0.0015375 | 1 | 0% | 0 | 0 | 0% | UL |
| Copper | B | mg/L | 0.0009667 | 0.0009667 | | 0 | 0 | 0 | 0.0008747 | 0.00198 | 1 | 0% | 0 | 0 | 0% | JL |
| Iron | B | mg/L | 0.0115 | 0.0115 | | 0 | 0 | 0 | 0.007424 | 0.00513 | 5 | 0% | 0 | 0 | 0% | UD |
| Magnesium | B | mg/L | 29.56 | 29.56 | | 0 | 0 | 0 | 0.0104254 | 0.0081522 | 50 | 0% | 0 | 0 | 0% | D |
| Nickel | B | mg/L | 0.00223 | 0.00223 | | 0 | 0 | 0 | 0.0002288 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | JL |
| Thorium | B | mg/L | 0.00002297 | 0 | | 0 | 0 | 0 | 0.0003796 | 0.00415 | 1 | 0% | 0 | 0 | 0% | UL |
| Tin | B | mg/L | 0.0005359 | 0 | | 0 | 0 | 0 | 0.0018932 | 0.0011175 | 0.1 | 0% | 0 | 0 | 0% | U |
| Vanadium | B | mg/L | 0.01052 | 0.01052 | | 0 | 0 | 0 | 0.0039127 | 0.0021085 | 1 | 0% | 0 | 0 | 0% | D |
| Zinc | B | mg/L | 0.001796 | 0.001796 | | 0 | 0 | 0 | 0.0011617 | 0.0065544 | 1 | 0% | 0 | 0 | 0% | JL |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|-----------|---------|--------|--------|------|-----|------|------|---|
| 14998112 | B22011127-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 10:16: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.01392 | 0.01392 | | 0 | 0 | 0 | 0.00086 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 0.00008236 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0.00165 | 0.00165 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|---------------|---------------|-------------|------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998112 | B22011127-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 10:16: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Barium | A | mg/L | 0.009899 | 0.009899 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00003916 | 0.00003916 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Cerium | A | mg/L | 0.00009301 | 0.00009301 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Chromium | A | mg/L | 0.001127 | 0.001127 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0.0001308 | 0.0001308 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Copper | A | mg/L | 0.0012 | 0.0012 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.0001686 | 0.0001686 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Manganese | A | mg/L | 0.004952 | 0.004952 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 0.001813 | 0.001813 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.003684 | 0.003684 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0.000793 | 0.000793 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Selenium | A | mg/L | 0.0003919 | 0.0003919 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Silver | A | mg/L | -0.00005187 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.3052 | 0.3052 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00001268 | 0 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | -8.024E-06 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.002499 | 0.002499 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00018 | 0.00018 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | J |
| Calcium | B | mg/L | 41.73 | 41.73 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | D |
| Iron | B | mg/L | 0.06021 | 0.06021 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0.06021 | 0.06021 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | 34.75 | 34.75 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | D |
| Tin | B | mg/L | -4.321E-06 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Vanadium | B | mg/L | 0.0121 | 0.0121 | | 0 | 0 | 0 | 0.0013 | 0.0013 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.00354 | 0.00354 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | D |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|-------------|-----------|------------------|-------|----------|--------------|-----------|--------|--------|------|-----|------|------|---|
| 14998113 | B22011127-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 10:22: | 1 | 163063 | 1/19/2022 2: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.0001208 | 0 | | 0 | 0 | 0 | 0.0002799 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Arsenic | A | mg/L | 0.002082 | 0.002082 | | 0 | 0 | 0 | 0.0003412 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.01113 | 0.01113 | | 0 | 0 | 0 | 0.0002682 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.000004347 | 0 | | 0 | 0 | 0 | 1.821E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | U |
| Cerium | A | mg/L | 0.0001824 | 0.0001824 | | 0 | 0 | 0 | 2.738E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|---------------|---------------|------------|------------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|----|
| 14998113 | B22011127-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 10:22: | 1 | 163063 | 1/19/2022 2: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Cobalt | A | mg/L | 0.0002806 | 0.0002806 | | 0 | 0 | 0 | 9.541E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lanthanum | A | mg/L | 0.00007698 | 0.00007698 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Lead | A | mg/L | 0.0002916 | 0.0002916 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Manganese | A | mg/L | 0.006022 | 0.006022 | | 0 | 0 | 0 | 0.0005399 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.004159 | 0.004159 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.0004623 | 0.0004623 | | 0 | 0 | 0 | 0.0001357 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Silver | A | mg/L | -0.0000486 | 0 | | 0 | 0 | 0 | 4.281E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Strontium | A | mg/L | 0.3159 | 0.3159 | | 0 | 0 | 0 | 0.0002433 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00004101 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Titanium | A | mg/L | 0.005825 | 0.005825 | | 0 | 0 | 0 | 0.0005733 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.0002072 | 0.0002072 | | 0 | 0 | 0 | 1.699E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | J |
| Aluminum | B | mg/L | 0.05781 | 0.05781 | | 0 | 0 | 0 | 0.0038747 | 0.0031975 | 1 | 0% | 0 | 0 | 0% | D |
| Calcium | B | mg/L | 39.98 | 39.98 | | 0 | 0 | 0 | 0.0372936 | 0.1103481 | 50 | 0% | 0 | 0 | 0% | D |
| Chromium | B | mg/L | 0.001543 | 0.001543 | | 0 | 0 | 0 | 0.0015375 | 0.0015375 | 1 | 0% | 0 | 0 | 0% | UD |
| Copper | B | mg/L | 0.001255 | 0.001255 | | 0 | 0 | 0 | 0.0008747 | 0.00198 | 1 | 0% | 0 | 0 | 0% | JL |
| Iron | B | mg/L | 0.1518 | 0.1518 | | 0 | 0 | 0 | 0.007424 | 0.00513 | 5 | 0% | 0 | 0 | 0% | D |
| Magnesium | B | mg/L | 34.29 | 34.29 | | 0 | 0 | 0 | 0.0104254 | 0.0081522 | 50 | 0% | 0 | 0 | 0% | D |
| Nickel | B | mg/L | 0.0007839 | 0.0007839 | | 0 | 0 | 0 | 0.0002288 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | JL |
| Thorium | B | mg/L | 0.00001332 | 0 | | 0 | 0 | 0 | 0.0003796 | 0.00415 | 1 | 0% | 0 | 0 | 0% | UL |
| Tin | B | mg/L | 0.0005704 | 0 | | 0 | 0 | 0 | 0.0018932 | 0.0011175 | 0.1 | 0% | 0 | 0 | 0% | U |
| Vanadium | B | mg/L | 0.01694 | 0.01694 | | 0 | 0 | 0 | 0.0039127 | 0.0021085 | 1 | 0% | 0 | 0 | 0% | D |
| Zinc | B | mg/L | 0.003933 | 0.003933 | | 0 | 0 | 0 | 0.0011617 | 0.0065544 | 1 | 0% | 0 | 0 | 0% | JL |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|------------|------------------|-------|----------|-----------|----------|--------|--------|------|-----|------|------|---|
| 14998114 | B22011128-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 10:29: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0006959 | 0 | | 0 | 0 | 0 | 0.00086 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 0.0003044 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0.003308 | 0.003308 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.02513 | 0.02513 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00003939 | 0.00003939 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Cerium | A | mg/L | 0.00002324 | 0.00002324 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Chromium | A | mg/L | 0.001325 | 0.001325 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0.00003827 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|---------------|--------------------|-------------|-----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998114 | B22011128-001 | ICPMS-6020-W- SAMP | | | 1/21/2022 10:29: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Copper | A | mg/L | 0.0004894 | 0.0004894 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lead | A | mg/L | 0.0000162 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Manganese | A | mg/L | 0.0002209 | 0.0002209 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Mercury | A | mg/L | 0.0009325 | 0.0009325 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | J |
| Molybdenum | A | mg/L | 0.009835 | 0.009835 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0.000818 | 0.000818 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Selenium | A | mg/L | 0.0007143 | 0.0007143 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Silver | A | mg/L | -0.0000616 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.2844 | 0.2844 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.000007936 | 0 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | -6.415E-06 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.001655 | 0.001655 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.0003772 | 0.0003772 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Calcium | B | mg/L | 25.97 | 25.97 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | D |
| Iron | B | mg/L | 0.0004299 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0.0004299 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | 27.45 | 27.45 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | D |
| Tin | B | mg/L | 0.0001548 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Vanadium | B | mg/L | 0.01046 | 0.01046 | | 0 | 0 | 0 | 0.0013 | 0.0013 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.0005752 | 0 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|--------|-------------------|------------|---------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998115 | CCV | ICPMS-6020-W- CCV | | | 1/21/2022 10:35: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.05359 | 0.05359 | | 0.05 | 0 | 0 | 0.00086 | 0.001 | 1 | 107% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.05283 | 0.05283 | | 0.05 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 106% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.05037 | 0.05037 | | 0.05 | 0 | 0 | 0.00019 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.04935 | 0.04935 | | 0.05 | 0 | 0 | 0.000042 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.04336 | 0.04336 | | 0.05 | 0 | 0 | 0.00012 | 0.001 | 1 | 87% | 90 | 110 | 0% | S |
| Boron | A | mg/L | 0.04567 | 0.04567 | | 0.05 | 0 | 0 | 0.00561 | 0.00561 | 1 | 91% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.05058 | 0.05058 | | 0.05 | 0 | 0 | 0.000025 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 12.08 | 12.08 | | 12.5 | 0 | 0 | 0.02092 | 0.02092 | 50 | 97% | 90 | 110 | 0% | |
| Cerium | A | mg/L | 0.05247 | 0.05247 | | 0.05 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 105% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.0477 | 0.0477 | | 0.05 | 0 | 0 | 0.00018 | 0.001 | 1 | 95% | 90 | 110 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|------------|----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998115 | CCV | ICPMS-6020-W- | CCV | | 1/21/2022 10:35: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Cobalt | A | mg/L | 0.04916 | 0.04916 | | 0.05 | 0 | 0 | 0.000042 | 0.001 | 1 | 98% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.05093 | 0.05093 | | 0.05 | 0 | 0 | 0.00027 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Iron | A | mg/L | 1.297 | 1.297 | | 1.3 | 0 | 0 | 0.00119 | 0.00119 | 5 | 100% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.05138 | 0.05138 | | 0.05 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 103% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.04991 | 0.04991 | | 0.05 | 0 | 0 | 0.000056 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 12.18 | 12.18 | | 12.5 | 0 | 0 | 0.00564 | 0.00564 | 50 | 97% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.04861 | 0.04861 | | 0.05 | 0 | 0 | 0.000095 | 0.001 | 1 | 97% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.001019 | 0.001019 | | 0.001 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 102% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.04935 | 0.04935 | | 0.05 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 99% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.04991 | 0.04991 | | 0.05 | 0 | 0 | 0.00063 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 11.29 | 11.29 | | 12.5 | 0 | 0 | 0.08139 | 0.08139 | 50 | 90% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.05185 | 0.05185 | | 0.05 | 0 | 0 | 0.00033 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.2252 | 0.2252 | | 0.2 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 113% | 90 | 110 | 0% | S |
| Silver | A | mg/L | 0.01967 | 0.01967 | | 0.02 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 98% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 12.42 | 12.42 | | 12.5 | 0 | 0 | 0.02171 | 0.02171 | 50 | 99% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.05075 | 0.05075 | | 0.05 | 0 | 0 | 0.00014 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.04963 | 0.04963 | | 0.05 | 0 | 0 | 0.000041 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.0508 | 0.0508 | | 0.05 | 0 | 0 | 0.00061 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.05124 | 0.05124 | | 0.05 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 102% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.04717 | 0.04717 | | 0.05 | 0 | 0 | 0.000094 | 0.001 | 1 | 94% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.05089 | 0.05089 | | 0.05 | 0 | 0 | 0.000052 | 0.0003 | 1 | 102% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.04946 | 0.04946 | | 0.05 | 0 | 0 | 0.0013 | 0.0013 | 1 | 99% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.0515 | 0.0515 | | 0.05 | 0 | 0 | 0.00273 | 0.00273 | 1 | 103% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 1.297 | 1.297 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|--------|---------------|-------------|-------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998116 | CCB | ICPMS-6020-W- | CCB | | 1/21/2022 10:41: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | -0.0002342 | -0.0002342 | | 0 | 0 | 0 | 0.00086 | 0.001 | 1 | 0% | | | 0% | |
| Antimony | A | mg/L | 0.00007343 | 0.00007343 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | | | 0% | |
| Arsenic | A | mg/L | -0.00000649 | -0.00000649 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | | | 0% | |
| Barium | A | mg/L | 0.000003068 | 0.000003068 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | | | 0% | |
| Beryllium | A | mg/L | -0.00004855 | -0.00004855 | | 0 | 0 | 0 | 0.00012 | 0.001 | 1 | 0% | | | 0% | |
| Boron | A | mg/L | 0.0006872 | 0.0006872 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | | | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|-------------|-------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998116 | CCB | ICPMS-6020-W- | CCB | | 1/21/2022 10:41: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Cadmium | A | mg/L | 0.000005468 | 0.000005468 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | | | 0% | |
| Calcium | A | mg/L | -0.000987 | -0.000987 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | | | 0% | |
| Cerium | A | mg/L | -3.184E-07 | -3.184E-07 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0.00003726 | 0.00003726 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | | | 0% | |
| Cobalt | A | mg/L | 6.183E-07 | 6.183E-07 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | | | 0% | |
| Copper | A | mg/L | -1.554E-06 | -1.554E-06 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | | | 0% | |
| Iron | A | mg/L | 0.0000364 | 0.0000364 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | | | 0% | |
| Lanthanum | A | mg/L | -1.565E-07 | -1.565E-07 | | 0 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.000005666 | 0.000005666 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | | | 0% | |
| Magnesium | A | mg/L | 0.0006683 | 0.0006683 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | | | 0% | |
| Manganese | A | mg/L | 0.000003757 | 0.000003757 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | | | 0% | |
| Mercury | A | mg/L | 0.000008504 | 0.000008504 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | | | 0% | |
| Molybdenum | A | mg/L | 0.00001933 | 0.00001933 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | | | 0% | |
| Nickel | A | mg/L | 0.00000654 | 0.00000654 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | | | 0% | |
| Potassium | A | mg/L | -0.02305 | -0.02305 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | | | 0% | |
| Selenium | A | mg/L | 2.318E-08 | 2.318E-08 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | | | 0% | |
| Silicon | A | mg/L | 0.004356 | 0.004356 | | 0 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -3.884E-06 | -3.884E-06 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | | | 0% | |
| Sodium | A | mg/L | 0.04638 | 0.04638 | | 0 | 0 | 0 | 0.02171 | 0.02171 | 50 | 0% | | | 0% | |
| Strontium | A | mg/L | -5.696E-06 | -5.696E-06 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.0001082 | 0.0001082 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | 0.0000127 | 0.0000127 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Tin | A | mg/L | 0.00003041 | 0.00003041 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.00001862 | 0.00001862 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.000002186 | 0.000002186 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | A | mg/L | 0.001181 | 0.001181 | | 0 | 0 | 0 | 0.0013 | 0.0013 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | A | mg/L | 0.00002549 | 0.00002549 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | C | mg/L | 0.0000364 | 0.0000364 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|--------------|--------|--------|--------|------|-----|------|------|---|
| 14998117 | B22011128-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 10:47: | 1 | 163063 | 1/19/2022 2: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|---------------|---------------|-------------|-----------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|----|
| 14998117 | B22011128-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 10:47: | 1 | 163063 | 1/19/2022 2: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.0003759 | 0.0003759 | | 0 | 0 | 0 | 0.0002799 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Arsenic | A | mg/L | 0.003608 | 0.003608 | | 0 | 0 | 0 | 0.0003412 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.0268 | 0.0268 | | 0 | 0 | 0 | 0.0002682 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00000783 | 0 | | 0 | 0 | 0 | 1.821E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | U |
| Cerium | A | mg/L | 0.000007195 | 0 | | 0 | 0 | 0 | 2.738E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Cobalt | A | mg/L | 0.0001425 | 0.0001425 | | 0 | 0 | 0 | 9.541E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lanthanum | A | mg/L | 0.000003703 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Lead | A | mg/L | 0.0000379 | 0 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Manganese | A | mg/L | 0.001683 | 0.001683 | | 0 | 0 | 0 | 0.0005399 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.0102 | 0.0102 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.0007998 | 0.0007998 | | 0 | 0 | 0 | 0.0001357 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Silver | A | mg/L | -0.00005617 | 0 | | 0 | 0 | 0 | 4.281E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Strontium | A | mg/L | 0.2849 | 0.2849 | | 0 | 0 | 0 | 0.0002433 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00007017 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Titanium | A | mg/L | 0.001805 | 0.001805 | | 0 | 0 | 0 | 0.0005733 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.0003928 | 0.0003928 | | 0 | 0 | 0 | 1.699E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Boron | B | mg/L | 0.08254 | 0.08254 | | 0 | 0 | 0 | 0.0203802 | 0.01467 | 1 | 0% | 0 | 0 | 0% | D |
| Calcium | B | mg/L | 24.71 | 24.71 | | 0 | 0 | 0 | 0.0372936 | 0.1103481 | 50 | 0% | 0 | 0 | 0% | D |
| Chromium | B | mg/L | 0.001512 | 0 | | 0 | 0 | 0 | 0.0015375 | 0.0015375 | 1 | 0% | 0 | 0 | 0% | UL |
| Copper | B | mg/L | 0.0007977 | 0 | | 0 | 0 | 0 | 0.0008747 | 0.00198 | 1 | 0% | 0 | 0 | 0% | UL |
| Iron | B | mg/L | 0.003754 | 0 | | 0 | 0 | 0 | 0.007424 | 0.00513 | 5 | 0% | 0 | 0 | 0% | UL |
| Magnesium | B | mg/L | 25.86 | 25.86 | | 0 | 0 | 0 | 0.0104254 | 0.0081522 | 50 | 0% | 0 | 0 | 0% | D |
| Nickel | B | mg/L | 0.0009634 | 0.0009634 | | 0 | 0 | 0 | 0.0002288 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | JL |
| Potassium | B | mg/L | 6.077 | 6.077 | | 0 | 0 | 0 | 0.0765619 | 0.0261205 | 50 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | 0.00004114 | 0 | | 0 | 0 | 0 | 0.0003796 | 0.00415 | 1 | 0% | 0 | 0 | 0% | UL |
| Tin | B | mg/L | 0.0007007 | 0 | | 0 | 0 | 0 | 0.0018932 | 0.0011175 | 0.1 | 0% | 0 | 0 | 0% | U |
| Vanadium | B | mg/L | 0.01481 | 0.01481 | | 0 | 0 | 0 | 0.0039127 | 0.0021085 | 1 | 0% | 0 | 0 | 0% | D |
| Zinc | B | mg/L | 0.000614 | 0 | | 0 | 0 | 0 | 0.0011617 | 0.0065544 | 1 | 0% | 0 | 0 | 0% | UL |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998118 | B22011129-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 10:54: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|---------------|---------------|-------------|------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998118 | B22011129-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 10:54: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.0003035 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | -0.0001268 | 0 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.003714 | 0.003714 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00003405 | 0.00003405 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Cerium | A | mg/L | 0.000006259 | 0 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0.002164 | 0.002164 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0.00004395 | 0.00004395 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Copper | A | mg/L | 0.0001157 | 0 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00001611 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Manganese | A | mg/L | 0.01176 | 0.01176 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 0.00000423 | 0 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.0001148 | 0.0001148 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Nickel | A | mg/L | 0.0007181 | 0.0007181 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Selenium | A | mg/L | 0.0001645 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -0.00006297 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.09483 | 0.09483 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00002111 | 0 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | -9.202E-06 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.001382 | 0.001382 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.000009759 | 0 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Boron | B | mg/L | 0.03027 | 0.03027 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | 0 | 0 | 0% | D |
| Calcium | B | mg/L | 14.83 | 14.83 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | D |
| Iron | B | mg/L | 0.01851 | 0.01851 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0.01851 | 0.01851 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | 15.64 | 15.64 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | D |
| Potassium | B | mg/L | 1.815 | 1.815 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | 0 | 0 | 0% | D |
| Sodium | B | mg/L | 33.23 | 33.23 | | 0 | 0 | 0 | 0.02171 | 0.02171 | 50 | 0% | 0 | 0 | 0% | D |
| Tin | B | mg/L | -0.0000648 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.001553 | 0 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|--------------|--------|--------|--------|------|-----|------|------|---|
| 14998119 | B22011129-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 11:00: | 1 | 163063 | 1/19/2022 2: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|---------------|---------------|-------------|-----------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|----|
| 14998119 | B22011129-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 11:00: | 1 | 163063 | 1/19/2022 2: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.0008115 | 0.0008115 | | 0 | 0 | 0 | 0.0002799 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Arsenic | A | mg/L | 0.0001816 | 0 | | 0 | 0 | 0 | 0.0003412 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Barium | A | mg/L | 0.004978 | 0.004978 | | 0 | 0 | 0 | 0.0002682 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.000006782 | 0 | | 0 | 0 | 0 | 1.821E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | U |
| Cerium | A | mg/L | 0.0003684 | 0.0003684 | | 0 | 0 | 0 | 2.738E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Cobalt | A | mg/L | 0.0003824 | 0.0003824 | | 0 | 0 | 0 | 9.541E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lanthanum | A | mg/L | 0.0001393 | 0.0001393 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Lead | A | mg/L | 0.0003998 | 0.0003998 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Manganese | A | mg/L | 0.03747 | 0.03747 | | 0 | 0 | 0 | 0.0005399 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.0005254 | 0.0005254 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Selenium | A | mg/L | 0.0002099 | 0.0002099 | | 0 | 0 | 0 | 0.0001357 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Silver | A | mg/L | -0.00002879 | 0 | | 0 | 0 | 0 | 4.281E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Strontium | A | mg/L | 0.1025 | 0.1025 | | 0 | 0 | 0 | 0.0002433 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.0000373 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Titanium | A | mg/L | 0.02633 | 0.02633 | | 0 | 0 | 0 | 0.0005733 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00001665 | 0 | | 0 | 0 | 0 | 1.699E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | U |
| Boron | B | mg/L | 0.0285 | 0.0285 | | 0 | 0 | 0 | 0.0203802 | 0.01467 | 1 | 0% | 0 | 0 | 0% | UD |
| Calcium | B | mg/L | 14.51 | 14.51 | | 0 | 0 | 0 | 0.0372936 | 0.1103481 | 50 | 0% | 0 | 0 | 0% | D |
| Chromium | B | mg/L | 0.003322 | 0.003322 | | 0 | 0 | 0 | 0.0015375 | 0.0015375 | 1 | 0% | 0 | 0 | 0% | UD |
| Copper | B | mg/L | 0.002172 | 0.002172 | | 0 | 0 | 0 | 0.0008747 | 0.00198 | 1 | 0% | 0 | 0 | 0% | D |
| Iron | B | mg/L | 0.4776 | 0.4776 | | 0 | 0 | 0 | 0.007424 | 0.00513 | 5 | 0% | 0 | 0 | 0% | D |
| Magnesium | B | mg/L | 14.55 | 14.55 | | 0 | 0 | 0 | 0.0104254 | 0.0081522 | 50 | 0% | 0 | 0 | 0% | D |
| Nickel | B | mg/L | 0.003188 | 0.003188 | | 0 | 0 | 0 | 0.0002288 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | D |
| Potassium | B | mg/L | 1.65 | 1.65 | | 0 | 0 | 0 | 0.0765619 | 0.0261205 | 50 | 0% | 0 | 0 | 0% | D |
| Sodium | B | mg/L | 31.15 | 31.15 | | 0 | 0 | 0 | 0.1019461 | 0.7330269 | 50 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | 0.00002183 | 0 | | 0 | 0 | 0 | 0.0003796 | 0.00415 | 1 | 0% | 0 | 0 | 0% | UL |
| Tin | B | mg/L | 0.0006242 | 0 | | 0 | 0 | 0 | 0.0018932 | 0.0011175 | 0.1 | 0% | 0 | 0 | 0% | U |
| Vanadium | B | mg/L | 0.01937 | 0.01937 | | 0 | 0 | 0 | 0.0039127 | 0.0021085 | 1 | 0% | 0 | 0 | 0% | D |
| Zinc | B | mg/L | 0.0137 | 0.0137 | | 0 | 0 | 0 | 0.0011617 | 0.0065544 | 1 | 0% | 0 | 0 | 0% | D |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998120 | B22011130-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 11:06: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|---------------|---------------|-------------|------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998120 | B22011130-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 11:06: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | -7.031E-06 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0.0002981 | 0.0002981 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Barium | A | mg/L | 0.005723 | 0.005723 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00003637 | 0.00003637 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Cerium | A | mg/L | 0.000002374 | 0 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0.00163 | 0.00163 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0.00001793 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0.0001957 | 0 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00001067 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Manganese | A | mg/L | 0.00007648 | 0 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 0.000002265 | 0 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.0007269 | 0.0007269 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Nickel | A | mg/L | 0.0002081 | 0 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.00005329 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -0.00005767 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.1164 | 0.1164 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.000007126 | 0 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | -0.00001035 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.001035 | 0.001035 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00003377 | 0 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Boron | B | mg/L | 0.02148 | 0.02148 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | 0 | 0 | 0% | D |
| Calcium | B | mg/L | 17.32 | 17.32 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | D |
| Iron | B | mg/L | 0.001948 | 0.001948 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0.001948 | 0.001948 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | 15.49 | 15.49 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | D |
| Potassium | B | mg/L | 2.341 | 2.341 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | 0 | 0 | 0% | D |
| Sodium | B | mg/L | 36.41 | 36.41 | | 0 | 0 | 0 | 0.02171 | 0.02171 | 50 | 0% | 0 | 0 | 0% | D |
| Tin | B | mg/L | -0.00008137 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.003024 | 0.003024 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | D |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|--------------|--------|--------|--------|------|-----|------|------|---|
| 14998121 | B22011130-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 11:12: | 1 | 163063 | 1/19/2022 2: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|---------------|---------------|-------------|------------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|----|
| 14998121 | B22011130-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 11:12: | 1 | 163063 | 1/19/2022 2: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.00001403 | 0 | | 0 | 0 | 0 | 0.0002799 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Arsenic | A | mg/L | 0.0005917 | 0.0005917 | | 0 | 0 | 0 | 0.0003412 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Barium | A | mg/L | 0.005966 | 0.005966 | | 0 | 0 | 0 | 0.0002682 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | -0.00000208 | 0 | | 0 | 0 | 0 | 1.821E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | U |
| Cerium | A | mg/L | 0.000009284 | 0 | | 0 | 0 | 0 | 2.738E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Cobalt | A | mg/L | 0.0001026 | 0.0001026 | | 0 | 0 | 0 | 9.541E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lanthanum | A | mg/L | 0.000003889 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Lead | A | mg/L | 0.00002102 | 0 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Manganese | A | mg/L | 0.0002813 | 0 | | 0 | 0 | 0 | 0.0005399 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Molybdenum | A | mg/L | 0.0008844 | 0.0008844 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Selenium | A | mg/L | 0.0001055 | 0 | | 0 | 0 | 0 | 0.0001357 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Silver | A | mg/L | -0.00005202 | 0 | | 0 | 0 | 0 | 4.281E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Strontium | A | mg/L | 0.1227 | 0.1227 | | 0 | 0 | 0 | 0.0002433 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00002462 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Titanium | A | mg/L | 0.002082 | 0.002082 | | 0 | 0 | 0 | 0.0005733 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00003605 | 0.00003605 | | 0 | 0 | 0 | 1.699E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | J |
| Boron | B | mg/L | 0.0206 | 0.0206 | | 0 | 0 | 0 | 0.0203802 | 0.01467 | 1 | 0% | 0 | 0 | 0% | UD |
| Calcium | B | mg/L | 16.34 | 16.34 | | 0 | 0 | 0 | 0.0372936 | 0.1103481 | 50 | 0% | 0 | 0 | 0% | D |
| Chromium | B | mg/L | 0.001867 | 0.001867 | | 0 | 0 | 0 | 0.0015375 | 0.0015375 | 1 | 0% | 0 | 0 | 0% | UD |
| Copper | B | mg/L | 0.0003099 | 0 | | 0 | 0 | 0 | 0.0008747 | 0.00198 | 1 | 0% | 0 | 0 | 0% | UL |
| Iron | B | mg/L | 0.01164 | 0.01164 | | 0 | 0 | 0 | 0.007424 | 0.00513 | 5 | 0% | 0 | 0 | 0% | UD |
| Magnesium | B | mg/L | 14.13 | 14.13 | | 0 | 0 | 0 | 0.0104254 | 0.0081522 | 50 | 0% | 0 | 0 | 0% | D |
| Nickel | B | mg/L | 0.0003234 | 0.0003234 | | 0 | 0 | 0 | 0.0002288 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | JL |
| Potassium | B | mg/L | 2.04 | 2.04 | | 0 | 0 | 0 | 0.0765619 | 0.0261205 | 50 | 0% | 0 | 0 | 0% | D |
| Sodium | B | mg/L | 34.05 | 34.05 | | 0 | 0 | 0 | 0.1019461 | 0.7330269 | 50 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | 0.000005429 | 0 | | 0 | 0 | 0 | 0.0003796 | 0.00415 | 1 | 0% | 0 | 0 | 0% | UL |
| Tin | B | mg/L | 0.0003966 | 0 | | 0 | 0 | 0 | 0.0018932 | 0.0011175 | 0.1 | 0% | 0 | 0 | 0% | U |
| Vanadium | B | mg/L | 0.01096 | 0.01096 | | 0 | 0 | 0 | 0.0039127 | 0.0021085 | 1 | 0% | 0 | 0 | 0% | D |
| Zinc | B | mg/L | 0.00538 | 0.00538 | | 0 | 0 | 0 | 0.0011617 | 0.0065544 | 1 | 0% | 0 | 0 | 0% | JL |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998122 | B22011131-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 11:19: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|---------------|---------------|-------------|------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998122 | B22011131-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 11:19: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.0003964 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0.00119 | 0.00119 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.02133 | 0.02133 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00003512 | 0.00003512 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Cerium | A | mg/L | 0.000001339 | 0 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0.002006 | 0.002006 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0.0000125 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0.0002487 | 0 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.000004602 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Manganese | A | mg/L | 0.001987 | 0.001987 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 0.0001852 | 0.0001852 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | J |
| Molybdenum | A | mg/L | 0.00396 | 0.00396 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0.0002827 | 0 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.00007606 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -0.00006117 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.1168 | 0.1168 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.000003154 | 0 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | -9.881E-06 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.0009548 | 0.0009548 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Uranium | A | mg/L | 0.0002855 | 0.0002855 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | J |
| Boron | B | mg/L | 0.02886 | 0.02886 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | 0 | 0 | 0% | D |
| Calcium | B | mg/L | 12.86 | 12.86 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | D |
| Iron | B | mg/L | 0.001219 | 0.001219 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0.001219 | 0.001219 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | 8.939 | 8.939 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | D |
| Potassium | B | mg/L | 2.826 | 2.826 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | 0 | 0 | 0% | D |
| Sodium | B | mg/L | 41.59 | 41.59 | | 0 | 0 | 0 | 0.02171 | 0.02171 | 50 | 0% | 0 | 0 | 0% | D |
| Tin | B | mg/L | -0.00001483 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.0005341 | 0 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|--------------|--------|--------|--------|------|-----|------|------|---|
| 14998123 | B22011131-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 11:25: | 1 | 163063 | 1/19/2022 2: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|---------------|---------------|-------------|------------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|----|
| 14998123 | B22011131-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 11:25: | 1 | 163063 | 1/19/2022 2: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.0004222 | 0.0004222 | | 0 | 0 | 0 | 0.0002799 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Arsenic | A | mg/L | 0.00151 | 0.00151 | | 0 | 0 | 0 | 0.0003412 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.02184 | 0.02184 | | 0 | 0 | 0 | 0.0002682 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | -6.33E-07 | 0 | | 0 | 0 | 0 | 1.821E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | U |
| Cerium | A | mg/L | 0.00004346 | 0.00004346 | | 0 | 0 | 0 | 2.738E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Cobalt | A | mg/L | 0.0001109 | 0.0001109 | | 0 | 0 | 0 | 9.541E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lanthanum | A | mg/L | 0.00002156 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Lead | A | mg/L | 0.00002434 | 0 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Manganese | A | mg/L | 0.004207 | 0.004207 | | 0 | 0 | 0 | 0.0005399 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.004046 | 0.004046 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.0001249 | 0 | | 0 | 0 | 0 | 0.0001357 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Silver | A | mg/L | -0.00005452 | 0 | | 0 | 0 | 0 | 4.281E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Strontium | A | mg/L | 0.1233 | 0.1233 | | 0 | 0 | 0 | 0.0002433 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00001807 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Titanium | A | mg/L | 0.002296 | 0.002296 | | 0 | 0 | 0 | 0.0005733 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.0003055 | 0.0003055 | | 0 | 0 | 0 | 1.699E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Boron | B | mg/L | 0.02929 | 0.02929 | | 0 | 0 | 0 | 0.0203802 | 0.01467 | 1 | 0% | 0 | 0 | 0% | UD |
| Calcium | B | mg/L | 12.47 | 12.47 | | 0 | 0 | 0 | 0.0372936 | 0.1103481 | 50 | 0% | 0 | 0 | 0% | D |
| Chromium | B | mg/L | 0.002285 | 0.002285 | | 0 | 0 | 0 | 0.0015375 | 0.0015375 | 1 | 0% | 0 | 0 | 0% | UD |
| Copper | B | mg/L | 0.000574 | 0 | | 0 | 0 | 0 | 0.0008747 | 0.00198 | 1 | 0% | 0 | 0 | 0% | UL |
| Iron | B | mg/L | 0.02325 | 0.02325 | | 0 | 0 | 0 | 0.007424 | 0.00513 | 5 | 0% | 0 | 0 | 0% | D |
| Magnesium | B | mg/L | 8.757 | 8.757 | | 0 | 0 | 0 | 0.0104254 | 0.0081522 | 50 | 0% | 0 | 0 | 0% | D |
| Nickel | B | mg/L | 0.0003763 | 0.0003763 | | 0 | 0 | 0 | 0.0002288 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | JL |
| Potassium | B | mg/L | 2.544 | 2.544 | | 0 | 0 | 0 | 0.0765619 | 0.0261205 | 50 | 0% | 0 | 0 | 0% | D |
| Sodium | B | mg/L | 39.57 | 39.57 | | 0 | 0 | 0 | 0.1019461 | 0.7330269 | 50 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | 0.000008811 | 0 | | 0 | 0 | 0 | 0.0003796 | 0.00415 | 1 | 0% | 0 | 0 | 0% | UL |
| Tin | B | mg/L | 0.0004992 | 0 | | 0 | 0 | 0 | 0.0018932 | 0.0011175 | 0.1 | 0% | 0 | 0 | 0% | U |
| Vanadium | B | mg/L | 0.01128 | 0.01128 | | 0 | 0 | 0 | 0.0039127 | 0.0021085 | 1 | 0% | 0 | 0 | 0% | D |
| Zinc | B | mg/L | 0.002062 | 0.002062 | | 0 | 0 | 0 | 0.0011617 | 0.0065544 | 1 | 0% | 0 | 0 | 0% | JL |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998124 | B22011132-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 11:31: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|---------------|---------------|-------------|-----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998124 | B22011132-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 11:31: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.000281 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | -0.0000949 | 0 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.004471 | 0.004471 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.0000375 | 0.0000375 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Cerium | A | mg/L | 5.524E-07 | 0 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0.002114 | 0.002114 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0.000007926 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0.0004087 | 0.0004087 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lead | A | mg/L | 0.00001169 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Manganese | A | mg/L | 0.00006936 | 0 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 0.00001301 | 0 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.0001644 | 0.0001644 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Nickel | A | mg/L | 0.0002531 | 0 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.0001895 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -0.00006244 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.07706 | 0.07706 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | -5.263E-06 | 0 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | -9.944E-06 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.001217 | 0.001217 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00001479 | 0 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Boron | B | mg/L | 0.04169 | 0.04169 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | 0 | 0 | 0% | D |
| Calcium | B | mg/L | 11.02 | 11.02 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | D |
| Iron | B | mg/L | 0.0006713 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0.0006713 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | 11.14 | 11.14 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | D |
| Potassium | B | mg/L | 1.775 | 1.775 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | 0 | 0 | 0% | D |
| Sodium | B | mg/L | 35.44 | 35.44 | | 0 | 0 | 0 | 0.02171 | 0.02171 | 50 | 0% | 0 | 0 | 0% | D |
| Tin | B | mg/L | -0.00007773 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.01025 | 0.01025 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | D |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|--------------|--------|--------|--------|------|-----|------|------|---|
| 14998125 | B22011132-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 11:37: | 1 | 163063 | 1/20/2022 8: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|---------------|---------------|-------------|------------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|----|
| 14998125 | B22011132-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 11:37: | 1 | 163063 | 1/20/2022 8: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.0002859 | 0.0002859 | | 0 | 0 | 0 | 0.0002799 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Arsenic | A | mg/L | 0.0001667 | 0 | | 0 | 0 | 0 | 0.0003412 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Barium | A | mg/L | 0.005615 | 0.005615 | | 0 | 0 | 0 | 0.0002682 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.000002037 | 0 | | 0 | 0 | 0 | 1.821E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | U |
| Cerium | A | mg/L | 0.00003508 | 0.00003508 | | 0 | 0 | 0 | 2.738E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Cobalt | A | mg/L | 0.0001119 | 0.0001119 | | 0 | 0 | 0 | 9.541E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lanthanum | A | mg/L | 0.00001699 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Lead | A | mg/L | 0.0001426 | 0.0001426 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Manganese | A | mg/L | 0.001212 | 0.001212 | | 0 | 0 | 0 | 0.0005399 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.0002204 | 0.0002204 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Selenium | A | mg/L | 0.0002263 | 0.0002263 | | 0 | 0 | 0 | 0.0001357 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Silver | A | mg/L | -0.00002552 | 0 | | 0 | 0 | 0 | 4.281E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Strontium | A | mg/L | 0.08028 | 0.08028 | | 0 | 0 | 0 | 0.0002433 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00001324 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Titanium | A | mg/L | 0.002541 | 0.002541 | | 0 | 0 | 0 | 0.0005733 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00001675 | 0 | | 0 | 0 | 0 | 1.699E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | U |
| Boron | B | mg/L | 0.0414 | 0.0414 | | 0 | 0 | 0 | 0.0203802 | 0.01467 | 1 | 0% | 0 | 0 | 0% | UD |
| Calcium | B | mg/L | 10.85 | 10.85 | | 0 | 0 | 0 | 0.0372936 | 0.1103481 | 50 | 0% | 0 | 0 | 0% | D |
| Chromium | B | mg/L | 0.002464 | 0.002464 | | 0 | 0 | 0 | 0.0015375 | 0.0015375 | 1 | 0% | 0 | 0 | 0% | UD |
| Copper | B | mg/L | 0.0009106 | 0.0009106 | | 0 | 0 | 0 | 0.0008747 | 0.00198 | 1 | 0% | 0 | 0 | 0% | JL |
| Iron | B | mg/L | 0.04234 | 0.04234 | | 0 | 0 | 0 | 0.007424 | 0.00513 | 5 | 0% | 0 | 0 | 0% | D |
| Magnesium | B | mg/L | 10.88 | 10.88 | | 0 | 0 | 0 | 0.0104254 | 0.0081522 | 50 | 0% | 0 | 0 | 0% | D |
| Nickel | B | mg/L | 0.0004257 | 0.0004257 | | 0 | 0 | 0 | 0.0002288 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | JL |
| Potassium | B | mg/L | 1.57 | 1.57 | | 0 | 0 | 0 | 0.0765619 | 0.0261205 | 50 | 0% | 0 | 0 | 0% | D |
| Sodium | B | mg/L | 34.22 | 34.22 | | 0 | 0 | 0 | 0.1019461 | 0.7330269 | 50 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | 0.000002105 | 0 | | 0 | 0 | 0 | 0.0003796 | 0.00415 | 1 | 0% | 0 | 0 | 0% | UL |
| Tin | B | mg/L | 0.0005064 | 0 | | 0 | 0 | 0 | 0.0018932 | 0.0011175 | 0.1 | 0% | 0 | 0 | 0% | U |
| Vanadium | B | mg/L | 0.01758 | 0.01758 | | 0 | 0 | 0 | 0.0039127 | 0.0021085 | 1 | 0% | 0 | 0 | 0% | D |
| Zinc | B | mg/L | 0.02314 | 0.02314 | | 0 | 0 | 0 | 0.0011617 | 0.0065544 | 1 | 0% | 0 | 0 | 0% | D |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998126 | B22011133-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 11:44: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|---------------|---------------|-------------|------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998126 | B22011133-001 | ICPMS-6020-W- | SAMP | | 1/21/2022 11:44: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.0001326 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0.001093 | 0.001093 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.0724 | 0.0724 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00003774 | 0.00003774 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Cerium | A | mg/L | 6.775E-07 | 0 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0.009272 | 0.009272 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0.0008989 | 0.0008989 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Copper | A | mg/L | 0.0009924 | 0.0009924 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lead | A | mg/L | 0.000005822 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Manganese | A | mg/L | 0.002718 | 0.002718 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 0.00002674 | 0 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.0009996 | 0.0009996 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Nickel | A | mg/L | 0.05779 | 0.05779 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.004427 | 0.004427 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -0.00005871 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | -0.00001612 | 0 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | -9.707E-06 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.001958 | 0.001958 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00007574 | 0.00007574 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | J |
| Boron | B | mg/L | 0.04515 | 0.04515 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | 0 | 0 | 0% | D |
| Iron | B | mg/L | 0.004351 | 0.004351 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0.004351 | 0.004351 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Potassium | B | mg/L | 7.22 | 7.22 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | 0 | 0 | 0% | D |
| Tin | B | mg/L | -0.00006635 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.001154 | 0 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|--------|---------------|------------|---------|------------------|-------|----------|-----------|----------|--------|--------|------|-----|------|------|---|
| 14998127 | CCV | ICPMS-6020-W- | CCV | | 1/21/2022 11:50: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.05818 | 0.05818 | | 0.05 | 0 | 0 | 0.00086 | 0.001 | 1 | 116% | 90 | 110 | 0% | S |
| Antimony | A | mg/L | 0.0523 | 0.0523 | | 0.05 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 105% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.05116 | 0.05116 | | 0.05 | 0 | 0 | 0.00019 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.04946 | 0.04946 | | 0.05 | 0 | 0 | 0.000042 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.04736 | 0.04736 | | 0.05 | 0 | 0 | 0.00012 | 0.001 | 1 | 95% | 90 | 110 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|------------|-----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998127 | CCV | ICPMS-6020-W- | CCV | | 1/21/2022 11:50: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Boron | A | mg/L | 0.04881 | 0.04881 | | 0.05 | 0 | 0 | 0.00561 | 0.00561 | 1 | 98% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.05042 | 0.05042 | | 0.05 | 0 | 0 | 0.000025 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 12.71 | 12.71 | | 12.5 | 0 | 0 | 0.02092 | 0.02092 | 50 | 102% | 90 | 110 | 0% | |
| Cerium | A | mg/L | 0.05136 | 0.05136 | | 0.05 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 103% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.04926 | 0.04926 | | 0.05 | 0 | 0 | 0.00018 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.04884 | 0.04884 | | 0.05 | 0 | 0 | 0.000042 | 0.001 | 1 | 98% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.05085 | 0.05085 | | 0.05 | 0 | 0 | 0.00027 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Iron | A | mg/L | 1.344 | 1.344 | | 1.3 | 0 | 0 | 0.00119 | 0.00119 | 5 | 103% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.05041 | 0.05041 | | 0.05 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 101% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.05097 | 0.05097 | | 0.05 | 0 | 0 | 0.000056 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 12.22 | 12.22 | | 12.5 | 0 | 0 | 0.00564 | 0.00564 | 50 | 98% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.05027 | 0.05027 | | 0.05 | 0 | 0 | 0.000095 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.0009697 | 0.0009697 | | 0.001 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 97% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.05008 | 0.05008 | | 0.05 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 100% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.05044 | 0.05044 | | 0.05 | 0 | 0 | 0.00063 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 12.18 | 12.18 | | 12.5 | 0 | 0 | 0.08139 | 0.08139 | 50 | 97% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.05209 | 0.05209 | | 0.05 | 0 | 0 | 0.00033 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.2286 | 0.2286 | | 0.2 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 114% | 90 | 110 | 0% | S |
| Silver | A | mg/L | 0.01981 | 0.01981 | | 0.02 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 99% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 12.58 | 12.58 | | 12.5 | 0 | 0 | 0.02171 | 0.02171 | 50 | 101% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.05114 | 0.05114 | | 0.05 | 0 | 0 | 0.00014 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.05191 | 0.05191 | | 0.05 | 0 | 0 | 0.000041 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.04975 | 0.04975 | | 0.05 | 0 | 0 | 0.00061 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.0523 | 0.0523 | | 0.05 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 105% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.04937 | 0.04937 | | 0.05 | 0 | 0 | 0.000094 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.05085 | 0.05085 | | 0.05 | 0 | 0 | 0.000052 | 0.0003 | 1 | 102% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.05149 | 0.05149 | | 0.05 | 0 | 0 | 0.0013 | 0.0013 | 1 | 103% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.05105 | 0.05105 | | 0.05 | 0 | 0 | 0.00273 | 0.00273 | 1 | 102% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 1.344 | 1.344 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|--------|---------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998128 | CCB | ICPMS-6020-W- | CCB | | 1/21/2022 11:56: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|-------------|-------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|----|
| 14998128 | CCB | ICPMS-6020-W- | CCB | | 1/21/2022 11:56: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | -0.000339 | -0.000339 | | 0 | 0 | 0 | 0.00086 | 0.001 | 1 | 0% | | | | 0% |
| Antimony | A | mg/L | 0.00007495 | 0.00007495 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | | | | 0% |
| Arsenic | A | mg/L | 0.00006573 | 0.00006573 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | | | | 0% |
| Barium | A | mg/L | -1.733E-06 | -1.733E-06 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | | | | 0% |
| Beryllium | A | mg/L | -0.00005059 | -0.00005059 | | 0 | 0 | 0 | 0.00012 | 0.001 | 1 | 0% | | | | 0% |
| Boron | A | mg/L | 0.0003157 | 0.0003157 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | | | | 0% |
| Cadmium | A | mg/L | -1.127E-06 | -1.127E-06 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | | | | 0% |
| Calcium | A | mg/L | -0.0002939 | -0.0002939 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | | | | 0% |
| Cerium | A | mg/L | 5.567E-08 | 5.567E-08 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | | 0% |
| Chromium | A | mg/L | 0.00002364 | 0.00002364 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | | | | 0% |
| Cobalt | A | mg/L | -1.098E-06 | -1.098E-06 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | | | | 0% |
| Copper | A | mg/L | 0.000002342 | 0.000002342 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | | | | 0% |
| Iron | A | mg/L | 0.00006397 | 0.00006397 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | | | | 0% |
| Lanthanum | A | mg/L | -2.341E-07 | -2.341E-07 | | 0 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 0% | 0 | 0 | | 0% |
| Lead | A | mg/L | 0.000004174 | 0.000004174 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | | | | 0% |
| Magnesium | A | mg/L | 0.0008478 | 0.0008478 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | | | | 0% |
| Manganese | A | mg/L | 5.339E-07 | 5.339E-07 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | | | | 0% |
| Mercury | A | mg/L | 0.000003297 | 0.000003297 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | | | | 0% |
| Molybdenum | A | mg/L | 0.00001823 | 0.00001823 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | | | | 0% |
| Nickel | A | mg/L | -6.251E-07 | -6.251E-07 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | | | | 0% |
| Potassium | A | mg/L | -0.01622 | -0.01622 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | | | | 0% |
| Selenium | A | mg/L | 0.00001621 | 0.00001621 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | | | | 0% |
| Silicon | A | mg/L | 0.003727 | 0.003727 | | 0 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 0% | 0 | 0 | | 0% |
| Silver | A | mg/L | -8.698E-07 | -8.698E-07 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | | | | 0% |
| Sodium | A | mg/L | 0.02506 | 0.02506 | | 0 | 0 | 0 | 0.02171 | 0.02171 | 50 | 0% | | | | 0% |
| Strontium | A | mg/L | -9.843E-06 | -9.843E-06 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Thallium | A | mg/L | 0.0001068 | 0.0001068 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Thorium | A | mg/L | 0.0000115 | 0.0000115 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Tin | A | mg/L | 0.0000378 | 0.0000378 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | | 0% |
| Titanium | A | mg/L | 0.0000113 | 0.0000113 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Uranium | A | mg/L | 0.000002424 | 0.000002424 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | | 0% |
| Vanadium | A | mg/L | 0.001974 | 0.001974 | | 0 | 0 | 0 | 0.0013 | 0.0013 | 1 | 0% | 0 | 0 | | 0% |
| Zinc | A | mg/L | 0.00002787 | 0.00002787 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | | 0% |
| Iron, Ferrous | C | mg/L | 0.00006397 | 0.00006397 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | | 0% |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|---------------|---------------|-------------|------------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|----|
| 14998129 | B22011133-001 | ICPMS-6020-W- | SAMP | | 1/22/2022 12:02: | 1 | 163063 | 1/19/2022 2: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.0002347 | 0 | | 0 | 0 | 0 | 0.0002799 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Arsenic | A | mg/L | 0.001634 | 0.001634 | | 0 | 0 | 0 | 0.0003412 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.07329 | 0.07329 | | 0 | 0 | 0 | 0.0002682 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.000006096 | 0 | | 0 | 0 | 0 | 1.821E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | U |
| Cerium | A | mg/L | 0.000001372 | 0 | | 0 | 0 | 0 | 2.738E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Cobalt | A | mg/L | 0.001106 | 0.001106 | | 0 | 0 | 0 | 9.541E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lanthanum | A | mg/L | 0.000001288 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Lead | A | mg/L | 0.00002835 | 0 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Manganese | A | mg/L | 0.00293 | 0.00293 | | 0 | 0 | 0 | 0.0005399 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.001347 | 0.001347 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.004572 | 0.004572 | | 0 | 0 | 0 | 0.0001357 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -0.00005973 | 0 | | 0 | 0 | 0 | 4.281E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Thallium | A | mg/L | 0.00005017 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Titanium | A | mg/L | 0.002131 | 0.002131 | | 0 | 0 | 0 | 0.0005733 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00007933 | 0.00007933 | | 0 | 0 | 0 | 1.699E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | J |
| Boron | B | mg/L | 0.04443 | 0.04443 | | 0 | 0 | 0 | 0.0203802 | 0.01467 | 1 | 0% | 0 | 0 | 0% | UD |
| Chromium | B | mg/L | 0.01244 | 0.01244 | | 0 | 0 | 0 | 0.0015375 | 0.0015375 | 1 | 0% | 0 | 0 | 0% | D |
| Copper | B | mg/L | 0.0004663 | 0 | | 0 | 0 | 0 | 0.0008747 | 0.00198 | 1 | 0% | 0 | 0 | 0% | UL |
| Iron | B | mg/L | 0.08678 | 0.08678 | | 0 | 0 | 0 | 0.007424 | 0.00513 | 5 | 0% | 0 | 0 | 0% | D |
| Nickel | B | mg/L | 0.05736 | 0.05736 | | 0 | 0 | 0 | 0.0002288 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | 0.00003278 | 0 | | 0 | 0 | 0 | 0.0003796 | 0.00415 | 1 | 0% | 0 | 0 | 0% | UL |
| Tin | B | mg/L | 0.0003988 | 0 | | 0 | 0 | 0 | 0.0018932 | 0.0011175 | 0.1 | 0% | 0 | 0 | 0% | U |
| Vanadium | B | mg/L | 0.01162 | 0.01162 | | 0 | 0 | 0 | 0.0039127 | 0.0021085 | 1 | 0% | 0 | 0 | 0% | D |
| Zinc | B | mg/L | 0.0003888 | 0 | | 0 | 0 | 0 | 0.0011617 | 0.0065544 | 1 | 0% | 0 | 0 | 0% | UL |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|------------|------------------|-------|----------|-----------|----------|--------|--------|------|-----|------|------|---|
| 14998130 | B22011134-001 | ICPMS-6020-W- | SAMP | | 1/22/2022 12:09: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.00008048 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0.0008035 | 0.0008035 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Barium | A | mg/L | 0.003737 | 0.003737 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.0000314 | 0.0000314 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Cerium | A | mg/L | 0.00003768 | 0.00003768 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Chromium | A | mg/L | 0.00000358 | 0 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|---------------|---------------|-------------|-----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998130 | B22011134-001 | ICPMS-6020-W- | SAMP | | 1/22/2022 12:09: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Cobalt | A | mg/L | 0.0004601 | 0.0004601 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Copper | A | mg/L | 0.0003775 | 0.0003775 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lead | A | mg/L | 0.0000166 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Manganese | A | mg/L | 0.4932 | 0.4932 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 0.0002537 | 0.0002537 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | J |
| Molybdenum | A | mg/L | 0.0003488 | 0.0003488 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Nickel | A | mg/L | 0.0009309 | 0.0009309 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Selenium | A | mg/L | 0.000008798 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -0.00005972 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.07085 | 0.07085 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.000004007 | 0 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | -0.00000893 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.003167 | 0.003167 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00002087 | 0 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Boron | B | mg/L | 0.06345 | 0.06345 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | 0 | 0 | 0% | D |
| Calcium | B | mg/L | 10.68 | 10.68 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | D |
| Iron | B | mg/L | 0.4005 | 0.4005 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0.4005 | 0.4005 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | 10.5 | 10.5 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | D |
| Sodium | B | mg/L | 40.65 | 40.65 | | 0 | 0 | 0 | 0.02171 | 0.02171 | 50 | 0% | 0 | 0 | 0% | D |
| Tin | B | mg/L | -0.00006832 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.001452 | 0 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|---------------|---------------|------------|------------|------------------|-------|----------|--------------|-----------|--------|--------|------|-----|------|------|---|
| 14998131 | B22011134-001 | ICPMS-6020-W- | SAMP | | 1/22/2022 12:15: | 1 | 163063 | 1/19/2022 3: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.0001376 | 0 | | 0 | 0 | 0 | 0.0002799 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Arsenic | A | mg/L | 0.001298 | 0.001298 | | 0 | 0 | 0 | 0.0003412 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.004069 | 0.004069 | | 0 | 0 | 0 | 0.0002682 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | -4.955E-07 | 0 | | 0 | 0 | 0 | 1.821E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | U |
| Cerium | A | mg/L | 0.00006226 | 0.00006226 | | 0 | 0 | 0 | 2.738E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Cobalt | A | mg/L | 0.00053 | 0.00053 | | 0 | 0 | 0 | 9.541E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lanthanum | A | mg/L | 0.00001538 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Lead | A | mg/L | 0.00004677 | 0 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|---------------|--------------------|-------------|------------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|----|
| 14998131 | B22011134-001 | ICPMS-6020-W- SAMP | | | 1/22/2022 12:15: | 1 | 163063 | 1/19/2022 3: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Manganese | A | mg/L | 0.5033 | 0.5033 | | 0 | 0 | 0 | 0.0005399 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.000556 | 0.000556 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Selenium | A | mg/L | 0.00005191 | 0 | | 0 | 0 | 0 | 0.0001357 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Silver | A | mg/L | -0.00004862 | 0 | | 0 | 0 | 0 | 4.281E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Strontium | A | mg/L | 0.07368 | 0.07368 | | 0 | 0 | 0 | 0.0002433 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00001669 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Titanium | A | mg/L | 0.003704 | 0.003704 | | 0 | 0 | 0 | 0.0005733 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00001766 | 0.00001766 | | 0 | 0 | 0 | 1.699E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | J |
| Boron | B | mg/L | 0.06786 | 0.06786 | | 0 | 0 | 0 | 0.0203802 | 0.01467 | 1 | 0% | 0 | 0 | 0% | D |
| Calcium | B | mg/L | 10.28 | 10.28 | | 0 | 0 | 0 | 0.0372936 | 0.1103481 | 50 | 0% | 0 | 0 | 0% | D |
| Chromium | B | mg/L | 0.0002112 | 0 | | 0 | 0 | 0 | 0.0015375 | 0.0015375 | 1 | 0% | 0 | 0 | 0% | UL |
| Copper | B | mg/L | 0.0008374 | 0 | | 0 | 0 | 0 | 0.0008747 | 0.00198 | 1 | 0% | 0 | 0 | 0% | UL |
| Iron | B | mg/L | 0.4364 | 0.4364 | | 0 | 0 | 0 | 0.007424 | 0.00513 | 5 | 0% | 0 | 0 | 0% | D |
| Magnesium | B | mg/L | 10.4 | 10.4 | | 0 | 0 | 0 | 0.0104254 | 0.0081522 | 50 | 0% | 0 | 0 | 0% | D |
| Nickel | B | mg/L | 0.0009891 | 0.0009891 | | 0 | 0 | 0 | 0.0002288 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | JL |
| Sodium | B | mg/L | 40.71 | 40.71 | | 0 | 0 | 0 | 0.1019461 | 0.7330269 | 50 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | 0.000007451 | 0 | | 0 | 0 | 0 | 0.0003796 | 0.00415 | 1 | 0% | 0 | 0 | 0% | UL |
| Tin | B | mg/L | 0.000406 | 0 | | 0 | 0 | 0 | 0.0018932 | 0.0011175 | 0.1 | 0% | 0 | 0 | 0% | U |
| Vanadium | B | mg/L | 0.004989 | 0.004989 | | 0 | 0 | 0 | 0.0039127 | 0.0021085 | 1 | 0% | 0 | 0 | 0% | UD |
| Zinc | B | mg/L | 0.001219 | 0.001219 | | 0 | 0 | 0 | 0.0011617 | 0.0065544 | 1 | 0% | 0 | 0 | 0% | JL |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|---------------|------------------|-------------|-----------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|---|
| 14998132 | B22011134-001 | ICPMS-6020-W- SD | | | 1/22/2022 12:21: | 5 | 163063 | 1/19/2022 3: | 0 | 1E+07 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.006725 | 0.033625 | | 0 | 0 | 0.02013 | 0.0193736 | 0.0159875 | 1 | 0% | 0 | 0 | | N |
| Antimony | A | mg/L | 0.00002141 | 0 | | 0 | 0 | 0 | 0.0013997 | 0.0049 | 0.1 | 0% | 0 | 0 | | |
| Arsenic | A | mg/L | 0.000278 | 0 | | 0 | 0 | 0.001298 | 0.0017061 | 0.0013383 | 1 | 0% | 0 | 0 | | |
| Barium | A | mg/L | 0.0008329 | 0.0041645 | | 0 | 0 | 0.004069 | 0.0013411 | 0.0012039 | 1 | 0% | 0 | 0 | | N |
| Beryllium | A | mg/L | -0.00005756 | 0 | | 0 | 0 | 0 | 0.0005353 | 0.01 | 1 | 0% | 0 | 0 | | |
| Boron | A | mg/L | 0.01329 | 0 | | 0 | 0 | 0.06786 | 0.1019008 | 0.07335 | 1 | 0% | 0 | 0 | | |
| Cadmium | A | mg/L | 0.00001864 | 0.0000932 | | 0 | 0 | 0 | 9.105E-05 | 0.005 | 1 | 0% | 0 | 0 | | N |
| Calcium | A | mg/L | 2.083 | 10.415 | | 0 | 0 | 10.28 | 0.1864681 | 0.5517403 | 50 | 0% | 0 | 0 | 1% | |
| Cerium | A | mg/L | 0.0000151 | 0 | | 0 | 0 | 6.226E-05 | 0.0001369 | 0.001 | 0.1 | 0% | 0 | 0 | | |
| Chromium | A | mg/L | 0.0001023 | 0 | | 0 | 0 | 0 | 0.0076875 | 0.0076875 | 1 | 0% | 0 | 0 | | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|---------------|---------------|-------------|-----------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|---|
| 14998132 | B22011134-001 | ICPMS-6020-W- | SD | | 1/22/2022 12:21: | 5 | 163063 | 1/19/2022 3: | 0 | 1E+07 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Cobalt | A | mg/L | 0.0001173 | 0.0005865 | | 0 | 0 | 0.00053 | 0.0004771 | 0.001 | 1 | 0% | 0 | 0 | | N |
| Copper | A | mg/L | 0.01838 | 0.0919 | | 0 | 0 | 0 | 0.0043735 | 0.0099 | 1 | 0% | 0 | 0 | | N |
| Iron | A | mg/L | 0.08611 | 0.43055 | | 0 | 0 | 0.4364 | 0.0371198 | 0.02565 | 5 | 0% | 0 | 0 | 1% | |
| Lanthanum | A | mg/L | 0.00000554 | 0 | | 0 | 0 | 0 | 0.000275 | 0.001 | 0.1 | 0% | 0 | 0 | | |
| Lead | A | mg/L | 0.0007391 | 0.0036955 | | 0 | 0 | 0 | 0.0003858 | 0.001 | 1 | 0% | 0 | 0 | | N |
| Magnesium | A | mg/L | 2.07 | 10.35 | | 0 | 0 | 10.4 | 0.0521269 | 0.0407608 | 50 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 0.09624 | 0.4812 | | 0 | 0 | 0.5033 | 0.0026994 | 0.0010695 | 1 | 0% | 0 | 0 | 4% | |
| Molybdenum | A | mg/L | 0.0001216 | 0 | | 0 | 0 | 0.000556 | 0.0008814 | 0.001 | 0.1 | 0% | 0 | 0 | | |
| Nickel | A | mg/L | 0.00437 | 0.02185 | | 0 | 0 | 0.0009891 | 0.0011441 | 0.0121000 | 1 | 0% | 0 | 0 | | N |
| Potassium | A | mg/L | 0.4126 | 2.063 | | 0 | 0 | 2.03 | 0.3828097 | 0.1306027 | 50 | 0% | 0 | 0 | | N |
| Selenium | A | mg/L | 0.000005841 | 0 | | 0 | 0 | 0 | 0.0006787 | 0.0029274 | 1 | 0% | 0 | 0 | | |
| Silicon | A | mg/L | 5.199 | 25.995 | | 0 | 0 | 27.21 | 0.2110446 | 0.026606 | 0.4 | 0% | 0 | 0 | 5% | |
| Silver | A | mg/L | -0.00005765 | 0 | | 0 | 0 | 0 | 0.0002141 | 0.001 | 0.04 | 0% | 0 | 0 | | |
| Sodium | A | mg/L | 8.248 | 41.24 | | 0 | 0 | 40.71 | 0.5097304 | 3.6651346 | 50 | 0% | 0 | 0 | 1% | |
| Strontium | A | mg/L | 0.0146 | 0.073 | | 0 | 0 | 0.07368 | 0.0012164 | 0.001 | 1 | 0% | 0 | 0 | 1% | |
| Thallium | A | mg/L | -3.479E-06 | 0 | | 0 | 0 | 0 | 0.0005569 | 0.001 | 1 | 0% | 0 | 0 | | |
| Thorium | A | mg/L | -6.331E-06 | 0 | | 0 | 0 | 0 | 0.0018981 | 0.02075 | 1 | 0% | 0 | 0 | | |
| Tin | A | mg/L | 0.000173 | 0 | | 0 | 0 | 0 | 0.0094659 | 0.0055874 | 0.1 | 0% | 0 | 0 | | |
| Titanium | A | mg/L | 0.000759 | 0.003795 | | 0 | 0 | 0.003704 | 0.0028666 | 0.001 | 1 | 0% | 0 | 0 | | N |
| Uranium | A | mg/L | 0.000004316 | 0 | | 0 | 0 | 1.766E-05 | 8.495E-05 | 0.0004224 | 1 | 0% | 0 | 0 | | |
| Vanadium | A | mg/L | 0.002104 | 0 | | 0 | 0 | 0.004989 | 0.0195637 | 0.0105423 | 1 | 0% | 0 | 0 | | |
| Zinc | A | mg/L | 0.02073 | 0.10365 | | 0 | 0 | 0.001219 | 0.0058087 | 0.0327721 | 1 | 0% | 0 | 0 | | N |
| Silica | C | mg/L | 11.1217008 | 55.608504 | | 0 | 0 | 0 | 0.4514666 | 0.0569155 | 5 | 0% | 0 | 0 | | N |
| Silicon as SiO2 | C | mg/L | 11.1217008 | 55.608504 | | 0 | 0 | 0 | 0.4514666 | 0.0569155 | 5 | 0% | 0 | 0 | | N |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|---------------|---------------|------------|-----------|------------------|--------|----------|--------------|-----------|-----------|--------|------|-----|------|------|---|
| 14998133 | B22011134-001 | ICPMS-6020-W- | PDS1 | | 1/22/2022 12:27: | 1.03 | 163063 | 1/19/2022 3: | 1E+07 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.06077 | 0.0625931 | | 0.0515 | 0.02013 | 0 | 0.003991 | 0.0032934 | 1 | 82% | 75 | 125 | 0% | |
| Antimony | A | mg/L | 0.04912 | 0.0505936 | | 0.0515 | 0 | 0 | 0.0002883 | 0.0010094 | 0.1 | 98% | 75 | 125 | 0% | |
| Arsenic | A | mg/L | 0.04937 | 0.0508511 | | 0.0515 | 0.001298 | 0 | 0.0003514 | 0.001 | 1 | 96% | 75 | 125 | 0% | |
| Barium | A | mg/L | 0.05395 | 0.0555685 | | 0.0515 | 0.004069 | 0 | 0.0002763 | 0.001 | 1 | 100% | 75 | 125 | 0% | |
| Beryllium | A | mg/L | 0.04113 | 0.0423639 | | 0.0515 | 0 | 0 | 0.0001103 | 0.01 | 1 | 82% | 75 | 125 | 0% | |
| Boron | A | mg/L | 0.1095 | 0.112785 | | 0.0515 | 0.06786 | 0 | 0.0209916 | 0.0151101 | 1 | 87% | 75 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|---------------|---------------|------------|------------|------------------|--------|-----------|--------------|-----------|-----------|--------|---------|-----|------|------|---|
| 14998133 | B22011134-001 | ICPMS-6020-W- | PDS1 | | 1/22/2022 12:27: | 1.03 | 163063 | 1/19/2022 3: | 1E+07 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Cadmium | A | mg/L | 0.04978 | 0.0512734 | | 0.0515 | 0 | 0 | 1.876E-05 | 0.005 | 1 | 100% | 75 | 125 | 0% | |
| Calcium | A | mg/L | 9.635 | 9.92405 | | 51.5 | 10.28 | 0 | 0.0384124 | 0.1136585 | 50 | -1% | 75 | 125 | 0% | S |
| Cerium | A | mg/L | 0.05329 | 0.0548887 | | 0.0515 | 6.226E-05 | 0 | 2.820E-05 | 0.001 | 0.1 | 106% | 75 | 125 | 0% | |
| Chromium | A | mg/L | 0.04843 | 0.0498829 | | 0.0515 | 0 | 0 | 0.0015836 | 0.0015836 | 1 | 97% | 75 | 125 | 0% | |
| Cobalt | A | mg/L | 0.0455 | 0.046865 | | 0.0515 | 0.00053 | 0 | 9.827E-05 | 0.001 | 1 | 90% | 75 | 125 | 0% | |
| Copper | A | mg/L | 0.05065 | 0.0521695 | | 0.0515 | 0 | 0 | 0.0009009 | 0.0020394 | 1 | 101% | 75 | 125 | 0% | |
| Iron | A | mg/L | 0.4579 | 0.471637 | | 5.15 | 0.4364 | 0 | 0.0076467 | 0.0052839 | 5 | 1% | 75 | 125 | 0% | S |
| Lanthanum | A | mg/L | 0.00001607 | 0 | | 0.0515 | 0 | 0 | 5.665E-05 | 0.001 | 0.1 | 0% | 75 | 125 | 0% | S |
| Lead | A | mg/L | 0.04984 | 0.0513352 | | 0.0515 | 0 | 0 | 7.947E-05 | 0.001 | 1 | 100% | 80 | 120 | 0% | |
| Magnesium | A | mg/L | 9.869 | 10.16507 | | 51.5 | 10.4 | 0 | 0.0107381 | 0.0083967 | 50 | 0% | 75 | 125 | 0% | S |
| Manganese | A | mg/L | 0.5208 | 0.536424 | | 0.0515 | 0.5033 | 0 | 0.0005561 | 0.001 | 1 | | 75 | 125 | 0% | A |
| Molybdenum | A | mg/L | 0.04734 | 0.0487602 | | 0.0515 | 0.000556 | 0 | 0.0001816 | 0.001 | 0.1 | 94% | 75 | 125 | 0% | |
| Nickel | A | mg/L | 0.04986 | 0.0513558 | | 0.0515 | 0.0009891 | 0 | 0.0002357 | 0.0024926 | 1 | 98% | 75 | 125 | 0% | |
| Potassium | A | mg/L | 1.88 | 1.9364 | | 51.5 | 2.03 | 0 | 0.0788588 | 0.0269042 | 50 | 0% | 75 | 125 | 0% | S |
| Selenium | A | mg/L | 0.04962 | 0.0511086 | | 0.0515 | 0 | 0 | 0.0001398 | 0.001 | 1 | 99% | 75 | 125 | 0% | |
| Silicon | A | mg/L | 25.95 | 26.7285 | | 0.206 | 27.21 | 0 | 0.0434752 | 0.0054808 | 0.4 | | 0 | 0 | 0% | A |
| Silver | A | mg/L | 0.01897 | 0.0195391 | | 0.0206 | 0 | 0 | 4.409E-05 | 0.001 | 0.04 | 95% | 75 | 125 | 0% | |
| Sodium | A | mg/L | 38.65 | 39.8095 | | 51.5 | 40.71 | 0 | 0.1050045 | 0.7550177 | 50 | -2% | 75 | 125 | 0% | S |
| Strontium | A | mg/L | 0.1229 | 0.126587 | | 0.0515 | 0.07368 | 0 | 0.0002506 | 0.001 | 1 | 103% | 75 | 125 | 0% | |
| Thallium | A | mg/L | 0.04894 | 0.0504082 | | 0.0515 | 0 | 0 | 0.0001147 | 0.001 | 1 | 98% | 75 | 125 | 0% | |
| Thorium | A | mg/L | 0.04934 | 0.0508202 | | 0.0515 | 0 | 0 | 0.000391 | 0.0042745 | 1 | 99% | 75 | 125 | 0% | |
| Tin | A | mg/L | 0.05008 | 0.0515824 | | 0.0515 | 0 | 0 | 0.00195 | 0.001151 | 0.1 | 100% | 75 | 125 | 0% | |
| Titanium | A | mg/L | 0.0457 | 0.047071 | | 0.0515 | 0.003704 | 0 | 0.0005905 | 0.001 | 1 | 84% | 75 | 125 | 0% | |
| Uranium | A | mg/L | 0.05122 | 0.0527566 | | 0.0515 | 1.766E-05 | 0 | 1.75E-05 | 0.0003 | 1 | 102% | 75 | 125 | 0% | |
| Vanadium | A | mg/L | 0.05331 | 0.0549093 | | 0.0515 | 0.004989 | 0 | 0.0040301 | 0.0021717 | 1 | 97% | 75 | 125 | 0% | |
| Zinc | A | mg/L | 0.04939 | 0.0508717 | | 0.0515 | 0.001219 | 0 | 0.0011966 | 0.0067511 | 1 | 96% | 75 | 125 | 0% | |
| Silica | C | mg/L | 55.51224 | 57.1776072 | | 0 | 0 | 0 | 0.0930021 | 0.0117246 | 5 | 0% | 0 | 0 | 0% | |
| Silicon as SiO2 | C | mg/L | 55.51224 | 57.1776072 | | 0.0515 | 0 | 0 | 0.0930021 | 0.0117246 | 5 | 111024% | 75 | 125 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|--------------|--------|--------|--------|------|-----|------|------|---|
| 14998134 | B22011134-001 | ICPMS-6020-W- | MS4 | | 1/22/2022 12:34: | 1 | 163063 | 1/19/2022 3: | 1E+07 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|---------------|-------------------|------------|----------|------------------|-------|-----------|--------------|-----------|-----------|--------|-------|-----|------|------|---|
| 14998134 | B22011134-001 | ICPMS-6020-W- MS4 | | | 1/22/2022 12:34: | 1 | 163063 | 1/19/2022 3: | 1E+07 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.4393 | 0.4393 | | 0.5 | 0.02013 | 0 | 0.0038747 | 0.0031975 | 1 | 84% | 75 | 125 | 0% | |
| Antimony | A | mg/L | 0.1043 | 0.1043 | | 0.1 | 0 | 0 | 0.0002799 | 0.001 | 0.1 | 104% | 75 | 125 | 0% | |
| Arsenic | A | mg/L | 0.09844 | 0.09844 | | 0.1 | 0.001298 | 0 | 0.0003412 | 0.001 | 1 | 97% | 75 | 125 | 0% | |
| Barium | A | mg/L | 0.09918 | 0.09918 | | 0.1 | 0.004069 | 0 | 0.0002682 | 0.001 | 1 | 95% | 75 | 125 | 0% | |
| Beryllium | A | mg/L | 0.04076 | 0.04076 | | 0.05 | 0 | 0 | 0.0001071 | 0.01 | 1 | 82% | 75 | 125 | 0% | |
| Boron | A | mg/L | 0.1432 | 0.1432 | | 0.1 | 0.06786 | 0 | 0.0203802 | 0.01467 | 1 | 75% | 75 | 125 | 0% | |
| Cadmium | A | mg/L | 0.05102 | 0.05102 | | 0.05 | 0 | 0 | 1.821E-05 | 0.005 | 1 | 102% | 75 | 125 | 0% | |
| Calcium | A | mg/L | 14.38 | 14.38 | | 5 | 10.28 | 0 | 0.0372936 | 0.1103481 | 50 | 82% | 75 | 125 | 0% | |
| Cerium | A | mg/L | 0.11 | 0.11 | | 0.1 | 6.226E-05 | 0 | 2.738E-05 | 0.001 | 0.1 | 110% | 75 | 125 | 0% | |
| Chromium | A | mg/L | 0.09392 | 0.09392 | | 0.1 | 0 | 0 | 0.0015375 | 0.0015375 | 1 | 94% | 75 | 125 | 0% | |
| Cobalt | A | mg/L | 0.09023 | 0.09023 | | 0.1 | 0.00053 | 0 | 9.541E-05 | 0.001 | 1 | 90% | 75 | 125 | 0% | |
| Copper | A | mg/L | 0.101 | 0.101 | | 0.1 | 0 | 0 | 0.0008747 | 0.00198 | 1 | 101% | 75 | 125 | 0% | |
| Iron | A | mg/L | 0.9186 | 0.9186 | | 0.5 | 0.4364 | 0 | 0.007424 | 0.00513 | 5 | 96% | 75 | 125 | 0% | |
| Lanthanum | A | mg/L | 0.1078 | 0.1078 | | 0.1 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 108% | 75 | 125 | 0% | |
| Lead | A | mg/L | 0.1016 | 0.1016 | | 0.1 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 102% | 88 | 115 | 0% | |
| Magnesium | A | mg/L | 14.87 | 14.87 | | 5 | 10.4 | 0 | 0.0104254 | 0.0081522 | 50 | 89% | 75 | 125 | 0% | |
| Manganese | A | mg/L | 0.9413 | 0.9413 | | 0.5 | 0.5033 | 0 | 0.0005399 | 0.001 | 1 | 88% | 75 | 125 | 0% | |
| Molybdenum | A | mg/L | 0.0932 | 0.0932 | | 0.1 | 0.000556 | 0 | 0.0001763 | 0.001 | 0.1 | 93% | 75 | 125 | 0% | |
| Nickel | A | mg/L | 0.09932 | 0.09932 | | 0.1 | 0.0009891 | 0 | 0.0002288 | 0.0024200 | 1 | 98% | 75 | 125 | 0% | |
| Potassium | A | mg/L | 6.359 | 6.359 | | 5 | 2.03 | 0 | 0.0765619 | 0.0261205 | 50 | 87% | 75 | 125 | 0% | |
| Selenium | A | mg/L | 0.1013 | 0.1013 | | 0.1 | 0 | 0 | 0.0001357 | 0.001 | 1 | 101% | 75 | 125 | 0% | |
| Silicon | A | mg/L | 26.6 | 26.6 | | 1 | 27.21 | 0 | 0.0422089 | 0.0053212 | 0.4 | | 75 | 125 | 0% | A |
| Silver | A | mg/L | 0.009493 | 0.009493 | | 0.01 | 0 | 0 | 4.281E-05 | 0.001 | 0.04 | 95% | 75 | 125 | 0% | |
| Sodium | A | mg/L | 42.57 | 42.57 | | 5 | 40.71 | 0 | 0.1019461 | 0.7330269 | 50 | | 75 | 125 | 0% | A |
| Strontium | A | mg/L | 0.1736 | 0.1736 | | 0.1 | 0.07368 | 0 | 0.0002433 | 0.001 | 1 | 100% | 75 | 125 | 0% | |
| Thallium | A | mg/L | 0.1023 | 0.1023 | | 0.1 | 0 | 0 | 0.0001114 | 0.001 | 1 | 102% | 75 | 125 | 0% | |
| Thorium | A | mg/L | 0.1047 | 0.1047 | | 0.1 | 0 | 0 | 0.0003796 | 0.00415 | 1 | 105% | 75 | 125 | 0% | |
| Tin | A | mg/L | 0.1028 | 0.1028 | | 0.1 | 0 | 0 | 0.0018932 | 0.0011175 | 0.1 | 103% | 75 | 125 | 0% | |
| Titanium | A | mg/L | 0.08566 | 0.08566 | | 0.1 | 0.003704 | 0 | 0.0005733 | 0.001 | 1 | 82% | 75 | 125 | 0% | |
| Uranium | A | mg/L | 0.1048 | 0.1048 | | 0.1 | 1.766E-05 | 0 | 1.699E-05 | 0.0003 | 1 | 105% | 75 | 125 | 0% | |
| Vanadium | A | mg/L | 0.1005 | 0.1005 | | 0.1 | 0.004989 | 0 | 0.0039127 | 0.0021085 | 1 | 96% | 75 | 125 | 0% | |
| Zinc | A | mg/L | 0.09728 | 0.09728 | | 0.1 | 0.001219 | 0 | 0.0011617 | 0.0065544 | 1 | 96% | 75 | 125 | 0% | |
| Silica | C | mg/L | 56.90272 | 56.90272 | | 0 | 0 | 0 | 0.0902933 | 0.0113831 | 5 | 0% | 0 | 0 | 0% | |
| Silicon as SiO2 | C | mg/L | 56.90272 | 56.90272 | | 2.14 | 0 | 0 | 0.0902933 | 0.0113831 | 5 | 2659% | 75 | 125 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|---------------|-------------------|------------|----------|------------------|-------|-----------|--------------|-----------|-----------|--------|-------|-----|------|------|---|
| 14998135 | B22011134-001 | ICPMS-6020-W-MSD4 | | | 1/22/2022 12:40: | 1 | 163063 | 1/19/2022 3: | 1E+07 | 1E+07 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.4412 | 0.4412 | | 0.5 | 0.02013 | 0.4393 | 0.0038747 | 0.0031975 | 1 | 84% | 75 | 125 | 0% | |
| Antimony | A | mg/L | 0.104 | 0.104 | | 0.1 | 0 | 0.1043 | 0.0002799 | 0.001 | 0.1 | 104% | 75 | 125 | 0% | |
| Arsenic | A | mg/L | 0.1005 | 0.1005 | | 0.1 | 0.001298 | 0.09844 | 0.0003412 | 0.001 | 1 | 99% | 75 | 125 | 2% | |
| Barium | A | mg/L | 0.09932 | 0.09932 | | 0.1 | 0.004069 | 0.09918 | 0.0002682 | 0.001 | 1 | 95% | 75 | 125 | 0% | |
| Beryllium | A | mg/L | 0.04001 | 0.04001 | | 0.05 | 0 | 0.04076 | 0.0001071 | 0.01 | 1 | 80% | 75 | 125 | 2% | |
| Boron | A | mg/L | 0.1433 | 0.1433 | | 0.1 | 0.06786 | 0.1432 | 0.0203802 | 0.01467 | 1 | 75% | 75 | 125 | 0% | |
| Cadmium | A | mg/L | 0.05129 | 0.05129 | | 0.05 | 0 | 0.05102 | 1.821E-05 | 0.005 | 1 | 103% | 75 | 125 | 1% | |
| Calcium | A | mg/L | 14.57 | 14.57 | | 5 | 10.28 | 14.38 | 0.0372936 | 0.1103481 | 50 | 86% | 75 | 125 | 1% | |
| Cerium | A | mg/L | 0.113 | 0.113 | | 0.1 | 6.226E-05 | 0.11 | 2.738E-05 | 0.001 | 0.1 | 113% | 75 | 125 | 3% | |
| Chromium | A | mg/L | 0.09607 | 0.09607 | | 0.1 | 0 | 0.09392 | 0.0015375 | 0.0015375 | 1 | 96% | 75 | 125 | 2% | |
| Cobalt | A | mg/L | 0.09411 | 0.09411 | | 0.1 | 0.00053 | 0.09023 | 9.541E-05 | 0.001 | 1 | 94% | 75 | 125 | 4% | |
| Copper | A | mg/L | 0.1035 | 0.1035 | | 0.1 | 0 | 0.101 | 0.0008747 | 0.00198 | 1 | 103% | 75 | 125 | 2% | |
| Iron | A | mg/L | 0.9421 | 0.9421 | | 0.5 | 0.4364 | 0.9186 | 0.007424 | 0.00513 | 5 | 101% | 75 | 125 | 3% | |
| Lanthanum | A | mg/L | 0.1082 | 0.1082 | | 0.1 | 0 | 0.1078 | 0.000055 | 0.001 | 0.1 | 108% | 75 | 125 | 0% | |
| Lead | A | mg/L | 0.1018 | 0.1018 | | 0.1 | 0 | 0.1016 | 7.716E-05 | 0.001 | 1 | 102% | 88 | 115 | 0% | |
| Magnesium | A | mg/L | 15.27 | 15.27 | | 5 | 10.4 | 14.87 | 0.0104254 | 0.0081522 | 50 | 97% | 75 | 125 | 3% | |
| Manganese | A | mg/L | 0.9761 | 0.9761 | | 0.5 | 0.5033 | 0.9413 | 0.0005399 | 0.001 | 1 | 95% | 75 | 125 | 4% | |
| Molybdenum | A | mg/L | 0.09678 | 0.09678 | | 0.1 | 0.000556 | 0.0932 | 0.0001763 | 0.001 | 0.1 | 96% | 75 | 125 | 4% | |
| Nickel | A | mg/L | 0.09922 | 0.09922 | | 0.1 | 0.0009891 | 0.09932 | 0.0002288 | 0.0024200 | 1 | 98% | 75 | 125 | 0% | |
| Potassium | A | mg/L | 6.351 | 6.351 | | 5 | 2.03 | 6.359 | 0.0765619 | 0.0261205 | 50 | 86% | 75 | 125 | 0% | |
| Selenium | A | mg/L | 0.1028 | 0.1028 | | 0.1 | 0 | 0.1013 | 0.0001357 | 0.001 | 1 | 103% | 75 | 125 | 1% | |
| Silicon | A | mg/L | 28.05 | 28.05 | | 1 | 27.21 | 26.6 | 0.0422089 | 0.0053212 | 0.4 | | 75 | 125 | 5% | A |
| Silver | A | mg/L | 0.009668 | 0.009668 | | 0.01 | 0 | 0.009493 | 4.281E-05 | 0.001 | 0.04 | 97% | 75 | 125 | 2% | |
| Sodium | A | mg/L | 43.43 | 43.43 | | 5 | 40.71 | 42.57 | 0.1019461 | 0.7330269 | 50 | | 75 | 125 | 2% | A |
| Strontium | A | mg/L | 0.1809 | 0.1809 | | 0.1 | 0.07368 | 0.1736 | 0.0002433 | 0.001 | 1 | 107% | 75 | 125 | 4% | |
| Thallium | A | mg/L | 0.1029 | 0.1029 | | 0.1 | 0 | 0.1023 | 0.0001114 | 0.001 | 1 | 103% | 75 | 125 | 1% | |
| Thorium | A | mg/L | 0.1052 | 0.1052 | | 0.1 | 0 | 0.1047 | 0.0003796 | 0.00415 | 1 | 105% | 75 | 125 | 0% | |
| Tin | A | mg/L | 0.1063 | 0.1063 | | 0.1 | 0 | 0.1028 | 0.0018932 | 0.0011175 | 0.1 | 106% | 75 | 125 | 3% | |
| Titanium | A | mg/L | 0.08762 | 0.08762 | | 0.1 | 0.003704 | 0.08566 | 0.0005733 | 0.001 | 1 | 84% | 75 | 125 | 2% | |
| Uranium | A | mg/L | 0.1056 | 0.1056 | | 0.1 | 1.766E-05 | 0.1048 | 1.699E-05 | 0.0003 | 1 | 106% | 75 | 125 | 1% | |
| Vanadium | A | mg/L | 0.1027 | 0.1027 | | 0.1 | 0.004989 | 0.1005 | 0.0039127 | 0.0021085 | 1 | 98% | 75 | 125 | 2% | |
| Zinc | A | mg/L | 0.09952 | 0.09952 | | 0.1 | 0.001219 | 0.09728 | 0.0011617 | 0.0065544 | 1 | 98% | 75 | 125 | 2% | |
| Silica | C | mg/L | 60.00456 | 60.00456 | | 0 | 0 | 56.90272 | 0.0902933 | 0.0113831 | 5 | 0% | 0 | 0 | 5% | |
| Silicon as SiO2 | C | mg/L | 60.00456 | 60.00456 | | 2.14 | 0 | 56.90272 | 0.0902933 | 0.0113831 | 5 | 2804% | 75 | 125 | 5% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|-------------|-----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998136 | Rinse | ICPMS-6020-W- | SAMP | | 1/22/2022 12:46: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.0001346 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | -9.123E-06 | 0 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.000006929 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.000004348 | 0 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 3.027E-07 | 0 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0.000009059 | 0 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 4.247E-07 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0.000006011 | 0 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00001085 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 0.0001407 | 0.0001407 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Mercury | A | mg/L | 0.000001212 | 0 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.00001309 | 0 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | -4.908E-06 | 0 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.00001129 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -2.358E-06 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | -4.417E-06 | 0 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.0001766 | 0.0001766 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Thorium | A | mg/L | 0.00001894 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | -0.00001827 | 0 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.000007227 | 0 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Boron | B | mg/L | 0.0008795 | 0 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | 0 | 0 | 0% | L |
| Calcium | B | mg/L | -0.001237 | 0 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | L |
| Iron | B | mg/L | 0.0001313 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0.0001313 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | -0.0001401 | 0 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | L |
| Tin | B | mg/L | 0.00001692 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Vanadium | B | mg/L | 0.0009567 | 0 | | 0 | 0 | 0 | 0.0013 | 0.0013 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.00003354 | 0 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998137 | B22011135-001 | ICPMS-6020-W- | SAMP | | 1/22/2022 12:52: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|---------------|---------------|-------------|------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998137 | B22011135-001 | ICPMS-6020-W- | SAMP | | 1/22/2022 12:52: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.0002136 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0.0003938 | 0.0003938 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Barium | A | mg/L | 0.0138 | 0.0138 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00003609 | 0.00003609 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Cerium | A | mg/L | 0.00001845 | 0.00001845 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Chromium | A | mg/L | 0.0007728 | 0.0007728 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Cobalt | A | mg/L | 0.001331 | 0.001331 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0.001005 | 0.001005 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00002741 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Manganese | A | mg/L | 0.1061 | 0.1061 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 0.0004051 | 0.0004051 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | J |
| Molybdenum | A | mg/L | 0.002947 | 0.002947 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0.005145 | 0.005145 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.0001791 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -0.00006214 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.1479 | 0.1479 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00008312 | 0.00008312 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Thorium | A | mg/L | -2.638E-06 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.002716 | 0.002716 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.0001504 | 0.0001504 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | J |
| Boron | B | mg/L | 0.1602 | 0.1602 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | 0 | 0 | 0% | D |
| Calcium | B | mg/L | 23.46 | 23.46 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | D |
| Iron | B | mg/L | 0.05962 | 0.05962 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0.05962 | 0.05962 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | 31.91 | 31.91 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | D |
| Tin | B | mg/L | -0.00008316 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.002062 | 0 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|-----------|------------------|-------|----------|--------------|-----------|--------|--------|------|-----|------|------|---|
| 14998138 | B22011135-001 | ICPMS-6020-W- | SAMP | | 1/22/2022 12:59: | 1 | 163063 | 1/19/2022 3: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.0002841 | 0.0002841 | | 0 | 0 | 0 | 0.0002799 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Arsenic | A | mg/L | 0.0008096 | 0.0008096 | | 0 | 0 | 0 | 0.0003412 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Barium | A | mg/L | 0.01462 | 0.01462 | | 0 | 0 | 0 | 0.0002682 | 0.001 | 1 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|---------------|---------------|-------------|------------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|----|
| 14998138 | B22011135-001 | ICPMS-6020-W- | SAMP | | 1/22/2022 12:59: | 1 | 163063 | 1/19/2022 3: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Cadmium | A | mg/L | 0.00007105 | 0 | | 0 | 0 | 0 | 1.821E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | U |
| Cerium | A | mg/L | 0.0001721 | 0.0001721 | | 0 | 0 | 0 | 2.738E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Cobalt | A | mg/L | 0.001588 | 0.001588 | | 0 | 0 | 0 | 9.541E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lanthanum | A | mg/L | 0.00006475 | 0.00006475 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Lead | A | mg/L | 0.0003191 | 0.0003191 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Manganese | A | mg/L | 0.1149 | 0.1149 | | 0 | 0 | 0 | 0.0005399 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.003231 | 0.003231 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.0002169 | 0.0002169 | | 0 | 0 | 0 | 0.0001357 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Silver | A | mg/L | -0.00004722 | 0 | | 0 | 0 | 0 | 4.281E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Strontium | A | mg/L | 0.1508 | 0.1508 | | 0 | 0 | 0 | 0.0002433 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.0000838 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Titanium | A | mg/L | 0.02189 | 0.02189 | | 0 | 0 | 0 | 0.0005733 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.0001558 | 0.0001558 | | 0 | 0 | 0 | 1.699E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | J |
| Boron | B | mg/L | 0.1572 | 0.1572 | | 0 | 0 | 0 | 0.0203802 | 0.01467 | 1 | 0% | 0 | 0 | 0% | D |
| Calcium | B | mg/L | 23.17 | 23.17 | | 0 | 0 | 0 | 0.0372936 | 0.1103481 | 50 | 0% | 0 | 0 | 0% | D |
| Chromium | B | mg/L | 0.001211 | 0 | | 0 | 0 | 0 | 0.0015375 | 0.0015375 | 1 | 0% | 0 | 0 | 0% | UL |
| Copper | B | mg/L | 0.001779 | 0.001779 | | 0 | 0 | 0 | 0.0008747 | 0.00198 | 1 | 0% | 0 | 0 | 0% | JL |
| Iron | B | mg/L | 0.301 | 0.301 | | 0 | 0 | 0 | 0.007424 | 0.00513 | 5 | 0% | 0 | 0 | 0% | D |
| Magnesium | B | mg/L | 32.1 | 32.1 | | 0 | 0 | 0 | 0.0104254 | 0.0081522 | 50 | 0% | 0 | 0 | 0% | D |
| Nickel | B | mg/L | 0.005891 | 0.005891 | | 0 | 0 | 0 | 0.0002288 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | 0.00004476 | 0 | | 0 | 0 | 0 | 0.0003796 | 0.00415 | 1 | 0% | 0 | 0 | 0% | UL |
| Tin | B | mg/L | 0.0004502 | 0 | | 0 | 0 | 0 | 0.0018932 | 0.0011175 | 0.1 | 0% | 0 | 0 | 0% | U |
| Vanadium | B | mg/L | 0.02217 | 0.02217 | | 0 | 0 | 0 | 0.0039127 | 0.0021085 | 1 | 0% | 0 | 0 | 0% | D |
| Zinc | B | mg/L | 0.002569 | 0.002569 | | 0 | 0 | 0 | 0.0011617 | 0.0065544 | 1 | 0% | 0 | 0 | 0% | JL |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|------------|------------------|-------|----------|-----------|----------|--------|--------|------|-----|------|------|---|
| 14998139 | B22011136-001 | ICPMS-6020-W- | SAMP | | 1/22/2022 1:05:1 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.0001026 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0.00007658 | 0 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.006474 | 0.006474 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00003543 | 0.00003543 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Cerium | A | mg/L | 0.0001735 | 0.0001735 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Chromium | A | mg/L | 0.004521 | 0.004521 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|---------------|--------------------|-------------|-----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998139 | B22011136-001 | ICPMS-6020-W- SAMP | | | 1/22/2022 1:05:1 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Cobalt | A | mg/L | 0.0001579 | 0.0001579 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Copper | A | mg/L | 0.0004486 | 0.0004486 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lead | A | mg/L | 0.00004496 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Manganese | A | mg/L | 0.005341 | 0.005341 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 0.00000764 | 0 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.0005291 | 0.0005291 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Nickel | A | mg/L | 0.0003266 | 0 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.0004467 | 0.0004467 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Silver | A | mg/L | -0.00006166 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.0591 | 0.0591 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00001638 | 0 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | -5.018E-06 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.004524 | 0.004524 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00002209 | 0 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Boron | B | mg/L | 0.2113 | 0.2113 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | 0 | 0 | 0% | D |
| Calcium | B | mg/L | 5.95 | 5.95 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | D |
| Iron | B | mg/L | 0.03456 | 0.03456 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0.03456 | 0.03456 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | 9.737 | 9.737 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | D |
| Tin | B | mg/L | -0.00007277 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Vanadium | B | mg/L | 0.04633 | 0.04633 | | 0 | 0 | 0 | 0.0013 | 0.0013 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.0008192 | 0 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|--------|-------------------|------------|---------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998140 | CCV | ICPMS-6020-W- CCV | | | 1/22/2022 1:11:2 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.05298 | 0.05298 | | 0.05 | 0 | 0 | 0.00086 | 0.001 | 1 | 106% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.05313 | 0.05313 | | 0.05 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 106% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.05029 | 0.05029 | | 0.05 | 0 | 0 | 0.00019 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.04976 | 0.04976 | | 0.05 | 0 | 0 | 0.000042 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.04012 | 0.04012 | | 0.05 | 0 | 0 | 0.00012 | 0.001 | 1 | 80% | 90 | 110 | 0% | S |
| Boron | A | mg/L | 0.04485 | 0.04485 | | 0.05 | 0 | 0 | 0.00561 | 0.00561 | 1 | 90% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.05064 | 0.05064 | | 0.05 | 0 | 0 | 0.000025 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 11.91 | 11.91 | | 12.5 | 0 | 0 | 0.02092 | 0.02092 | 50 | 95% | 90 | 110 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|------------|-----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998140 | CCV | ICPMS-6020-W- | CCV | | 1/22/2022 1:11:2 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Cerium | A | mg/L | 0.05302 | 0.05302 | | 0.05 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 106% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.04764 | 0.04764 | | 0.05 | 0 | 0 | 0.00018 | 0.001 | 1 | 95% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.04841 | 0.04841 | | 0.05 | 0 | 0 | 0.000042 | 0.001 | 1 | 97% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.05104 | 0.05104 | | 0.05 | 0 | 0 | 0.00027 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Iron | A | mg/L | 1.316 | 1.316 | | 1.3 | 0 | 0 | 0.00119 | 0.00119 | 5 | 101% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.05265 | 0.05265 | | 0.05 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 105% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.05081 | 0.05081 | | 0.05 | 0 | 0 | 0.000056 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 12.01 | 12.01 | | 12.5 | 0 | 0 | 0.00564 | 0.00564 | 50 | 96% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.04879 | 0.04879 | | 0.05 | 0 | 0 | 0.000095 | 0.001 | 1 | 98% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.0009872 | 0.0009872 | | 0.001 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 99% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.04988 | 0.04988 | | 0.05 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 100% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.04964 | 0.04964 | | 0.05 | 0 | 0 | 0.00063 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 11.14 | 11.14 | | 12.5 | 0 | 0 | 0.08139 | 0.08139 | 50 | 89% | 90 | 110 | 0% | S |
| Selenium | A | mg/L | 0.05124 | 0.05124 | | 0.05 | 0 | 0 | 0.00033 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.2483 | 0.2483 | | 0.2 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 124% | 90 | 110 | 0% | S |
| Silver | A | mg/L | 0.01986 | 0.01986 | | 0.02 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 99% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 11.99 | 11.99 | | 12.5 | 0 | 0 | 0.02171 | 0.02171 | 50 | 96% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.05081 | 0.05081 | | 0.05 | 0 | 0 | 0.00014 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.05114 | 0.05114 | | 0.05 | 0 | 0 | 0.000041 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.05039 | 0.05039 | | 0.05 | 0 | 0 | 0.00061 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.05162 | 0.05162 | | 0.05 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 103% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.04676 | 0.04676 | | 0.05 | 0 | 0 | 0.000094 | 0.001 | 1 | 94% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.05151 | 0.05151 | | 0.05 | 0 | 0 | 0.000052 | 0.0003 | 1 | 103% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.04991 | 0.04991 | | 0.05 | 0 | 0 | 0.0013 | 0.0013 | 1 | 100% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.05115 | 0.05115 | | 0.05 | 0 | 0 | 0.00273 | 0.00273 | 1 | 102% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 1.316 | 1.316 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|--------|---------------|------------|------------|------------------|-------|----------|-----------|----------|--------|--------|------|-----|------|------|---|
| 14998141 | CCB | ICPMS-6020-W- | CCB | | 1/22/2022 1:17:4 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | -0.0003638 | -0.0003638 | | 0 | 0 | 0 | 0.00086 | 0.001 | 1 | 0% | | | 0% | |
| Antimony | A | mg/L | 0.00009745 | 0.00009745 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | | | 0% | |
| Arsenic | A | mg/L | -5.488E-06 | -5.488E-06 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | | | 0% | |
| Barium | A | mg/L | -1.724E-06 | -1.724E-06 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | | | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|-------------|-------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998141 | CCB | ICPMS-6020-W- | CCB | | 1/22/2022 1:17:4 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Beryllium | A | mg/L | -0.00005206 | -0.00005206 | | 0 | 0 | 0 | 0.00012 | 0.001 | 1 | 0% | | | 0% | |
| Boron | A | mg/L | 0.001818 | 0.001818 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | | | 0% | |
| Cadmium | A | mg/L | 0.000000561 | 0.000000561 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | | | 0% | |
| Calcium | A | mg/L | -0.001531 | -0.001531 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | | | 0% | |
| Cerium | A | mg/L | 1.181E-07 | 1.181E-07 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0.00001537 | 0.00001537 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | | | 0% | |
| Cobalt | A | mg/L | -3.912E-06 | -3.912E-06 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | | | 0% | |
| Copper | A | mg/L | 0.000001722 | 0.000001722 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | | | 0% | |
| Iron | A | mg/L | 0.00003353 | 0.00003353 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | | | 0% | |
| Lanthanum | A | mg/L | -3.135E-07 | -3.135E-07 | | 0 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.000002011 | 0.000002011 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | | | 0% | |
| Magnesium | A | mg/L | -0.0008366 | -0.0008366 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | | | 0% | |
| Manganese | A | mg/L | 0.000004002 | 0.000004002 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | | | 0% | |
| Mercury | A | mg/L | 0.000002674 | 0.000002674 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | | | 0% | |
| Molybdenum | A | mg/L | 0.00002283 | 0.00002283 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | | | 0% | |
| Nickel | A | mg/L | -1.618E-06 | -1.618E-06 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | | | 0% | |
| Potassium | A | mg/L | -0.02705 | -0.02705 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | | | 0% | |
| Selenium | A | mg/L | 0.00000525 | 0.00000525 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | | | 0% | |
| Silicon | A | mg/L | 0.01876 | 0.01876 | | 0 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -2.995E-06 | -2.995E-06 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | | | 0% | |
| Sodium | A | mg/L | 0.03448 | 0.03448 | | 0 | 0 | 0 | 0.02171 | 0.02171 | 50 | 0% | | | 0% | |
| Strontium | A | mg/L | -0.00001572 | -0.00001572 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00008574 | 0.00008574 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | 0.00001358 | 0.00001358 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Tin | A | mg/L | 0.000031 | 0.000031 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.00001636 | 0.00001636 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00000271 | 0.00000271 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | A | mg/L | 0.001287 | 0.001287 | | 0 | 0 | 0 | 0.0013 | 0.0013 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | A | mg/L | 0.00005958 | 0.00005958 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | C | mg/L | 0.00003353 | 0.00003353 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|--------------|--------|--------|--------|------|-----|------|------|---|
| 14998142 | B22011136-001 | ICPMS-6020-W- | SAMP | | 1/22/2022 1:23:5 | 1 | 163063 | 1/19/2022 3: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|---------------|---------------|------------|------------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|----|
| 14998142 | B22011136-001 | ICPMS-6020-W- | SAMP | | 1/22/2022 1:23:5 | 1 | 163063 | 1/19/2022 3: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.0001346 | 0 | | 0 | 0 | 0 | 0.0002799 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Arsenic | A | mg/L | 0.0003859 | 0.0003859 | | 0 | 0 | 0 | 0.0003412 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Barium | A | mg/L | 0.007208 | 0.007208 | | 0 | 0 | 0 | 0.0002682 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00002012 | 0.00002012 | | 0 | 0 | 0 | 1.821E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | J |
| Cerium | A | mg/L | 0.0006819 | 0.0006819 | | 0 | 0 | 0 | 2.738E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Cobalt | A | mg/L | 0.0006875 | 0.0006875 | | 0 | 0 | 0 | 9.541E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lanthanum | A | mg/L | 0.0001704 | 0.0001704 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Lead | A | mg/L | 0.0001561 | 0.0001561 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Manganese | A | mg/L | 0.03167 | 0.03167 | | 0 | 0 | 0 | 0.0005399 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.0006598 | 0.0006598 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Selenium | A | mg/L | 0.0004708 | 0.0004708 | | 0 | 0 | 0 | 0.0001357 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Silver | A | mg/L | -0.0000573 | 0 | | 0 | 0 | 0 | 4.281E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Strontium | A | mg/L | 0.0601 | 0.0601 | | 0 | 0 | 0 | 0.0002433 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00006718 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Titanium | A | mg/L | 0.03679 | 0.03679 | | 0 | 0 | 0 | 0.0005733 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00003167 | 0.00003167 | | 0 | 0 | 0 | 1.699E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | J |
| Aluminum | B | mg/L | 0.5826 | 0.5826 | | 0 | 0 | 0 | 0.0038747 | 0.0031975 | 1 | 0% | 0 | 0 | 0% | D |
| Calcium | B | mg/L | 5.729 | 5.729 | | 0 | 0 | 0 | 0.0372936 | 0.1103481 | 50 | 0% | 0 | 0 | 0% | D |
| Chromium | B | mg/L | 0.005995 | 0.005995 | | 0 | 0 | 0 | 0.0015375 | 0.0015375 | 1 | 0% | 0 | 0 | 0% | D |
| Copper | B | mg/L | 0.001751 | 0.001751 | | 0 | 0 | 0 | 0.0008747 | 0.00198 | 1 | 0% | 0 | 0 | 0% | JL |
| Iron | B | mg/L | 0.6689 | 0.6689 | | 0 | 0 | 0 | 0.007424 | 0.00513 | 5 | 0% | 0 | 0 | 0% | D |
| Magnesium | B | mg/L | 9.16 | 9.16 | | 0 | 0 | 0 | 0.0104254 | 0.0081522 | 50 | 0% | 0 | 0 | 0% | D |
| Nickel | B | mg/L | 0.001605 | 0.001605 | | 0 | 0 | 0 | 0.0002288 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | JL |
| Thorium | B | mg/L | 0.00008295 | 0 | | 0 | 0 | 0 | 0.0003796 | 0.00415 | 1 | 0% | 0 | 0 | 0% | UL |
| Tin | B | mg/L | 0.0004166 | 0 | | 0 | 0 | 0 | 0.0018932 | 0.0011175 | 0.1 | 0% | 0 | 0 | 0% | U |
| Vanadium | B | mg/L | 0.04888 | 0.04888 | | 0 | 0 | 0 | 0.0039127 | 0.0021085 | 1 | 0% | 0 | 0 | 0% | D |
| Zinc | B | mg/L | 0.001455 | 0.001455 | | 0 | 0 | 0 | 0.0011617 | 0.0065544 | 1 | 0% | 0 | 0 | 0% | JL |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|----------|------------------|-------|----------|-----------|---------|--------|--------|------|-----|------|------|---|
| 14998143 | B22011137-001 | ICPMS-6020-W- | SAMP | | 1/22/2022 1:30:1 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.003414 | 0.003414 | | 0 | 0 | 0 | 0.00086 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 0.00006368 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | -0.0001433 | 0 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|---------------|---------------|-------------|------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998143 | B22011137-001 | ICPMS-6020-W- | SAMP | | 1/22/2022 1:30:1 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Barium | A | mg/L | 0.0208 | 0.0208 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00002881 | 0.00002881 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Cerium | A | mg/L | 0.00009176 | 0.00009176 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Chromium | A | mg/L | 0.000293 | 0.000293 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Cobalt | A | mg/L | 0.0002678 | 0.0002678 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Copper | A | mg/L | 0.0004622 | 0.0004622 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lead | A | mg/L | 0.00002083 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Mercury | A | mg/L | 0.00001851 | 0 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.00009411 | 0.00009411 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Nickel | A | mg/L | 0.0005522 | 0 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.0001518 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -0.00006368 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.1113 | 0.1113 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00001165 | 0 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | -6.226E-06 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.003678 | 0.003678 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00002218 | 0 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Calcium | B | mg/L | 13.96 | 13.96 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | D |
| Iron | B | mg/L | 2.942 | 2.942 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 2.942 | 2.942 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | 27.7 | 27.7 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | D |
| Tin | B | mg/L | -0.0000703 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Vanadium | B | mg/L | -0.0006251 | 0 | | 0 | 0 | 0 | 0.0013 | 0.0013 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.0005433 | 0 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|-------------|-----------|------------------|-------|----------|--------------|-----------|--------|--------|------|-----|------|------|---|
| 14998144 | B22011137-001 | ICPMS-6020-W- | SAMP | | 1/22/2022 1:36:2 | 1 | 163063 | 1/19/2022 3: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.0003641 | 0.0003641 | | 0 | 0 | 0 | 0.0002799 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Arsenic | A | mg/L | 0.0001458 | 0 | | 0 | 0 | 0 | 0.0003412 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Barium | A | mg/L | 0.02129 | 0.02129 | | 0 | 0 | 0 | 0.0002682 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.000001281 | 0 | | 0 | 0 | 0 | 1.821E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | U |
| Cerium | A | mg/L | 0.0002418 | 0.0002418 | | 0 | 0 | 0 | 2.738E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Cobalt | A | mg/L | 0.0003532 | 0.0003532 | | 0 | 0 | 0 | 9.541E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|---------------|---------------|-------------|------------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|----|
| 14998144 | B22011137-001 | ICPMS-6020-W- | SAMP | | 1/22/2022 1:36:2 | 1 | 163063 | 1/19/2022 3: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Lanthanum | A | mg/L | 0.00006666 | 0.00006666 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Lead | A | mg/L | 0.0001987 | 0.0001987 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Molybdenum | A | mg/L | 0.0005055 | 0.0005055 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Selenium | A | mg/L | 0.00007791 | 0 | | 0 | 0 | 0 | 0.0001357 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Silver | A | mg/L | -0.0000171 | 0 | | 0 | 0 | 0 | 4.281E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Strontium | A | mg/L | 0.1115 | 0.1115 | | 0 | 0 | 0 | 0.0002433 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00002195 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Titanium | A | mg/L | 0.01063 | 0.01063 | | 0 | 0 | 0 | 0.0005733 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.000006939 | 0 | | 0 | 0 | 0 | 1.699E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | U |
| Aluminum | B | mg/L | 0.08101 | 0.08101 | | 0 | 0 | 0 | 0.0038747 | 0.0031975 | 1 | 0% | 0 | 0 | 0% | D |
| Calcium | B | mg/L | 13.45 | 13.45 | | 0 | 0 | 0 | 0.0372936 | 0.1103481 | 50 | 0% | 0 | 0 | 0% | D |
| Chromium | B | mg/L | 0.0007076 | 0 | | 0 | 0 | 0 | 0.0015375 | 0.0015375 | 1 | 0% | 0 | 0 | 0% | UL |
| Copper | B | mg/L | 0.00263 | 0.00263 | | 0 | 0 | 0 | 0.0008747 | 0.00198 | 1 | 0% | 0 | 0 | 0% | D |
| Iron | B | mg/L | 2.98 | 2.98 | | 0 | 0 | 0 | 0.007424 | 0.00513 | 5 | 0% | 0 | 0 | 0% | D |
| Magnesium | B | mg/L | 26.71 | 26.71 | | 0 | 0 | 0 | 0.0104254 | 0.0081522 | 50 | 0% | 0 | 0 | 0% | D |
| Nickel | B | mg/L | 0.0007148 | 0.0007148 | | 0 | 0 | 0 | 0.0002288 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | JL |
| Sodium | B | mg/L | 49.7 | 49.7 | | 0 | 0 | 0 | 0.1019461 | 0.7330269 | 50 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | 0.00001566 | 0 | | 0 | 0 | 0 | 0.0003796 | 0.00415 | 1 | 0% | 0 | 0 | 0% | UL |
| Tin | B | mg/L | 0.0004435 | 0 | | 0 | 0 | 0 | 0.0018932 | 0.0011175 | 0.1 | 0% | 0 | 0 | 0% | U |
| Vanadium | B | mg/L | 0.004879 | 0.004879 | | 0 | 0 | 0 | 0.0039127 | 0.0021085 | 1 | 0% | 0 | 0 | 0% | UD |
| Zinc | B | mg/L | 0.002309 | 0.002309 | | 0 | 0 | 0 | 0.0011617 | 0.0065544 | 1 | 0% | 0 | 0 | 0% | JL |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|-------------|------------|------------------|-------|----------|-----------|----------|--------|--------|------|-----|------|------|---|
| 14998145 | B22011214-001 | ICPMS-6020-W- | SAMP | | 1/22/2022 1:42:4 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.001889 | 0.001889 | | 0 | 0 | 0 | 0.00086 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 0.0004132 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0.00655 | 0.00655 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.00329 | 0.00329 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00003073 | 0.00003073 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Cerium | A | mg/L | 0.000002301 | 0 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0.0007013 | 0.0007013 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Cobalt | A | mg/L | 0.0001773 | 0.0001773 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Copper | A | mg/L | 0.0002103 | 0 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|---------------|---------------|-------------|-----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998145 | B22011214-001 | ICPMS-6020-W- | SAMP | | 1/22/2022 1:42:4 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Lead | A | mg/L | 0.00002909 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Manganese | A | mg/L | 0.02699 | 0.02699 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.01058 | 0.01058 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0.001069 | 0.001069 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.0006024 | 0.0006024 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Silver | A | mg/L | -0.00006067 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.1083 | 0.1083 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | -6.135E-06 | 0 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | -0.00000944 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.001592 | 0.001592 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.0003322 | 0.0003322 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Calcium | B | mg/L | 22.69 | 22.69 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | D |
| Iron | B | mg/L | 0.03201 | 0.03201 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0.03201 | 0.03201 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | 24.12 | 24.12 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | D |
| Tin | B | mg/L | 0.000008231 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Vanadium | B | mg/L | 0.02334 | 0.02334 | | 0 | 0 | 0 | 0.0013 | 0.0013 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.004047 | 0.004047 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | D |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|---------------|---------------|-------------|------------|------------------|-------|----------|--------------|-----------|--------|--------|------|-----|------|------|---|
| 14998146 | B22011214-001 | ICPMS-6020-W- | SAMP | | 1/22/2022 1:48:5 | 1 | 163116 | 1/20/2022 1: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.0006315 | 0.0006315 | | 0 | 0 | 0 | 0.0002799 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Arsenic | A | mg/L | 0.006696 | 0.006696 | | 0 | 0 | 0 | 0.0003412 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.003181 | 0.003181 | | 0 | 0 | 0 | 0.0002682 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.000004536 | 0 | | 0 | 0 | 0 | 1.821E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | U |
| Cerium | A | mg/L | 0.00008488 | 0.00008488 | | 0 | 0 | 0 | 2.738E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Cobalt | A | mg/L | 0.0002681 | 0.0002681 | | 0 | 0 | 0 | 9.541E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lanthanum | A | mg/L | 0.00003495 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Lead | A | mg/L | 0.0002526 | 0.0002526 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Manganese | A | mg/L | 0.008747 | 0.008747 | | 0 | 0 | 0 | 0.0005399 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.008346 | 0.008346 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.0007745 | 0.0007745 | | 0 | 0 | 0 | 0.0001357 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Silver | A | mg/L | 0.0005027 | 0.0005027 | | 0 | 0 | 0 | 4.281E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | J |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|---------------|---------------|------------|-----------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|----|
| 14998146 | B22011214-001 | ICPMS-6020-W- | SAMP | | 1/22/2022 1:48:5 | 1 | 163116 | 1/20/2022 1: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Strontium | A | mg/L | 0.1072 | 0.1072 | | 0 | 0 | 0 | 0.0002433 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00001753 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Titanium | A | mg/L | 0.006146 | 0.006146 | | 0 | 0 | 0 | 0.0005733 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.0003685 | 0.0003685 | | 0 | 0 | 0 | 1.699E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Aluminum | B | mg/L | 0.06016 | 0.06016 | | 0 | 0 | 0 | 0.0038747 | 0.0031975 | 1 | 0% | 0 | 0 | 0% | D |
| Calcium | B | mg/L | 21.66 | 21.66 | | 0 | 0 | 0 | 0.0372936 | 0.1103481 | 50 | 0% | 0 | 0 | 0% | D |
| Chromium | B | mg/L | 0.003263 | 0.003263 | | 0 | 0 | 0 | 0.0015375 | 0.0015375 | 1 | 0% | 0 | 0 | 0% | UD |
| Copper | B | mg/L | 0.001405 | 0.001405 | | 0 | 0 | 0 | 0.0008747 | 0.00198 | 1 | 0% | 0 | 0 | 0% | JL |
| Iron | B | mg/L | 0.1721 | 0.1721 | | 0 | 0 | 0 | 0.007424 | 0.00513 | 5 | 0% | 0 | 0 | 0% | D |
| Magnesium | B | mg/L | 23.23 | 23.23 | | 0 | 0 | 0 | 0.0104254 | 0.0081522 | 50 | 0% | 0 | 0 | 0% | D |
| Nickel | B | mg/L | 0.001608 | 0.001608 | | 0 | 0 | 0 | 0.0002288 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | JL |
| Thorium | B | mg/L | 0.00000845 | 0 | | 0 | 0 | 0 | 0.0003796 | 0.00415 | 1 | 0% | 0 | 0 | 0% | UL |
| Tin | B | mg/L | 0.0008632 | 0 | | 0 | 0 | 0 | 0.0018932 | 0.0011175 | 0.1 | 0% | 0 | 0 | 0% | U |
| Vanadium | B | mg/L | 0.03835 | 0.03835 | | 0 | 0 | 0 | 0.0039127 | 0.0021085 | 1 | 0% | 0 | 0 | 0% | D |
| Zinc | B | mg/L | 0.02829 | 0.02829 | | 0 | 0 | 0 | 0.0011617 | 0.0065544 | 1 | 0% | 0 | 0 | 0% | D |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|---------------|---------------|-------------|-----------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|---|
| 14998147 | B22011214-001 | ICPMS-6020-W- | SD | | 1/22/2022 1:55:1 | 5 | 163116 | 1/20/2022 1: | 0 | 1E+07 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.01251 | 0.06255 | | 0 | 0 | 0.06016 | 0.0193736 | 0.0159875 | 1 | 0% | 0 | 0 | | N |
| Antimony | A | mg/L | 0.0001208 | 0 | | 0 | 0 | 0.0006315 | 0.0013997 | 0.0049 | 0.1 | 0% | 0 | 0 | | |
| Arsenic | A | mg/L | 0.00129 | 0.00645 | | 0 | 0 | 0.006696 | 0.0017061 | 0.0013383 | 1 | 0% | 0 | 0 | | N |
| Barium | A | mg/L | 0.0006477 | 0.0032385 | | 0 | 0 | 0.003181 | 0.0013411 | 0.0012039 | 1 | 0% | 0 | 0 | | N |
| Beryllium | A | mg/L | -0.00005684 | 0 | | 0 | 0 | 0 | 0.0005353 | 0.01 | 1 | 0% | 0 | 0 | | |
| Boron | A | mg/L | 0.01847 | 0 | | 0 | 0 | 0.08695 | 0.1019008 | 0.07335 | 1 | 0% | 0 | 0 | | |
| Cadmium | A | mg/L | 0.000001202 | 0 | | 0 | 0 | 0 | 9.105E-05 | 0.005 | 1 | 0% | 0 | 0 | | |
| Calcium | A | mg/L | 4.352 | 21.76 | | 0 | 0 | 21.66 | 0.1864681 | 0.5517403 | 50 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 0.00001863 | 0 | | 0 | 0 | 8.488E-05 | 0.0001369 | 0.001 | 0.1 | 0% | 0 | 0 | | |
| Chromium | A | mg/L | 0.00069 | 0 | | 0 | 0 | 0.003263 | 0.0076875 | 0.0076875 | 1 | 0% | 0 | 0 | | |
| Cobalt | A | mg/L | 0.00004986 | 0 | | 0 | 0 | 0.0002681 | 0.0004771 | 0.001 | 1 | 0% | 0 | 0 | | |
| Copper | A | mg/L | 0.0006963 | 0 | | 0 | 0 | 0.001405 | 0.0043735 | 0.0099 | 1 | 0% | 0 | 0 | | |
| Iron | A | mg/L | 0.03374 | 0.1687 | | 0 | 0 | 0.1721 | 0.0371198 | 0.02565 | 5 | 0% | 0 | 0 | | N |
| Lanthanum | A | mg/L | 0.000006827 | 0 | | 0 | 0 | 0 | 0.000275 | 0.001 | 0.1 | 0% | 0 | 0 | | |
| Lead | A | mg/L | 0.00004799 | 0 | | 0 | 0 | 0.0002526 | 0.0003858 | 0.001 | 1 | 0% | 0 | 0 | | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|---------------|------------------|------------|------------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|---|
| 14998147 | B22011214-001 | ICPMS-6020-W- SD | | | 1/22/2022 1:55:1 | 5 | 163116 | 1/20/2022 1: | 0 | 1E+07 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Magnesium | A | mg/L | 4.71 | 23.55 | | 0 | 0 | 23.23 | 0.0521269 | 0.0407608 | 50 | 0% | 0 | 0 | 1% | |
| Manganese | A | mg/L | 0.001729 | 0.008645 | | 0 | 0 | 0.008747 | 0.0026994 | 0.0010695 | 1 | 0% | 0 | 0 | | N |
| Molybdenum | A | mg/L | 0.001617 | 0.008085 | | 0 | 0 | 0.008346 | 0.0008814 | 0.001 | 0.1 | 0% | 0 | 0 | | N |
| Nickel | A | mg/L | 0.0003412 | 0.001706 | | 0 | 0 | 0.001608 | 0.0011441 | 0.0121000 | 1 | 0% | 0 | 0 | | N |
| Potassium | A | mg/L | 0.4382 | 2.191 | | 0 | 0 | 2.362 | 0.3828097 | 0.1306027 | 50 | 0% | 0 | 0 | | N |
| Selenium | A | mg/L | 0.0001511 | 0.0007555 | | 0 | 0 | 0.0007745 | 0.0006787 | 0.0029274 | 1 | 0% | 0 | 0 | | N |
| Silicon | A | mg/L | 4.844 | 24.22 | | 0 | 0 | 25.15 | 0.2110446 | 0.026606 | 0.4 | 0% | 0 | 0 | 4% | |
| Silver | A | mg/L | 0.00004953 | 0.00024765 | | 0 | 0 | 0.0005027 | 0.0002141 | 0.001 | 0.04 | 0% | 0 | 0 | | N |
| Sodium | A | mg/L | 14.99 | 74.95 | | 0 | 0 | 76.02 | 0.5097304 | 3.6651346 | 50 | 0% | 0 | 0 | 1% | |
| Strontium | A | mg/L | 0.02038 | 0.1019 | | 0 | 0 | 0.1072 | 0.0012164 | 0.001 | 1 | 0% | 0 | 0 | 5% | |
| Thallium | A | mg/L | -9.394E-06 | 0 | | 0 | 0 | 0 | 0.0005569 | 0.001 | 1 | 0% | 0 | 0 | | |
| Thorium | A | mg/L | -7.361E-06 | 0 | | 0 | 0 | 0 | 0.0018981 | 0.02075 | 1 | 0% | 0 | 0 | | |
| Tin | A | mg/L | 0.0001743 | 0 | | 0 | 0 | 0 | 0.0094659 | 0.0055874 | 0.1 | 0% | 0 | 0 | | |
| Titanium | A | mg/L | 0.001172 | 0.00586 | | 0 | 0 | 0.006146 | 0.0028666 | 0.001 | 1 | 0% | 0 | 0 | | N |
| Uranium | A | mg/L | 0.00006949 | 0.00034745 | | 0 | 0 | 0.0003685 | 8.495E-05 | 0.0004224 | 1 | 0% | 0 | 0 | | N |
| Vanadium | A | mg/L | 0.008198 | 0.04099 | | 0 | 0 | 0.03835 | 0.0195637 | 0.0105423 | 1 | 0% | 0 | 0 | | N |
| Zinc | A | mg/L | 0.005979 | 0.029895 | | 0 | 0 | 0.02829 | 0.0058087 | 0.0327721 | 1 | 0% | 0 | 0 | | N |
| Silica | C | mg/L | 10.3622848 | 51.811424 | | 0 | 0 | 0 | 0.4514666 | 0.0569155 | 5 | 0% | 0 | 0 | | N |
| Silicon as SiO2 | C | mg/L | 10.3622848 | 51.811424 | | 0 | 0 | 0 | 0.4514666 | 0.0569155 | 5 | 0% | 0 | 0 | | N |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|---------------|--------------------|------------|-----------|------------------|--------|-----------|--------------|-----------|-----------|--------|------|-----|------|------|---|
| 14998148 | B22011214-001 | ICPMS-6020-W- PDS1 | | | 1/22/2022 2:01:2 | 1.03 | 163116 | 1/20/2022 1: | 1E+07 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.1085 | 0.111755 | | 0.0515 | 0.06016 | 0 | 0.003991 | 0.0032934 | 1 | 100% | 75 | 125 | 0% | |
| Antimony | A | mg/L | 0.05079 | 0.0523137 | | 0.0515 | 0.0006315 | 0 | 0.0002883 | 0.0010094 | 0.1 | 100% | 75 | 125 | 0% | |
| Arsenic | A | mg/L | 0.05494 | 0.0565882 | | 0.0515 | 0.006696 | 0 | 0.0003514 | 0.001 | 1 | 97% | 75 | 125 | 0% | |
| Barium | A | mg/L | 0.05487 | 0.0565161 | | 0.0515 | 0.003181 | 0 | 0.0002763 | 0.001 | 1 | 104% | 75 | 125 | 0% | |
| Beryllium | A | mg/L | 0.03614 | 0.0372242 | | 0.0515 | 0 | 0 | 0.0001103 | 0.01 | 1 | 72% | 75 | 125 | 0% | S |
| Boron | A | mg/L | 0.1263 | 0.130089 | | 0.0515 | 0.08695 | 0 | 0.0209916 | 0.0151101 | 1 | 84% | 75 | 125 | 0% | |
| Cadmium | A | mg/L | 0.05042 | 0.0519326 | | 0.0515 | 0 | 0 | 1.876E-05 | 0.005 | 1 | 101% | 75 | 125 | 0% | |
| Calcium | A | mg/L | 21.24 | 21.8772 | | 51.5 | 21.66 | 0 | 0.0384124 | 0.1136585 | 50 | 0% | 75 | 125 | 0% | S |
| Cerium | A | mg/L | 0.05493 | 0.0565779 | | 0.0515 | 8.488E-05 | 0 | 2.820E-05 | 0.001 | 0.1 | 110% | 75 | 125 | 0% | |
| Chromium | A | mg/L | 0.04984 | 0.0513352 | | 0.0515 | 0.003263 | 0 | 0.0015836 | 0.0015836 | 1 | 93% | 75 | 125 | 0% | |
| Cobalt | A | mg/L | 0.04435 | 0.0456805 | | 0.0515 | 0.0002681 | 0 | 9.827E-05 | 0.001 | 1 | 88% | 75 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|---------------|---------------|------------|-------------|------------------|--------|-----------|--------------|-----------|-----------|--------|---------|-----|------|------|---|
| 14998148 | B22011214-001 | ICPMS-6020-W- | PDS1 | | 1/22/2022 2:01:2 | 1.03 | 163116 | 1/20/2022 1: | 1E+07 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Copper | A | mg/L | 0.05079 | 0.0523137 | | 0.0515 | 0.001405 | 0 | 0.0009009 | 0.0020394 | 1 | 99% | 75 | 125 | 0% | |
| Iron | A | mg/L | 0.2171 | 0.223613 | | 5.15 | 0.1721 | 0 | 0.0076467 | 0.0052839 | 5 | 1% | 75 | 125 | 0% | S |
| Lanthanum | A | mg/L | 0.0000385 | 0 | | 0.0515 | 0 | 0 | 5.665E-05 | 0.001 | 0.1 | 0% | 75 | 125 | 0% | S |
| Lead | A | mg/L | 0.05117 | 0.0527051 | | 0.0515 | 0.0002526 | 0 | 7.947E-05 | 0.001 | 1 | 102% | 80 | 120 | 0% | |
| Magnesium | A | mg/L | 22.95 | 23.6385 | | 51.5 | 23.23 | 0 | 0.0107381 | 0.0083967 | 50 | 1% | 75 | 125 | 0% | S |
| Manganese | A | mg/L | 0.05523 | 0.0568869 | | 0.0515 | 0.008747 | 0 | 0.0005561 | 0.001 | 1 | 93% | 75 | 125 | 0% | |
| Molybdenum | A | mg/L | 0.05523 | 0.0568869 | | 0.0515 | 0.008346 | 0 | 0.0001816 | 0.001 | 0.1 | 94% | 75 | 125 | 0% | |
| Nickel | A | mg/L | 0.05022 | 0.0517266 | | 0.0515 | 0.001608 | 0 | 0.0002357 | 0.0024926 | 1 | 97% | 75 | 125 | 0% | |
| Potassium | A | mg/L | 2.367 | 2.43801 | | 51.5 | 2.362 | 0 | 0.0788588 | 0.0269042 | 50 | 0% | 75 | 125 | 0% | S |
| Selenium | A | mg/L | 0.05066 | 0.0521798 | | 0.0515 | 0.0007745 | 0 | 0.0001398 | 0.001 | 1 | 100% | 75 | 125 | 0% | |
| Silicon | A | mg/L | 25.79 | 26.5637 | | 0.206 | 25.15 | 0 | 0.0434752 | 0.0054808 | 0.4 | | 0 | 0 | 0% | A |
| Silver | A | mg/L | 0.01972 | 0.0203116 | | 0.0206 | 0.0005027 | 0 | 4.409E-05 | 0.001 | 0.04 | 96% | 75 | 125 | 0% | |
| Sodium | A | mg/L | 72.03 | 74.1909 | | 51.5 | 76.02 | 0 | 0.1050045 | 0.7550177 | 50 | -4% | 75 | 125 | 0% | S |
| Strontium | A | mg/L | 0.156 | 0.16068 | | 0.0515 | 0.1072 | 0 | 0.0002506 | 0.001 | 1 | 104% | 75 | 125 | 0% | |
| Thallium | A | mg/L | 0.05047 | 0.0519841 | | 0.0515 | 0 | 0 | 0.0001147 | 0.001 | 1 | 101% | 75 | 125 | 0% | |
| Thorium | A | mg/L | 0.05189 | 0.0534467 | | 0.0515 | 0 | 0 | 0.000391 | 0.0042745 | 1 | 104% | 75 | 125 | 0% | |
| Tin | A | mg/L | 0.05014 | 0.0516442 | | 0.0515 | 0 | 0 | 0.00195 | 0.001151 | 0.1 | 100% | 75 | 125 | 0% | |
| Titanium | A | mg/L | 0.04493 | 0.0462779 | | 0.0515 | 0.006146 | 0 | 0.0005905 | 0.001 | 1 | 78% | 75 | 125 | 0% | |
| Uranium | A | mg/L | 0.05312 | 0.0547136 | | 0.0515 | 0.0003685 | 0 | 1.75E-05 | 0.0003 | 1 | 106% | 75 | 125 | 0% | |
| Vanadium | A | mg/L | 0.08595 | 0.0885285 | | 0.0515 | 0.03835 | 0 | 0.0040301 | 0.0021717 | 1 | 97% | 75 | 125 | 0% | |
| Zinc | A | mg/L | 0.07577 | 0.0780431 | | 0.0515 | 0.02829 | 0 | 0.0011966 | 0.0067511 | 1 | 97% | 75 | 125 | 0% | |
| Silica | C | mg/L | 55.169968 | 56.82506704 | | 0 | 0 | 0 | 0.0930021 | 0.0117246 | 5 | 0% | 0 | 0 | 0% | |
| Silicon as SiO2 | C | mg/L | 55.169968 | 56.82506704 | | 0.0515 | 0 | 0 | 0.0930021 | 0.0117246 | 5 | 110340% | 75 | 125 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|---------------|---------------|------------|---------|------------------|-------|-----------|--------------|-----------|-----------|--------|------|-----|------|------|---|
| 14998149 | B22011214-001 | ICPMS-6020-W- | MS4 | | 1/22/2022 2:07:4 | 1 | 163116 | 1/20/2022 1: | 1E+07 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.4816 | 0.4816 | | 0.5 | 0.06016 | 0 | 0.0038747 | 0.0031975 | 1 | 84% | 75 | 125 | 0% | |
| Antimony | A | mg/L | 0.1058 | 0.1058 | | 0.1 | 0.0006315 | 0 | 0.0002799 | 0.001 | 0.1 | 105% | 75 | 125 | 0% | |
| Arsenic | A | mg/L | 0.1049 | 0.1049 | | 0.1 | 0.006696 | 0 | 0.0003412 | 0.001 | 1 | 98% | 75 | 125 | 0% | |
| Barium | A | mg/L | 0.1004 | 0.1004 | | 0.1 | 0.003181 | 0 | 0.0002682 | 0.001 | 1 | 97% | 75 | 125 | 0% | |
| Beryllium | A | mg/L | 0.03767 | 0.03767 | | 0.05 | 0 | 0 | 0.0001071 | 0.01 | 1 | 75% | 75 | 125 | 0% | |
| Boron | A | mg/L | 0.1712 | 0.1712 | | 0.1 | 0.08695 | 0 | 0.0203802 | 0.01467 | 1 | 84% | 75 | 125 | 0% | |
| Cadmium | A | mg/L | 0.05174 | 0.05174 | | 0.05 | 0 | 0 | 1.821E-05 | 0.005 | 1 | 103% | 75 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|---------------|-------------------|------------|-----------|------------------|-------|-----------|--------------|-----------|-----------|--------|-------|-----|------|------|---|
| 14998149 | B22011214-001 | ICPMS-6020-W- MS4 | | | 1/22/2022 2:07:4 | 1 | 163116 | 1/20/2022 1: | 1E+07 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Calcium | A | mg/L | 26.96 | 26.96 | | 5 | 21.66 | 0 | 0.0372936 | 0.1103481 | 50 | | 75 | 125 | 0% | A |
| Cerium | A | mg/L | 0.1135 | 0.1135 | | 0.1 | 8.488E-05 | 0 | 2.738E-05 | 0.001 | 0.1 | 113% | 75 | 125 | 0% | |
| Chromium | A | mg/L | 0.1002 | 0.1002 | | 0.1 | 0.003263 | 0 | 0.0015375 | 0.0015375 | 1 | 97% | 75 | 125 | 0% | |
| Cobalt | A | mg/L | 0.0882 | 0.0882 | | 0.1 | 0.0002681 | 0 | 9.541E-05 | 0.001 | 1 | 88% | 75 | 125 | 0% | |
| Copper | A | mg/L | 0.1009 | 0.1009 | | 0.1 | 0.001405 | 0 | 0.0008747 | 0.00198 | 1 | 99% | 75 | 125 | 0% | |
| Iron | A | mg/L | 0.687 | 0.687 | | 0.5 | 0.1721 | 0 | 0.007424 | 0.00513 | 5 | 103% | 75 | 125 | 0% | |
| Lanthanum | A | mg/L | 0.1114 | 0.1114 | | 0.1 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 111% | 75 | 125 | 0% | |
| Lead | A | mg/L | 0.1038 | 0.1038 | | 0.1 | 0.0002526 | 0 | 7.716E-05 | 0.001 | 1 | 104% | 88 | 115 | 0% | |
| Magnesium | A | mg/L | 29.3 | 29.3 | | 5 | 23.23 | 0 | 0.0104254 | 0.0081522 | 50 | | 75 | 125 | 0% | A |
| Manganese | A | mg/L | 0.482 | 0.482 | | 0.5 | 0.008747 | 0 | 0.0005399 | 0.001 | 1 | 95% | 75 | 125 | 0% | |
| Molybdenum | A | mg/L | 0.1019 | 0.1019 | | 0.1 | 0.008346 | 0 | 0.0001763 | 0.001 | 0.1 | 94% | 75 | 125 | 0% | |
| Nickel | A | mg/L | 0.09627 | 0.09627 | | 0.1 | 0.001608 | 0 | 0.0002288 | 0.0024200 | 1 | 95% | 75 | 125 | 0% | |
| Potassium | A | mg/L | 6.899 | 6.899 | | 5 | 2.362 | 0 | 0.0765619 | 0.0261205 | 50 | 91% | 75 | 125 | 0% | |
| Selenium | A | mg/L | 0.1036 | 0.1036 | | 0.1 | 0.0007745 | 0 | 0.0001357 | 0.001 | 1 | 103% | 75 | 125 | 0% | |
| Silicon | A | mg/L | 28.83 | 28.83 | | 1 | 25.15 | 0 | 0.0422089 | 0.0053212 | 0.4 | | 75 | 125 | 0% | A |
| Silver | A | mg/L | 0.009718 | 0.009718 | | 0.01 | 0.0005027 | 0 | 4.281E-05 | 0.001 | 0.04 | 92% | 75 | 125 | 0% | |
| Sodium | A | mg/L | 80.8 | 80.8 | | 5 | 76.02 | 0 | 0.1019461 | 0.7330269 | 50 | | 75 | 125 | 0% | A |
| Strontium | A | mg/L | 0.2093 | 0.2093 | | 0.1 | 0.1072 | 0 | 0.0002433 | 0.001 | 1 | 102% | 75 | 125 | 0% | |
| Thallium | A | mg/L | 0.1037 | 0.1037 | | 0.1 | 0 | 0 | 0.0001114 | 0.001 | 1 | 104% | 75 | 125 | 0% | |
| Thorium | A | mg/L | 0.1069 | 0.1069 | | 0.1 | 0 | 0 | 0.0003796 | 0.00415 | 1 | 107% | 75 | 125 | 0% | |
| Tin | A | mg/L | 0.1055 | 0.1055 | | 0.1 | 0 | 0 | 0.0018932 | 0.0011175 | 0.1 | 105% | 75 | 125 | 0% | |
| Titanium | A | mg/L | 0.0864 | 0.0864 | | 0.1 | 0.006146 | 0 | 0.0005733 | 0.001 | 1 | 80% | 75 | 125 | 0% | |
| Uranium | A | mg/L | 0.1094 | 0.1094 | | 0.1 | 0.0003685 | 0 | 1.699E-05 | 0.0003 | 1 | 109% | 75 | 125 | 0% | |
| Vanadium | A | mg/L | 0.1371 | 0.1371 | | 0.1 | 0.03835 | 0 | 0.0039127 | 0.0021085 | 1 | 99% | 75 | 125 | 0% | |
| Zinc | A | mg/L | 0.124 | 0.124 | | 0.1 | 0.02829 | 0 | 0.0011617 | 0.0065544 | 1 | 96% | 75 | 125 | 0% | |
| Silica | C | mg/L | 61.673136 | 61.673136 | | 0 | 0 | 0 | 0.0902933 | 0.0113831 | 5 | 0% | 0 | 0 | 0% | |
| Silicon as SiO2 | C | mg/L | 61.673136 | 61.673136 | | 2.14 | 0 | 0 | 0.0902933 | 0.0113831 | 5 | 2882% | 75 | 125 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|--------------------|------------|---------|------------------|-------|-----------|--------------|-----------|-----------|--------|------|-----|------|------|---|
| 14998150 | B22011214-001 | ICPMS-6020-W- MSD4 | | | 1/22/2022 2:13:5 | 1 | 163116 | 1/20/2022 1: | 1E+07 | 1E+07 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.508 | 0.508 | | 0.5 | 0.06016 | 0.4816 | 0.0038747 | 0.0031975 | 1 | 90% | 75 | 125 | 5% | |
| Antimony | A | mg/L | 0.1075 | 0.1075 | | 0.1 | 0.0006315 | 0.1058 | 0.0002799 | 0.001 | 0.1 | 107% | 75 | 125 | 2% | |
| Arsenic | A | mg/L | 0.1046 | 0.1046 | | 0.1 | 0.006696 | 0.1049 | 0.0003412 | 0.001 | 1 | 98% | 75 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|---------------|---------------|------------|-----------|------------------|-------|-----------|--------------|-----------|-----------|--------|-------|-----|------|------|---|
| 14998150 | B22011214-001 | ICPMS-6020-W- | MSD4 | | 1/22/2022 2:13:5 | 1 | 163116 | 1/20/2022 1: | 1E+07 | 1E+07 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Barium | A | mg/L | 0.1034 | 0.1034 | | 0.1 | 0.003181 | 0.1004 | 0.0002682 | 0.001 | 1 | 100% | 75 | 125 | 3% | |
| Beryllium | A | mg/L | 0.03989 | 0.03989 | | 0.05 | 0 | 0.03767 | 0.0001071 | 0.01 | 1 | 80% | 75 | 125 | 6% | |
| Boron | A | mg/L | 0.1774 | 0.1774 | | 0.1 | 0.08695 | 0.1712 | 0.0203802 | 0.01467 | 1 | 90% | 75 | 125 | 4% | |
| Cadmium | A | mg/L | 0.05079 | 0.05079 | | 0.05 | 0 | 0.05174 | 1.821E-05 | 0.005 | 1 | 102% | 75 | 125 | 2% | |
| Calcium | A | mg/L | 25.86 | 25.86 | | 5 | 21.66 | 26.96 | 0.0372936 | 0.1103481 | 50 | | 75 | 125 | 4% | A |
| Cerium | A | mg/L | 0.1119 | 0.1119 | | 0.1 | 8.488E-05 | 0.1135 | 2.738E-05 | 0.001 | 0.1 | 112% | 75 | 125 | 1% | |
| Chromium | A | mg/L | 0.09917 | 0.09917 | | 0.1 | 0.003263 | 0.1002 | 0.0015375 | 0.0015375 | 1 | 96% | 75 | 125 | 1% | |
| Cobalt | A | mg/L | 0.08956 | 0.08956 | | 0.1 | 0.0002681 | 0.0882 | 9.541E-05 | 0.001 | 1 | 89% | 75 | 125 | 2% | |
| Copper | A | mg/L | 0.09923 | 0.09923 | | 0.1 | 0.001405 | 0.1009 | 0.0008747 | 0.00198 | 1 | 98% | 75 | 125 | 2% | |
| Iron | A | mg/L | 0.6549 | 0.6549 | | 0.5 | 0.1721 | 0.687 | 0.007424 | 0.00513 | 5 | 97% | 75 | 125 | 5% | |
| Lanthanum | A | mg/L | 0.1095 | 0.1095 | | 0.1 | 0 | 0.1114 | 0.000055 | 0.001 | 0.1 | 109% | 75 | 125 | 2% | |
| Lead | A | mg/L | 0.1054 | 0.1054 | | 0.1 | 0.0002526 | 0.1038 | 7.716E-05 | 0.001 | 1 | 105% | 88 | 115 | 2% | |
| Magnesium | A | mg/L | 28.36 | 28.36 | | 5 | 23.23 | 29.3 | 0.0104254 | 0.0081522 | 50 | | 75 | 125 | 3% | A |
| Manganese | A | mg/L | 0.4776 | 0.4776 | | 0.5 | 0.008747 | 0.482 | 0.0005399 | 0.001 | 1 | 94% | 75 | 125 | 1% | |
| Molybdenum | A | mg/L | 0.1072 | 0.1072 | | 0.1 | 0.008346 | 0.1019 | 0.0001763 | 0.001 | 0.1 | 99% | 75 | 125 | 5% | |
| Nickel | A | mg/L | 0.09836 | 0.09836 | | 0.1 | 0.001608 | 0.09627 | 0.0002288 | 0.0024200 | 1 | 97% | 75 | 125 | 2% | |
| Potassium | A | mg/L | 7.05 | 7.05 | | 5 | 2.362 | 6.899 | 0.0765619 | 0.0261205 | 50 | 94% | 75 | 125 | 2% | |
| Selenium | A | mg/L | 0.1014 | 0.1014 | | 0.1 | 0.0007745 | 0.1036 | 0.0001357 | 0.001 | 1 | 101% | 75 | 125 | 2% | |
| Silicon | A | mg/L | 27.66 | 27.66 | | 1 | 25.15 | 28.83 | 0.0422089 | 0.0053212 | 0.4 | | 75 | 125 | 4% | A |
| Silver | A | mg/L | 0.00999 | 0.00999 | | 0.01 | 0.0005027 | 0.009718 | 4.281E-05 | 0.001 | 0.04 | 95% | 75 | 125 | 3% | |
| Sodium | A | mg/L | 77.65 | 77.65 | | 5 | 76.02 | 80.8 | 0.1019461 | 0.7330269 | 50 | | 75 | 125 | 4% | A |
| Strontium | A | mg/L | 0.2074 | 0.2074 | | 0.1 | 0.1072 | 0.2093 | 0.0002433 | 0.001 | 1 | 100% | 75 | 125 | 1% | |
| Thallium | A | mg/L | 0.1032 | 0.1032 | | 0.1 | 0 | 0.1037 | 0.0001114 | 0.001 | 1 | 103% | 75 | 125 | 0% | |
| Thorium | A | mg/L | 0.1059 | 0.1059 | | 0.1 | 0 | 0.1069 | 0.0003796 | 0.00415 | 1 | 106% | 75 | 125 | 1% | |
| Tin | A | mg/L | 0.1081 | 0.1081 | | 0.1 | 0 | 0.1055 | 0.0018932 | 0.0011175 | 0.1 | 108% | 75 | 125 | 2% | |
| Titanium | A | mg/L | 0.08695 | 0.08695 | | 0.1 | 0.006146 | 0.0864 | 0.0005733 | 0.001 | 1 | 81% | 75 | 125 | 1% | |
| Uranium | A | mg/L | 0.1106 | 0.1106 | | 0.1 | 0.0003685 | 0.1094 | 1.699E-05 | 0.0003 | 1 | 110% | 75 | 125 | 1% | |
| Vanadium | A | mg/L | 0.1368 | 0.1368 | | 0.1 | 0.03835 | 0.1371 | 0.0039127 | 0.0021085 | 1 | 98% | 75 | 125 | 0% | |
| Zinc | A | mg/L | 0.1244 | 0.1244 | | 0.1 | 0.02829 | 0.124 | 0.0011617 | 0.0065544 | 1 | 96% | 75 | 125 | 0% | |
| Silica | C | mg/L | 59.170272 | 59.170272 | | 0 | 0 | 61.673136 | 0.0902933 | 0.0113831 | 5 | 0% | 0 | 0 | 4% | |
| Silicon as SiO2 | C | mg/L | 59.170272 | 59.170272 | | 2.14 | 0 | 61.673136 | 0.0902933 | 0.0113831 | 5 | 2765% | 75 | 125 | 4% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|-------------|-----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998151 | Rinse | ICPMS-6020-W- | SAMP | | 1/22/2022 2:20:1 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | -0.0003468 | 0 | | 0 | 0 | 0 | 0.00086 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 0.0001922 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0.00001218 | 0 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.000003255 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00000605 | 0 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 8.932E-07 | 0 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0.000008476 | 0 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0.000003191 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0.00001227 | 0 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.000008725 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 0.0001397 | 0.0001397 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Mercury | A | mg/L | 0.000005966 | 0 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.00001767 | 0 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0.000004579 | 0 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.000009809 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -2.306E-06 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | -6.654E-06 | 0 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.0001647 | 0.0001647 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Thorium | A | mg/L | 0.00001837 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | -6.672E-06 | 0 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.000002363 | 0 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Calcium | B | mg/L | -0.001333 | 0 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | L |
| Iron | B | mg/L | 0.0001434 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0.0001434 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | 0.0006762 | 0 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | L |
| Tin | B | mg/L | 0.00001382 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.00005318 | 0 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|-----------|---------|--------|--------|------|-----|------|------|---|
| 14998152 | B22011227-001 | ICPMS-6020-W- | SAMP | | 1/22/2022 2:26:2 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0008109 | 0 | | 0 | 0 | 0 | 0.00086 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 0.0001138 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0.00007082 | 0 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|---------------|---------------|-------------|------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998152 | B22011227-001 | ICPMS-6020-W- | SAMP | | 1/22/2022 2:26:2 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Barium | A | mg/L | 0.01079 | 0.01079 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00003385 | 0.00003385 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Cerium | A | mg/L | 0.000001812 | 0 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0.002148 | 0.002148 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0.0001475 | 0.0001475 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Copper | A | mg/L | 0.0003542 | 0.0003542 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lead | A | mg/L | 0.000008246 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Manganese | A | mg/L | 0.00198 | 0.00198 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 0.000001588 | 0 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.0002896 | 0.0002896 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Nickel | A | mg/L | 0.0005044 | 0 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.0002425 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -0.00006336 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.2629 | 0.2629 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00005604 | 0.00005604 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Thorium | A | mg/L | -3.907E-06 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.002009 | 0.002009 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00001442 | 0 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Calcium | B | mg/L | 25.88 | 25.88 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | D |
| Iron | B | mg/L | 0.01848 | 0.01848 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0.01848 | 0.01848 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | 44.48 | 44.48 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | D |
| Tin | B | mg/L | -0.0000747 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.003921 | 0.003921 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | D |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|--------|---------------|------------|---------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998153 | CCV | ICPMS-6020-W- | CCV | | 1/22/2022 2:32:4 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.05216 | 0.05216 | | 0.05 | 0 | 0 | 0.00086 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.05398 | 0.05398 | | 0.05 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 108% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.05022 | 0.05022 | | 0.05 | 0 | 0 | 0.00019 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.05169 | 0.05169 | | 0.05 | 0 | 0 | 0.000042 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.03762 | 0.03762 | | 0.05 | 0 | 0 | 0.00012 | 0.001 | 1 | 75% | 90 | 110 | 0% | S |
| Boron | A | mg/L | 0.04081 | 0.04081 | | 0.05 | 0 | 0 | 0.00561 | 0.00561 | 1 | 82% | 90 | 110 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|------------|-----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998153 | CCV | ICPMS-6020-W- | CCV | | 1/22/2022 2:32:4 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Cadmium | A | mg/L | 0.05121 | 0.05121 | | 0.05 | 0 | 0 | 0.000025 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 12.05 | 12.05 | | 12.5 | 0 | 0 | 0.02092 | 0.02092 | 50 | 96% | 90 | 110 | 0% | |
| Cerium | A | mg/L | 0.05149 | 0.05149 | | 0.05 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 103% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.04822 | 0.04822 | | 0.05 | 0 | 0 | 0.00018 | 0.001 | 1 | 96% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.04912 | 0.04912 | | 0.05 | 0 | 0 | 0.000042 | 0.001 | 1 | 98% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.05006 | 0.05006 | | 0.05 | 0 | 0 | 0.00027 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Iron | A | mg/L | 1.338 | 1.338 | | 1.3 | 0 | 0 | 0.00119 | 0.00119 | 5 | 103% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.05192 | 0.05192 | | 0.05 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 104% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.05071 | 0.05071 | | 0.05 | 0 | 0 | 0.000056 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 11.87 | 11.87 | | 12.5 | 0 | 0 | 0.00564 | 0.00564 | 50 | 95% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.04835 | 0.04835 | | 0.05 | 0 | 0 | 0.000095 | 0.001 | 1 | 97% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.0009954 | 0.0009954 | | 0.001 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 100% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.05007 | 0.05007 | | 0.05 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 100% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.04892 | 0.04892 | | 0.05 | 0 | 0 | 0.00063 | 0.001 | 1 | 98% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 11.33 | 11.33 | | 12.5 | 0 | 0 | 0.08139 | 0.08139 | 50 | 91% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.05215 | 0.05215 | | 0.05 | 0 | 0 | 0.00033 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.2641 | 0.2641 | | 0.2 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 132% | 90 | 110 | 0% | S |
| Silver | A | mg/L | 0.01986 | 0.01986 | | 0.02 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 99% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 12.02 | 12.02 | | 12.5 | 0 | 0 | 0.02171 | 0.02171 | 50 | 96% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.05139 | 0.05139 | | 0.05 | 0 | 0 | 0.00014 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.05088 | 0.05088 | | 0.05 | 0 | 0 | 0.000041 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.04971 | 0.04971 | | 0.05 | 0 | 0 | 0.00061 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.05287 | 0.05287 | | 0.05 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 106% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.04675 | 0.04675 | | 0.05 | 0 | 0 | 0.000094 | 0.001 | 1 | 93% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.05062 | 0.05062 | | 0.05 | 0 | 0 | 0.000052 | 0.0003 | 1 | 101% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.04913 | 0.04913 | | 0.05 | 0 | 0 | 0.0013 | 0.0013 | 1 | 98% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.05072 | 0.05072 | | 0.05 | 0 | 0 | 0.00273 | 0.00273 | 1 | 101% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 1.338 | 1.338 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|--------|---------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998154 | CCB | ICPMS-6020-W- | CCB | | 1/22/2022 2:38:5 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|-------------|-------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|----|
| 14998154 | CCB | ICPMS-6020-W- | CCB | | 1/22/2022 2:38:5 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | -0.0003755 | -0.0003755 | | 0 | 0 | 0 | 0.00086 | 0.001 | 1 | 0% | | | | 0% |
| Antimony | A | mg/L | 0.0001445 | 0.0001445 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | | | | 0% |
| Arsenic | A | mg/L | 0.00002615 | 0.00002615 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | | | | 0% |
| Barium | A | mg/L | 0.000001777 | 0.000001777 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | | | | 0% |
| Beryllium | A | mg/L | -0.00004722 | -0.00004722 | | 0 | 0 | 0 | 0.00012 | 0.001 | 1 | 0% | | | | 0% |
| Boron | A | mg/L | 0.001259 | 0.001259 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | | | | 0% |
| Cadmium | A | mg/L | 0.000003153 | 0.000003153 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | | | | 0% |
| Calcium | A | mg/L | -0.00116 | -0.00116 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | | | | 0% |
| Cerium | A | mg/L | 4.248E-07 | 4.248E-07 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | | 0% |
| Chromium | A | mg/L | 0.00003214 | 0.00003214 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | | | | 0% |
| Cobalt | A | mg/L | -2.165E-06 | -2.165E-06 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | | | | 0% |
| Copper | A | mg/L | 0.000001047 | 0.000001047 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | | | | 0% |
| Iron | A | mg/L | 0.00004967 | 0.00004967 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | | | | 0% |
| Lanthanum | A | mg/L | -2.602E-07 | -2.602E-07 | | 0 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 0% | 0 | 0 | | 0% |
| Lead | A | mg/L | 0.000003168 | 0.000003168 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | | | | 0% |
| Magnesium | A | mg/L | -0.000329 | -0.000329 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | | | | 0% |
| Manganese | A | mg/L | 0.0000108 | 0.0000108 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | | | | 0% |
| Mercury | A | mg/L | 0.000004439 | 0.000004439 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | | | | 0% |
| Molybdenum | A | mg/L | 0.00001987 | 0.00001987 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | | | | 0% |
| Nickel | A | mg/L | 0.000002195 | 0.000002195 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | | | | 0% |
| Potassium | A | mg/L | -0.01901 | -0.01901 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | | | | 0% |
| Selenium | A | mg/L | 0.000007988 | 0.000007988 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | | | | 0% |
| Silicon | A | mg/L | 0.0368 | 0.0368 | | 0 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 0% | 0 | 0 | | 0% |
| Silver | A | mg/L | -1.378E-06 | -1.378E-06 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | | | | 0% |
| Sodium | A | mg/L | 0.03103 | 0.03103 | | 0 | 0 | 0 | 0.02171 | 0.02171 | 50 | 0% | | | | 0% |
| Strontium | A | mg/L | -3.513E-06 | -3.513E-06 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Thallium | A | mg/L | 0.00008142 | 0.00008142 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Thorium | A | mg/L | 0.00001564 | 0.00001564 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Tin | A | mg/L | 0.00002158 | 0.00002158 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | | 0% |
| Titanium | A | mg/L | 0.00001569 | 0.00001569 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Uranium | A | mg/L | 0.000002659 | 0.000002659 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | | 0% |
| Vanadium | A | mg/L | 0.002262 | 0.002262 | | 0 | 0 | 0 | 0.0013 | 0.0013 | 1 | 0% | 0 | 0 | | 0% |
| Zinc | A | mg/L | -4.613E-06 | -4.613E-06 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | | 0% |
| Iron, Ferrous | C | mg/L | 0.00004967 | 0.00004967 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | | 0% |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|---------------|---------------|-------------|------------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|----|
| 14998155 | B22011227-001 | ICPMS-6020-W- | SAMP | | 1/22/2022 2:45:1 | 1 | 163116 | 1/20/2022 1: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.0001883 | 0 | | 0 | 0 | 0 | 0.0002799 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Arsenic | A | mg/L | 0.0005323 | 0.0005323 | | 0 | 0 | 0 | 0.0003412 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Barium | A | mg/L | 0.01146 | 0.01146 | | 0 | 0 | 0 | 0.0002682 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.000004236 | 0 | | 0 | 0 | 0 | 1.821E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | U |
| Cerium | A | mg/L | 0.00007491 | 0.00007491 | | 0 | 0 | 0 | 2.738E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Cobalt | A | mg/L | 0.0003538 | 0.0003538 | | 0 | 0 | 0 | 9.541E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lanthanum | A | mg/L | 0.000026 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Lead | A | mg/L | 0.0001103 | 0.0001103 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Manganese | A | mg/L | 0.002846 | 0.002846 | | 0 | 0 | 0 | 0.0005399 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.001222 | 0.001222 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.0003169 | 0.0003169 | | 0 | 0 | 0 | 0.0001357 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Silver | A | mg/L | -0.00005358 | 0 | | 0 | 0 | 0 | 4.281E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Strontium | A | mg/L | 0.2512 | 0.2512 | | 0 | 0 | 0 | 0.0002433 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00007376 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Titanium | A | mg/L | 0.006007 | 0.006007 | | 0 | 0 | 0 | 0.0005733 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.00001641 | 0 | | 0 | 0 | 0 | 1.699E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | U |
| Aluminum | B | mg/L | 0.05137 | 0.05137 | | 0 | 0 | 0 | 0.0038747 | 0.0031975 | 1 | 0% | 0 | 0 | 0% | D |
| Calcium | B | mg/L | 25.95 | 25.95 | | 0 | 0 | 0 | 0.0372936 | 0.1103481 | 50 | 0% | 0 | 0 | 0% | D |
| Chromium | B | mg/L | 0.01809 | 0.01809 | | 0 | 0 | 0 | 0.0015375 | 0.0015375 | 1 | 0% | 0 | 0 | 0% | D |
| Copper | B | mg/L | 0.001186 | 0.001186 | | 0 | 0 | 0 | 0.0008747 | 0.00198 | 1 | 0% | 0 | 0 | 0% | JL |
| Iron | B | mg/L | 0.1873 | 0.1873 | | 0 | 0 | 0 | 0.007424 | 0.00513 | 5 | 0% | 0 | 0 | 0% | D |
| Magnesium | B | mg/L | 43.51 | 43.51 | | 0 | 0 | 0 | 0.0104254 | 0.0081522 | 50 | 0% | 0 | 0 | 0% | D |
| Nickel | B | mg/L | 0.000848 | 0.000848 | | 0 | 0 | 0 | 0.0002288 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | JL |
| Potassium | B | mg/L | 1.847 | 1.847 | | 0 | 0 | 0 | 0.0765619 | 0.0261205 | 50 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | 0.00005184 | 0 | | 0 | 0 | 0 | 0.0003796 | 0.00415 | 1 | 0% | 0 | 0 | 0% | UL |
| Tin | B | mg/L | 0.0004694 | 0 | | 0 | 0 | 0 | 0.0018932 | 0.0011175 | 0.1 | 0% | 0 | 0 | 0% | U |
| Vanadium | B | mg/L | 0.02515 | 0.02515 | | 0 | 0 | 0 | 0.0039127 | 0.0021085 | 1 | 0% | 0 | 0 | 0% | D |
| Zinc | B | mg/L | 0.01058 | 0.01058 | | 0 | 0 | 0 | 0.0011617 | 0.0065544 | 1 | 0% | 0 | 0 | 0% | D |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998156 | B22011228-001 | ICPMS-6020-W- | SAMP | | 1/22/2022 2:51:2 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|---------------|---------------|-------------|------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998156 | B22011228-001 | ICPMS-6020-W- | SAMP | | 1/22/2022 2:51:2 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.001047 | 0.001047 | | 0 | 0 | 0 | 0.00086 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 0.00001284 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | -0.00009281 | 0 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.001877 | 0.001877 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00002679 | 0.00002679 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Cerium | A | mg/L | 2.489E-07 | 0 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0.003078 | 0.003078 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0.000004541 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0.0000654 | 0 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00002331 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Manganese | A | mg/L | 0.00008939 | 0 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 0.00001303 | 0 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.0007896 | 0.0007896 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Nickel | A | mg/L | 0.000127 | 0 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.0001504 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -0.00006378 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.05794 | 0.05794 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00002099 | 0 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | -8.465E-06 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.00144 | 0.00144 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.000006436 | 0 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Calcium | B | mg/L | 7.731 | 7.731 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | D |
| Iron | B | mg/L | 0.009152 | 0.009152 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0.009152 | 0.009152 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | 8.483 | 8.483 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | D |
| Potassium | B | mg/L | 1.653 | 1.653 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | 0 | 0 | 0% | D |
| Sodium | B | mg/L | 36.07 | 36.07 | | 0 | 0 | 0 | 0.02171 | 0.02171 | 50 | 0% | 0 | 0 | 0% | D |
| Tin | B | mg/L | -0.00007642 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.003346 | 0.003346 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | D |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|--------------|--------|--------|--------|------|-----|------|------|---|
| 14998157 | B22011228-001 | ICPMS-6020-W- | SAMP | | 1/22/2022 2:57:3 | 1 | 163116 | 1/20/2022 2: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|---------------|---------------|-------------|-----------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|----|
| 14998157 | B22011228-001 | ICPMS-6020-W- | SAMP | | 1/22/2022 2:57:3 | 1 | 163116 | 1/20/2022 2: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.00004344 | 0 | | 0 | 0 | 0 | 0.0002799 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Arsenic | A | mg/L | 0.0001678 | 0 | | 0 | 0 | 0 | 0.0003412 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Barium | A | mg/L | 0.001901 | 0.001901 | | 0 | 0 | 0 | 0.0002682 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 6.332E-07 | 0 | | 0 | 0 | 0 | 1.821E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | U |
| Cerium | A | mg/L | 0.000005228 | 0 | | 0 | 0 | 0 | 2.738E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Cobalt | A | mg/L | 0.0001264 | 0.0001264 | | 0 | 0 | 0 | 9.541E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lanthanum | A | mg/L | 0.000002053 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Lead | A | mg/L | 0.0001261 | 0.0001261 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Manganese | A | mg/L | 0.001465 | 0.001465 | | 0 | 0 | 0 | 0.0005399 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.0009458 | 0.0009458 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Selenium | A | mg/L | 0.0001977 | 0.0001977 | | 0 | 0 | 0 | 0.0001357 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Silver | A | mg/L | -0.0000638 | 0 | | 0 | 0 | 0 | 4.281E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Strontium | A | mg/L | 0.06122 | 0.06122 | | 0 | 0 | 0 | 0.0002433 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00004775 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Titanium | A | mg/L | 0.001761 | 0.001761 | | 0 | 0 | 0 | 0.0005733 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.000007103 | 0 | | 0 | 0 | 0 | 1.699E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | U |
| Aluminum | B | mg/L | 0.005089 | 0.005089 | | 0 | 0 | 0 | 0.0038747 | 0.0031975 | 1 | 0% | 0 | 0 | 0% | UD |
| Calcium | B | mg/L | 7.718 | 7.718 | | 0 | 0 | 0 | 0.0372936 | 0.1103481 | 50 | 0% | 0 | 0 | 0% | D |
| Chromium | B | mg/L | 0.003385 | 0.003385 | | 0 | 0 | 0 | 0.0015375 | 0.0015375 | 1 | 0% | 0 | 0 | 0% | UD |
| Copper | B | mg/L | 0.0007498 | 0 | | 0 | 0 | 0 | 0.0008747 | 0.00198 | 1 | 0% | 0 | 0 | 0% | UL |
| Iron | B | mg/L | 0.05558 | 0.05558 | | 0 | 0 | 0 | 0.007424 | 0.00513 | 5 | 0% | 0 | 0 | 0% | D |
| Magnesium | B | mg/L | 8.757 | 8.757 | | 0 | 0 | 0 | 0.0104254 | 0.0081522 | 50 | 0% | 0 | 0 | 0% | D |
| Nickel | B | mg/L | 0.0002484 | 0.0002484 | | 0 | 0 | 0 | 0.0002288 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | JL |
| Potassium | B | mg/L | 1.646 | 1.646 | | 0 | 0 | 0 | 0.0765619 | 0.0261205 | 50 | 0% | 0 | 0 | 0% | D |
| Sodium | B | mg/L | 36.39 | 36.39 | | 0 | 0 | 0 | 0.1019461 | 0.7330269 | 50 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | 0.00001247 | 0 | | 0 | 0 | 0 | 0.0003796 | 0.00415 | 1 | 0% | 0 | 0 | 0% | UL |
| Tin | B | mg/L | 0.0003975 | 0 | | 0 | 0 | 0 | 0.0018932 | 0.0011175 | 0.1 | 0% | 0 | 0 | 0% | U |
| Vanadium | B | mg/L | 0.02244 | 0.02244 | | 0 | 0 | 0 | 0.0039127 | 0.0021085 | 1 | 0% | 0 | 0 | 0% | D |
| Zinc | B | mg/L | 0.01192 | 0.01192 | | 0 | 0 | 0 | 0.0011617 | 0.0065544 | 1 | 0% | 0 | 0 | 0% | D |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|--------|---------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998158 | Rinse | ICPMS-6020-W- | SAMP | | 1/22/2022 3:03:5 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|-------------|-----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998158 | Rinse | ICPMS-6020-W- | SAMP | | 1/22/2022 3:03:5 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | -0.000364 | 0 | | 0 | 0 | 0 | 0.00086 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | -1.775E-06 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | -0.00003311 | 0 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.000002236 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.000001738 | 0 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 1.769E-07 | 0 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0.00001439 | 0 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | -2.268E-06 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0.000007546 | 0 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | -3.093E-07 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 0.0001312 | 0.0001312 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Mercury | A | mg/L | 0.000002007 | 0 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.000000148 | 0 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0.000009848 | 0 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | -2.552E-06 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -2.133E-06 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | -8.735E-06 | 0 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.000002333 | 0 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | -7.219E-06 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | -0.0000138 | 0 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 8.409E-08 | 0 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Calcium | B | mg/L | -0.001458 | 0 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | L |
| Iron | B | mg/L | 0.00009281 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0.00009281 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | 0.000002889 | 0 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | L |
| Potassium | B | mg/L | -0.03146 | 0 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | 0 | 0 | 0% | L |
| Tin | B | mg/L | 0.000001709 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Vanadium | B | mg/L | 0.0006369 | 0 | | 0 | 0 | 0 | 0.0013 | 0.0013 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | -2.564E-06 | 0 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|--------|---------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998159 | CCV | ICPMS-6020-W- | CCV | | 1/22/2022 3:10:0 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|------------|-----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998159 | CCV | ICPMS-6020-W- | CCV | | 1/22/2022 3:10:0 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.05336 | 0.05336 | | 0.05 | 0 | 0 | 0.00086 | 0.001 | 1 | 107% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.05444 | 0.05444 | | 0.05 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 109% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.05138 | 0.05138 | | 0.05 | 0 | 0 | 0.00019 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.05157 | 0.05157 | | 0.05 | 0 | 0 | 0.000042 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.03968 | 0.03968 | | 0.05 | 0 | 0 | 0.00012 | 0.001 | 1 | 79% | 90 | 110 | 0% | S |
| Boron | A | mg/L | 0.04145 | 0.04145 | | 0.05 | 0 | 0 | 0.00561 | 0.00561 | 1 | 83% | 90 | 110 | 0% | S |
| Cadmium | A | mg/L | 0.05212 | 0.05212 | | 0.05 | 0 | 0 | 0.000025 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 11.74 | 11.74 | | 12.5 | 0 | 0 | 0.02092 | 0.02092 | 50 | 94% | 90 | 110 | 0% | |
| Cerium | A | mg/L | 0.05178 | 0.05178 | | 0.05 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 104% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.04804 | 0.04804 | | 0.05 | 0 | 0 | 0.00018 | 0.001 | 1 | 96% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.04723 | 0.04723 | | 0.05 | 0 | 0 | 0.000042 | 0.001 | 1 | 94% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.05085 | 0.05085 | | 0.05 | 0 | 0 | 0.00027 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Iron | A | mg/L | 1.289 | 1.289 | | 1.3 | 0 | 0 | 0.00119 | 0.00119 | 5 | 99% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.05078 | 0.05078 | | 0.05 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 102% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.05079 | 0.05079 | | 0.05 | 0 | 0 | 0.000056 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 12.24 | 12.24 | | 12.5 | 0 | 0 | 0.00564 | 0.00564 | 50 | 98% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.04849 | 0.04849 | | 0.05 | 0 | 0 | 0.000095 | 0.001 | 1 | 97% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.0009672 | 0.0009672 | | 0.001 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 97% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.04994 | 0.04994 | | 0.05 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 100% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.04966 | 0.04966 | | 0.05 | 0 | 0 | 0.00063 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 11.19 | 11.19 | | 12.5 | 0 | 0 | 0.08139 | 0.08139 | 50 | 90% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.05224 | 0.05224 | | 0.05 | 0 | 0 | 0.00033 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.285 | 0.285 | | 0.2 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 143% | 90 | 110 | 0% | S |
| Silver | A | mg/L | 0.01996 | 0.01996 | | 0.02 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 100% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 12.07 | 12.07 | | 12.5 | 0 | 0 | 0.02171 | 0.02171 | 50 | 97% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.05177 | 0.05177 | | 0.05 | 0 | 0 | 0.00014 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.05198 | 0.05198 | | 0.05 | 0 | 0 | 0.000041 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.04951 | 0.04951 | | 0.05 | 0 | 0 | 0.00061 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.05399 | 0.05399 | | 0.05 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 108% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.04543 | 0.04543 | | 0.05 | 0 | 0 | 0.000094 | 0.001 | 1 | 91% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.05163 | 0.05163 | | 0.05 | 0 | 0 | 0.000052 | 0.0003 | 1 | 103% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.05 | 0.05 | | 0.05 | 0 | 0 | 0.0013 | 0.0013 | 1 | 100% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.0515 | 0.0515 | | 0.05 | 0 | 0 | 0.00273 | 0.00273 | 1 | 103% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 1.289 | 1.289 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|-------------|-------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|----|
| 14998160 | CCB | ICPMS-6020-W- | CCB | | 1/22/2022 3:16:2 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | -0.0003877 | -0.0003877 | | 0 | 0 | 0 | 0.00086 | 0.001 | 1 | 0% | | | | 0% |
| Antimony | A | mg/L | 0.0001307 | 0.0001307 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | | | | 0% |
| Arsenic | A | mg/L | -3.995E-06 | -3.995E-06 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | | | | 0% |
| Barium | A | mg/L | -3.236E-07 | -3.236E-07 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | | | | 0% |
| Beryllium | A | mg/L | -0.00004211 | -0.00004211 | | 0 | 0 | 0 | 0.00012 | 0.001 | 1 | 0% | | | | 0% |
| Boron | A | mg/L | 0.0002933 | 0.0002933 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | | | | 0% |
| Cadmium | A | mg/L | -1.066E-06 | -1.066E-06 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | | | | 0% |
| Calcium | A | mg/L | -0.0009285 | -0.0009285 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | | | | 0% |
| Cerium | A | mg/L | 3.196E-07 | 3.196E-07 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | | 0% |
| Chromium | A | mg/L | 0.00001936 | 0.00001936 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | | | | 0% |
| Cobalt | A | mg/L | -2.249E-06 | -2.249E-06 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | | | | 0% |
| Copper | A | mg/L | 0.00001792 | 0.00001792 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | | | | 0% |
| Iron | A | mg/L | 0.00007129 | 0.00007129 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | | | | 0% |
| Lanthanum | A | mg/L | -2.97E-07 | -2.97E-07 | | 0 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 0% | 0 | 0 | | 0% |
| Lead | A | mg/L | 0.00000716 | 0.00000716 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | | | | 0% |
| Magnesium | A | mg/L | -0.0004074 | -0.0004074 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | | | | 0% |
| Manganese | A | mg/L | 0.000004062 | 0.000004062 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | | | | 0% |
| Mercury | A | mg/L | 0.000004741 | 0.000004741 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | | | | 0% |
| Molybdenum | A | mg/L | 0.00002068 | 0.00002068 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | | | | 0% |
| Nickel | A | mg/L | 0.00001174 | 0.00001174 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | | | | 0% |
| Potassium | A | mg/L | -0.02766 | -0.02766 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | | | | 0% |
| Selenium | A | mg/L | 0.000005264 | 0.000005264 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | | | | 0% |
| Silicon | A | mg/L | 0.04684 | 0.04684 | | 0 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 0% | 0 | 0 | | 0% |
| Silver | A | mg/L | -2.715E-06 | -2.715E-06 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | | | | 0% |
| Sodium | A | mg/L | 0.05951 | 0.05951 | | 0 | 0 | 0 | 0.02171 | 0.02171 | 50 | 0% | | | | 0% |
| Strontium | A | mg/L | -0.00001419 | -0.00001419 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Thallium | A | mg/L | 0.00007813 | 0.00007813 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Thorium | A | mg/L | 0.00001227 | 0.00001227 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Tin | A | mg/L | 0.00004221 | 0.00004221 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | | 0% |
| Titanium | A | mg/L | 0.00001471 | 0.00001471 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Uranium | A | mg/L | 0.000002383 | 0.000002383 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | | 0% |
| Vanadium | A | mg/L | 0.001295 | 0.001295 | | 0 | 0 | 0 | 0.0013 | 0.0013 | 1 | 0% | 0 | 0 | | 0% |
| Zinc | A | mg/L | 0.00003569 | 0.00003569 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | | 0% |
| Iron, Ferrous | C | mg/L | 0.00007129 | 0.00007129 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | | 0% |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|---------|---------------|------------|---------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998161 | Cal Blk | ICPMS-6020-W- | SAMP | | 1/22/2022 3:22:3 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00086 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Calcium | B | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | L |
| Iron | B | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | L |
| Potassium | B | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | 0 | 0 | 0% | L |
| Tin | B | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0 | 0 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998162 | 0.025 ppb STD | ICPMS-6020B-C | Cal1 | | 1/22/2022 3:28:5 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|---------------|---------------|-------------|-------------|------------------|-----------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14998162 | 0.025 ppb STD | ICPMS-6020B-C | Ca11 | | 1/22/2022 3:28:5 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0001841 | 0.0001841 | | 0 | 0 | 0 | | 0.01 | | 0% | | | 0% | |
| Antimony | A | mg/L | 0.000009384 | 0.000009384 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Arsenic | A | mg/L | 0.00004059 | 0.00004059 | | 0.000025 | 0 | 0 | | 0.001 | | 162% | 80 | 120 | 0% | S |
| Barium | A | mg/L | 0.00002539 | 0.00002539 | | 0.000025 | 0 | 0 | | 0.0003 | | 102% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | 0.00001622 | 0.00001622 | | 0.000025 | 0 | 0 | | 0.001 | | 65% | 80 | 120 | 0% | S |
| Boron | A | mg/L | -0.00007993 | -0.00007993 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Cadmium | A | mg/L | 0.00002117 | 0.00002117 | | 0.000025 | 0 | 0 | | 0.001 | | 85% | 80 | 120 | 0% | |
| Calcium | A | mg/L | 0.007505 | 0.007505 | | 0 | 0 | 0 | | 1 | | 0% | | | 0% | |
| Cerium | A | mg/L | 0.00003176 | 0.00003176 | | 0.000025 | 0 | 0 | | 0.001 | | 127% | 80 | 120 | 0% | S |
| Chromium | A | mg/L | 0.00003016 | 0.00003016 | | 0.000025 | 0 | 0 | | 0.001 | | 121% | 80 | 120 | 0% | S |
| Cobalt | A | mg/L | 0.00002416 | 0.00002416 | | 0.000025 | 0 | 0 | | 0.001 | | 97% | 80 | 120 | 0% | |
| Copper | A | mg/L | 0.00004383 | 0.00004383 | | 0 | 0 | 0 | | 0.005 | | 0% | | | 0% | |
| Iron | A | mg/L | 0.0008207 | 0.0008207 | | 0 | 0 | 0 | | 0.01 | | 0% | | | 0% | |
| Lanthanum | A | mg/L | 0.00002277 | 0.00002277 | | 0.000025 | 0 | 0 | | 0.001 | | 91% | 80 | 120 | 0% | |
| Lead | A | mg/L | 0.00002269 | 0.00002269 | | 0.000025 | 0 | 0 | | 0.001 | | 91% | 80 | 120 | 0% | |
| Lithium | A | mg/L | 0.0001878 | 0.0001878 | | 0.0003125 | 0 | 0 | | 1 | | 60% | 80 | 120 | 0% | S |
| Magnesium | A | mg/L | 0.007258 | 0.007258 | | 0 | 0 | 0 | | 1 | | 0% | | | 0% | |
| Manganese | A | mg/L | 0.00002878 | 0.00002878 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Mercury | A | mg/L | 9.381E-07 | 9.381E-07 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Molybdenum | A | mg/L | -0.00003204 | -0.00003204 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Nickel | A | mg/L | 0.00004404 | 0.00004404 | | 0 | 0 | 0 | | 0.005 | | 0% | | | 0% | |
| Potassium | A | mg/L | 0.007833 | 0.007833 | | 0.00625 | 0 | 0 | | 1 | | 125% | 80 | 120 | 0% | S |
| Selenium | A | mg/L | 0.00002211 | 0.00002211 | | 0.000025 | 0 | 0 | | 0.005 | | 88% | 80 | 120 | 0% | |
| Silicon | A | mg/L | -0.004791 | -0.004791 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Silver | A | mg/L | 0.00001468 | 0.00001468 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Sodium | A | mg/L | -0.0002355 | -0.0002355 | | 0.00625 | 0 | 0 | | 1 | | -4% | 80 | 120 | 0% | S |
| Strontium | A | mg/L | 0.00002935 | 0.00002935 | | 0 | 0 | 0 | | 0.001 | | 0% | 80 | 120 | 0% | |
| Thallium | A | mg/L | 0.000003315 | 0.000003315 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Thorium | A | mg/L | 0.00001431 | 0.00001431 | | 0 | 0 | 0 | | 0.05 | | 0% | | | 0% | |
| Tin | A | mg/L | 0.00006705 | 0.00006705 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Titanium | A | mg/L | 0.00004574 | 0.00004574 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Uranium | A | mg/L | 0.00002373 | 0.00002373 | | 0.000025 | 0 | 0 | | 0.001 | | 95% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.0003297 | 0.0003297 | | 0 | 0 | 0 | | 0.005 | | 0% | | | 0% | |
| Zinc | A | mg/L | 0.00000978 | 0.00000978 | | 0 | 0 | 0 | | 0.01 | | 0% | | | 0% | |
| Iron, Ferrous | C | mg/L | 0.0008207 | 0.0008207 | | 0.000025 | 0 | 0 | | 0.01 | 5 | 3283% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|---------------|---------------|-------------|-------------|------------------|-----------|----------|-----------|--------|--------|--------|---------|-----|------|------|---|
| 14998162 | 0.025 ppb STD | ICPMS-6020B-C | Cal1 | | 1/22/2022 3:28:5 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Silicon as SiO2 | C | mg/L | -0.01025274 | -0.01025274 | | 0.0000535 | 0 | 0 | | 0.214 | 0.9 | -19164% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|--------------|---------------|-------------|-------------|------------------|----------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998163 | 0.05 ppb STD | ICPMS-6020B-C | Cal2 | | 1/22/2022 3:35:1 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0001465 | 0.0001465 | | 0 | 0 | 0 | | 0.01 | | 0% | | | 0% | |
| Antimony | A | mg/L | 0.00003174 | 0.00003174 | | 0.00005 | 0 | 0 | | 0.001 | | 63% | 80 | 120 | 0% | S |
| Arsenic | A | mg/L | 0.00007904 | 0.00007904 | | 0.00005 | 0 | 0 | | 0.001 | | 158% | 80 | 120 | 0% | S |
| Barium | A | mg/L | 0.00006552 | 0.00006552 | | 0.00005 | 0 | 0 | | 0.0003 | | 131% | 80 | 120 | 0% | S |
| Beryllium | A | mg/L | 0.00005059 | 0.00005059 | | 0.00005 | 0 | 0 | | 0.001 | | 101% | 80 | 120 | 0% | |
| Boron | A | mg/L | -0.0002185 | -0.0002185 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Cadmium | A | mg/L | 0.00005655 | 0.00005655 | | 0.00005 | 0 | 0 | | 0.001 | | 113% | 80 | 120 | 0% | |
| Calcium | A | mg/L | 0.0149 | 0.0149 | | 0.0125 | 0 | 0 | | 1 | | 119% | 80 | 120 | 0% | |
| Cerium | A | mg/L | 0.00006061 | 0.00006061 | | 0.00005 | 0 | 0 | | 0.001 | | 121% | 80 | 120 | 0% | S |
| Chromium | A | mg/L | 0.0000794 | 0.0000794 | | 0.00005 | 0 | 0 | | 0.001 | | 159% | 80 | 120 | 0% | S |
| Cobalt | A | mg/L | 0.00007018 | 0.00007018 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Copper | A | mg/L | 0.00005996 | 0.00005996 | | 0.00005 | 0 | 0 | | 0.005 | | 120% | 80 | 120 | 0% | |
| Iron | A | mg/L | 0.001627 | 0.001627 | | 0.00125 | 0 | 0 | | 0.01 | | 130% | 80 | 120 | 0% | S |
| Lanthanum | A | mg/L | 0.0000564 | 0.0000564 | | 0.00005 | 0 | 0 | | 0.001 | | 113% | 80 | 120 | 0% | |
| Lead | A | mg/L | 0.00005444 | 0.00005444 | | 0.00005 | 0 | 0 | | 0.001 | | 109% | 80 | 120 | 0% | |
| Lithium | A | mg/L | 0.0004559 | 0.0004559 | | 0.000625 | 0 | 0 | | 1 | | 73% | 80 | 120 | 0% | S |
| Magnesium | A | mg/L | 0.01551 | 0.01551 | | 0.0125 | 0 | 0 | | 1 | | 124% | 80 | 120 | 0% | S |
| Manganese | A | mg/L | 0.00006436 | 0.00006436 | | 0.00005 | 0 | 0 | | 0.001 | | 129% | 80 | 120 | 0% | S |
| Mercury | A | mg/L | 4.444E-07 | 4.444E-07 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Molybdenum | A | mg/L | -2.56E-07 | -2.56E-07 | | 0.00005 | 0 | 0 | | 0.001 | | -1% | 80 | 120 | 0% | S |
| Nickel | A | mg/L | 0.00008465 | 0.00008465 | | 0 | 0 | 0 | | 0.005 | | 0% | | | 0% | |
| Potassium | A | mg/L | 0.02065 | 0.02065 | | 0.0125 | 0 | 0 | | 1 | | 165% | 80 | 120 | 0% | S |
| Selenium | A | mg/L | 0.00005977 | 0.00005977 | | 0.00005 | 0 | 0 | | 0.005 | | 120% | 80 | 120 | 0% | |
| Silicon | A | mg/L | -0.009339 | -0.009339 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Silver | A | mg/L | 0.00003017 | 0.00003017 | | 0.00002 | 0 | 0 | | 0.001 | | 151% | 80 | 120 | 0% | S |
| Sodium | A | mg/L | -0.00008281 | -0.00008281 | | 0.0125 | 0 | 0 | | 1 | | -1% | 80 | 120 | 0% | S |
| Strontium | A | mg/L | 0.00006731 | 0.00006731 | | 0.00005 | 0 | 0 | | 0.001 | | 135% | 80 | 120 | 0% | S |
| Thallium | A | mg/L | 0.00003015 | 0.00003015 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Thorium | A | mg/L | 0.00003743 | 0.00003743 | | 0 | 0 | 0 | | 0.05 | | 0% | | | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|--------------|---------------|-------------|-------------|------------------|---------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14998163 | 0.05 ppb STD | ICPMS-6020B-C | Cal2 | | 1/22/2022 3:35:1 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Tin | A | mg/L | 0.00006259 | 0.00006259 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Titanium | A | mg/L | 0.00007592 | 0.00007592 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Uranium | A | mg/L | 0.00005722 | 0.00005722 | | 0.00005 | 0 | 0 | | 0.001 | | 114% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.0005074 | 0.0005074 | | 0 | 0 | 0 | | 0.005 | | 0% | | | 0% | |
| Zinc | A | mg/L | 0.00001647 | 0.00001647 | | 0 | 0 | 0 | | 0.01 | | 0% | | | 0% | |
| Iron, Ferrous | C | mg/L | 0.001627 | 0.001627 | | 0.00005 | 0 | 0 | | 0.01 | 5 | 3254% | 80 | 120 | 0% | S |
| Silicon as SiO2 | C | mg/L | -0.01998546 | -0.01998546 | | 0.00428 | 0 | 0 | | 0.214 | 0.9 | -467% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|--------------|---------------|------------|------------|------------------|----------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998164 | 0.10 ppb STD | ICPMS-6020B-C | Cal3 | | 1/22/2022 3:41:3 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0002222 | 0.0002222 | | 0.0001 | 0 | 0 | | 0.01 | | 222% | 80 | 120 | 0% | S |
| Antimony | A | mg/L | 0.00007376 | 0.00007376 | | 0.0001 | 0 | 0 | | 0.001 | | 74% | 80 | 120 | 0% | S |
| Arsenic | A | mg/L | 0.0001371 | 0.0001371 | | 0.0001 | 0 | 0 | | 0.001 | | 137% | 80 | 120 | 0% | S |
| Barium | A | mg/L | 0.0001067 | 0.0001067 | | 0.0001 | 0 | 0 | | 0.0003 | | 107% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | 0.00009699 | 0.00009699 | | 0.0001 | 0 | 0 | | 0.001 | | 97% | 80 | 120 | 0% | |
| Boron | A | mg/L | -0.0002156 | -0.0002156 | | 0 | 0 | 0 | | 0.1 | | 0% | | | 0% | |
| Cadmium | A | mg/L | 0.0001077 | 0.0001077 | | 0.0001 | 0 | 0 | | 0.001 | | 108% | 80 | 120 | 0% | |
| Calcium | A | mg/L | 0.02722 | 0.02722 | | 0.025 | 0 | 0 | | 1 | | 109% | 80 | 120 | 0% | |
| Cerium | A | mg/L | 0.0001075 | 0.0001075 | | 0.0001 | 0 | 0 | | 0.001 | | 107% | 80 | 120 | 0% | |
| Chromium | A | mg/L | 0.0001171 | 0.0001171 | | 0.0001 | 0 | 0 | | 0.001 | | 117% | 80 | 120 | 0% | |
| Cobalt | A | mg/L | 0.0001117 | 0.0001117 | | 0.0001 | 0 | 0 | | 0.001 | | 112% | 80 | 120 | 0% | |
| Copper | A | mg/L | 0.0001117 | 0.0001117 | | 0.0001 | 0 | 0 | | 0.005 | | 112% | 80 | 120 | 0% | |
| Iron | A | mg/L | 0.002885 | 0.002885 | | 0.0025 | 0 | 0 | | 0.01 | | 115% | 80 | 120 | 0% | |
| Lanthanum | A | mg/L | 0.0001068 | 0.0001068 | | 0.0001 | 0 | 0 | | 0.001 | | 107% | 80 | 120 | 0% | |
| Lead | A | mg/L | 0.0001008 | 0.0001008 | | 0.0001 | 0 | 0 | | 0.001 | | 101% | 80 | 120 | 0% | |
| Lithium | A | mg/L | 0.00109 | 0.00109 | | 0.00125 | 0 | 0 | | 1 | | 87% | 80 | 120 | 0% | |
| Magnesium | A | mg/L | 0.02981 | 0.02981 | | 0.025 | 0 | 0 | | 1 | | 119% | 80 | 120 | 0% | |
| Manganese | A | mg/L | 0.0001229 | 0.0001229 | | 0.0001 | 0 | 0 | | 0.001 | | 123% | 80 | 120 | 0% | S |
| Mercury | A | mg/L | 3.431E-07 | 3.431E-07 | | 0.000002 | 0 | 0 | | 0.001 | | 17% | 80 | 120 | 0% | S |
| Molybdenum | A | mg/L | 0.00003994 | 0.00003994 | | 0.0001 | 0 | 0 | | 0.001 | | 40% | 80 | 120 | 0% | S |
| Nickel | A | mg/L | 0.000131 | 0.000131 | | 0.0001 | 0 | 0 | | 0.005 | | 131% | 80 | 120 | 0% | S |
| Potassium | A | mg/L | 0.03124 | 0.03124 | | 0.025 | 0 | 0 | | 1 | | 125% | 80 | 120 | 0% | S |
| Selenium | A | mg/L | 0.0001166 | 0.0001166 | | 0.0001 | 0 | 0 | | 0.005 | | 117% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|--------------|---------------|------------|------------|------------------|---------|----------|-----------|--------|--------|--------|--------|-----|------|------|---|
| 14998164 | 0.10 ppb STD | ICPMS-6020B-C | Cal3 | | 1/22/2022 3:41:3 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Silicon | A | mg/L | -0.01253 | -0.01253 | | 0.0004 | 0 | 0 | | 0.1 | | -3132% | 80 | 120 | 0% | S |
| Silver | A | mg/L | 0.00005162 | 0.00005162 | | 0.00004 | 0 | 0 | | 0.001 | | 129% | 80 | 120 | 0% | S |
| Sodium | A | mg/L | 0.007658 | 0.007658 | | 0.025 | 0 | 0 | | 1 | | 31% | 80 | 120 | 0% | S |
| Strontium | A | mg/L | 0.0001184 | 0.0001184 | | 0.0001 | 0 | 0 | | 0.001 | | 118% | 80 | 120 | 0% | |
| Thallium | A | mg/L | 0.00006932 | 0.00006932 | | 0.0001 | 0 | 0 | | 0.001 | | 69% | 80 | 120 | 0% | S |
| Thorium | A | mg/L | 0.00007503 | 0.00007503 | | 0.0001 | 0 | 0 | | 0.05 | | 75% | 80 | 120 | 0% | S |
| Tin | A | mg/L | 0.0001133 | 0.0001133 | | 0.0001 | 0 | 0 | | 0.001 | | 113% | 80 | 120 | 0% | |
| Titanium | A | mg/L | 0.0001187 | 0.0001187 | | 0.0001 | 0 | 0 | | 0.001 | | 119% | 80 | 120 | 0% | |
| Uranium | A | mg/L | 0.0001033 | 0.0001033 | | 0.0001 | 0 | 0 | | 0.001 | | 103% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.0005062 | 0.0005062 | | 0.0001 | 0 | 0 | | 0.005 | | 506% | 80 | 120 | 0% | S |
| Zinc | A | mg/L | 0.00007219 | 0.00007219 | | 0.0001 | 0 | 0 | | 0.01 | | 72% | 80 | 120 | 0% | S |
| Iron, Ferrous | C | mg/L | 0.002885 | 0.002885 | | 0.0001 | 0 | 0 | | 0.01 | 5 | 2885% | 80 | 120 | 0% | S |
| Silicon as SiO2 | C | mg/L | -0.0268142 | -0.0268142 | | 0.00856 | 0 | 0 | | 0.214 | 0.9 | -313% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|-------------|---------------|------------|-----------|------------------|---------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998165 | 0.5 ppb STD | ICPMS-6020B-C | Cal4 | | 1/22/2022 3:48:0 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0006952 | 0.0006952 | | 0.0005 | 0 | 0 | | 0.01 | | 139% | 80 | 120 | 0% | S |
| Antimony | A | mg/L | 0.0004443 | 0.0004443 | | 0.0005 | 0 | 0 | | 0.001 | | 89% | 80 | 120 | 0% | |
| Arsenic | A | mg/L | 0.0005175 | 0.0005175 | | 0.0005 | 0 | 0 | | 0.001 | | 103% | 80 | 120 | 0% | |
| Barium | A | mg/L | 0.0004695 | 0.0004695 | | 0.0005 | 0 | 0 | | 0.0003 | | 94% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | 0.0004801 | 0.0004801 | | 0.0005 | 0 | 0 | | 0.001 | | 96% | 80 | 120 | 0% | |
| Boron | A | mg/L | 0.0000787 | 0.0000787 | | 0.0005 | 0 | 0 | | 0.1 | | 16% | 80 | 120 | 0% | S |
| Cadmium | A | mg/L | 0.0004824 | 0.0004824 | | 0.0005 | 0 | 0 | | 0.001 | | 96% | 80 | 120 | 0% | |
| Calcium | A | mg/L | 0.1264 | 0.1264 | | 0.125 | 0 | 0 | | 1 | | 101% | 80 | 120 | 0% | |
| Cerium | A | mg/L | 0.0005022 | 0.0005022 | | 0.0005 | 0 | 0 | | 0.001 | | 100% | 80 | 120 | 0% | |
| Chromium | A | mg/L | 0.0005223 | 0.0005223 | | 0.0005 | 0 | 0 | | 0.001 | | 104% | 80 | 120 | 0% | |
| Cobalt | A | mg/L | 0.0005105 | 0.0005105 | | 0.0005 | 0 | 0 | | 0.001 | | 102% | 80 | 120 | 0% | |
| Copper | A | mg/L | 0.0006682 | 0.0006682 | | 0.0005 | 0 | 0 | | 0.005 | | 134% | 80 | 120 | 0% | S |
| Iron | A | mg/L | 0.01339 | 0.01339 | | 0.0125 | 0 | 0 | | 0.01 | | 107% | 80 | 120 | 0% | |
| Lanthanum | A | mg/L | 0.0005043 | 0.0005043 | | 0.0005 | 0 | 0 | | 0.001 | | 101% | 80 | 120 | 0% | |
| Lead | A | mg/L | 0.0004769 | 0.0004769 | | 0.0005 | 0 | 0 | | 0.001 | | 95% | 80 | 120 | 0% | |
| Lithium | A | mg/L | 0.005721 | 0.005721 | | 0.00625 | 0 | 0 | | 1 | | 92% | 80 | 120 | 0% | |
| Magnesium | A | mg/L | 0.1311 | 0.1311 | | 0.125 | 0 | 0 | | 1 | | 105% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|-------------|---------------|------------|------------|------------------|---------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14998165 | 0.5 ppb STD | ICPMS-6020B-C | CaI4 | | 1/22/2022 3:48:0 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Manganese | A | mg/L | 0.0005236 | 0.0005236 | | 0.0005 | 0 | 0 | | 0.001 | | 105% | 80 | 120 | 0% | |
| Mercury | A | mg/L | 0.00001056 | 0.00001056 | | 0.00001 | 0 | 0 | | 0.001 | | 106% | 80 | 120 | 0% | |
| Molybdenum | A | mg/L | 0.0004162 | 0.0004162 | | 0.0005 | 0 | 0 | | 0.001 | | 83% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.0007181 | 0.0007181 | | 0.0005 | 0 | 0 | | 0.005 | | 144% | 80 | 120 | 0% | S |
| Potassium | A | mg/L | 0.1185 | 0.1185 | | 0.125 | 0 | 0 | | 1 | | 95% | 80 | 120 | 0% | |
| Selenium | A | mg/L | 0.0005307 | 0.0005307 | | 0.0005 | 0 | 0 | | 0.005 | | 106% | 80 | 120 | 0% | |
| Silicon | A | mg/L | -0.01367 | -0.01367 | | 0.002 | 0 | 0 | | 0.1 | | -683% | 80 | 120 | 0% | S |
| Silver | A | mg/L | 0.0002068 | 0.0002068 | | 0.0002 | 0 | 0 | | 0.001 | | 103% | 80 | 120 | 0% | |
| Sodium | A | mg/L | 0.1125 | 0.1125 | | 0.125 | 0 | 0 | | 1 | | 90% | 80 | 120 | 0% | |
| Strontium | A | mg/L | 0.0005231 | 0.0005231 | | 0.0005 | 0 | 0 | | 0.001 | | 105% | 80 | 120 | 0% | |
| Thallium | A | mg/L | 0.0004507 | 0.0004507 | | 0.0005 | 0 | 0 | | 0.001 | | 90% | 80 | 120 | 0% | |
| Thorium | A | mg/L | 0.0004203 | 0.0004203 | | 0.0005 | 0 | 0 | | 0.05 | | 84% | 80 | 120 | 0% | |
| Tin | A | mg/L | 0.0005304 | 0.0005304 | | 0.0005 | 0 | 0 | | 0.001 | | 106% | 80 | 120 | 0% | |
| Titanium | A | mg/L | 0.0005124 | 0.0005124 | | 0.0005 | 0 | 0 | | 0.001 | | 102% | 80 | 120 | 0% | |
| Uranium | A | mg/L | 0.0004915 | 0.0004915 | | 0.0005 | 0 | 0 | | 0.001 | | 98% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.0003682 | 0.0003682 | | 0.0005 | 0 | 0 | | 0.005 | | 74% | 80 | 120 | 0% | S |
| Zinc | A | mg/L | 0.0006661 | 0.0006661 | | 0.0005 | 0 | 0 | | 0.01 | | 133% | 80 | 120 | 0% | S |
| Iron, Ferrous | C | mg/L | 0.01339 | 0.01339 | | 0.0005 | 0 | 0 | | 0.01 | 5 | 2678% | 80 | 120 | 0% | S |
| Silicon as SiO2 | C | mg/L | -0.0292538 | -0.0292538 | | 0.0428 | 0 | 0 | | 0.214 | 0.9 | -68% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|-----------|---------------|------------|-----------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998166 | 1 ppb STD | ICPMS-6020B-C | CaI5 | | 1/22/2022 3:54:2 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.00113 | 0.00113 | | 0.001 | 0 | 0 | | 0.01 | | 113% | 80 | 120 | 0% | |
| Antimony | A | mg/L | 0.0009731 | 0.0009731 | | 0.001 | 0 | 0 | | 0.001 | | 97% | 80 | 120 | 0% | |
| Arsenic | A | mg/L | 0.001105 | 0.001105 | | 0.001 | 0 | 0 | | 0.001 | | 110% | 80 | 120 | 0% | |
| Barium | A | mg/L | 0.001048 | 0.001048 | | 0.001 | 0 | 0 | | 0.0003 | | 105% | 80 | 120 | 0% | |
| Beryllium | A | mg/L | 0.001006 | 0.001006 | | 0.001 | 0 | 0 | | 0.001 | | 101% | 80 | 120 | 0% | |
| Boron | A | mg/L | 0.0004329 | 0.0004329 | | 0.001 | 0 | 0 | | 0.1 | | 43% | 80 | 120 | 0% | S |
| Cadmium | A | mg/L | 0.001044 | 0.001044 | | 0.001 | 0 | 0 | | 0.001 | | 104% | 80 | 120 | 0% | |
| Calcium | A | mg/L | 0.2716 | 0.2716 | | 0.25 | 0 | 0 | | 1 | | 109% | 80 | 120 | 0% | |
| Cerium | A | mg/L | 0.001026 | 0.001026 | | 0.001 | 0 | 0 | | 0.001 | | 103% | 80 | 120 | 0% | |
| Chromium | A | mg/L | 0.001137 | 0.001137 | | 0.001 | 0 | 0 | | 0.001 | | 114% | 80 | 120 | 0% | |
| Cobalt | A | mg/L | 0.001074 | 0.001074 | | 0.001 | 0 | 0 | | 0.001 | | 107% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|-----------|---------------|------------|------------|------------------|---------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14998166 | 1 ppb STD | ICPMS-6020B-C | Cal5 | | 1/22/2022 3:54:2 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Copper | A | mg/L | 0.001136 | 0.001136 | | 0.001 | 0 | 0 | | 0.005 | | 114% | 80 | 120 | 0% | |
| Iron | A | mg/L | 0.02792 | 0.02792 | | 0.025 | 0 | 0 | | 0.01 | | 112% | 80 | 120 | 0% | |
| Lanthanum | A | mg/L | 0.001039 | 0.001039 | | 0.001 | 0 | 0 | | 0.001 | | 104% | 80 | 120 | 0% | |
| Lead | A | mg/L | 0.001017 | 0.001017 | | 0.001 | 0 | 0 | | 0.001 | | 102% | 80 | 120 | 0% | |
| Lithium | A | mg/L | 0.01235 | 0.01235 | | 0.0125 | 0 | 0 | | 1 | | 99% | 80 | 120 | 0% | |
| Magnesium | A | mg/L | 0.2878 | 0.2878 | | 0.25 | 0 | 0 | | 1 | | 115% | 80 | 120 | 0% | |
| Manganese | A | mg/L | 0.001095 | 0.001095 | | 0.001 | 0 | 0 | | 0.001 | | 109% | 80 | 120 | 0% | |
| Mercury | A | mg/L | 0.00002056 | 0.00002056 | | 0.00002 | 0 | 0 | | 0.001 | | 103% | 80 | 120 | 0% | |
| Molybdenum | A | mg/L | 0.0009303 | 0.0009303 | | 0.001 | 0 | 0 | | 0.001 | | 93% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.001158 | 0.001158 | | 0.001 | 0 | 0 | | 0.005 | | 116% | 80 | 120 | 0% | |
| Potassium | A | mg/L | 0.2671 | 0.2671 | | 0.25 | 0 | 0 | | 1 | | 107% | 80 | 120 | 0% | |
| Selenium | A | mg/L | 0.001098 | 0.001098 | | 0.001 | 0 | 0 | | 0.005 | | 110% | 80 | 120 | 0% | |
| Silicon | A | mg/L | -0.01405 | -0.01405 | | 0.004 | 0 | 0 | | 0.1 | | -351% | 80 | 120 | 0% | S |
| Silver | A | mg/L | 0.000431 | 0.000431 | | 0.0004 | 0 | 0 | | 0.001 | | 108% | 80 | 120 | 0% | |
| Sodium | A | mg/L | 0.2581 | 0.2581 | | 0.25 | 0 | 0 | | 1 | | 103% | 80 | 120 | 0% | |
| Strontium | A | mg/L | 0.001073 | 0.001073 | | 0.001 | 0 | 0 | | 0.001 | | 107% | 80 | 120 | 0% | |
| Thallium | A | mg/L | 0.0009611 | 0.0009611 | | 0.001 | 0 | 0 | | 0.001 | | 96% | 80 | 120 | 0% | |
| Thorium | A | mg/L | 0.0009289 | 0.0009289 | | 0.001 | 0 | 0 | | 0.05 | | 93% | 80 | 120 | 0% | |
| Tin | A | mg/L | 0.0009932 | 0.0009932 | | 0.001 | 0 | 0 | | 0.001 | | 99% | 80 | 120 | 0% | |
| Titanium | A | mg/L | 0.001002 | 0.001002 | | 0.001 | 0 | 0 | | 0.001 | | 100% | 80 | 120 | 0% | |
| Uranium | A | mg/L | 0.001026 | 0.001026 | | 0.001 | 0 | 0 | | 0.001 | | 103% | 80 | 120 | 0% | |
| Vanadium | A | mg/L | 0.001287 | 0.001287 | | 0.001 | 0 | 0 | | 0.005 | | 129% | 80 | 120 | 0% | S |
| Zinc | A | mg/L | 0.001076 | 0.001076 | | 0.001 | 0 | 0 | | 0.01 | | 108% | 80 | 120 | 0% | |
| Iron, Ferrous | C | mg/L | 0.02792 | 0.02792 | | 0.001 | 0 | 0 | | 0.01 | 5 | 2792% | 80 | 120 | 0% | S |
| Silicon as SiO2 | C | mg/L | -0.030067 | -0.030067 | | 0.0856 | 0 | 0 | | 0.214 | 0.9 | -35% | 80 | 120 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|------------|---------------|------------|----------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998167 | 10 ppb STD | ICPMS-6020B-C | Cal6 | | 1/22/2022 4:00:4 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.01002 | 0.01002 | | 0.01 | 0 | 0 | | 0.01 | | 100% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.009633 | 0.009633 | | 0.01 | 0 | 0 | | 0.001 | | 96% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.0102 | 0.0102 | | 0.01 | 0 | 0 | | 0.001 | | 102% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.00982 | 0.00982 | | 0.01 | 0 | 0 | | 0.0003 | | 98% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.01011 | 0.01011 | | 0.01 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|------------|---------------|------------|-----------|------------------|--------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14998167 | 10 ppb STD | ICPMS-6020B-C | Cal6 | | 1/22/2022 4:00:4 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Boron | A | mg/L | 0.00943 | 0.00943 | | 0.01 | 0 | 0 | | 0.1 | | 94% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.009925 | 0.009925 | | 0.01 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 2.426 | 2.426 | | 2.5 | 0 | 0 | | 1 | | 97% | 90 | 110 | 0% | |
| Cerium | A | mg/L | 0.009811 | 0.009811 | | 0.01 | 0 | 0 | | 0.001 | | 98% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.01042 | 0.01042 | | 0.01 | 0 | 0 | | 0.001 | | 104% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.009957 | 0.009957 | | 0.01 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.01085 | 0.01085 | | 0.01 | 0 | 0 | | 0.005 | | 108% | 90 | 110 | 0% | |
| Iron | A | mg/L | 0.2632 | 0.2632 | | 0.25 | 0 | 0 | | 0.01 | | 105% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.009863 | 0.009863 | | 0.01 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.009676 | 0.009676 | | 0.01 | 0 | 0 | | 0.001 | | 97% | 90 | 110 | 0% | |
| Lithium | A | mg/L | 0.12 | 0.12 | | 0.125 | 0 | 0 | | 1 | | 96% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 2.733 | 2.733 | | 2.5 | 0 | 0 | | 1 | | 109% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.0103 | 0.0103 | | 0.01 | 0 | 0 | | 0.001 | | 103% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.0001841 | 0.0001841 | | 0.0002 | 0 | 0 | | 0.001 | | 92% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.009523 | 0.009523 | | 0.01 | 0 | 0 | | 0.001 | | 95% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.01086 | 0.01086 | | 0.01 | 0 | 0 | | 0.005 | | 109% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 2.443 | 2.443 | | 2.5 | 0 | 0 | | 1 | | 98% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.01021 | 0.01021 | | 0.01 | 0 | 0 | | 0.005 | | 102% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.02723 | 0.02723 | | 0.04 | 0 | 0 | | 0.1 | | 68% | 90 | 110 | 0% | S |
| Silver | A | mg/L | 0.004 | 0.004 | | 0.004 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 2.74 | 2.74 | | 2.5 | 0 | 0 | | 1 | | 110% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.01006 | 0.01006 | | 0.01 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.009848 | 0.009848 | | 0.01 | 0 | 0 | | 0.001 | | 98% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.009574 | 0.009574 | | 0.01 | 0 | 0 | | 0.05 | | 96% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.009559 | 0.009559 | | 0.01 | 0 | 0 | | 0.001 | | 96% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.009987 | 0.009987 | | 0.01 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.009873 | 0.009873 | | 0.01 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.009864 | 0.009864 | | 0.01 | 0 | 0 | | 0.005 | | 99% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.01058 | 0.01058 | | 0.01 | 0 | 0 | | 0.01 | | 106% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 0.2632 | 0.2632 | | 0.01 | 0 | 0 | | 0.01 | 5 | 2632% | 90 | 110 | 0% | S |
| Silicon as SiO2 | C | mg/L | 0.0582722 | 0.0582722 | | 0.856 | 0 | 0 | | 0.214 | 0.9 | 7% | 90 | 110 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|------------|--------------------|------------|-----------|------------------|-------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14998168 | 50 ppb STD | ICPMS-6020B-C Cal7 | | | 1/22/2022 4:07:0 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.06195 | 0.06195 | | 0.05 | 0 | 0 | | 0.01 | | 124% | 90 | 110 | 0% | S |
| Antimony | A | mg/L | 0.05242 | 0.05242 | | 0.05 | 0 | 0 | | 0.001 | | 105% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.05116 | 0.05116 | | 0.05 | 0 | 0 | | 0.001 | | 102% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.05015 | 0.05015 | | 0.05 | 0 | 0 | | 0.0003 | | 100% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.05051 | 0.05051 | | 0.05 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Boron | A | mg/L | 0.05042 | 0.05042 | | 0.05 | 0 | 0 | | 0.1 | | 101% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.0506 | 0.0506 | | 0.05 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 11.84 | 11.84 | | 12.5 | 0 | 0 | | 1 | | 95% | 90 | 110 | 0% | |
| Cerium | A | mg/L | 0.04998 | 0.04998 | | 0.05 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.05082 | 0.05082 | | 0.05 | 0 | 0 | | 0.001 | | 102% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.05023 | 0.05023 | | 0.05 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.05311 | 0.05311 | | 0.05 | 0 | 0 | | 0.005 | | 106% | 90 | 110 | 0% | |
| Iron | A | mg/L | 1.261 | 1.261 | | 1.25 | 0 | 0 | | 0.01 | | 101% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.05001 | 0.05001 | | 0.05 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.05029 | 0.05029 | | 0.05 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Lithium | A | mg/L | 0.5749 | 0.5749 | | 0.625 | 0 | 0 | | 1 | | 92% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 12.58 | 12.58 | | 12.5 | 0 | 0 | | 1 | | 101% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.05116 | 0.05116 | | 0.05 | 0 | 0 | | 0.001 | | 102% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.0009839 | 0.0009839 | | 0.001 | 0 | 0 | | 0.001 | | 98% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.05143 | 0.05143 | | 0.05 | 0 | 0 | | 0.001 | | 103% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.05246 | 0.05246 | | 0.05 | 0 | 0 | | 0.005 | | 105% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 11.87 | 11.87 | | 12.5 | 0 | 0 | | 1 | | 95% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.05198 | 0.05198 | | 0.05 | 0 | 0 | | 0.005 | | 104% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.2109 | 0.2109 | | 0.2 | 0 | 0 | | 0.1 | | 105% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.01995 | 0.01995 | | 0.02 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 12.75 | 12.75 | | 12.5 | 0 | 0 | | 1 | | 102% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.05011 | 0.05011 | | 0.05 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.05069 | 0.05069 | | 0.05 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.05035 | 0.05035 | | 0.05 | 0 | 0 | | 0.05 | | 101% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.0523 | 0.0523 | | 0.05 | 0 | 0 | | 0.001 | | 105% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.05158 | 0.05158 | | 0.05 | 0 | 0 | | 0.001 | | 103% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.05132 | 0.05132 | | 0.05 | 0 | 0 | | 0.001 | | 103% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.04778 | 0.04778 | | 0.05 | 0 | 0 | | 0.005 | | 96% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.05544 | 0.05544 | | 0.05 | 0 | 0 | | 0.01 | | 111% | 90 | 110 | 0% | S |
| Iron, Ferrous | C | mg/L | 1.261 | 1.261 | | 0.05 | 0 | 0 | | 0.01 | 5 | 2522% | 90 | 110 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|------------|--------------------|------------|----------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998168 | 50 ppb STD | ICPMS-6020B-C Cal7 | | | 1/22/2022 4:07:0 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Silicon as SiO2 | C | mg/L | 0.451326 | 0.451326 | | 4.28 | 0 | 0 | | 0.214 | 0.9 | 11% | 90 | 110 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|-------------|--------------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998169 | 100 ppb STD | ICPMS-6020B-C Cal8 | | | 1/22/2022 4:13:2 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.1022 | 0.1022 | | 0.1 | 0 | 0 | | 0.01 | | 102% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.09883 | 0.09883 | | 0.1 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.1015 | 0.1015 | | 0.1 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.1003 | 0.1003 | | 0.1 | 0 | 0 | | 0.0003 | | 100% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.1007 | 0.1007 | | 0.1 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Boron | A | mg/L | 0.09786 | 0.09786 | | 0.1 | 0 | 0 | | 0.1 | | 98% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.1003 | 0.1003 | | 0.1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 23.89 | 23.89 | | 25 | 0 | 0 | | 1 | | 96% | 90 | 110 | 0% | |
| Cerium | A | mg/L | 0.1 | 0.1 | | 0.1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.09897 | 0.09897 | | 0.1 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.09787 | 0.09787 | | 0.1 | 0 | 0 | | 0.001 | | 98% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.1015 | 0.1015 | | 0.1 | 0 | 0 | | 0.005 | | 101% | 90 | 110 | 0% | |
| Iron | A | mg/L | 2.569 | 2.569 | | 2.5 | 0 | 0 | | 0.01 | | 103% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.1 | 0.1 | | 0.1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.09948 | 0.09948 | | 0.1 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Lithium | A | mg/L | 1.199 | 1.199 | | 1.25 | 0 | 0 | | 1 | | 96% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 25.39 | 25.39 | | 25 | 0 | 0 | | 1 | | 102% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.1013 | 0.1013 | | 0.1 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.00201 | 0.00201 | | 0.002 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.09934 | 0.09934 | | 0.1 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.1017 | 0.1017 | | 0.1 | 0 | 0 | | 0.005 | | 102% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 24.07 | 24.07 | | 25 | 0 | 0 | | 1 | | 96% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.1031 | 0.1031 | | 0.1 | 0 | 0 | | 0.005 | | 103% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.3961 | 0.3961 | | 0.4 | 0 | 0 | | 0.1 | | 99% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.04003 | 0.04003 | | 0.04 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 25.01 | 25.01 | | 25 | 0 | 0 | | 1 | | 100% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.1002 | 0.1002 | | 0.1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.1009 | 0.1009 | | 0.1 | 0 | 0 | | 0.001 | | 101% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.1004 | 0.1004 | | 0.1 | 0 | 0 | | 0.05 | | 100% | 90 | 110 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|-------------|---------------|------------|----------|------------------|-------|----------|-----------|--------|--------|--------|-------|-----|------|------|---|
| 14998169 | 100 ppb STD | ICPMS-6020B-C | Cal8 | | 1/22/2022 4:13:2 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Tin | A | mg/L | 0.0989 | 0.0989 | | 0.1 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.09921 | 0.09921 | | 0.1 | 0 | 0 | | 0.001 | | 99% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.1017 | 0.1017 | | 0.1 | 0 | 0 | | 0.001 | | 102% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.09516 | 0.09516 | | 0.1 | 0 | 0 | | 0.005 | | 95% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.1055 | 0.1055 | | 0.1 | 0 | 0 | | 0.01 | | 105% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 2.569 | 2.569 | | 0.1 | 0 | 0 | | 0.01 | 5 | 2569% | 90 | 110 | 0% | S |
| Silicon as SiO2 | C | mg/L | 0.847654 | 0.847654 | | 8.56 | 0 | 0 | | 0.214 | 0.9 | 10% | 90 | 110 | 0% | S |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|--------------|---------------|-------------|-------------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998170 | 1000 ppb STD | ICPMS-6020B-C | Cal10 | | 1/22/2022 4:19:4 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.9992 | 0.9992 | | 1 | 0 | 0 | | 0.01 | | 100% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.000269 | 0.000269 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Arsenic | A | mg/L | 0.9998 | 0.9998 | | 1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Barium | A | mg/L | 1 | 1 | | 1 | 0 | 0 | | 0.0003 | | 100% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.9999 | 0.9999 | | 1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Boron | A | mg/L | 1 | 1 | | 1 | 0 | 0 | | 0.1 | | 100% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.9999 | 0.9999 | | 1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 50.73 | 50.73 | | 50 | 0 | 0 | | 1 | | 101% | 90 | 110 | 0% | |
| Cerium | A | mg/L | 0.00002178 | 0.00002178 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Chromium | A | mg/L | 1 | 1 | | 1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 1 | 1 | | 1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.9997 | 0.9997 | | 1 | 0 | 0 | | 0.005 | | 100% | 90 | 110 | 0% | |
| Iron | A | mg/L | 6.022 | 6.022 | | 6 | 0 | 0 | | 0.01 | | 100% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.000008418 | 0.000008418 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Lead | A | mg/L | 1 | 1 | | 1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | 0% | |
| Lithium | A | mg/L | 2.538 | 2.538 | | 2.5 | 0 | 0 | | 1 | | 102% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 49.77 | 49.77 | | 50 | 0 | 0 | | 1 | | 100% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.9998 | 0.9998 | | 1 | 0 | 0 | | 0.001 | | 100% | 90 | | 0% | |
| Mercury | A | mg/L | 0.00001221 | 0.00001221 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Molybdenum | A | mg/L | 0.00003815 | 0.00003815 | | 0 | 0 | 0 | | 0.001 | | 0% | | | 0% | |
| Nickel | A | mg/L | 0.9997 | 0.9997 | | 1 | 0 | 0 | | 0.005 | | 100% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 50.63 | 50.63 | | 50 | 0 | 0 | | 1 | | 101% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.9996 | 0.9996 | | 1 | 0 | 0 | | 0.005 | | 100% | 90 | 110 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|--------------|---------------|------------|------------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|------|
| 14998170 | 1000 ppb STD | ICPMS-6020B-C | Cal10 | | 1/22/2022 4:19:4 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Silicon | A | mg/L | -0.02094 | -0.02094 | | 0 | 0 | 0 | | 0.1 | | 0% | | | | 0% |
| Silver | A | mg/L | 0.2615 | 0.2615 | | 0 | 0 | 0 | | 0.001 | | 0% | | | | 0% |
| Sodium | A | mg/L | 49.92 | 49.92 | | 50 | 0 | 0 | | 1 | | 100% | 90 | 110 | | 0% |
| Strontium | A | mg/L | 1 | 1 | | 1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | | 0% |
| Thallium | A | mg/L | 0.9999 | 0.9999 | | 1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | | 0% |
| Thorium | A | mg/L | 0.9999 | 0.9999 | | 1 | 0 | 0 | | 0.05 | | 100% | 90 | 110 | | 0% |
| Tin | A | mg/L | 0.0002164 | 0.0002164 | | 0 | 0 | 0 | | 0.001 | | 0% | | | | 0% |
| Titanium | A | mg/L | 0.005655 | 0.005655 | | 1 | 0 | 0 | | 0.001 | | 1% | 90 | 110 | | 0% S |
| Uranium | A | mg/L | 0.9998 | 0.9998 | | 1 | 0 | 0 | | 0.001 | | 100% | 90 | 110 | | 0% |
| Vanadium | A | mg/L | 1.001 | 1.001 | | 1 | 0 | 0 | | 0.005 | | 100% | 90 | 110 | | 0% |
| Zinc | A | mg/L | 0.9992 | 0.9992 | | 1 | 0 | 0 | | 0.01 | | 100% | 90 | 110 | | 0% |
| Iron, Ferrous | C | mg/L | 6.022 | 6.022 | | 0 | 0 | 0 | | 0.01 | 5 | 0% | | | | 0% |
| Silicon as SiO2 | C | mg/L | -0.0448116 | -0.0448116 | | 0 | 0 | 0 | | 0.214 | 0.9 | 0% | | | | 0% |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|----------------|---------------|-------------|------------|------------------|-------|----------|-----------|----------|--------|--------|------|-----|------|------|------|
| 14998171 | 100 ppb Br STD | ICPMS-6020-W- | SAMP | | 1/22/2022 4:26:0 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0001473 | 0 | | 0 | 0 | 0 | 0.00086 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Antimony | A | mg/L | 0.00003468 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | | 0% |
| Arsenic | A | mg/L | 0.0001123 | 0 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Barium | A | mg/L | 0.00001014 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Cadmium | A | mg/L | 0.00001722 | 0 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Cerium | A | mg/L | 1.448E-07 | 0 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | | 0% |
| Chromium | A | mg/L | 0.00002153 | 0 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Cobalt | A | mg/L | 0.00001643 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Copper | A | mg/L | 0.0001344 | 0 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Lead | A | mg/L | 0.00006519 | 0.00006519 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | | 0% J |
| Manganese | A | mg/L | 0.000007851 | 0 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Mercury | A | mg/L | 0.000007074 | 0 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | | 0% |
| Molybdenum | A | mg/L | -0.00004406 | 0 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | | 0% |
| Nickel | A | mg/L | 0.00001966 | 0 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Selenium | A | mg/L | 0.0001333 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Silver | A | mg/L | 0.0003263 | 0.0003263 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | | 0% J |
| Strontium | A | mg/L | 0.000003859 | 0 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | | 0% |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|----------------|---------------|-------------|-----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998171 | 100 ppb Br STD | ICPMS-6020-W- | SAMP | | 1/22/2022 4:26:0 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Thallium | A | mg/L | 0.0006262 | 0.0006262 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Thorium | A | mg/L | 0.0001281 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.0002305 | 0.0002305 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Uranium | A | mg/L | 0.00002966 | 0 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Calcium | B | mg/L | 0.002291 | 0 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | L |
| Iron | B | mg/L | 0.0001012 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0.0001012 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | 0.001547 | 0 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | L |
| Potassium | B | mg/L | 0.6011 | 0.6011 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | 0 | 0 | 0% | D |
| Tin | B | mg/L | 0.00007039 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | -0.00001252 | 0 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|--------|---------------|-------------|------------|------------------|-------|----------|-----------|----------|--------|--------|------|-----|------|------|---|
| 14998172 | Rinse | ICPMS-6020-W- | SAMP | | 1/22/2022 4:32:2 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.00002062 | 0 | | 0 | 0 | 0 | 0.00086 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Antimony | A | mg/L | -1.045E-06 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | 0.00001448 | 0 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.000004231 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.00000838 | 0 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 2.011E-07 | 0 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | -7.051E-06 | 0 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | 3.639E-07 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0.000002244 | 0 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.00003225 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 0.0001341 | 0.0001341 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Mercury | A | mg/L | 0.000003581 | 0 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | -0.00005416 | 0 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0.000007009 | 0 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.00004454 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 0.00002286 | 0.00002286 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | J |
| Strontium | A | mg/L | 0.00000349 | 0 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.0001758 | 0.0001758 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Thorium | A | mg/L | 0.00002917 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|-------------|---------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998172 | Rinse | ICPMS-6020-W- | SAMP | | 1/22/2022 4:32:2 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Titanium | A | mg/L | 0.00005616 | 0 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.000005104 | 0 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Calcium | B | mg/L | 0.00119 | 0 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | L |
| Iron | B | mg/L | 0.00008053 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0.00008053 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | 0.001033 | 0 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | L |
| Potassium | B | mg/L | 0.01423 | 0 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | 0 | 0 | 0% | L |
| Tin | B | mg/L | 0.000006639 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | -0.00001545 | 0 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|--------|---------------|------------|-----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998173 | QCS | ICPMS-6020-W- | ICV | | 1/22/2022 4:38:4 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.2491 | 0.2491 | | 0.25 | 0 | 0 | 0.00086 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Antimony | A | mg/L | 0.04905 | 0.04905 | | 0.05 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 98% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.05054 | 0.05054 | | 0.05 | 0 | 0 | 0.00019 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.05047 | 0.05047 | | 0.05 | 0 | 0 | 0.000042 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.02475 | 0.02475 | | 0.025 | 0 | 0 | 0.00012 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Boron | A | mg/L | 0.05406 | 0.05406 | | 0.05 | 0 | 0 | 0.00561 | 0.00561 | 1 | 108% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.02506 | 0.02506 | | 0.025 | 0 | 0 | 0.000025 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 2.521 | 2.521 | | 2.5 | 0 | 0 | 0.02092 | 0.02092 | 50 | 101% | 90 | 110 | 0% | |
| Cerium | A | mg/L | 0.05227 | 0.05227 | | 0.05 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 105% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.05075 | 0.05075 | | 0.05 | 0 | 0 | 0.00018 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.05255 | 0.05255 | | 0.05 | 0 | 0 | 0.000042 | 0.001 | 1 | 105% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.05304 | 0.05304 | | 0.05 | 0 | 0 | 0.00027 | 0.001 | 1 | 106% | 90 | 110 | 0% | |
| Iron | A | mg/L | 0.2542 | 0.2542 | | 0.25 | 0 | 0 | 0.00119 | 0.00119 | 5 | 102% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.05116 | 0.05116 | | 0.05 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 102% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.04922 | 0.04922 | | 0.05 | 0 | 0 | 0.000056 | 0.001 | 1 | 98% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 2.634 | 2.634 | | 2.5 | 0 | 0 | 0.00564 | 0.00564 | 50 | 105% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.2558 | 0.2558 | | 0.25 | 0 | 0 | 0.000095 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.0009827 | 0.0009827 | | 0.001 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 98% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.05033 | 0.05033 | | 0.05 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 101% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.05239 | 0.05239 | | 0.05 | 0 | 0 | 0.00063 | 0.001 | 1 | 105% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 2.47 | 2.47 | | 2.5 | 0 | 0 | 0.08139 | 0.08139 | 50 | 99% | 90 | 110 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|-------------------|------------|---------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998173 | QCS | ICPMS-6020-W- ICV | | | 1/22/2022 4:38:4 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Selenium | A | mg/L | 0.05204 | 0.05204 | | 0.05 | 0 | 0 | 0.00033 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.5196 | 0.5196 | | 0.5 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 104% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.02516 | 0.02516 | | 0.025 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 101% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 2.588 | 2.588 | | 2.5 | 0 | 0 | 0.02171 | 0.02171 | 50 | 104% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.0499 | 0.0499 | | 0.05 | 0 | 0 | 0.00014 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.04873 | 0.04873 | | 0.05 | 0 | 0 | 0.000041 | 0.001 | 1 | 97% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.04924 | 0.04924 | | 0.05 | 0 | 0 | 0.00061 | 0.001 | 1 | 98% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.05018 | 0.05018 | | 0.05 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 100% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.05271 | 0.05271 | | 0.05 | 0 | 0 | 0.000094 | 0.001 | 1 | 105% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.05353 | 0.05353 | | 0.05 | 0 | 0 | 0.000052 | 0.0003 | 1 | 107% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.04634 | 0.04634 | | 0.05 | 0 | 0 | 0.0013 | 0.0013 | 1 | 93% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.0539 | 0.0539 | | 0.05 | 0 | 0 | 0.00273 | 0.00273 | 1 | 108% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 0.2542 | 0.2542 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|--------|--------------------|-------------|-------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998174 | ICSA | ICPMS-6020-W- ICSA | | | 1/22/2022 4:44:5 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 41.64 | 41.64 | | 40 | 0 | 0 | 0.00086 | 0.001 | 1 | 104% | 80 | 120 | 0% | |
| Antimony | A | mg/L | 0.0001866 | 0.0001866 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | | | 0% | |
| Arsenic | A | mg/L | 0.00008218 | 0.00008218 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | | | 0% | |
| Barium | A | mg/L | 0.00007171 | 0.00007171 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | | | 0% | |
| Beryllium | A | mg/L | 0.00002856 | 0.00002856 | | 0 | 0 | 0 | 0.00012 | 0.001 | 1 | 0% | | | 0% | |
| Boron | A | mg/L | 0.003927 | 0.003927 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | | | 0% | |
| Cadmium | A | mg/L | 0.00006883 | 0.00006883 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | | | 0% | |
| Calcium | A | mg/L | 123.7 | 123.7 | | 120 | 0 | 0 | 0.02092 | 0.02092 | 50 | 103% | 80 | 120 | 0% | |
| Cerium | A | mg/L | 0.000003835 | 0.000003835 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | | | 0% | |
| Chromium | A | mg/L | 0.0009543 | 0.0009543 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | | | 0% | |
| Cobalt | A | mg/L | 0.0003424 | 0.0003424 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | | | 0% | |
| Copper | A | mg/L | 0.0001474 | 0.0001474 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | | | 0% | |
| Iron | A | mg/L | 102.2 | 102.2 | | 100 | 0 | 0 | 0.00119 | 0.00119 | 5 | 102% | 80 | 120 | 0% | |
| Lanthanum | A | mg/L | 0.000008727 | 0.000008727 | | 0 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 0% | | | 0% | |
| Lead | A | mg/L | 0.00003616 | 0.00003616 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | | | 0% | |
| Magnesium | A | mg/L | 43.95 | 43.95 | | 50 | 0 | 0 | 0.00564 | 0.00564 | 50 | 88% | | | 0% | |
| Manganese | A | mg/L | 0.0002013 | 0.0002013 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | | | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|-------------|-------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998174 | ICSA | ICPMS-6020-W- | ICSA | | 1/22/2022 4:44:5 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Mercury | A | mg/L | 0.00001008 | 0.00001008 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | | | 0% | |
| Molybdenum | A | mg/L | 0.8545 | 0.8545 | | 0.8 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 107% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.0002219 | 0.0002219 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | | | 0% | |
| Potassium | A | mg/L | 42.01 | 42.01 | | 50 | 0 | 0 | 0.08139 | 0.08139 | 50 | 84% | | | 0% | |
| Selenium | A | mg/L | 0.0001528 | 0.0001528 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | | | 0% | |
| Silicon | A | mg/L | -0.02392 | -0.02392 | | 0 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 0% | | | 0% | |
| Silver | A | mg/L | 0.00001398 | 0.00001398 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | | | 0% | |
| Sodium | A | mg/L | 109.2 | 109.2 | | 100 | 0 | 0 | 0.02171 | 0.02171 | 50 | 109% | | | 0% | |
| Strontium | A | mg/L | 0.001222 | 0.001222 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | | | 0% | |
| Thallium | A | mg/L | 0.00005547 | 0.00005547 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | | | 0% | |
| Thorium | A | mg/L | 0.00003765 | 0.00003765 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | | | 0% | |
| Tin | A | mg/L | 0.00007795 | 0.00007795 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | | | 0% | |
| Titanium | A | mg/L | 0.847 | 0.847 | | 0.8 | 0 | 0 | 0.000094 | 0.001 | 1 | 106% | | | 0% | |
| Uranium | A | mg/L | 0.000004341 | 0.000004341 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | | | 0% | |
| Vanadium | A | mg/L | -0.003356 | -0.003356 | | 0 | 0 | 0 | 0.0013 | 0.0013 | 1 | 0% | | | 0% | |
| Zinc | A | mg/L | 0.0003431 | 0.0003431 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | | | 0% | |
| Iron, Ferrous | C | mg/L | 102.2 | 102.2 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | | | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|--------|---------------|-------------|-------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998175 | ICSAB | ICPMS-6020-W- | ICSAB | | 1/22/2022 4:51:1 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 40.91 | 40.91 | | 40 | 0 | 0 | 0.00086 | 0.001 | 1 | 102% | 80 | 120 | 0% | |
| Antimony | A | mg/L | 0.00005116 | 0.00005116 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | | | 0% | |
| Arsenic | A | mg/L | 0.01037 | 0.01037 | | 0.01 | 0 | 0 | 0.00019 | 0.001 | 1 | 104% | 80 | 120 | 0% | |
| Barium | A | mg/L | 0.00007249 | 0.00007249 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | | | 0% | |
| Beryllium | A | mg/L | 0.00001211 | 0.00001211 | | 0 | 0 | 0 | 0.00012 | 0.001 | 1 | 0% | | | 0% | |
| Boron | A | mg/L | 0.001978 | 0.001978 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | | | 0% | |
| Cadmium | A | mg/L | 0.009802 | 0.009802 | | 0.01 | 0 | 0 | 0.000025 | 0.001 | 1 | 98% | 80 | 120 | 0% | |
| Calcium | A | mg/L | 123 | 123 | | 120 | 0 | 0 | 0.02092 | 0.02092 | 50 | 102% | 80 | 120 | 0% | |
| Cerium | A | mg/L | 0.000002022 | 0.000002022 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | | | 0% | |
| Chromium | A | mg/L | 0.02133 | 0.02133 | | 0.02 | 0 | 0 | 0.00018 | 0.001 | 1 | 107% | 80 | 120 | 0% | |
| Cobalt | A | mg/L | 0.01997 | 0.01997 | | 0.02 | 0 | 0 | 0.000042 | 0.001 | 1 | 100% | 80 | 120 | 0% | |
| Copper | A | mg/L | 0.02029 | 0.02029 | | 0.02 | 0 | 0 | 0.00027 | 0.001 | 1 | 101% | 80 | 120 | 0% | |
| Iron | A | mg/L | 103.8 | 103.8 | | 100 | 0 | 0 | 0.00119 | 0.00119 | 5 | 104% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------------|-------------|-------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998175 | ICSAB | ICPMS-6020-W- ICSAB | | | 1/22/2022 4:51:1 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Lanthanum | A | mg/L | 0.000009493 | 0.000009493 | | 0 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 0% | | | 0% | |
| Lead | A | mg/L | 0.00002756 | 0.00002756 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | | | 0% | |
| Magnesium | A | mg/L | 42.48 | 42.48 | | 40 | 0 | 0 | 0.00564 | 0.00564 | 50 | 106% | 80 | 120 | 0% | |
| Manganese | A | mg/L | 0.02067 | 0.02067 | | 0.02 | 0 | 0 | 0.000095 | 0.001 | 1 | 103% | 80 | 120 | 0% | |
| Mercury | A | mg/L | 0.000003316 | 0.000003316 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | | | 0% | |
| Molybdenum | A | mg/L | 0.8527 | 0.8527 | | 0.8 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 107% | 80 | 120 | 0% | |
| Nickel | A | mg/L | 0.02084 | 0.02084 | | 0.02 | 0 | 0 | 0.00063 | 0.001 | 1 | 104% | 80 | 120 | 0% | |
| Potassium | A | mg/L | 40.82 | 40.82 | | 40 | 0 | 0 | 0.08139 | 0.08139 | 50 | 102% | 80 | 120 | 0% | |
| Selenium | A | mg/L | 0.0106 | 0.0106 | | 0.01 | 0 | 0 | 0.00033 | 0.001 | 1 | 106% | 80 | 120 | 0% | |
| Silicon | A | mg/L | -0.02546 | -0.02546 | | 0 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 0% | | | 0% | |
| Silver | A | mg/L | 0.004938 | 0.004938 | | 0.005 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 99% | 80 | 120 | 0% | |
| Sodium | A | mg/L | 103.8 | 103.8 | | 100 | 0 | 0 | 0.02171 | 0.02171 | 50 | 104% | 80 | 120 | 0% | |
| Strontium | A | mg/L | 0.001277 | 0.001277 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | | | 0% | |
| Thallium | A | mg/L | 0.00002382 | 0.00002382 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | | | 0% | |
| Thorium | A | mg/L | 0.00001206 | 0.00001206 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | | | 0% | |
| Tin | A | mg/L | 0.00004946 | 0.00004946 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | | | 0% | |
| Titanium | A | mg/L | 0.8342 | 0.8342 | | 0.8 | 0 | 0 | 0.000094 | 0.001 | 1 | 104% | 80 | 120 | 0% | |
| Uranium | A | mg/L | 0.000001302 | 0.000001302 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | | | 0% | |
| Vanadium | A | mg/L | 0.01615 | 0.01615 | | 0.02 | 0 | 0 | 0.0013 | 0.0013 | 1 | 81% | 80 | 120 | 0% | |
| Zinc | A | mg/L | 0.01072 | 0.01072 | | 0.01 | 0 | 0 | 0.00273 | 0.00273 | 1 | 107% | 80 | 120 | 0% | |
| Iron, Ferrous | C | mg/L | 103.8 | 103.8 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | | | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|--------|--------------------|-------------|---------|------------------|-------|----------|-----------|----------|--------|--------|------|-----|------|------|---|
| 14998176 | Rinse | ICPMS-6020-W- SAMP | | | 1/22/2022 4:57:3 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | -0.00001205 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | -0.00008641 | 0 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 2.588E-07 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Beryllium | A | mg/L | 0.00001101 | 0 | | 0 | 0 | 0 | 0.00012 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | -0.00000298 | 0 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 3.396E-07 | 0 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | -0.00002864 | 0 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | -1.089E-06 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | 0.0001034 | 0 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|--------------------|-------------|-----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998176 | Rinse | ICPMS-6020-W- SAMP | | | 1/22/2022 4:57:3 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Lead | A | mg/L | 0.000007154 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 0.0001239 | 0.0001239 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Mercury | A | mg/L | 0.000003238 | 0 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.0001794 | 0.0001794 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Nickel | A | mg/L | 0.000005038 | 0 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.00000543 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 8.068E-08 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.000008697 | 0 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00001922 | 0 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | 0.000001021 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.0001185 | 0.0001185 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Uranium | A | mg/L | 4.554E-07 | 0 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Boron | B | mg/L | 0.0008159 | 0 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | 0 | 0 | 0% | L |
| Calcium | B | mg/L | 0.002021 | 0 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | L |
| Iron | B | mg/L | 0.001206 | 0.001206 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | 0.001206 | 0.001206 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | -0.001041 | 0 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | L |
| Potassium | B | mg/L | 0.01466 | 0 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | 0 | 0 | 0% | L |
| Tin | B | mg/L | -0.00001014 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | 0.0000041 | 0 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|--------|-------------------|------------|---------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998177 | CCV | ICPMS-6020-W- CCV | | | 1/22/2022 5:03:4 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0647 | 0.0647 | | 0.05 | 0 | 0 | 0.00086 | 0.001 | 1 | 129% | 90 | 110 | 0% | S |
| Antimony | A | mg/L | 0.05193 | 0.05193 | | 0.05 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 104% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.05156 | 0.05156 | | 0.05 | 0 | 0 | 0.00019 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.04994 | 0.04994 | | 0.05 | 0 | 0 | 0.000042 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.05267 | 0.05267 | | 0.05 | 0 | 0 | 0.00012 | 0.001 | 1 | 105% | 90 | 110 | 0% | |
| Boron | A | mg/L | 0.05383 | 0.05383 | | 0.05 | 0 | 0 | 0.00561 | 0.00561 | 1 | 108% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.04985 | 0.04985 | | 0.05 | 0 | 0 | 0.000025 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 12.34 | 12.34 | | 12.5 | 0 | 0 | 0.02092 | 0.02092 | 50 | 99% | 90 | 110 | 0% | |
| Cerium | A | mg/L | 0.04894 | 0.04894 | | 0.05 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 98% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.052 | 0.052 | | 0.05 | 0 | 0 | 0.00018 | 0.001 | 1 | 104% | 90 | 110 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|------------|-----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998177 | CCV | ICPMS-6020-W- | CCV | | 1/22/2022 5:03:4 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Cobalt | A | mg/L | 0.05306 | 0.05306 | | 0.05 | 0 | 0 | 0.000042 | 0.001 | 1 | 106% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.05303 | 0.05303 | | 0.05 | 0 | 0 | 0.00027 | 0.001 | 1 | 106% | 90 | 110 | 0% | |
| Iron | A | mg/L | 1.288 | 1.288 | | 1.3 | 0 | 0 | 0.00119 | 0.00119 | 5 | 99% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.04863 | 0.04863 | | 0.05 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 97% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.0501 | 0.0501 | | 0.05 | 0 | 0 | 0.000056 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 12.93 | 12.93 | | 12.5 | 0 | 0 | 0.00564 | 0.00564 | 50 | 103% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.05211 | 0.05211 | | 0.05 | 0 | 0 | 0.000095 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.0009666 | 0.0009666 | | 0.001 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 97% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.05271 | 0.05271 | | 0.05 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 105% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.05329 | 0.05329 | | 0.05 | 0 | 0 | 0.00063 | 0.001 | 1 | 107% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 12.3 | 12.3 | | 12.5 | 0 | 0 | 0.08139 | 0.08139 | 50 | 98% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.05157 | 0.05157 | | 0.05 | 0 | 0 | 0.00033 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.2071 | 0.2071 | | 0.2 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 104% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.02032 | 0.02032 | | 0.02 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 102% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 12.93 | 12.93 | | 12.5 | 0 | 0 | 0.02171 | 0.02171 | 50 | 103% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.05006 | 0.05006 | | 0.05 | 0 | 0 | 0.00014 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.04987 | 0.04987 | | 0.05 | 0 | 0 | 0.000041 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.04922 | 0.04922 | | 0.05 | 0 | 0 | 0.00061 | 0.001 | 1 | 98% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.05261 | 0.05261 | | 0.05 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 105% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.05508 | 0.05508 | | 0.05 | 0 | 0 | 0.000094 | 0.001 | 1 | 110% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.04954 | 0.04954 | | 0.05 | 0 | 0 | 0.000052 | 0.0003 | 1 | 99% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.04717 | 0.04717 | | 0.05 | 0 | 0 | 0.0013 | 0.0013 | 1 | 94% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.05445 | 0.05445 | | 0.05 | 0 | 0 | 0.00273 | 0.00273 | 1 | 109% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 1.288 | 1.288 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------|--------|---------------|-------------|-------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998178 | CCB | ICPMS-6020-W- | CCB | | 1/22/2022 5:10:0 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0001288 | 0.0001288 | | 0 | 0 | 0 | 0.00086 | 0.001 | 1 | 0% | | | 0% | |
| Antimony | A | mg/L | 0.0001141 | 0.0001141 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | | | 0% | |
| Arsenic | A | mg/L | -0.00005167 | -0.00005167 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | | | 0% | |
| Barium | A | mg/L | 0.000003575 | 0.000003575 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | | | 0% | |
| Beryllium | A | mg/L | 0.00003069 | 0.00003069 | | 0 | 0 | 0 | 0.00012 | 0.001 | 1 | 0% | | | 0% | |
| Boron | A | mg/L | 0.001369 | 0.001369 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | | | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|-------------|-------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998178 | CCB | ICPMS-6020-W- | CCB | | 1/22/2022 5:10:0 | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Cadmium | A | mg/L | 0.000001038 | 0.000001038 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | | | 0% | |
| Calcium | A | mg/L | 0.001687 | 0.001687 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | | | 0% | |
| Cerium | A | mg/L | 1.982E-08 | 1.982E-08 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | -0.00003879 | -0.00003879 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | | | 0% | |
| Cobalt | A | mg/L | 0.000000568 | 0.000000568 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | | | 0% | |
| Copper | A | mg/L | 0.00004388 | 0.00004388 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | | | 0% | |
| Iron | A | mg/L | 0.0003901 | 0.0003901 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | | | 0% | |
| Lanthanum | A | mg/L | 1.608E-07 | 1.608E-07 | | 0 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.000008418 | 0.000008418 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | | | 0% | |
| Magnesium | A | mg/L | -0.0007128 | -0.0007128 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | | | 0% | |
| Manganese | A | mg/L | -9.376E-06 | -9.376E-06 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | | | 0% | |
| Mercury | A | mg/L | 0.000005159 | 0.000005159 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | | | 0% | |
| Molybdenum | A | mg/L | -8.274E-06 | -8.274E-06 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | | | 0% | |
| Nickel | A | mg/L | -9.564E-07 | -9.564E-07 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | | | 0% | |
| Potassium | A | mg/L | 0.01924 | 0.01924 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | | | 0% | |
| Selenium | A | mg/L | 0.000008508 | 0.000008508 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | | | 0% | |
| Silicon | A | mg/L | -0.02919 | -0.02919 | | 0 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 0.000003602 | 0.000003602 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | | | 0% | |
| Sodium | A | mg/L | -0.04317 | -0.04317 | | 0 | 0 | 0 | 0.02171 | 0.02171 | 50 | 0% | | | 0% | |
| Strontium | A | mg/L | 0.000006269 | 0.000006269 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00007318 | 0.00007318 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | 0.00001451 | 0.00001451 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Tin | A | mg/L | 0.00003691 | 0.00003691 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | 0.00004443 | 0.00004443 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | 0.000002266 | 0.000002266 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | A | mg/L | -0.002932 | -0.002932 | | 0 | 0 | 0 | 0.0013 | 0.0013 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | A | mg/L | -0.00007095 | -0.00007095 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | C | mg/L | 0.0003901 | 0.0003901 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|--------|---------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998179 | Rinse | ICPMS-200.8-W | SAMP | | 1/22/2022 11:11: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-------------|--------|---------------|-------------|-----------|------------------|-------|----------|-----------|-----------|--------|--------|------|-----|------|------|---|
| 14998179 | Rinse | ICPMS-200.8-W | SAMP | | 1/22/2022 11:11: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | -0.00003503 | 0 | | 0 | 0 | 0 | 0.0002882 | 0.05 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | -0.00004934 | 0 | | 0 | 0 | 0 | 0.0001626 | 0.005 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 4.632E-07 | 0 | | 0 | 0 | 0 | 8.917E-05 | 0.1 | 1 | 0% | 0 | 0 | 0% | |
| Beryllium | A | mg/L | -0.00001102 | 0 | | 0 | 0 | 0 | 0.0001137 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Boron | A | mg/L | 0.0002689 | 0 | | 0 | 0 | 0 | 0.0036397 | 0.1 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | -0.00000673 | 0 | | 0 | 0 | 0 | 2.969E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Calcium | A | mg/L | 0.004136 | 0 | | 0 | 0 | 0 | 0.0254163 | 0.5 | 50 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 2.011E-07 | 0 | | 0 | 0 | 0 | 8.97E-06 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | -0.00002243 | 0 | | 0 | 0 | 0 | 0.0002078 | 0.01 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | -4.432E-06 | 0 | | 0 | 0 | 0 | 2.037E-05 | 0.01 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | -6.069E-06 | 0 | | 0 | 0 | 0 | 0.0001010 | 0.01 | 1 | 0% | 0 | 0 | 0% | |
| Iron | A | mg/L | 0.00008638 | 0 | | 0 | 0 | 0 | 0.0021231 | 0.02 | 5 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | -5.078E-08 | 0 | | 0 | 0 | 0 | 3.957E-05 | 0.01 | 1 | 0% | 0 | 0 | 0% | |
| Magnesium | A | mg/L | -0.001364 | 0 | | 0 | 0 | 0 | 0.0084694 | 0.5 | 50 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | 0.0001253 | 0.0001253 | | 0 | 0 | 0 | 5.319E-05 | 0.01 | 1 | 0% | 0 | 0 | 0% | J |
| Mercury | A | mg/L | -1.461E-06 | 0 | | 0 | 0 | 0 | 7.78E-06 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | -0.00005944 | 0 | | 0 | 0 | 0 | 0.0000598 | 0.005 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | -0.00001588 | 0 | | 0 | 0 | 0 | 0.0001477 | 0.01 | 1 | 0% | 0 | 0 | 0% | |
| Potassium | A | mg/L | 0.01396 | 0 | | 0 | 0 | 0 | 0.0951865 | 0.5 | 50 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | -2.417E-06 | 0 | | 0 | 0 | 0 | 6.961E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | -2.283E-06 | 0 | | 0 | 0 | 0 | 1.541E-05 | 0.005 | 0.04 | 0% | 0 | 0 | 0% | |
| Sodium | A | mg/L | -0.06432 | 0 | | 0 | 0 | 0 | 0.0321039 | 0.5 | 50 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.00001732 | 0 | | 0 | 0 | 0 | 9.136E-05 | 0.1 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | -9.729E-07 | 0 | | 0 | 0 | 0 | 0.0001262 | 0.1 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | -4.947E-06 | 0 | | 0 | 0 | 0 | 7.051E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium 232 | A | mg/L | -4.947E-06 | 0 | | 0 | 0 | 0 | 7.051E-05 | 0.01 | 1 | 0% | 0 | 0 | 0% | |
| Tin | A | mg/L | -4.957E-06 | 0 | | 0 | 0 | 0 | 0.0021596 | 0.1 | 0.1 | 0% | 0 | 0 | 0% | |
| Titanium | A | mg/L | -0.00002141 | 0 | | 0 | 0 | 0 | 0.0001844 | 0.01 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | -4.388E-07 | 0 | | 0 | 0 | 0 | 1.948E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Vanadium | A | mg/L | -0.003024 | 0 | | 0 | 0 | 0 | 0.004194 | 0.1 | 1 | 0% | 0 | 0 | 0% | |
| Zinc | A | mg/L | -0.00007194 | 0 | | 0 | 0 | 0 | 0.0006119 | 0.01 | 1 | 0% | 0 | 0 | 0% | |
| Lithium | B | mg/L | -0.001084 | 0 | | 0 | 0 | 0 | 0.05 | 0.05 | 1 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|------------|-----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998180 | CCV | ICPMS-6020-W- | CCV | | 1/22/2022 11:17: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.06187 | 0.06187 | | 0.05 | 0 | 0 | 0.00086 | 0.001 | 1 | 124% | 90 | 110 | 0% | S |
| Antimony | A | mg/L | 0.05314 | 0.05314 | | 0.05 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 106% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.05123 | 0.05123 | | 0.05 | 0 | 0 | 0.00019 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.05075 | 0.05075 | | 0.05 | 0 | 0 | 0.000042 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.05298 | 0.05298 | | 0.05 | 0 | 0 | 0.00012 | 0.001 | 1 | 106% | 90 | 110 | 0% | |
| Boron | A | mg/L | 0.0534 | 0.0534 | | 0.05 | 0 | 0 | 0.00561 | 0.00561 | 1 | 107% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.05068 | 0.05068 | | 0.05 | 0 | 0 | 0.000025 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 12.2 | 12.2 | | 12.5 | 0 | 0 | 0.02092 | 0.02092 | 50 | 98% | 90 | 110 | 0% | |
| Cerium | A | mg/L | 0.05039 | 0.05039 | | 0.05 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 101% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.05286 | 0.05286 | | 0.05 | 0 | 0 | 0.00018 | 0.001 | 1 | 106% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.05221 | 0.05221 | | 0.05 | 0 | 0 | 0.000042 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.05374 | 0.05374 | | 0.05 | 0 | 0 | 0.00027 | 0.001 | 1 | 107% | 90 | 110 | 0% | |
| Iron | A | mg/L | 1.27 | 1.27 | | 1.3 | 0 | 0 | 0.00119 | 0.00119 | 5 | 98% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.05085 | 0.05085 | | 0.05 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 102% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.04984 | 0.04984 | | 0.05 | 0 | 0 | 0.000056 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 13.46 | 13.46 | | 12.5 | 0 | 0 | 0.00564 | 0.00564 | 50 | 108% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.05132 | 0.05132 | | 0.05 | 0 | 0 | 0.000095 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.0009665 | 0.0009665 | | 0.001 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 97% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.05329 | 0.05329 | | 0.05 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 107% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.05416 | 0.05416 | | 0.05 | 0 | 0 | 0.00063 | 0.001 | 1 | 108% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 12.46 | 12.46 | | 12.5 | 0 | 0 | 0.08139 | 0.08139 | 50 | 100% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.05042 | 0.05042 | | 0.05 | 0 | 0 | 0.00033 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.2076 | 0.2076 | | 0.2 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 104% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.02053 | 0.02053 | | 0.02 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 103% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 13.07 | 13.07 | | 12.5 | 0 | 0 | 0.02171 | 0.02171 | 50 | 105% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.04952 | 0.04952 | | 0.05 | 0 | 0 | 0.00014 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.04994 | 0.04994 | | 0.05 | 0 | 0 | 0.000041 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.05092 | 0.05092 | | 0.05 | 0 | 0 | 0.00061 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.05259 | 0.05259 | | 0.05 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 105% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.05494 | 0.05494 | | 0.05 | 0 | 0 | 0.000094 | 0.001 | 1 | 110% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.05054 | 0.05054 | | 0.05 | 0 | 0 | 0.000052 | 0.0003 | 1 | 101% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.04668 | 0.04668 | | 0.05 | 0 | 0 | 0.0013 | 0.0013 | 1 | 93% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.05449 | 0.05449 | | 0.05 | 0 | 0 | 0.00273 | 0.00273 | 1 | 109% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 1.27 | 1.27 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|-------------|-------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|----|
| 14998181 | CCB | ICPMS-6020-W- | CCB | | 1/22/2022 11:23: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0001679 | 0.0001679 | | 0 | 0 | 0 | 0.00086 | 0.001 | 1 | 0% | | | | 0% |
| Antimony | A | mg/L | 0.00009838 | 0.00009838 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | | | | 0% |
| Arsenic | A | mg/L | -0.00004192 | -0.00004192 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | | | | 0% |
| Barium | A | mg/L | 0.000008355 | 0.000008355 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | | | | 0% |
| Beryllium | A | mg/L | 0.000006301 | 0.000006301 | | 0 | 0 | 0 | 0.00012 | 0.001 | 1 | 0% | | | | 0% |
| Boron | A | mg/L | 0.0002068 | 0.0002068 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | | | | 0% |
| Cadmium | A | mg/L | 0.000001581 | 0.000001581 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | | | | 0% |
| Calcium | A | mg/L | 0.002246 | 0.002246 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | | | | 0% |
| Cerium | A | mg/L | 7.481E-07 | 7.481E-07 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | | 0% |
| Chromium | A | mg/L | -0.00001429 | -0.00001429 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | | | | 0% |
| Cobalt | A | mg/L | -2.288E-06 | -2.288E-06 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | | | | 0% |
| Copper | A | mg/L | -0.00002018 | -0.00002018 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | | | | 0% |
| Iron | A | mg/L | -0.00001929 | -0.00001929 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | | | | 0% |
| Lanthanum | A | mg/L | 8.59E-09 | 8.59E-09 | | 0 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 0% | 0 | 0 | | 0% |
| Lead | A | mg/L | 0.000003313 | 0.000003313 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | | | | 0% |
| Magnesium | A | mg/L | -0.0006734 | -0.0006734 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | | | | 0% |
| Manganese | A | mg/L | -9.928E-06 | -9.928E-06 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | | | | 0% |
| Mercury | A | mg/L | 0.000000776 | 0.000000776 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | | | | 0% |
| Molybdenum | A | mg/L | -0.00003553 | -0.00003553 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | | | | 0% |
| Nickel | A | mg/L | -0.00001021 | -0.00001021 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | | | | 0% |
| Potassium | A | mg/L | 0.01881 | 0.01881 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | | | | 0% |
| Selenium | A | mg/L | 0.000007307 | 0.000007307 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | | | | 0% |
| Silicon | A | mg/L | -0.03438 | -0.03438 | | 0 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 0% | 0 | 0 | | 0% |
| Silver | A | mg/L | 0.000001662 | 0.000001662 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | | | | 0% |
| Sodium | A | mg/L | -0.07041 | -0.07041 | | 0 | 0 | 0 | 0.02171 | 0.02171 | 50 | 0% | | | | 0% |
| Strontium | A | mg/L | 0.000008381 | 0.000008381 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Thallium | A | mg/L | 0.00002626 | 0.00002626 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Thorium | A | mg/L | 0.00001323 | 0.00001323 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Tin | A | mg/L | 0.00002237 | 0.00002237 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | | 0% |
| Titanium | A | mg/L | 0.000003295 | 0.000003295 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Uranium | A | mg/L | 0.000001813 | 0.000001813 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | | 0% |
| Vanadium | A | mg/L | -0.002765 | -0.002765 | | 0 | 0 | 0 | 0.0013 | 0.0013 | 1 | 0% | 0 | 0 | | 0% |
| Zinc | A | mg/L | -0.00008752 | -0.00008752 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | | 0% |
| Iron, Ferrous | C | mg/L | -0.00001929 | -0.00001929 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | | 0% |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|-------------|---------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998182 | Rinse | ICPMS-6020-W- | SAMP | | 1/22/2022 11:29: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | -7.784E-06 | 0 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Arsenic | A | mg/L | -0.00005231 | 0 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.000004549 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Beryllium | A | mg/L | 0.000003184 | 0 | | 0 | 0 | 0 | 0.00012 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cadmium | A | mg/L | 0.000001587 | 0 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cerium | A | mg/L | 5.414E-07 | 0 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Chromium | A | mg/L | -0.00001035 | 0 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Cobalt | A | mg/L | -3.073E-06 | 0 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Copper | A | mg/L | -0.0000303 | 0 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Lead | A | mg/L | 0.000001057 | 0 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Manganese | A | mg/L | -7.416E-06 | 0 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Mercury | A | mg/L | 9.358E-08 | 0 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | -0.00005492 | 0 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Nickel | A | mg/L | 0.000002711 | 0 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | -0.00001324 | 0 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Silver | A | mg/L | 0.000004522 | 0 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | |
| Strontium | A | mg/L | 0.00001244 | 0 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | -0.00001403 | 0 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thorium | A | mg/L | -4.137E-07 | 0 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Uranium | A | mg/L | -1.158E-07 | 0 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | 0% | |
| Boron | B | mg/L | -0.0002276 | 0 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | 0 | 0 | 0% | L |
| Calcium | B | mg/L | 0.00207 | 0 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | 0 | 0 | 0% | L |
| Iron | B | mg/L | -0.0000373 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Iron, Ferrous | B | mg/L | -0.0000373 | 0 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |
| Magnesium | B | mg/L | -0.001016 | 0 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | 0 | 0 | 0% | L |
| Potassium | B | mg/L | 0.01644 | 0 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | 0 | 0 | 0% | L |
| Tin | B | mg/L | 8.163E-07 | 0 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | 0% | |
| Zinc | B | mg/L | -0.00005604 | 0 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | 0% | L |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|--------------|--------|--------|--------|------|-----|------|------|---|
| 14998183 | B22011134-001 | ICPMS-6020-W- | SD | | 1/22/2022 11:36: | 5 | 163063 | 1/19/2022 3: | 0 | 1E+07 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|---------------|------------------|-------------|-----------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|---|
| 14998183 | B22011134-001 | ICPMS-6020-W- SD | | | 1/22/2022 11:36: | 5 | 163063 | 1/19/2022 3: | 0 | 1E+07 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.00829 | 0.04145 | | 0 | 0 | 0.02013 | 0.0193736 | 0.0159875 | 1 | 0% | 0 | 0 | | N |
| Antimony | A | mg/L | 0.00001376 | 0 | | 0 | 0 | 0 | 0.0013997 | 0.0049 | 0.1 | 0% | 0 | 0 | | |
| Arsenic | A | mg/L | 0.0001848 | 0 | | 0 | 0 | 0.001298 | 0.0017061 | 0.0013383 | 1 | 0% | 0 | 0 | | |
| Barium | A | mg/L | 0.0008762 | 0.004381 | | 0 | 0 | 0.004069 | 0.0013411 | 0.0012039 | 1 | 0% | 0 | 0 | | N |
| Beryllium | A | mg/L | -1.731E-06 | 0 | | 0 | 0 | 0 | 0.0005353 | 0.01 | 1 | 0% | 0 | 0 | | |
| Boron | A | mg/L | 0.01375 | 0 | | 0 | 0 | 0.06786 | 0.1019008 | 0.07335 | 1 | 0% | 0 | 0 | | |
| Cadmium | A | mg/L | 0.00001526 | 0 | | 0 | 0 | 0 | 9.105E-05 | 0.005 | 1 | 0% | 0 | 0 | | |
| Calcium | A | mg/L | 2.011 | 10.055 | | 0 | 0 | 10.28 | 0.1864681 | 0.5517403 | 50 | 0% | 0 | 0 | 2% | |
| Cerium | A | mg/L | 0.00001448 | 0 | | 0 | 0 | 6.226E-05 | 0.0001369 | 0.001 | 0.1 | 0% | 0 | 0 | | |
| Chromium | A | mg/L | 0.00009372 | 0 | | 0 | 0 | 0 | 0.0076875 | 0.0076875 | 1 | 0% | 0 | 0 | | |
| Cobalt | A | mg/L | 0.0001026 | 0.000513 | | 0 | 0 | 0.00053 | 0.0004771 | 0.001 | 1 | 0% | 0 | 0 | | N |
| Copper | A | mg/L | 0.01879 | 0.09395 | | 0 | 0 | 0 | 0.0043735 | 0.0099 | 1 | 0% | 0 | 0 | | N |
| Iron | A | mg/L | 0.08092 | 0.4046 | | 0 | 0 | 0.4364 | 0.0371198 | 0.02565 | 5 | 0% | 0 | 0 | 8% | |
| Lanthanum | A | mg/L | 0.000003979 | 0 | | 0 | 0 | 0 | 0.000275 | 0.001 | 0.1 | 0% | 0 | 0 | | |
| Lead | A | mg/L | 0.0007077 | 0.0035385 | | 0 | 0 | 0 | 0.0003858 | 0.001 | 1 | 0% | 0 | 0 | | N |
| Magnesium | A | mg/L | 2.001 | 10.005 | | 0 | 0 | 10.4 | 0.0521269 | 0.0407608 | 50 | 0% | 0 | 0 | 4% | |
| Manganese | A | mg/L | 0.09961 | 0.49805 | | 0 | 0 | 0.5033 | 0.0026994 | 0.0010695 | 1 | 0% | 0 | 0 | 1% | |
| Molybdenum | A | mg/L | 0.00005928 | 0 | | 0 | 0 | 0.000556 | 0.0008814 | 0.001 | 0.1 | 0% | 0 | 0 | | |
| Nickel | A | mg/L | 0.004605 | 0.023025 | | 0 | 0 | 0.0009891 | 0.0011441 | 0.0121000 | 1 | 0% | 0 | 0 | | N |
| Potassium | A | mg/L | 0.4563 | 2.2815 | | 0 | 0 | 2.03 | 0.3828097 | 0.1306027 | 50 | 0% | 0 | 0 | | N |
| Selenium | A | mg/L | 0.000001896 | 0 | | 0 | 0 | 0 | 0.0006787 | 0.0029274 | 1 | 0% | 0 | 0 | | |
| Silicon | A | mg/L | 5.324 | 26.62 | | 0 | 0 | 27.21 | 0.2110446 | 0.026606 | 0.4 | 0% | 0 | 0 | 2% | |
| Silver | A | mg/L | -0.00005444 | 0 | | 0 | 0 | 0 | 0.0002141 | 0.001 | 0.04 | 0% | 0 | 0 | | |
| Sodium | A | mg/L | 7.679 | 38.395 | | 0 | 0 | 40.71 | 0.5097304 | 3.6651346 | 50 | 0% | 0 | 0 | 6% | |
| Strontium | A | mg/L | 0.01434 | 0.0717 | | 0 | 0 | 0.07368 | 0.0012164 | 0.001 | 1 | 0% | 0 | 0 | 3% | |
| Thallium | A | mg/L | -0.00001143 | 0 | | 0 | 0 | 0 | 0.0005569 | 0.001 | 1 | 0% | 0 | 0 | | |
| Thorium | A | mg/L | 0.000003774 | 0 | | 0 | 0 | 0 | 0.0018981 | 0.02075 | 1 | 0% | 0 | 0 | | |
| Tin | A | mg/L | 0.0001685 | 0 | | 0 | 0 | 0 | 0.0094659 | 0.0055874 | 0.1 | 0% | 0 | 0 | | |
| Titanium | A | mg/L | 0.0009248 | 0.004624 | | 0 | 0 | 0.003704 | 0.0028666 | 0.001 | 1 | 0% | 0 | 0 | | N |
| Uranium | A | mg/L | 0.000004012 | 0 | | 0 | 0 | 1.766E-05 | 8.495E-05 | 0.0004224 | 1 | 0% | 0 | 0 | | |
| Vanadium | A | mg/L | -0.00208 | 0 | | 0 | 0 | 0.004989 | 0.0195637 | 0.0105423 | 1 | 0% | 0 | 0 | | |
| Zinc | A | mg/L | 0.02175 | 0.10875 | | 0 | 0 | 0.001219 | 0.0058087 | 0.0327721 | 1 | 0% | 0 | 0 | | N |
| Silica | C | mg/L | 11.3891008 | 56.945504 | | 0 | 0 | 0 | 0.4514666 | 0.0569155 | 5 | 0% | 0 | 0 | | N |
| Silicon as SiO2 | C | mg/L | 11.3891008 | 56.945504 | | 0 | 0 | 0 | 0.4514666 | 0.0569155 | 5 | 0% | 0 | 0 | | N |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-----------------|---------------|------------------|-------------|-----------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|---|
| 14998184 | B22011124-001 | ICPMS-6020-W- SD | | | 1/22/2022 11:42: | 5 | 163063 | 1/19/2022 2: | 0 | 1E+07 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.001963 | 0 | | 0 | 0 | 0.005018 | 0.0193736 | 0.0159875 | 1 | 0% | 0 | 0 | | |
| Antimony | A | mg/L | -0.00002632 | 0 | | 0 | 0 | 0 | 0.0013997 | 0.0049 | 0.1 | 0% | 0 | 0 | | |
| Arsenic | A | mg/L | 0.00001094 | 0 | | 0 | 0 | 0 | 0.0017061 | 0.0013383 | 1 | 0% | 0 | 0 | | |
| Barium | A | mg/L | 0.0007141 | 0.0035705 | | 0 | 0 | 0.00359 | 0.0013411 | 0.0012039 | 1 | 0% | 0 | 0 | | N |
| Beryllium | A | mg/L | -0.0000046 | 0 | | 0 | 0 | 0 | 0.0005353 | 0.01 | 1 | 0% | 0 | 0 | | |
| Boron | A | mg/L | 0.01166 | 0 | | 0 | 0 | 0.05482 | 0.1019008 | 0.07335 | 1 | 0% | 0 | 0 | | |
| Cadmium | A | mg/L | -3.866E-06 | 0 | | 0 | 0 | 0 | 9.105E-05 | 0.005 | 1 | 0% | 0 | 0 | | |
| Calcium | A | mg/L | 1.816 | 9.08 | | 0 | 0 | 9.449 | 0.1864681 | 0.5517403 | 50 | 0% | 0 | 0 | 4% | |
| Cerium | A | mg/L | 0.00000142 | 0 | | 0 | 0 | 0 | 0.0001369 | 0.001 | 0.1 | 0% | 0 | 0 | | |
| Chromium | A | mg/L | 0.0004586 | 0 | | 0 | 0 | 0.00223 | 0.0076875 | 0.0076875 | 1 | 0% | 0 | 0 | | |
| Cobalt | A | mg/L | 0.00002198 | 0 | | 0 | 0 | 0.0001341 | 0.0004771 | 0.001 | 1 | 0% | 0 | 0 | | |
| Copper | A | mg/L | 0.0002956 | 0 | | 0 | 0 | 0 | 0.0043735 | 0.0099 | 1 | 0% | 0 | 0 | | |
| Iron | A | mg/L | 0.003708 | 0 | | 0 | 0 | 0.01605 | 0.0371198 | 0.02565 | 5 | 0% | 0 | 0 | | |
| Lanthanum | A | mg/L | 2.311E-07 | 0 | | 0 | 0 | 0 | 0.000275 | 0.001 | 0.1 | 0% | 0 | 0 | | |
| Lead | A | mg/L | 0.00002126 | 0 | | 0 | 0 | 0 | 0.0003858 | 0.001 | 1 | 0% | 0 | 0 | | |
| Magnesium | A | mg/L | 2.181 | 10.905 | | 0 | 0 | 10.49 | 0.0521269 | 0.0407608 | 50 | 0% | 0 | 0 | 4% | |
| Manganese | A | mg/L | 0.0002862 | 0 | | 0 | 0 | 0.001292 | 0.0026994 | 0.0010695 | 1 | 0% | 0 | 0 | | |
| Molybdenum | A | mg/L | 0.0003102 | 0.001551 | | 0 | 0 | 0.001922 | 0.0008814 | 0.001 | 0.1 | 0% | 0 | 0 | | N |
| Nickel | A | mg/L | 0.0004553 | 0.0022765 | | 0 | 0 | 0.001935 | 0.0011441 | 0.0121000 | 1 | 0% | 0 | 0 | | N |
| Potassium | A | mg/L | 0.3853 | 1.9265 | | 0 | 0 | 1.709 | 0.3828097 | 0.1306027 | 50 | 0% | 0 | 0 | | N |
| Selenium | A | mg/L | 0.00003069 | 0 | | 0 | 0 | 0.0002152 | 0.0006787 | 0.0029274 | 1 | 0% | 0 | 0 | | |
| Silicon | A | mg/L | 5.014 | 25.07 | | 0 | 0 | 23.63 | 0.2110446 | 0.026606 | 0.4 | 0% | 0 | 0 | 6% | |
| Silver | A | mg/L | -0.00006236 | 0 | | 0 | 0 | 0 | 0.0002141 | 0.001 | 0.04 | 0% | 0 | 0 | | |
| Sodium | A | mg/L | 7.526 | 37.63 | | 0 | 0 | 37.99 | 0.5097304 | 3.6651346 | 50 | 0% | 0 | 0 | 1% | |
| Strontium | A | mg/L | 0.01317 | 0.06585 | | 0 | 0 | 0.06807 | 0.0012164 | 0.001 | 1 | 0% | 0 | 0 | 3% | |
| Thallium | A | mg/L | -0.00001659 | 0 | | 0 | 0 | 0 | 0.0005569 | 0.001 | 1 | 0% | 0 | 0 | | |
| Thorium | A | mg/L | -0.00000112 | 0 | | 0 | 0 | 0 | 0.0018981 | 0.02075 | 1 | 0% | 0 | 0 | | |
| Tin | A | mg/L | 0.00008879 | 0 | | 0 | 0 | 0 | 0.0094659 | 0.0055874 | 0.1 | 0% | 0 | 0 | | |
| Titanium | A | mg/L | 0.0004289 | 0 | | 0 | 0 | 0.001994 | 0.0028666 | 0.001 | 1 | 0% | 0 | 0 | | |
| Uranium | A | mg/L | 0.000001627 | 0 | | 0 | 0 | 0 | 8.495E-05 | 0.0004224 | 1 | 0% | 0 | 0 | | |
| Vanadium | A | mg/L | 0.001985 | 0 | | 0 | 0 | 0.02148 | 0.0195637 | 0.0105423 | 1 | 0% | 0 | 0 | | |
| Zinc | A | mg/L | 0.001858 | 0.00929 | | 0 | 0 | 0.005856 | 0.0058087 | 0.0327721 | 1 | 0% | 0 | 0 | | N |
| Silica | C | mg/L | 10.7259488 | 53.629744 | | 0 | 0 | 0 | 0.4514666 | 0.0569155 | 5 | 0% | 0 | 0 | | N |
| Silicon as SiO2 | C | mg/L | 10.7259488 | 53.629744 | | 0 | 0 | 0 | 0.4514666 | 0.0569155 | 5 | 0% | 0 | 0 | | N |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|------------|-----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998185 | CCV | ICPMS-6020-W- | CCV | | 1/22/2022 11:48: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.06467 | 0.06467 | | 0.05 | 0 | 0 | 0.00086 | 0.001 | 1 | 129% | 90 | 110 | 0% | S |
| Antimony | A | mg/L | 0.05387 | 0.05387 | | 0.05 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 108% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.05153 | 0.05153 | | 0.05 | 0 | 0 | 0.00019 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.05193 | 0.05193 | | 0.05 | 0 | 0 | 0.000042 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.05462 | 0.05462 | | 0.05 | 0 | 0 | 0.00012 | 0.001 | 1 | 109% | 90 | 110 | 0% | |
| Boron | A | mg/L | 0.05507 | 0.05507 | | 0.05 | 0 | 0 | 0.00561 | 0.00561 | 1 | 110% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.0515 | 0.0515 | | 0.05 | 0 | 0 | 0.000025 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 11.89 | 11.89 | | 12.5 | 0 | 0 | 0.02092 | 0.02092 | 50 | 95% | 90 | 110 | 0% | |
| Cerium | A | mg/L | 0.05022 | 0.05022 | | 0.05 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 100% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.05184 | 0.05184 | | 0.05 | 0 | 0 | 0.00018 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.05435 | 0.05435 | | 0.05 | 0 | 0 | 0.000042 | 0.001 | 1 | 109% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.0542 | 0.0542 | | 0.05 | 0 | 0 | 0.00027 | 0.001 | 1 | 108% | 90 | 110 | 0% | |
| Iron | A | mg/L | 1.269 | 1.269 | | 1.3 | 0 | 0 | 0.00119 | 0.00119 | 5 | 98% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.0509 | 0.0509 | | 0.05 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 102% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.0509 | 0.0509 | | 0.05 | 0 | 0 | 0.000056 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 13.29 | 13.29 | | 12.5 | 0 | 0 | 0.00564 | 0.00564 | 50 | 106% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.05196 | 0.05196 | | 0.05 | 0 | 0 | 0.000095 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.0009767 | 0.0009767 | | 0.001 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 98% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.05405 | 0.05405 | | 0.05 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 108% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.05407 | 0.05407 | | 0.05 | 0 | 0 | 0.00063 | 0.001 | 1 | 108% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 12.31 | 12.31 | | 12.5 | 0 | 0 | 0.08139 | 0.08139 | 50 | 98% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.05141 | 0.05141 | | 0.05 | 0 | 0 | 0.00033 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.2091 | 0.2091 | | 0.2 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 105% | 90 | 110 | 0% | |
| Silver | A | mg/L | 0.02095 | 0.02095 | | 0.02 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 105% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 13.16 | 13.16 | | 12.5 | 0 | 0 | 0.02171 | 0.02171 | 50 | 105% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.04919 | 0.04919 | | 0.05 | 0 | 0 | 0.00014 | 0.001 | 1 | 98% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.04972 | 0.04972 | | 0.05 | 0 | 0 | 0.000041 | 0.001 | 1 | 99% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.05013 | 0.05013 | | 0.05 | 0 | 0 | 0.00061 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.0524 | 0.0524 | | 0.05 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 105% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.05608 | 0.05608 | | 0.05 | 0 | 0 | 0.000094 | 0.001 | 1 | 112% | 90 | 110 | 0% | S |
| Uranium | A | mg/L | 0.05103 | 0.05103 | | 0.05 | 0 | 0 | 0.000052 | 0.0003 | 1 | 102% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.04788 | 0.04788 | | 0.05 | 0 | 0 | 0.0013 | 0.0013 | 1 | 96% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.05512 | 0.05512 | | 0.05 | 0 | 0 | 0.00273 | 0.00273 | 1 | 110% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 1.269 | 1.269 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|-------------|-------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|----|
| 14998186 | CCB | ICPMS-6020-W- | CCB | | 1/22/2022 11:54: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0001636 | 0.0001636 | | 0 | 0 | 0 | 0.00086 | 0.001 | 1 | 0% | | | | 0% |
| Antimony | A | mg/L | 0.0001026 | 0.0001026 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | | | | 0% |
| Arsenic | A | mg/L | -0.00003636 | -0.00003636 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | | | | 0% |
| Barium | A | mg/L | 1.281E-07 | 1.281E-07 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | | | | 0% |
| Beryllium | A | mg/L | 0.00001033 | 0.00001033 | | 0 | 0 | 0 | 0.00012 | 0.001 | 1 | 0% | | | | 0% |
| Boron | A | mg/L | -0.00004675 | -0.00004675 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | | | | 0% |
| Cadmium | A | mg/L | -2.101E-06 | -2.101E-06 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | | | | 0% |
| Calcium | A | mg/L | 0.001829 | 0.001829 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | | | | 0% |
| Cerium | A | mg/L | -6.66E-08 | -6.66E-08 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | | 0% |
| Chromium | A | mg/L | -0.00001648 | -0.00001648 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | | | | 0% |
| Cobalt | A | mg/L | 6.197E-07 | 6.197E-07 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | | | | 0% |
| Copper | A | mg/L | -0.00002517 | -0.00002517 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | | | | 0% |
| Iron | A | mg/L | -0.00002698 | -0.00002698 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | | | | 0% |
| Lanthanum | A | mg/L | -3.496E-08 | -3.496E-08 | | 0 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 0% | 0 | 0 | | 0% |
| Lead | A | mg/L | 0.000002923 | 0.000002923 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | | | | 0% |
| Magnesium | A | mg/L | -0.0005987 | -0.0005987 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | | | | 0% |
| Manganese | A | mg/L | -7.719E-06 | -7.719E-06 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | | | | 0% |
| Mercury | A | mg/L | 0.000003112 | 0.000003112 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | | | | 0% |
| Molybdenum | A | mg/L | -0.00003602 | -0.00003602 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | | | | 0% |
| Nickel | A | mg/L | -7.108E-06 | -7.108E-06 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | | | | 0% |
| Potassium | A | mg/L | 0.01599 | 0.01599 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | | | | 0% |
| Selenium | A | mg/L | -3.943E-06 | -3.943E-06 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | | | | 0% |
| Silicon | A | mg/L | -0.03086 | -0.03086 | | 0 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 0% | 0 | 0 | | 0% |
| Silver | A | mg/L | 0.000004178 | 0.000004178 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | | | | 0% |
| Sodium | A | mg/L | -0.06747 | -0.06747 | | 0 | 0 | 0 | 0.02171 | 0.02171 | 50 | 0% | | | | 0% |
| Strontium | A | mg/L | 0.0000107 | 0.0000107 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Thallium | A | mg/L | 0.00003486 | 0.00003486 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Thorium | A | mg/L | 0.00001453 | 0.00001453 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Tin | A | mg/L | 0.00003146 | 0.00003146 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | | 0% |
| Titanium | A | mg/L | 0.000003878 | 0.000003878 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Uranium | A | mg/L | 0.000002179 | 0.000002179 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | | 0% |
| Vanadium | A | mg/L | -0.002361 | -0.002361 | | 0 | 0 | 0 | 0.0013 | 0.0013 | 1 | 0% | 0 | 0 | | 0% |
| Zinc | A | mg/L | -0.00004441 | -0.00004441 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | | 0% |
| Iron, Ferrous | C | mg/L | -0.00002698 | -0.00002698 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | | 0% |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|---------------|---------------|-------------|-----------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|----|
| 14998187 | B22011124-001 | ICPMS-6020-W- | SAMP | | 1/22/2022 12:01: | 1 | 163063 | 1/19/2022 2: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.00003305 | 0 | | 0 | 0 | 0 | 0.0002799 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Arsenic | A | mg/L | 0.0002479 | 0 | | 0 | 0 | 0 | 0.0003412 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Barium | A | mg/L | 0.003428 | 0.003428 | | 0 | 0 | 0 | 0.0002682 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Beryllium | A | mg/L | 9.293E-07 | 0 | | 0 | 0 | 0 | 0.0001071 | 0.01 | 1 | 0% | 0 | 0 | 0% | U |
| Cadmium | A | mg/L | -0.00000353 | 0 | | 0 | 0 | 0 | 1.821E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | U |
| Cerium | A | mg/L | 0.000003304 | 0 | | 0 | 0 | 0 | 2.738E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Cobalt | A | mg/L | 0.000112 | 0.000112 | | 0 | 0 | 0 | 9.541E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lanthanum | A | mg/L | 0.000001156 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Lead | A | mg/L | 0.00007319 | 0 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Manganese | A | mg/L | 0.001339 | 0.001339 | | 0 | 0 | 0 | 0.0005399 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.001824 | 0.001824 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | |
| Selenium | A | mg/L | 0.0002189 | 0.0002189 | | 0 | 0 | 0 | 0.0001357 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Silver | A | mg/L | -0.00005737 | 0 | | 0 | 0 | 0 | 4.281E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Strontium | A | mg/L | 0.06546 | 0.06546 | | 0 | 0 | 0 | 0.0002433 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.00007288 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Uranium | A | mg/L | 0.0000106 | 0 | | 0 | 0 | 0 | 1.699E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | U |
| Boron | B | mg/L | 0.06701 | 0.06701 | | 0 | 0 | 0 | 0.0203802 | 0.01467 | 1 | 0% | 0 | 0 | 0% | D |
| Calcium | B | mg/L | 9.356 | 9.356 | | 0 | 0 | 0 | 0.0372936 | 0.1103481 | 50 | 0% | 0 | 0 | 0% | D |
| Chromium | B | mg/L | 0.002371 | 0.002371 | | 0 | 0 | 0 | 0.0015375 | 0.0015375 | 1 | 0% | 0 | 0 | 0% | UD |
| Copper | B | mg/L | 0.0003883 | 0 | | 0 | 0 | 0 | 0.0008747 | 0.00198 | 1 | 0% | 0 | 0 | 0% | UL |
| Iron | B | mg/L | 0.01515 | 0.01515 | | 0 | 0 | 0 | 0.007424 | 0.00513 | 5 | 0% | 0 | 0 | 0% | UD |
| Magnesium | B | mg/L | 11.56 | 11.56 | | 0 | 0 | 0 | 0.0104254 | 0.0081522 | 50 | 0% | 0 | 0 | 0% | D |
| Nickel | B | mg/L | 0.002082 | 0.002082 | | 0 | 0 | 0 | 0.0002288 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | JL |
| Potassium | B | mg/L | 1.885 | 1.885 | | 0 | 0 | 0 | 0.0765619 | 0.0261205 | 50 | 0% | 0 | 0 | 0% | D |
| Sodium | B | mg/L | 38.72 | 38.72 | | 0 | 0 | 0 | 0.1019461 | 0.7330269 | 50 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | 0.00004653 | 0 | | 0 | 0 | 0 | 0.0003796 | 0.00415 | 1 | 0% | 0 | 0 | 0% | UL |
| Tin | B | mg/L | 0.0004321 | 0 | | 0 | 0 | 0 | 0.0018932 | 0.0011175 | 0.1 | 0% | 0 | 0 | 0% | U |
| Vanadium | B | mg/L | 0.01988 | 0.01988 | | 0 | 0 | 0 | 0.0039127 | 0.0021085 | 1 | 0% | 0 | 0 | 0% | D |
| Zinc | B | mg/L | 0.006534 | 0.006534 | | 0 | 0 | 0 | 0.0011617 | 0.0065544 | 1 | 0% | 0 | 0 | 0% | JL |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|---------------|---------------|------------|---------|------------------|-------|----------|--------------|--------|--------|--------|------|-----|------|------|---|
| 14998188 | B22011134-001 | ICPMS-6020-W- | SAMP | | 1/22/2022 12:07: | 1 | 163063 | 1/19/2022 3: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------|---------------|---------------|-------------|------------|------------------|-------|----------|--------------|-----------|-----------|--------|------|-----|------|------|----|
| 14998188 | B22011134-001 | ICPMS-6020-W- | SAMP | | 1/22/2022 12:07: | 1 | 163063 | 1/19/2022 3: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Antimony | A | mg/L | 0.0001278 | 0 | | 0 | 0 | 0 | 0.0002799 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Arsenic | A | mg/L | 0.001157 | 0.001157 | | 0 | 0 | 0 | 0.0003412 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Barium | A | mg/L | 0.004228 | 0.004228 | | 0 | 0 | 0 | 0.0002682 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Beryllium | A | mg/L | -1.728E-06 | 0 | | 0 | 0 | 0 | 0.0001071 | 0.01 | 1 | 0% | 0 | 0 | 0% | U |
| Cadmium | A | mg/L | -1.091E-06 | 0 | | 0 | 0 | 0 | 1.821E-05 | 0.005 | 1 | 0% | 0 | 0 | 0% | U |
| Cerium | A | mg/L | 0.00006245 | 0.00006245 | | 0 | 0 | 0 | 2.738E-05 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Cobalt | A | mg/L | 0.0005432 | 0.0005432 | | 0 | 0 | 0 | 9.541E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | J |
| Lanthanum | A | mg/L | 0.00001473 | 0 | | 0 | 0 | 0 | 0.000055 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | U |
| Lead | A | mg/L | 0.00006409 | 0 | | 0 | 0 | 0 | 7.716E-05 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Manganese | A | mg/L | 0.5162 | 0.5162 | | 0 | 0 | 0 | 0.0005399 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Molybdenum | A | mg/L | 0.0005146 | 0.0005146 | | 0 | 0 | 0 | 0.0001763 | 0.001 | 0.1 | 0% | 0 | 0 | 0% | J |
| Selenium | A | mg/L | 0.00003522 | 0 | | 0 | 0 | 0 | 0.0001357 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Silver | A | mg/L | -0.00004646 | 0 | | 0 | 0 | 0 | 4.281E-05 | 0.001 | 0.04 | 0% | 0 | 0 | 0% | U |
| Strontium | A | mg/L | 0.07379 | 0.07379 | | 0 | 0 | 0 | 0.0002433 | 0.001 | 1 | 0% | 0 | 0 | 0% | |
| Thallium | A | mg/L | 0.0000364 | 0 | | 0 | 0 | 0 | 0.0001114 | 0.001 | 1 | 0% | 0 | 0 | 0% | U |
| Uranium | A | mg/L | 0.00001733 | 0.00001733 | | 0 | 0 | 0 | 1.699E-05 | 0.0003 | 1 | 0% | 0 | 0 | 0% | J |
| Boron | B | mg/L | 0.06868 | 0.06868 | | 0 | 0 | 0 | 0.0203802 | 0.01467 | 1 | 0% | 0 | 0 | 0% | D |
| Calcium | B | mg/L | 10.05 | 10.05 | | 0 | 0 | 0 | 0.0372936 | 0.1103481 | 50 | 0% | 0 | 0 | 0% | D |
| Chromium | B | mg/L | 0.0001915 | 0 | | 0 | 0 | 0 | 0.0015375 | 0.0015375 | 1 | 0% | 0 | 0 | 0% | UL |
| Copper | B | mg/L | 0.0008274 | 0 | | 0 | 0 | 0 | 0.0008747 | 0.00198 | 1 | 0% | 0 | 0 | 0% | UL |
| Iron | B | mg/L | 0.405 | 0.405 | | 0 | 0 | 0 | 0.007424 | 0.00513 | 5 | 0% | 0 | 0 | 0% | D |
| Magnesium | B | mg/L | 10.39 | 10.39 | | 0 | 0 | 0 | 0.0104254 | 0.0081522 | 50 | 0% | 0 | 0 | 0% | D |
| Nickel | B | mg/L | 0.001057 | 0.001057 | | 0 | 0 | 0 | 0.0002288 | 0.0024200 | 1 | 0% | 0 | 0 | 0% | JL |
| Potassium | B | mg/L | 2.067 | 2.067 | | 0 | 0 | 0 | 0.0765619 | 0.0261205 | 50 | 0% | 0 | 0 | 0% | D |
| Sodium | B | mg/L | 40.34 | 40.34 | | 0 | 0 | 0 | 0.1019461 | 0.7330269 | 50 | 0% | 0 | 0 | 0% | D |
| Thorium | B | mg/L | 0.00001609 | 0 | | 0 | 0 | 0 | 0.0003796 | 0.00415 | 1 | 0% | 0 | 0 | 0% | UL |
| Tin | B | mg/L | 0.0004745 | 0 | | 0 | 0 | 0 | 0.0018932 | 0.0011175 | 0.1 | 0% | 0 | 0 | 0% | U |
| Vanadium | B | mg/L | 0.00112 | 0 | | 0 | 0 | 0 | 0.0039127 | 0.0021085 | 1 | 0% | 0 | 0 | 0% | UL |
| Zinc | B | mg/L | 0.001422 | 0.001422 | | 0 | 0 | 0 | 0.0011617 | 0.0065544 | 1 | 0% | 0 | 0 | 0% | JL |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|--------|---------------|------------|---------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14998189 | CCV | ICPMS-6020-W- | CCV | | 1/22/2022 12:13: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|------------|-----------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|---|
| 14998189 | CCV | ICPMS-6020-W- | CCV | | 1/22/2022 12:13: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.06135 | 0.06135 | | 0.05 | 0 | 0 | 0.00086 | 0.001 | 1 | 123% | 90 | 110 | 0% | S |
| Antimony | A | mg/L | 0.05307 | 0.05307 | | 0.05 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 106% | 90 | 110 | 0% | |
| Arsenic | A | mg/L | 0.05128 | 0.05128 | | 0.05 | 0 | 0 | 0.00019 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Barium | A | mg/L | 0.05106 | 0.05106 | | 0.05 | 0 | 0 | 0.000042 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Beryllium | A | mg/L | 0.04992 | 0.04992 | | 0.05 | 0 | 0 | 0.00012 | 0.001 | 1 | 100% | 90 | 110 | 0% | |
| Boron | A | mg/L | 0.05103 | 0.05103 | | 0.05 | 0 | 0 | 0.00561 | 0.00561 | 1 | 102% | 90 | 110 | 0% | |
| Cadmium | A | mg/L | 0.05063 | 0.05063 | | 0.05 | 0 | 0 | 0.000025 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Calcium | A | mg/L | 12.06 | 12.06 | | 12.5 | 0 | 0 | 0.02092 | 0.02092 | 50 | 96% | 90 | 110 | 0% | |
| Cerium | A | mg/L | 0.04968 | 0.04968 | | 0.05 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 99% | 90 | 110 | 0% | |
| Chromium | A | mg/L | 0.05172 | 0.05172 | | 0.05 | 0 | 0 | 0.00018 | 0.001 | 1 | 103% | 90 | 110 | 0% | |
| Cobalt | A | mg/L | 0.05193 | 0.05193 | | 0.05 | 0 | 0 | 0.000042 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Copper | A | mg/L | 0.0531 | 0.0531 | | 0.05 | 0 | 0 | 0.00027 | 0.001 | 1 | 106% | 90 | 110 | 0% | |
| Iron | A | mg/L | 1.267 | 1.267 | | 1.3 | 0 | 0 | 0.00119 | 0.00119 | 5 | 97% | 90 | 110 | 0% | |
| Lanthanum | A | mg/L | 0.04991 | 0.04991 | | 0.05 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 100% | 90 | 110 | 0% | |
| Lead | A | mg/L | 0.05031 | 0.05031 | | 0.05 | 0 | 0 | 0.000056 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Magnesium | A | mg/L | 12.67 | 12.67 | | 12.5 | 0 | 0 | 0.00564 | 0.00564 | 50 | 101% | 90 | 110 | 0% | |
| Manganese | A | mg/L | 0.05106 | 0.05106 | | 0.05 | 0 | 0 | 0.000095 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Mercury | A | mg/L | 0.0009847 | 0.0009847 | | 0.001 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 98% | 90 | 110 | 0% | |
| Molybdenum | A | mg/L | 0.0532 | 0.0532 | | 0.05 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 106% | 90 | 110 | 0% | |
| Nickel | A | mg/L | 0.05377 | 0.05377 | | 0.05 | 0 | 0 | 0.00063 | 0.001 | 1 | 108% | 90 | 110 | 0% | |
| Potassium | A | mg/L | 11.95 | 11.95 | | 12.5 | 0 | 0 | 0.08139 | 0.08139 | 50 | 96% | 90 | 110 | 0% | |
| Selenium | A | mg/L | 0.05193 | 0.05193 | | 0.05 | 0 | 0 | 0.00033 | 0.001 | 1 | 104% | 90 | 110 | 0% | |
| Silicon | A | mg/L | 0.2488 | 0.2488 | | 0.2 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 124% | 90 | 110 | 0% | S |
| Silver | A | mg/L | 0.02057 | 0.02057 | | 0.02 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 103% | 90 | 110 | 0% | |
| Sodium | A | mg/L | 12.76 | 12.76 | | 12.5 | 0 | 0 | 0.02171 | 0.02171 | 50 | 102% | 90 | 110 | 0% | |
| Strontium | A | mg/L | 0.05029 | 0.05029 | | 0.05 | 0 | 0 | 0.00014 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Thallium | A | mg/L | 0.05028 | 0.05028 | | 0.05 | 0 | 0 | 0.000041 | 0.001 | 1 | 101% | 90 | 110 | 0% | |
| Thorium | A | mg/L | 0.05077 | 0.05077 | | 0.05 | 0 | 0 | 0.00061 | 0.001 | 1 | 102% | 90 | 110 | 0% | |
| Tin | A | mg/L | 0.05263 | 0.05263 | | 0.05 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 105% | 90 | 110 | 0% | |
| Titanium | A | mg/L | 0.05481 | 0.05481 | | 0.05 | 0 | 0 | 0.000094 | 0.001 | 1 | 110% | 90 | 110 | 0% | |
| Uranium | A | mg/L | 0.05059 | 0.05059 | | 0.05 | 0 | 0 | 0.000052 | 0.0003 | 1 | 101% | 90 | 110 | 0% | |
| Vanadium | A | mg/L | 0.04812 | 0.04812 | | 0.05 | 0 | 0 | 0.0013 | 0.0013 | 1 | 96% | 90 | 110 | 0% | |
| Zinc | A | mg/L | 0.05452 | 0.05452 | | 0.05 | 0 | 0 | 0.00273 | 0.00273 | 1 | 109% | 90 | 110 | 0% | |
| Iron, Ferrous | C | mg/L | 1.267 | 1.267 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|---------------|--------|---------------|-------------|-------------|------------------|-------|----------|-----------|----------|---------|--------|------|-----|------|------|----|
| 14998190 | CCB | ICPMS-6020-W- | CCB | | 1/22/2022 12:19: | 1 | R373694 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Aluminum | A | mg/L | 0.0001175 | 0.0001175 | | 0 | 0 | 0 | 0.00086 | 0.001 | 1 | 0% | | | | 0% |
| Antimony | A | mg/L | 0.0001093 | 0.0001093 | | 0 | 0 | 0 | 0.00042 | 0.001 | 0.1 | 0% | | | | 0% |
| Arsenic | A | mg/L | -0.00002836 | -0.00002836 | | 0 | 0 | 0 | 0.00019 | 0.001 | 1 | 0% | | | | 0% |
| Barium | A | mg/L | 0.000003581 | 0.000003581 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | | | | 0% |
| Beryllium | A | mg/L | -1.192E-06 | -1.192E-06 | | 0 | 0 | 0 | 0.00012 | 0.001 | 1 | 0% | | | | 0% |
| Boron | A | mg/L | -0.00001112 | -0.00001112 | | 0 | 0 | 0 | 0.00561 | 0.00561 | 1 | 0% | | | | 0% |
| Cadmium | A | mg/L | 0.000004876 | 0.000004876 | | 0 | 0 | 0 | 0.000025 | 0.001 | 1 | 0% | | | | 0% |
| Calcium | A | mg/L | 0.001222 | 0.001222 | | 0 | 0 | 0 | 0.02092 | 0.02092 | 50 | 0% | | | | 0% |
| Cerium | A | mg/L | 4.144E-07 | 4.144E-07 | | 0 | 0 | 0 | 0.000012 | 0.001 | 0.1 | 0% | 0 | 0 | | 0% |
| Chromium | A | mg/L | -0.00001402 | -0.00001402 | | 0 | 0 | 0 | 0.00018 | 0.001 | 1 | 0% | | | | 0% |
| Cobalt | A | mg/L | -2.215E-06 | -2.215E-06 | | 0 | 0 | 0 | 0.000042 | 0.001 | 1 | 0% | | | | 0% |
| Copper | A | mg/L | -0.0000191 | -0.0000191 | | 0 | 0 | 0 | 0.00027 | 0.001 | 1 | 0% | | | | 0% |
| Iron | A | mg/L | -0.00003237 | -0.00003237 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | | | | 0% |
| Lanthanum | A | mg/L | 0.00000023 | 0.00000023 | | 0 | 0 | 0 | 0.000011 | 0.001 | 0.1 | 0% | 0 | 0 | | 0% |
| Lead | A | mg/L | 0.000007524 | 0.000007524 | | 0 | 0 | 0 | 0.000056 | 0.001 | 1 | 0% | | | | 0% |
| Magnesium | A | mg/L | -0.0002421 | -0.0002421 | | 0 | 0 | 0 | 0.00564 | 0.00564 | 50 | 0% | | | | 0% |
| Manganese | A | mg/L | 0.000003546 | 0.000003546 | | 0 | 0 | 0 | 0.000095 | 0.001 | 1 | 0% | | | | 0% |
| Mercury | A | mg/L | 0.000003758 | 0.000003758 | | 0 | 0 | 0 | 0.00016 | 0.001 | 0.002 | 0% | | | | 0% |
| Molybdenum | A | mg/L | -0.00003272 | -0.00003272 | | 0 | 0 | 0 | 0.00005 | 0.001 | 0.1 | 0% | | | | 0% |
| Nickel | A | mg/L | 0.000001484 | 0.000001484 | | 0 | 0 | 0 | 0.00063 | 0.001 | 1 | 0% | | | | 0% |
| Potassium | A | mg/L | 0.008998 | 0.008998 | | 0 | 0 | 0 | 0.08139 | 0.08139 | 50 | 0% | | | | 0% |
| Selenium | A | mg/L | 0.00001062 | 0.00001062 | | 0 | 0 | 0 | 0.00033 | 0.001 | 1 | 0% | | | | 0% |
| Silicon | A | mg/L | -0.0126 | -0.0126 | | 0 | 0 | 0 | 0.01223 | 0.1 | 0.4 | 0% | 0 | 0 | | 0% |
| Silver | A | mg/L | 0.000003964 | 0.000003964 | | 0 | 0 | 0 | 0.00002 | 0.001 | 0.04 | 0% | | | | 0% |
| Sodium | A | mg/L | -0.05567 | -0.05567 | | 0 | 0 | 0 | 0.02171 | 0.02171 | 50 | 0% | | | | 0% |
| Strontium | A | mg/L | 0.00001031 | 0.00001031 | | 0 | 0 | 0 | 0.00014 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Thallium | A | mg/L | 0.00003925 | 0.00003925 | | 0 | 0 | 0 | 0.000041 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Thorium | A | mg/L | 0.00001515 | 0.00001515 | | 0 | 0 | 0 | 0.00061 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Tin | A | mg/L | 0.00004689 | 0.00004689 | | 0 | 0 | 0 | 0.00132 | 0.00132 | 0.1 | 0% | 0 | 0 | | 0% |
| Titanium | A | mg/L | 0.00002609 | 0.00002609 | | 0 | 0 | 0 | 0.000094 | 0.001 | 1 | 0% | 0 | 0 | | 0% |
| Uranium | A | mg/L | 0.000002044 | 0.000002044 | | 0 | 0 | 0 | 0.000052 | 0.0003 | 1 | 0% | 0 | 0 | | 0% |
| Vanadium | A | mg/L | -0.001756 | -0.001756 | | 0 | 0 | 0 | 0.0013 | 0.0013 | 1 | 0% | 0 | 0 | | 0% |
| Zinc | A | mg/L | 0.00003426 | 0.00003426 | | 0 | 0 | 0 | 0.00273 | 0.00273 | 1 | 0% | 0 | 0 | | 0% |
| Iron, Ferrous | C | mg/L | -0.00003237 | -0.00003237 | | 0 | 0 | 0 | 0.00119 | 0.00119 | 5 | 0% | 0 | 0 | | 0% |

Batch Summary Report

Batch Folder: D:\Agilent\ICPMH1\DATA\220121ADoD.b\
 Analysis File: 220121ADoD.batch.bin
 Tune Step: #1 No Gas
 #2 H2
 #3 He

| | Rjct | Acq. Date-Time | Data File | Sample Name | Type | Level | Dilution |
|----|------|---------------------|------------|----------------|---------|-------|----------|
| 1 | | 2022-01-21 14:08:28 | 001BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 2 | | 2022-01-21 14:14:42 | 002BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 3 | | 2022-01-21 14:20:56 | 003BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 4 | | 2022-01-21 14:27:10 | 004CALB.d | Cal Blk | CalBlk | 1 | 1.0000 |
| 5 | | 2022-01-21 14:34:36 | 005CAL.S.d | 0.025 ppb STD | CalStd | 2 | 1.0000 |
| 6 | | 2022-01-21 14:41:15 | 006CAL.S.d | 0.05 ppb STD | CalStd | 3 | 1.0000 |
| 7 | | 2022-01-21 14:47:54 | 007CAL.S.d | 0.10 ppb STD | CalStd | 4 | 1.0000 |
| 8 | | 2022-01-21 14:54:32 | 008CAL.S.d | 0.5 ppb STD | CalStd | 5 | 1.0000 |
| 9 | | 2022-01-21 15:01:11 | 009CAL.S.d | 1 ppb STD | CalStd | 6 | 1.0000 |
| 10 | | 2022-01-21 16:59:11 | 011BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 11 | | 2022-01-21 17:05:30 | 012CAL.S.d | 10 ppb STD | CalStd | 7 | 1.0000 |
| 12 | | 2022-01-21 17:13:20 | 013BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 13 | | 2022-01-21 17:19:33 | 014CALB.d | Cal Blk | CalBlk | 1 | 1.0000 |
| 14 | | 2022-01-21 17:26:12 | 015CAL.S.d | 0.025 ppb STD | CalStd | 2 | 1.0000 |
| 15 | | 2022-01-21 17:32:50 | 016CAL.S.d | 0.05 ppb STD | CalStd | 3 | 1.0000 |
| 16 | | 2022-01-21 17:39:27 | 017CAL.S.d | 0.10 ppb STD | CalStd | 4 | 1.0000 |
| 17 | | 2022-01-21 17:46:06 | 018CAL.S.d | 0.5 ppb STD | CalStd | 5 | 1.0000 |
| 18 | | 2022-01-21 17:52:44 | 019CAL.S.d | 1 ppb STD | CalStd | 6 | 1.0000 |
| 19 | | 2022-01-21 17:59:22 | 020CAL.S.d | 10 ppb STD | CalStd | 7 | 1.0000 |
| 20 | | 2022-01-21 18:06:00 | 021CAL.S.d | 50 ppb STD | CalStd | 8 | 1.0000 |
| 21 | | 2022-01-21 18:12:35 | 022CAL.S.d | 100 ppb STD | CalStd | 9 | 1.0000 |
| 22 | On | 2022-01-21 18:19:05 | 023CAL.S.d | 1000 ppb STD | CalStd | 10 | 1.0000 |
| 23 | | 2022-01-21 18:25:33 | 024CAL.S.d | 100 ppb Br STD | CalStd | 11 | 1.0000 |
| 24 | | 2022-01-21 18:31:55 | 025BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 25 | | 2022-01-21 18:38:09 | 026_QC1.d | QCS | QC1 | | 1.0000 |

Batch Summary Report

| | Rjct | Acq. Date-Time | Data File | Sample Name | Type | Level | Dilution |
|----|------|---------------------|-----------|--------------------|---------|-------|----------|
| 26 | | 2022-01-21 18:44:23 | 027_CCV.d | CCV | CCV | | 1.0000 |
| 27 | | 2022-01-21 18:50:38 | 028_CCB.d | CCB | CCB | | 1.0000 |
| 28 | | 2022-01-21 18:56:53 | 029BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 29 | | 2022-01-21 19:03:09 | 030MBLK.d | LRB | MBLK | | 1.0000 |
| 30 | | 2022-01-21 19:09:24 | 031_LFB.d | LFB | LFB | | 1.0300 |
| 31 | | 2022-01-21 19:15:40 | 032ICSA.d | ICSA | ICSA | | 1.0000 |
| 32 | | 2022-01-21 19:21:57 | 033ICSB.d | ICSAB | ICSAB | | 1.0000 |
| 33 | | 2022-01-21 19:28:14 | 034BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 34 | | 2022-01-21 19:34:27 | 035BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 35 | | 2022-01-21 19:40:40 | 036_CCV.d | CCV | CCV | | 1.0000 |
| 36 | | 2022-01-21 19:46:55 | 037_CCB.d | CCB | CCB | | 1.0000 |
| 37 | | 2022-01-21 19:53:09 | 038BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 38 | | 2022-01-21 19:59:24 | 039ARef.d | MB-163063 | AllRef | | 1.0000 |
| 39 | | 2022-01-21 20:05:39 | 040ARef.d | MB-163116 | AllRef | | 1.0000 |
| 40 | | 2022-01-21 20:11:53 | 041LCS4.d | LCS4-163063 | LCS4 | | 1.0000 |
| 41 | | 2022-01-21 20:18:08 | 042LCS4.d | LCS4-163116 | LCS4 | | 1.0000 |
| 42 | | 2022-01-21 20:24:22 | 043BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 43 | | 2022-01-21 20:30:36 | 044SMPL.d | B22011124-001A | Sample | | 1.0000 |
| 44 | | 2022-01-21 20:36:50 | 045ARef.d | B22011124-001ADIL | AllRef | | 5.0000 |
| 45 | | 2022-01-21 20:43:05 | 046MS.d | B22011124-001AMS | MS | | 1.0300 |
| 46 | | 2022-01-21 20:49:19 | 047MSD.d | B22011124-001AMSD | MSD | | 1.0300 |
| 47 | | 2022-01-21 20:55:33 | 048BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 48 | | 2022-01-21 21:01:46 | 049SMPL.d | B22011124-001B | Sample | | 1.0000 |
| 49 | | 2022-01-21 21:08:00 | 050ARef.d | B22011124-001BDIL | AllRef | | 5.0000 |
| 50 | | 2022-01-21 21:14:14 | 051_CCV.d | CCV | CCV | | 1.0000 |
| 51 | | 2022-01-21 21:20:28 | 052_CCB.d | CCB | CCB | | 1.0000 |
| 52 | | 2022-01-21 21:26:42 | 053SMPL.d | B22011124-001BPDS1 | Sample | | 1.0300 |
| 53 | | 2022-01-21 21:32:56 | 054MS4.d | B22011124-001BMS4 | MS4 | | 1.0000 |
| 54 | | 2022-01-21 21:39:10 | 055MSD4.d | B22011124-001BMSD4 | MSD4 | | 1.0000 |
| 55 | | 2022-01-21 21:45:24 | 056BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 56 | | 2022-01-21 21:51:37 | 057SMPL.d | B22011125-001A | Sample | | 1.0000 |
| 57 | | 2022-01-21 21:57:52 | 058SMPL.d | B22011125-001B | Sample | | 1.0000 |

Batch Summary Report

| | Rjct | Acq. Date-Time | Data File | Sample Name | Type | Level | Dilution |
|----|------|---------------------|-----------|--------------------|---------|-------|----------|
| 58 | | 2022-01-21 22:04:07 | 059SMPL.d | B22011126-001A | Sample | | 1.0000 |
| 59 | | 2022-01-21 22:10:23 | 060SMPL.d | B22011126-001B | Sample | | 1.0000 |
| 60 | | 2022-01-21 22:16:39 | 061SMPL.d | B22011127-001A | Sample | | 1.0000 |
| 61 | | 2022-01-21 22:22:54 | 062SMPL.d | B22011127-001B | Sample | | 1.0000 |
| 62 | | 2022-01-21 22:29:09 | 063SMPL.d | B22011128-001A | Sample | | 1.0000 |
| 63 | | 2022-01-21 22:35:25 | 064_CCV.d | CCV | CCV | | 1.0000 |
| 64 | | 2022-01-21 22:41:39 | 065_CCB.d | CCB | CCB | | 1.0000 |
| 65 | | 2022-01-21 22:47:53 | 066SMPL.d | B22011128-001B | Sample | | 1.0000 |
| 66 | | 2022-01-21 22:54:08 | 067SMPL.d | B22011129-001A | Sample | | 1.0000 |
| 67 | | 2022-01-21 23:00:24 | 068SMPL.d | B22011129-001B | Sample | | 1.0000 |
| 68 | | 2022-01-21 23:06:38 | 069SMPL.d | B22011130-001A | Sample | | 1.0000 |
| 69 | | 2022-01-21 23:12:53 | 070SMPL.d | B22011130-001B | Sample | | 1.0000 |
| 70 | | 2022-01-21 23:19:07 | 071SMPL.d | B22011131-001A | Sample | | 1.0000 |
| 71 | | 2022-01-21 23:25:21 | 072SMPL.d | B22011131-001B | Sample | | 1.0000 |
| 72 | | 2022-01-21 23:31:35 | 073SMPL.d | B22011132-001A | Sample | | 1.0000 |
| 73 | | 2022-01-21 23:37:50 | 074SMPL.d | B22011132-001B | Sample | | 1.0000 |
| 74 | | 2022-01-21 23:44:04 | 075SMPL.d | B22011133-001A | Sample | | 1.0000 |
| 75 | | 2022-01-21 23:50:18 | 076_CCV.d | CCV | CCV | | 1.0000 |
| 76 | | 2022-01-21 23:56:33 | 077_CCB.d | CCB | CCB | | 1.0000 |
| 77 | | 2022-01-22 00:02:48 | 078SMPL.d | B22011133-001B | Sample | | 1.0000 |
| 78 | | 2022-01-22 00:09:03 | 079SMPL.d | B22011134-001A | Sample | | 1.0000 |
| 79 | | 2022-01-22 00:15:19 | 080SMPL.d | B22011134-001B | Sample | | 1.0000 |
| 80 | | 2022-01-22 00:21:34 | 081ARef.d | B22011134-001BDIL | AllRef | | 5.0000 |
| 81 | | 2022-01-22 00:27:49 | 082SMPL.d | B22011134-001BPDS1 | Sample | | 1.0300 |
| 82 | | 2022-01-22 00:34:03 | 083MS4.d | B22011134-001BMS4 | MS4 | | 1.0000 |
| 83 | | 2022-01-22 00:40:17 | 084MSD4.d | B22011134-001BMSD4 | MSD4 | | 1.0000 |
| 84 | | 2022-01-22 00:46:31 | 085BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 85 | | 2022-01-22 00:52:45 | 086SMPL.d | B22011135-001A | Sample | | 1.0000 |
| 86 | | 2022-01-22 00:59:00 | 087SMPL.d | B22011135-001B | Sample | | 1.0000 |
| 87 | | 2022-01-22 01:05:15 | 088SMPL.d | B22011136-001A | Sample | | 1.0000 |
| 88 | | 2022-01-22 01:11:29 | 089_CCV.d | CCV | CCV | | 1.0000 |
| 89 | | 2022-01-22 01:17:44 | 090_CCB.d | CCB | CCB | | 1.0000 |

Batch Summary Report

| | Rjct | Acq. Date-Time | Data File | Sample Name | Type | Level | Dilution |
|-----|------|---------------------|------------|--------------------|---------|-------|----------|
| 90 | | 2022-01-22 01:23:59 | 091SMPL.d | B22011136-001B | Sample | | 1.0000 |
| 91 | | 2022-01-22 01:30:13 | 092SMPL.d | B22011137-001A | Sample | | 1.0000 |
| 92 | | 2022-01-22 01:36:28 | 093SMPL.d | B22011137-001B | Sample | | 1.0000 |
| 93 | | 2022-01-22 01:42:42 | 094SMPL.d | B22011214-001A | Sample | | 1.0000 |
| 94 | | 2022-01-22 01:48:57 | 095SMPL.d | B22011214-001B | Sample | | 1.0000 |
| 95 | | 2022-01-22 01:55:13 | 096SMPL.d | B22011214-001BDIL | Sample | | 5.0000 |
| 96 | | 2022-01-22 02:01:28 | 097ARef.d | B22011214-001BPDS1 | AllRef | | 1.0300 |
| 97 | | 2022-01-22 02:07:43 | 098MS4.d | B22011214-001BMS4 | MS4 | | 1.0000 |
| 98 | | 2022-01-22 02:13:58 | 099MSD4.d | B22011214-001BMSD4 | MSD4 | | 1.0000 |
| 99 | | 2022-01-22 02:20:12 | 100BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 100 | | 2022-01-22 02:26:26 | 101SMPL.d | B22011227-001A | Sample | | 1.0000 |
| 101 | | 2022-01-22 02:32:41 | 102_CCV.d | CCV | CCV | | 1.0000 |
| 102 | | 2022-01-22 02:38:55 | 103_CCB.d | CCB | CCB | | 1.0000 |
| 103 | | 2022-01-22 02:45:10 | 104SMPL.d | B22011227-001B | Sample | | 1.0000 |
| 104 | | 2022-01-22 02:51:25 | 105SMPL.d | B22011228-001A | Sample | | 1.0000 |
| 105 | | 2022-01-22 02:57:39 | 106SMPL.d | B22011228-001B | Sample | | 1.0000 |
| 106 | | 2022-01-22 03:03:53 | 107BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 107 | | 2022-01-22 03:10:06 | 108_CCV.d | CCV | CCV | | 1.0000 |
| 108 | | 2022-01-22 03:16:21 | 109_CCB.d | CCB | CCB | | 1.0000 |
| 109 | | 2022-01-22 03:22:35 | 110CALB.d | Cal Blk | CalBlk | 1 | 1.0000 |
| 110 | | 2022-01-22 03:28:57 | 111CAL.S.d | 0.025 ppb STD | CalStd | 2 | 1.0000 |
| 111 | | 2022-01-22 03:35:18 | 112CAL.S.d | 0.05 ppb STD | CalStd | 3 | 1.0000 |
| 112 | | 2022-01-22 03:41:39 | 113CAL.S.d | 0.10 ppb STD | CalStd | 4 | 1.0000 |
| 113 | | 2022-01-22 03:48:00 | 114CAL.S.d | 0.5 ppb STD | CalStd | 5 | 1.0000 |
| 114 | | 2022-01-22 03:54:21 | 115CAL.S.d | 1 ppb STD | CalStd | 6 | 1.0000 |
| 115 | | 2022-01-22 04:00:43 | 116CAL.S.d | 10 ppb STD | CalStd | 7 | 1.0000 |
| 116 | | 2022-01-22 04:07:04 | 117CAL.S.d | 50 ppb STD | CalStd | 8 | 1.0000 |
| 117 | | 2022-01-22 04:13:24 | 118CAL.S.d | 100 ppb STD | CalStd | 9 | 1.0000 |
| 118 | | 2022-01-22 04:19:46 | 119CAL.S.d | 1000 ppb STD | CalStd | 10 | 1.0000 |
| 119 | | 2022-01-22 04:26:09 | 120CAL.S.d | 100 ppb Br STD | CalStd | 11 | 1.0000 |
| 120 | | 2022-01-22 04:32:29 | 121BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 121 | | 2022-01-22 04:38:44 | 122_QC1.d | QCS | QC1 | | 1.0000 |

Batch Summary Report

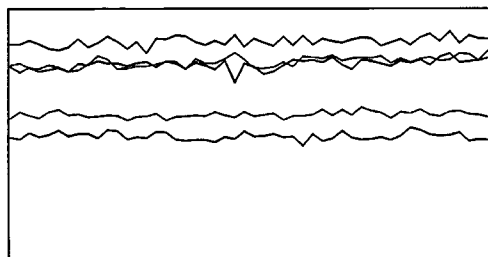
| | Rjct | Acq. Date-Time | Data File | Sample Name | Type | Level | Dilution |
|-----|------|---------------------|-----------|-------------------|---------|-------|----------|
| 122 | | 2022-01-22 04:44:59 | 123ICSA.d | ICSA | ICSA | | 1.0000 |
| 123 | | 2022-01-22 04:51:16 | 124ICSB.d | ICSAB | ICSAB | | 1.0000 |
| 124 | | 2022-01-22 04:57:33 | 125BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 125 | | 2022-01-22 05:03:46 | 126_CCV.d | CCV | CCV | | 1.0000 |
| 126 | | 2022-01-22 05:10:00 | 127_CCB.d | CCB | CCB | | 1.0000 |
| 127 | | 2022-01-22 11:11:16 | 128BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 128 | | 2022-01-22 11:17:29 | 129_CCV.d | CCV | CCV | | 1.0000 |
| 129 | | 2022-01-22 11:23:44 | 130_CCB.d | CCB | CCB | | 1.0000 |
| 130 | | 2022-01-22 11:29:58 | 131BLKV.d | Rinse | BlkVrfy | | 1.0000 |
| 131 | | 2022-01-22 11:36:13 | 132ARef.d | B22011134-001BDIL | AllRef | | 5.0000 |
| 132 | | 2022-01-22 11:42:26 | 133ARef.d | B22011124-001BDIL | AllRef | | 5.0000 |
| 133 | | 2022-01-22 11:48:40 | 134_CCV.d | CCV | CCV | | 1.0000 |
| 134 | | 2022-01-22 11:54:55 | 135_CCB.d | CCB | CCB | | 1.0000 |
| 135 | | 2022-01-22 12:01:10 | 136SMPL.d | B22011124-001B | Sample | | 1.0000 |
| 136 | | 2022-01-22 12:07:24 | 137SMPL.d | B22011134-001B | Sample | | 1.0000 |
| 137 | | 2022-01-22 12:13:39 | 138_CCV.d | CCV | CCV | | 1.0000 |
| 138 | | 2022-01-22 12:19:53 | 139_CCB.d | CCB | CCB | | 1.0000 |

Tune Report

Operator Name elim
 Acq/Data Batch D:\Agilent\ICPMH\1\DATA\220121ADoD.b
 Acq. Date-Time 2022-01-21 13:25:53
 Report Comment ICPMS207-B CAR
 Instrument Name G8403A JP17281923

[No Gas]

Sensitivity



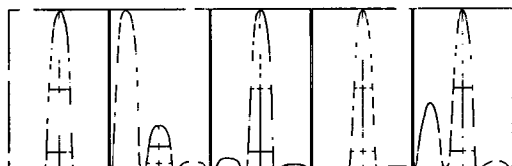
| Mass | Range | Count | RSD% | Background |
|------|--------|--------|-------|------------|
| 9 | 500000 | 246429 | 2.966 | 3.600 |
| 24 | 100000 | 57816 | 2.007 | 2.300 |
| 59 | 100000 | 87288 | 2.139 | 1.300 |
| 115 | 100000 | 78993 | 2.454 | 1.700 |
| 208 | 50000 | 39039 | 2.763 | 4.900 |

Sampling Period [sec] 0.514
 Integration Time [sec] 0.1

Oxide/Doubly Charged Ratio

Oxide 156 / 140 1.045 %
 Doubly Charged 70 / 140 0.887 %

Resolution/Axis



| Mass | Peak Height | Axis | W-50% | W-10% |
|------|-------------|--------|-------|-------|
| 9 | 252062.32 | 9.05 | 0.63 | 0.769 |
| 24 | 58445.68 | 24.00 | 0.65 | 0.769 |
| 59 | 88215.78 | 59.00 | 0.62 | 0.761 |
| 115 | 80812.66 | 115.05 | 0.56 | 0.742 |
| 208 | 39740.16 | 208.00 | 0.58 | 0.759 |

Integration Time [sec] 0.1
 Acquisition Time [sec] 37.4
 Y Axis Linear

Tune Parameters

Plasma Parameters

| | | | | | |
|--------------|--------|----------------|------------|---------------|------------|
| Plasma Mode | — | Nebulizer Gas | 0.89 L/min | Dilution Gas | 0.14 L/min |
| RF Power | 1600 W | Option Gas | — | Auxiliary Gas | 0.90 L/min |
| RF Matching | 1.00 V | Nebulizer Pump | 0.10 rps | Plasma Gas | 15.0 L/min |
| Sample Depth | 8.0 mm | S/C Temp | 2 °C | | |

Lens Parameters

| | | | | | |
|-----------|----------|---------------|--------|------------|--------|
| Extract 1 | 0.0 V | Omega Lens | 10.3 V | Deflect | 15.0 V |
| Extract 2 | -250.0 V | Cell Entrance | -30 V | Plate Bias | -35 V |

Tune Report

Omega Bias -75 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 0.0 mL/min OctP RF 180 V

QP Parameters

Mass Gain 125 Axis Gain 0.9988 QP Bias -3.0 V
 Mass Offset 126 Axis Offset 0.14

Hardware Settings

Torch

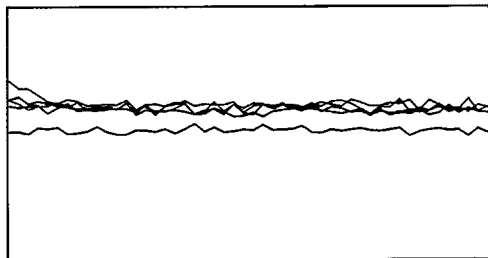
Torch H -0.9 mm Torch V 0.0 mm

EM

Discriminator 5.7 mV Analog HV 2278 V Pulse HV 1674 V

[H2]

Sensitivity



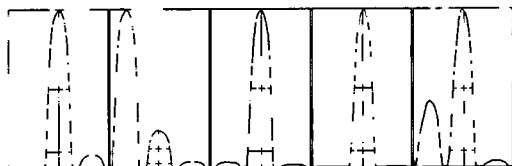
| Mass | Range | Count | RSD% | Background |
|------|--------|-------|-------|------------|
| 9 | 50000 | 29829 | 2.838 | 0.200 |
| 24 | 20000 | 12413 | 3.673 | 0.400 |
| 59 | 50000 | 29653 | 2.533 | 0.000 |
| 115 | 100000 | 60594 | 2.420 | 0.100 |
| 208 | 50000 | 25551 | 2.005 | 0.400 |

Sampling Period [sec] 0.514
 Integration Time [sec] 0.1

Oxide/Doubly Charged Ratio

Oxide —
 Doubly Charged 70 / 140 0.889 %

Resolution/Axis



| Mass | Peak Height | Axis | W-50% | W-10% |
|------|-------------|--------|-------|-------|
| 9 | 29645.16 | 9.05 | 0.62 | 0.760 |
| 24 | 12139.82 | 24.00 | 0.64 | 0.737 |
| 59 | 29575.08 | 59.05 | 0.61 | 0.755 |
| 115 | 60502.98 | 115.05 | 0.55 | 0.733 |
| 208 | 25039.88 | 208.05 | 0.59 | 0.767 |

Integration Time [sec] 0.1
 Acquisition Time [sec] 37.4
 Y Axis Linear

Tune Parameters

Plasma Parameters

Tune Report

| | | | | | |
|--------------|--------|----------------|------------|---------------|------------|
| Plasma Mode | — | Nebulizer Gas | 0.89 L/min | Dilution Gas | 0.14 L/min |
| RF Power | 1600 W | Option Gas | — | Auxiliary Gas | 0.90 L/min |
| RF Matching | 1.00 V | Nebulizer Pump | 0.10 rps | Plasma Gas | 15.0 L/min |
| Sample Depth | 8.0 mm | S/C Temp | 2 °C | | |

Lens Parameters

| | | | | | |
|------------|----------|---------------|--------|------------|-------|
| Extract 1 | 0.0 V | Omega Lens | 10.0 V | Deflect | 2.6 V |
| Extract 2 | -225.0 V | Cell Entrance | -30 V | Plate Bias | -80 V |
| Omega Bias | -85 V | Cell Exit | -50 V | | |

Cell Parameters

| | | | | | |
|---------|------------|--------------|---------|-----------------------|-------|
| Use Gas | Yes | 3rd Gas Flow | — | Energy Discrimination | 5.0 V |
| He Flow | 0.0 mL/min | OctP Bias | -18.0 V | | |
| H2 Flow | 3.8 mL/min | OctP RF | 180 V | | |

QP Parameters

| | | | | | |
|-------------|-----|-------------|--------|---------|---------|
| Mass Gain | 125 | Axis Gain | 0.9988 | QP Bias | -13.0 V |
| Mass Offset | 126 | Axis Offset | 0.14 | | |

Hardware Settings

Torch

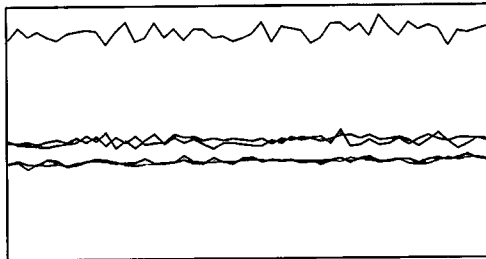
| | | | |
|---------|---------|---------|--------|
| Torch H | -0.9 mm | Torch V | 0.0 mm |
|---------|---------|---------|--------|

EM

| | | | | | |
|---------------|--------|-----------|--------|----------|--------|
| Discriminator | 5.7 mV | Analog HV | 2278 V | Pulse HV | 1674 V |
|---------------|--------|-----------|--------|----------|--------|

[He]

Sensitivity



| Mass | Range | Count | RSD% | Background |
|------|-------|-------|-------|------------|
| 9 | 5000 | 2307 | 3.614 | 1.000 |
| 24 | 2000 | 1801 | 2.982 | 0.400 |
| 59 | 50000 | 23509 | 2.429 | 0.400 |
| 115 | 50000 | 19116 | 2.412 | 0.400 |
| 208 | 50000 | 19273 | 2.190 | 0.600 |

Sampling Period [sec] 0.514

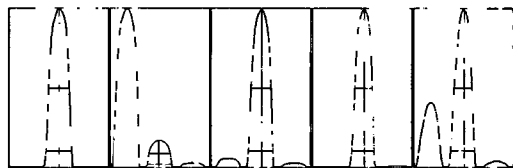
Integration Time [sec] 0.1

Oxide/Doubly Charged Ratio

| | |
|----------------|------------------|
| Oxide | — |
| Doubly Charged | 70 / 140 0.917 % |

Resolution/Axis

Tune Report



| Mass | Peak Height | Axis | W-50% | W-10% |
|------|-------------|--------|-------|-------|
| 9 | 2272.26 | 9.05 | 0.62 | 0.771 |
| 24 | 1807.65 | 24.00 | 0.64 | 0.734 |
| 59 | 23794.26 | 59.05 | 0.60 | 0.748 |
| 115 | 19984.86 | 115.10 | 0.54 | 0.687 |
| 208 | 19709.34 | 208.05 | 0.55 | 0.740 |

Integration Time [sec] 0.1
 Acquisition Time [sec] 37.4
 Y Axis Linear

Tune Parameters

Plasma Parameters

| | | | | | |
|--------------|--------|----------------|------------|---------------|------------|
| Plasma Mode | --- | Nebulizer Gas | 0.89 L/min | Dilution Gas | 0.14 L/min |
| RF Power | 1600 W | Option Gas | --- | Auxiliary Gas | 0.90 L/min |
| RF Matching | 1.00 V | Nebulizer Pump | 0.10 rps | Plasma Gas | 15.0 L/min |
| Sample Depth | 8.0 mm | S/C Temp | 2 °C | | |

Lens Parameters

| | | | | | |
|------------|----------|---------------|--------|------------|-------|
| Extract 1 | 0.0 V | Omega Lens | 10.6 V | Deflect | 1.0 V |
| Extract 2 | -235.0 V | Cell Entrance | -30 V | Plate Bias | -80 V |
| Omega Bias | -75 V | Cell Exit | -50 V | | |

Cell Parameters

| | | | | | |
|---------|------------|--------------|---------|-----------------------|-------|
| Use Gas | Yes | 3rd Gas Flow | --- | Energy Discrimination | 5.0 V |
| He Flow | 4.0 mL/min | OctP Bias | -18.0 V | | |
| H2 Flow | 0.0 mL/min | OctP RF | 200 V | | |

QP Parameters

| | | | | | |
|-------------|-----|-------------|--------|---------|---------|
| Mass Gain | 125 | Axis Gain | 0.9988 | QP Bias | -13.0 V |
| Mass Offset | 126 | Axis Offset | 0.14 | | |

Hardware Settings

Torch

| | | | |
|---------|---------|---------|--------|
| Torch H | -0.9 mm | Torch V | 0.0 mm |
|---------|---------|---------|--------|

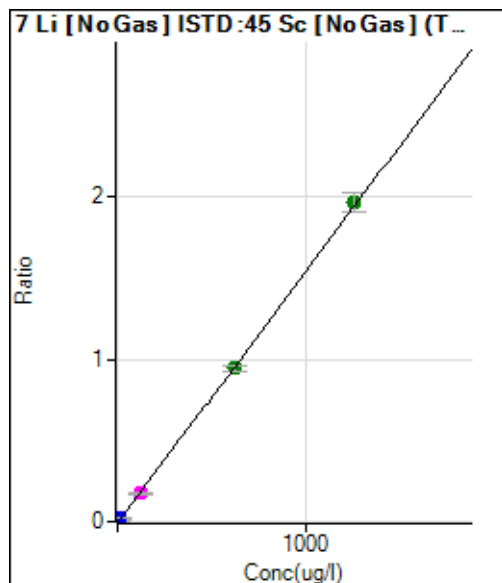
EM

| | | | | | |
|---------------|--------|-----------|--------|----------|--------|
| Discriminator | 5.7 mV | Analog HV | 2278 V | Pulse HV | 1674 V |
|---------------|--------|-----------|--------|----------|--------|

Calibration for 026_QC1.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\220121ADoD.b\
 Analysis File: 220121ADoD.batch.bin
 DA Date-Time: 2022-01-21 20:51:24
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time |
|-------|--------------------|----------------|---------------------|
| 1 | 014CALB.d | Cal Blk | 2022-01-21 17:19:33 |
| 2 | 015CALS.d | 0.025 ppb STD | 2022-01-21 17:26:12 |
| 3 | 016CALS.d | 0.05 ppb STD | 2022-01-21 17:32:50 |
| 4 | 017CALS.d | 0.10 ppb STD | 2022-01-21 17:39:27 |
| 5 | 018CALS.d | 0.5 ppb STD | 2022-01-21 17:46:06 |
| 6 | 019CALS.d | 1 ppb STD | 2022-01-21 17:52:44 |
| 7 | 020CALS.d | 10 ppb STD | 2022-01-21 17:59:22 |
| 8 | 021CALS.d | 50 ppb STD | 2022-01-21 18:06:00 |
| 9 | 022CALS.d | 100 ppb STD | 2022-01-21 18:12:35 |
| 10 | | | |
| 11 | 024CALS.d | 100 ppb Br STD | 2022-01-21 18:25:33 |



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|-------------|--------|---------|-----|-------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 16116.96 | 0.0029 | P | 2.7 | |
| 2 | <input type="checkbox"/> | 0.313 | 0.345 | 19118.97 | 0.0034 | P | 2.4 | 10.4 |
| 3 | <input type="checkbox"/> | 0.625 | 0.629 | 21318.78 | 0.0038 | P | 2.3 | 0.7 |
| 4 | <input type="checkbox"/> | 1.250 | 1.105 | 25853.56 | 0.0046 | P | 3.9 | -11.6 |
| 5 | <input type="checkbox"/> | 6.250 | 5.768 | 65558.83 | 0.0118 | P | 4.0 | -7.7 |
| 6 | <input type="checkbox"/> | 12.500 | 13.286 | 129713.18 | 0.0235 | P | 2.5 | 6.3 |
| 7 | <input type="checkbox"/> | 125.000 | 109.072 | 954440.26 | 0.1724 | M | 2.3 | -12.7 |
| 8 | <input type="checkbox"/> | 625.000 | 603.657 | 5083198.54 | 0.9413 | A | 3.4 | -3.4 |
| 9 | <input type="checkbox"/> | 1250.000 | 1262.259 | 11213868.46 | 1.9652 | A | 6.5 | 1.0 |
| 10 | <input type="checkbox"/> | 2500.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 38892.52 | 0.0066 | P | 4.2 | |

$$y = 0.0016 * x + 0.0029$$

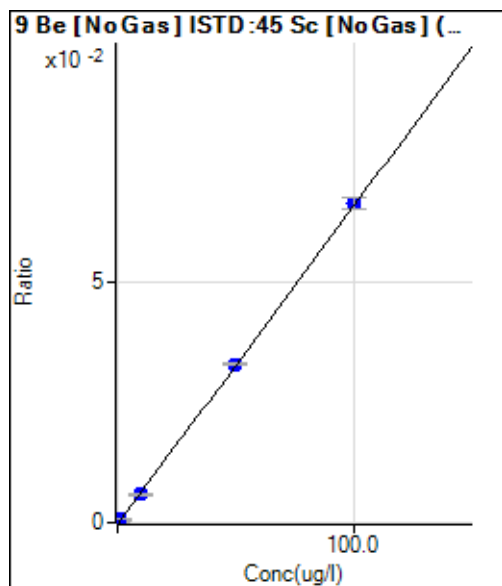
$$R = 0.9997$$

$$DL = 0.151 \text{ ug/l}$$

$$BEC = 1.839 \text{ ug/l}$$

$$\text{Weight: } 1/y$$

$$\text{Min Conc: } <\text{None}>$$



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|-----------|--------|---------|------|--------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 240.73 | 0.0000 | P | 94.8 | |
| 2 | <input type="checkbox"/> | 0.025 | -0.009 | 204.96 | 0.0000 | P | 7.9 | -136.5 |
| 3 | <input type="checkbox"/> | 0.050 | 0.018 | 302.61 | 0.0001 | P | 7.9 | -63.4 |
| 4 | <input type="checkbox"/> | 0.100 | 0.054 | 442.92 | 0.0001 | P | 3.8 | -45.5 |
| 5 | <input type="checkbox"/> | 0.500 | 0.407 | 1724.42 | 0.0003 | P | 2.7 | -18.7 |
| 6 | <input type="checkbox"/> | 1.000 | 0.994 | 3854.06 | 0.0007 | P | 4.1 | -0.6 |
| 7 | <input type="checkbox"/> | 10.000 | 8.746 | 32208.77 | 0.0058 | P | 1.7 | -12.5 |
| 8 | <input type="checkbox"/> | 50.000 | 49.640 | 177275.45 | 0.0328 | P | 1.4 | -0.7 |
| 9 | <input type="checkbox"/> | 100.000 | 100.306 | 378236.08 | 0.0663 | P | 3.7 | 0.3 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 303.61 | 0.0001 | P | 6.1 | |

$$y = 6.6049E-004 * x + 4.2425E-005$$

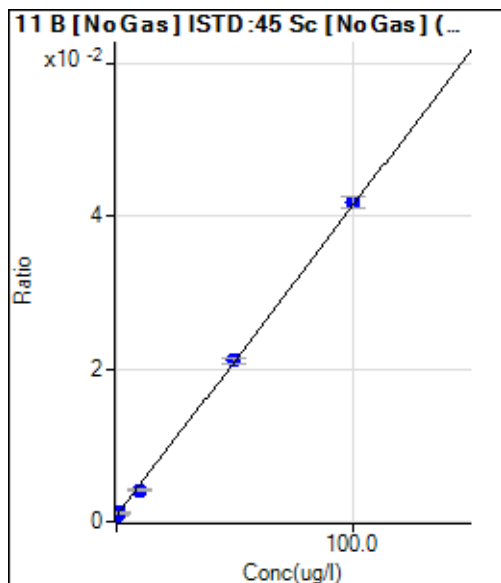
$$R = 0.9999$$

$$DL = 0.1827 \text{ ug/l}$$

$$BEC = 0.06423 \text{ ug/l}$$

$$\text{Weight: } 1/y$$

$$\text{Min Conc: } <\text{None}>$$



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|-----------|--------|---------|-----|--------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 5588.62 | 0.0010 | P | 3.8 | |
| 2 | <input type="checkbox"/> | | | 5148.95 | 0.0009 | P | 1.1 | |
| 3 | <input type="checkbox"/> | 0.050 | -0.293 | 4848.73 | 0.0009 | P | 4.4 | -685.1 |
| 4 | <input type="checkbox"/> | 0.100 | -0.419 | 4644.59 | 0.0008 | P | 1.2 | -518.5 |
| 5 | <input type="checkbox"/> | 0.500 | -0.101 | 5267.71 | 0.0010 | P | 6.6 | -120.2 |
| 6 | <input type="checkbox"/> | 1.000 | 0.407 | 6379.26 | 0.0012 | P | 5.4 | -59.3 |
| 7 | <input type="checkbox"/> | 10.000 | 7.750 | 22889.18 | 0.0041 | P | 2.2 | -22.5 |
| 8 | <input type="checkbox"/> | 50.000 | 49.390 | 113558.46 | 0.0210 | P | 3.0 | -1.2 |
| 9 | <input type="checkbox"/> | 100.000 | 100.540 | 238418.00 | 0.0418 | P | 3.5 | 0.5 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 32406.30 | 0.0055 | P | 7.3 | |

$y = 4.0570E-004 * x + 9.9166E-004$

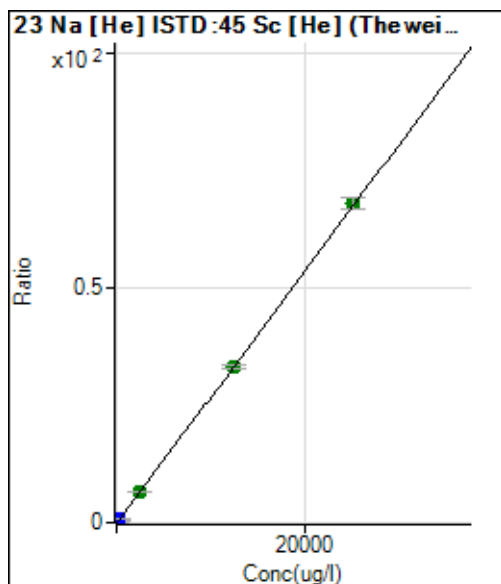
R = 0.9998

DL = 0.277 ug/l

BEC = 2.444 ug/l

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|-------------|---------|---------|-----|-------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 48645.13 | 0.1527 | P | 1.2 | |
| 2 | <input type="checkbox"/> | 6.250 | 5.041 | 51969.38 | 0.1664 | P | 0.6 | -19.3 |
| 3 | <input type="checkbox"/> | 12.500 | 14.595 | 60081.46 | 0.1922 | P | 0.5 | 16.8 |
| 4 | <input type="checkbox"/> | 25.000 | 27.394 | 70518.55 | 0.2268 | P | 0.9 | 9.6 |
| 5 | <input type="checkbox"/> | 125.000 | 127.748 | 155215.46 | 0.4981 | P | 2.8 | 2.2 |
| 6 | <input type="checkbox"/> | 250.000 | 263.302 | 272015.80 | 0.8646 | P | 1.3 | 5.3 |
| 7 | <input type="checkbox"/> | 2500.000 | 2422.088 | 2129850.77 | 6.7006 | A | 1.2 | -3.1 |
| 8 | <input type="checkbox"/> | 12500.00 | 12277.52 | 10758078.73 | 33.3438 | A | 2.1 | -1.8 |
| 9 | <input type="checkbox"/> | 25000.00 | 25118.88 | 22220267.17 | 68.0591 | A | 3.2 | 0.5 |
| 10 | <input type="checkbox"/> | 50000.00 | | | | | | |
| 11 | <input type="checkbox"/> | | | 46375.68 | 0.1404 | P | 2.8 | |

$y = 0.0027 * x + 0.1527$

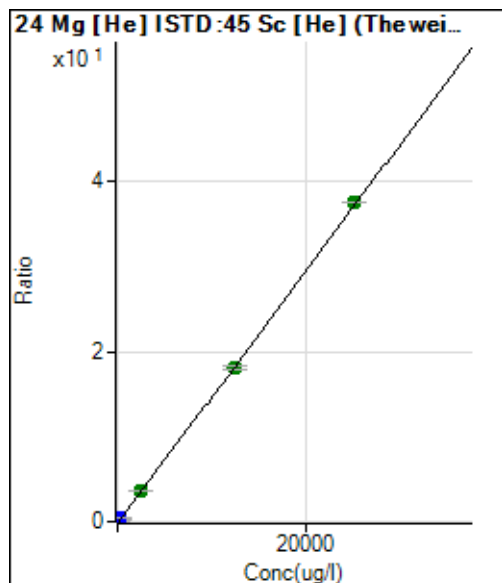
R = 0.9999

DL = 2.001 ug/l

BEC = 56.5 ug/l

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|-------------|---------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 1869.75 | 0.0059 | P | 5.8 | |
| 2 | <input type="checkbox"/> | 6.250 | 6.719 | 4964.34 | 0.0159 | P | 3.3 | 7.5 |
| 3 | <input type="checkbox"/> | 12.500 | 15.626 | 9121.40 | 0.0292 | P | 2.4 | 25.0 |
| 4 | <input type="checkbox"/> | 25.000 | 27.225 | 14448.34 | 0.0465 | P | 3.4 | 8.9 |
| 5 | <input type="checkbox"/> | 125.000 | 130.234 | 62348.75 | 0.2001 | P | 3.5 | 4.2 |
| 6 | <input type="checkbox"/> | 250.000 | 264.571 | 125981.67 | 0.4005 | P | 2.5 | 5.8 |
| 7 | <input type="checkbox"/> | 2500.000 | 2448.863 | 1162787.91 | 3.6584 | A | 3.2 | -2.0 |
| 8 | <input type="checkbox"/> | 12500.00 | 12116.46 | 5832547.09 | 18.0776 | A | 1.7 | -3.1 |
| 9 | <input type="checkbox"/> | 25000.00 | 25196.70 | 12274170.52 | 37.5869 | A | 0.3 | 0.8 |
| 10 | <input type="checkbox"/> | 50000.00 | | | | | | |
| 11 | <input type="checkbox"/> | | | 1843.13 | 0.0056 | P | 10.5 | |

$y = 0.0015 * x + 0.0059$

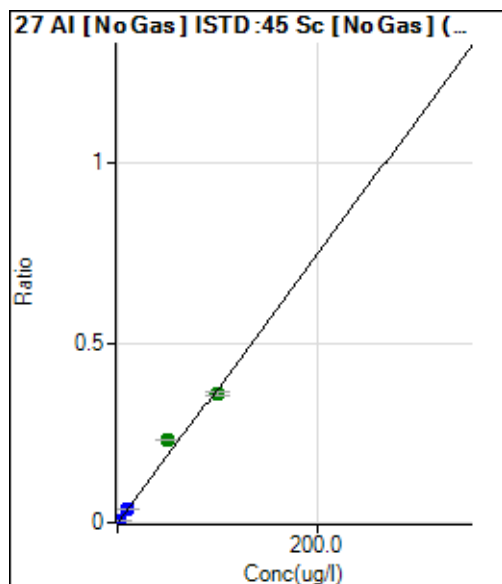
R = 0.9999

DL = 0.689 ug/l

BEC = 3.936 ug/l

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|------------|--------|---------|-----|-------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 16763.86 | 0.0030 | P | 2.4 | |
| 2 | <input type="checkbox"/> | | | 19714.17 | 0.0035 | P | 1.6 | |
| 3 | <input type="checkbox"/> | 0.050 | 0.134 | 19308.04 | 0.0035 | P | 3.0 | 167.5 |
| 4 | <input type="checkbox"/> | 0.100 | 0.167 | 20342.72 | 0.0036 | P | 3.0 | 67.1 |
| 5 | <input type="checkbox"/> | 0.500 | 0.597 | 28917.90 | 0.0052 | P | 3.5 | 19.5 |
| 6 | <input type="checkbox"/> | 1.000 | 1.108 | 39356.03 | 0.0071 | P | 1.2 | 10.8 |
| 7 | <input type="checkbox"/> | 10.000 | 9.450 | 212780.04 | 0.0384 | P | 2.0 | -5.5 |
| 8 | <input type="checkbox"/> | 50.000 | 60.112 | 1234429.12 | 0.2286 | A | 0.1 | 20.2 |
| 9 | <input type="checkbox"/> | 100.000 | 94.997 | 2051325.70 | 0.3595 | A | 3.3 | -5.0 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 18287.85 | 0.0031 | P | 1.0 | |

$y = 0.0038 * x + 0.0030$

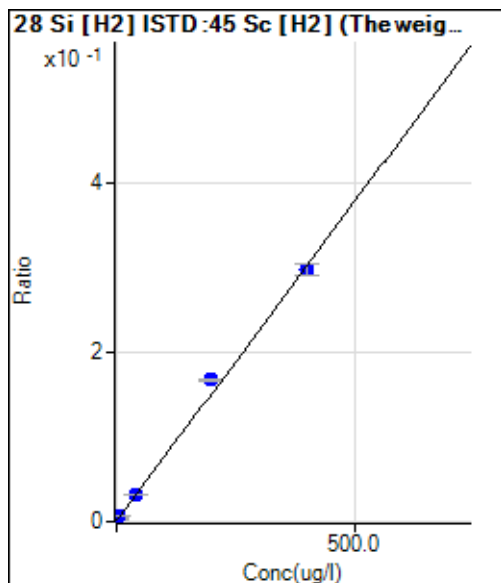
R = 0.9933

DL = 0.05744 ug/l

BEC = 0.7924 ug/l

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|---------|------------|-----------|--------|---------|------|-------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 7382.79 | 0.0027 | P | 0.1 | |
| 2 | <input type="checkbox"/> | | | 8128.14 | 0.0030 | P | 1.5 | |
| 3 | <input type="checkbox"/> | 0.200 | 0.822 | 8842.24 | 0.0033 | P | 14.5 | 311.1 |
| 4 | <input type="checkbox"/> | 0.400 | 0.878 | 9092.46 | 0.0034 | P | 18.5 | 119.5 |
| 5 | <input type="checkbox"/> | 2.000 | 2.053 | 11668.57 | 0.0042 | P | 2.1 | 2.7 |
| 6 | <input type="checkbox"/> | 4.000 | 4.072 | 15438.82 | 0.0058 | P | 0.6 | 1.8 |
| 7 | <input type="checkbox"/> | 40.000 | 39.115 | 88095.19 | 0.0322 | P | 1.7 | -2.2 |
| 8 | <input type="checkbox"/> | 200.000 | 218.338 | 462870.95 | 0.1677 | P | 0.9 | 9.2 |
| 9 | <input type="checkbox"/> | 400.000 | 390.918 | 833031.10 | 0.2981 | P | 4.3 | -2.3 |
| 10 | <input type="checkbox"/> | | | | | | | |
| 11 | <input type="checkbox"/> | | | 8694.03 | 0.0032 | P | 1.2 | |

$y = 7.5573E-004 * x + 0.0027$

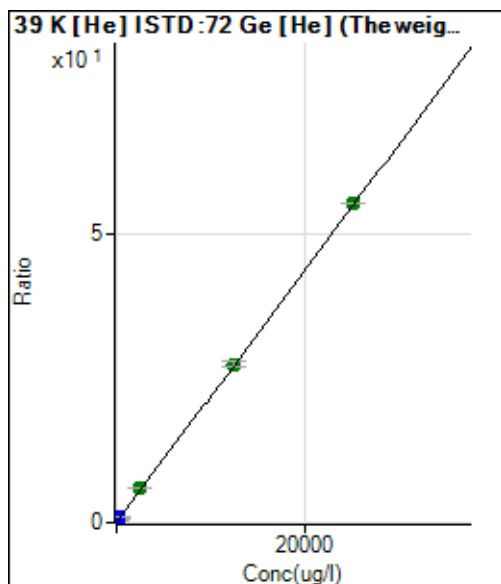
R = 0.9986

DL = 0.0149 ug/l

BEC = 3.559 ug/l

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|-------------|---------|---------|-----|-------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 83413.54 | 0.3748 | P | 3.7 | |
| 2 | <input type="checkbox"/> | 6.250 | 8.572 | 86393.88 | 0.3936 | P | 2.5 | 37.2 |
| 3 | <input type="checkbox"/> | 12.500 | 14.353 | 89586.69 | 0.4062 | P | 1.7 | 14.8 |
| 4 | <input type="checkbox"/> | 25.000 | 20.284 | 92327.48 | 0.4192 | P | 0.8 | -18.9 |
| 5 | <input type="checkbox"/> | 125.000 | 124.642 | 142339.78 | 0.6478 | P | 1.0 | -0.3 |
| 6 | <input type="checkbox"/> | 250.000 | 274.464 | 210233.68 | 0.9760 | P | 1.7 | 9.8 |
| 7 | <input type="checkbox"/> | 2500.000 | 2525.286 | 1313936.00 | 5.9066 | A | 1.5 | 1.0 |
| 8 | <input type="checkbox"/> | 12500.00 | 12352.23 | 6190792.48 | 27.4330 | A | 3.4 | -1.2 |
| 9 | <input type="checkbox"/> | 25000.00 | 25071.11 | 12541365.64 | 55.2944 | A | 0.1 | 0.3 |
| 10 | <input type="checkbox"/> | 50000.00 | | | | | | |
| 11 | <input type="checkbox"/> | | | 386692.30 | 1.7026 | P | 2.1 | |

$y = 0.0022 * x + 0.3748$

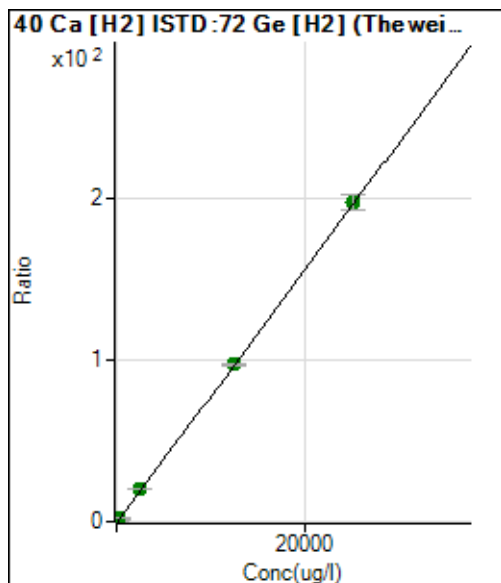
R = 1.0000

DL = 19.21 ug/l

BEC = 171.1 ug/l

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|-------------|---------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 101282.00 | 0.1021 | P | 1.1 | |
| 2 | <input type="checkbox"/> | 6.250 | 7.100 | 156675.14 | 0.1580 | P | 2.6 | 13.6 |
| 3 | <input type="checkbox"/> | 12.500 | 15.069 | 220696.82 | 0.2208 | P | 4.0 | 20.6 |
| 4 | <input type="checkbox"/> | 25.000 | 28.253 | 323953.66 | 0.3248 | P | 4.6 | 13.0 |
| 5 | <input type="checkbox"/> | 125.000 | 132.950 | 1155430.23 | 1.1500 | P | 1.7 | 6.4 |
| 6 | <input type="checkbox"/> | 250.000 | 275.073 | 2234754.15 | 2.2702 | A | 1.8 | 10.0 |
| 7 | <input type="checkbox"/> | 2500.000 | 2589.312 | 21100067.45 | 20.5113 | A | 2.5 | 3.6 |
| 8 | <input type="checkbox"/> | 12500.00 | 12346.86 | 101122993.6 | 97.4212 | A | 1.2 | -1.2 |
| 9 | <input type="checkbox"/> | 25000.00 | 25067.33 | 201215236.4 | 197.685 | A | 5.2 | 0.3 |
| 10 | <input type="checkbox"/> | 50000.00 | | | | | | |
| 11 | <input type="checkbox"/> | | | 107652.48 | 0.1083 | P | 1.9 | |

$y = 0.0079 * x + 0.1021$

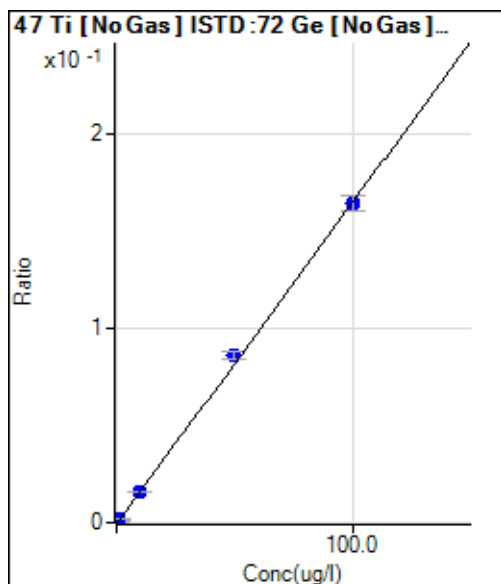
R = 1.0000

DL = 0.4415 ug/l

BEC = 12.95 ug/l

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|---------|------------|-----------|--------|---------|------|-------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 220.23 | 0.0001 | P | 24.9 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.043 | 323.66 | 0.0002 | P | 11.5 | 72.9 |
| 3 | <input type="checkbox"/> | 0.050 | 0.064 | 375.38 | 0.0003 | P | 7.4 | 27.5 |
| 4 | <input type="checkbox"/> | 0.100 | 0.111 | 497.18 | 0.0003 | P | 9.0 | 11.0 |
| 5 | <input type="checkbox"/> | 0.500 | 0.442 | 1374.79 | 0.0009 | P | 9.0 | -11.5 |
| 6 | <input type="checkbox"/> | 1.000 | 0.992 | 2672.95 | 0.0018 | P | 1.9 | -0.8 |
| 7 | <input type="checkbox"/> | 10.000 | 9.497 | 23589.23 | 0.0159 | P | 2.6 | -5.0 |
| 8 | <input type="checkbox"/> | 50.000 | 51.900 | 128006.19 | 0.0861 | P | 4.9 | 3.8 |
| 9 | <input type="checkbox"/> | 100.000 | 99.101 | 244490.65 | 0.1642 | P | 4.5 | -0.9 |
| 10 | <input type="checkbox"/> | | | | | | | |
| 11 | <input type="checkbox"/> | | | 398.74 | 0.0003 | P | 9.1 | |

$y = 0.0017 * x + 1.4594E-004$

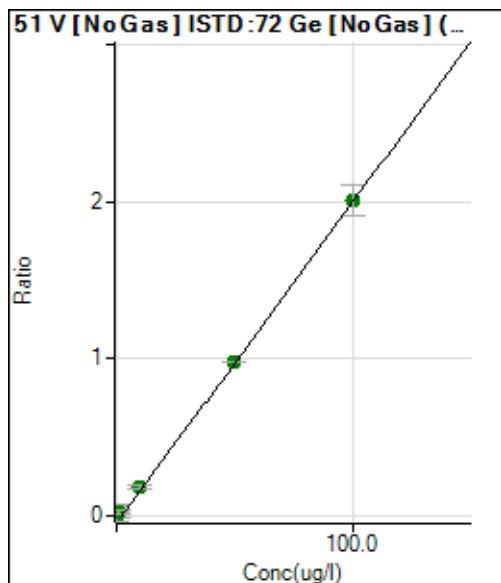
R = 0.9998

DL = 0.06596 ug/l

BEC = 0.08814 ug/l

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|------------|---------|---------|--------|--------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | -58154.82 | -0.0390 | A | -128.4 | |
| 2 | <input type="checkbox"/> | 0.025 | 1.595 | -10013.51 | -0.0064 | A | -867.9 | 6280.0 |
| 3 | <input type="checkbox"/> | 0.050 | 3.579 | 50611.23 | 0.0343 | A | 123.7 | 7057.9 |
| 4 | <input type="checkbox"/> | 0.100 | 2.815 | 28028.24 | 0.0186 | A | 137.5 | 2715.5 |
| 5 | <input type="checkbox"/> | 0.500 | 3.188 | 42458.22 | 0.0263 | A | 331.6 | 537.6 |
| 6 | <input type="checkbox"/> | 1.000 | 2.977 | 32961.32 | 0.0219 | A | 160.5 | 197.7 |
| 7 | <input type="checkbox"/> | 10.000 | 10.729 | 268491.88 | 0.1807 | A | 14.1 | 7.3 |
| 8 | <input type="checkbox"/> | 50.000 | 49.745 | 1457839.94 | 0.9798 | A | 0.8 | -0.5 |
| 9 | <input type="checkbox"/> | 100.000 | 100.017 | 2988230.72 | 2.0094 | A | 9.9 | 0.0 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 33580.12 | 0.0223 | A | 97.8 | |

$y = 0.0205 * x - 0.0390$

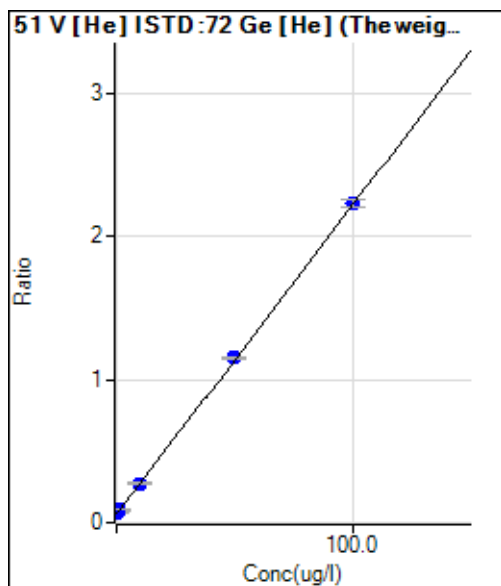
R = 0.9995

DL = 7.344 ug/l

BEC = -1.906 ug/l

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|-----------|--------|---------|-----|-------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 15693.98 | 0.0705 | P | 4.0 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.275 | 16784.10 | 0.0765 | P | 1.1 | 999.0 |
| 3 | <input type="checkbox"/> | 0.050 | 0.067 | 15873.06 | 0.0720 | P | 1.4 | 34.8 |
| 4 | <input type="checkbox"/> | 0.100 | 0.004 | 15547.16 | 0.0706 | P | 1.8 | -96.4 |
| 5 | <input type="checkbox"/> | 0.500 | 0.570 | 18204.63 | 0.0828 | P | 0.7 | 14.0 |
| 6 | <input type="checkbox"/> | 1.000 | 1.239 | 20964.97 | 0.0973 | P | 1.2 | 23.9 |
| 7 | <input type="checkbox"/> | 10.000 | 9.369 | 60778.41 | 0.2732 | P | 2.2 | -6.3 |
| 8 | <input type="checkbox"/> | 50.000 | 50.140 | 260780.95 | 1.1553 | P | 1.1 | 0.3 |
| 9 | <input type="checkbox"/> | 100.000 | 99.990 | 506666.54 | 2.2337 | P | 2.6 | 0.0 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 9229.61 | 0.0406 | P | 1.8 | |

$y = 0.0216 * x + 0.0705$

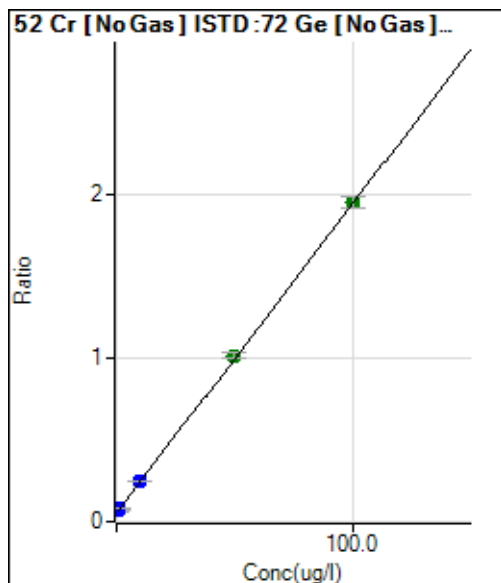
R = 1.0000

DL = 0.3893 ug/l

BEC = 3.259 ug/l

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|------------|--------|---------|-----|-------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 98256.00 | 0.0650 | P | 1.8 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.143 | 100571.06 | 0.0677 | P | 1.1 | 470.3 |
| 3 | <input type="checkbox"/> | 0.050 | 0.067 | 98992.88 | 0.0663 | P | 1.0 | 34.3 |
| 4 | <input type="checkbox"/> | 0.100 | 0.054 | 99518.77 | 0.0660 | P | 1.3 | -46.4 |
| 5 | <input type="checkbox"/> | 0.500 | 0.340 | 111788.14 | 0.0714 | P | 3.2 | -32.0 |
| 6 | <input type="checkbox"/> | 1.000 | 1.156 | 129847.02 | 0.0869 | P | 2.3 | 15.6 |
| 7 | <input type="checkbox"/> | 10.000 | 9.683 | 369110.88 | 0.2483 | P | 1.4 | -3.2 |
| 8 | <input type="checkbox"/> | 50.000 | 50.259 | 1511692.16 | 1.0164 | A | 3.1 | 0.5 |
| 9 | <input type="checkbox"/> | 100.000 | 99.901 | 2912079.56 | 1.9561 | A | 4.0 | -0.1 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 81406.78 | 0.0536 | P | 2.2 | |

$$y = 0.0189 * x + 0.0650$$

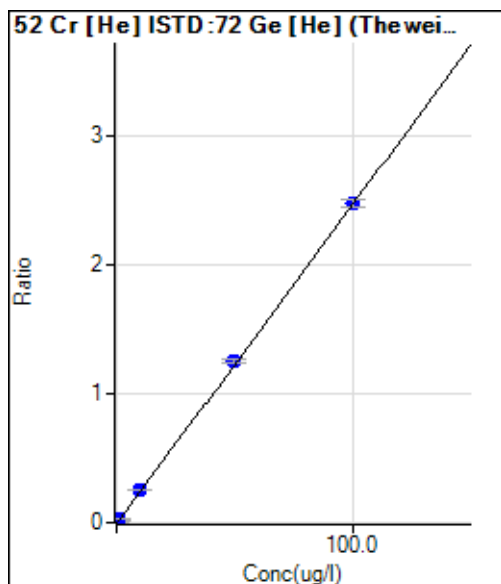
$$R = 1.0000$$

$$DL = 0.1836 \text{ ug/l}$$

$$BEC = 3.434 \text{ ug/l}$$

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|-----------|--------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 877.81 | 0.0039 | P | 2.7 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.049 | 1131.16 | 0.0052 | P | 3.7 | 95.4 |
| 3 | <input type="checkbox"/> | 0.050 | 0.078 | 1293.40 | 0.0059 | P | 2.7 | 55.2 |
| 4 | <input type="checkbox"/> | 0.100 | 0.131 | 1583.43 | 0.0072 | P | 4.4 | 31.1 |
| 5 | <input type="checkbox"/> | 0.500 | 0.511 | 3646.03 | 0.0166 | P | 2.1 | 2.2 |
| 6 | <input type="checkbox"/> | 1.000 | 1.061 | 6508.14 | 0.0302 | P | 0.2 | 6.1 |
| 7 | <input type="checkbox"/> | 10.000 | 10.047 | 56229.69 | 0.2528 | P | 1.8 | 0.5 |
| 8 | <input type="checkbox"/> | 50.000 | 50.288 | 281965.36 | 1.2493 | P | 2.7 | 0.6 |
| 9 | <input type="checkbox"/> | 100.000 | 99.851 | 561729.90 | 2.4768 | P | 1.9 | -0.1 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 977.82 | 0.0043 | P | 3.1 | |

$$y = 0.0248 * x + 0.0039$$

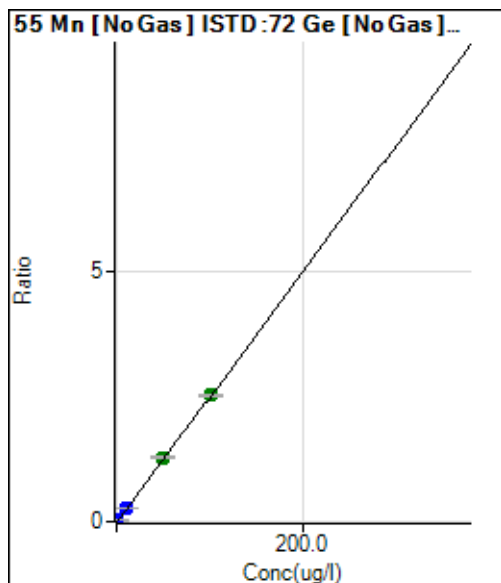
$$R = 1.0000$$

$$DL = 0.01286 \text{ ug/l}$$

$$BEC = 0.1592 \text{ ug/l}$$

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|------------|--------|---------|-----|-------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 10988.97 | 0.0073 | P | 0.3 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.029 | 11881.25 | 0.0080 | P | 1.8 | 15.1 |
| 3 | <input type="checkbox"/> | 0.050 | 0.056 | 12966.67 | 0.0087 | P | 5.1 | 12.0 |
| 4 | <input type="checkbox"/> | 0.100 | 0.092 | 14468.51 | 0.0096 | P | 1.0 | -8.1 |
| 5 | <input type="checkbox"/> | 0.500 | 0.445 | 28994.32 | 0.0185 | P | 4.7 | -11.1 |
| 6 | <input type="checkbox"/> | 1.000 | 1.022 | 49552.10 | 0.0332 | P | 4.9 | 2.2 |
| 7 | <input type="checkbox"/> | 10.000 | 10.118 | 392037.43 | 0.2637 | P | 2.0 | 1.2 |
| 8 | <input type="checkbox"/> | 50.000 | 50.634 | 1920391.71 | 1.2907 | A | 1.0 | 1.3 |
| 9 | <input type="checkbox"/> | 100.000 | 99.671 | 3773602.89 | 2.5337 | A | 1.7 | -0.3 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 15943.75 | 0.0105 | P | 3.3 | |

$$y = 0.0253 * x + 0.0073$$

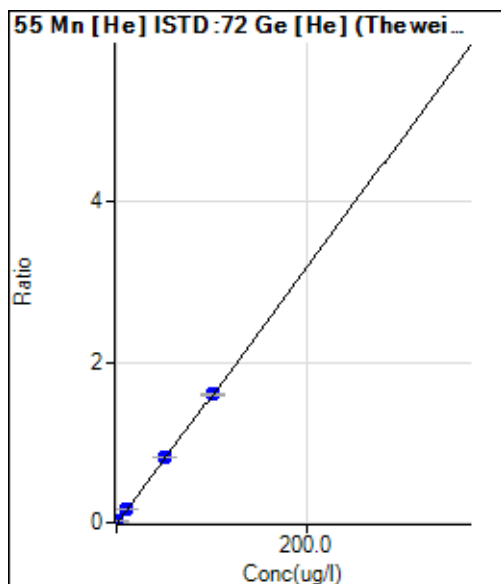
$$R = 1.0000$$

$$DL = 0.002459 \text{ ug/l}$$

$$BEC = 0.2867 \text{ ug/l}$$

$$\text{Weight: } 1/y$$

$$\text{Min Conc: } <\text{None}>$$



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|-----------|--------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 157.31 | 0.0007 | P | 14.6 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.033 | 270.62 | 0.0012 | P | 6.0 | 31.1 |
| 3 | <input type="checkbox"/> | 0.050 | 0.065 | 387.26 | 0.0018 | P | 1.6 | 30.7 |
| 4 | <input type="checkbox"/> | 0.100 | 0.116 | 566.23 | 0.0026 | P | 2.0 | 16.0 |
| 5 | <input type="checkbox"/> | 0.500 | 0.519 | 1988.07 | 0.0090 | P | 3.5 | 3.8 |
| 6 | <input type="checkbox"/> | 1.000 | 1.071 | 3860.41 | 0.0179 | P | 1.6 | 7.1 |
| 7 | <input type="checkbox"/> | 10.000 | 10.309 | 37022.29 | 0.1664 | P | 1.3 | 3.1 |
| 8 | <input type="checkbox"/> | 50.000 | 50.852 | 184678.91 | 0.8181 | P | 1.3 | 1.7 |
| 9 | <input type="checkbox"/> | 100.000 | 99.542 | 363072.59 | 1.6008 | P | 1.0 | -0.5 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 190.96 | 0.0008 | P | 7.3 | |

$$y = 0.0161 * x + 7.0574E-004$$

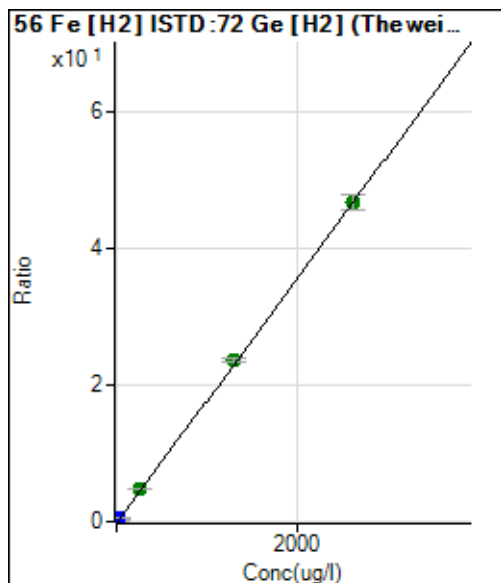
$$R = 1.0000$$

$$DL = 0.01922 \text{ ug/l}$$

$$BEC = 0.0439 \text{ ug/l}$$

$$\text{Weight: } 1/y$$

$$\text{Min Conc: } <\text{None}>$$



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|-------------|---------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 10265.62 | 0.0103 | P | 0.2 | |
| 2 | <input type="checkbox"/> | 0.650 | 0.767 | 23997.01 | 0.0242 | P | 0.8 | 18.1 |
| 3 | <input type="checkbox"/> | 1.300 | 1.609 | 39403.99 | 0.0394 | P | 2.2 | 23.8 |
| 4 | <input type="checkbox"/> | 2.600 | 2.963 | 63704.80 | 0.0639 | P | 3.9 | 14.0 |
| 5 | <input type="checkbox"/> | 13.000 | 13.711 | 259156.06 | 0.2579 | P | 0.1 | 5.5 |
| 6 | <input type="checkbox"/> | 26.000 | 28.259 | 512499.72 | 0.5206 | P | 0.8 | 8.7 |
| 7 | <input type="checkbox"/> | 260.000 | 269.148 | 5009844.72 | 4.8704 | A | 1.9 | 3.5 |
| 8 | <input type="checkbox"/> | 1300.000 | 1315.539 | 24664788.71 | 23.7652 | A | 2.0 | 1.2 |
| 9 | <input type="checkbox"/> | 2600.000 | 2591.289 | 47645535.53 | 46.8016 | A | 4.5 | -0.3 |
| 10 | <input type="checkbox"/> | 6000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 11704.78 | 0.0118 | P | 1.9 | |

$$y = 0.0181 * x + 0.0103$$

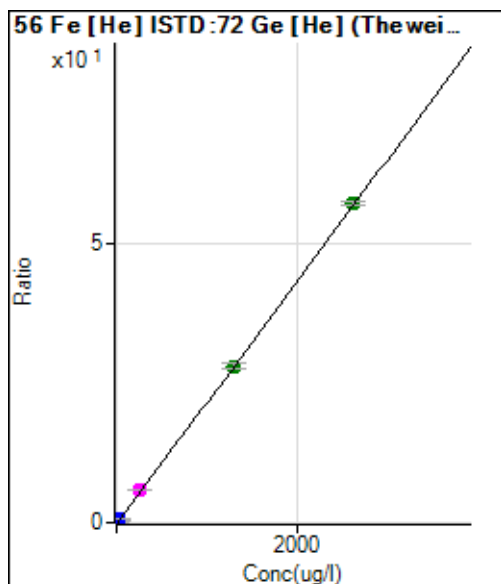
$$R = 1.0000$$

$$DL = 0.002706 \text{ ug/l}$$

$$BEC = 0.5729 \text{ ug/l}$$

$$\text{Weight: } 1/y$$

$$\text{Min Conc: } <\text{None}>$$



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|-------------|---------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 5867.09 | 0.0264 | P | 4.6 | |
| 2 | <input type="checkbox"/> | 0.650 | 0.724 | 9275.61 | 0.0423 | P | 2.6 | 11.4 |
| 3 | <input type="checkbox"/> | 1.300 | 1.512 | 13135.77 | 0.0596 | P | 2.5 | 16.3 |
| 4 | <input type="checkbox"/> | 2.600 | 2.739 | 19046.55 | 0.0865 | P | 3.4 | 5.4 |
| 5 | <input type="checkbox"/> | 13.000 | 13.662 | 71684.26 | 0.3263 | P | 2.6 | 5.1 |
| 6 | <input type="checkbox"/> | 26.000 | 28.064 | 138392.51 | 0.6424 | P | 1.6 | 7.9 |
| 7 | <input type="checkbox"/> | 260.000 | 261.927 | 1284878.30 | 5.7760 | M | 2.0 | 0.7 |
| 8 | <input type="checkbox"/> | 1300.000 | 1278.815 | 6340773.78 | 28.0982 | A | 3.5 | -1.6 |
| 9 | <input type="checkbox"/> | 2600.000 | 2610.375 | 13001928.76 | 57.3278 | A | 1.4 | 0.4 |
| 10 | <input type="checkbox"/> | 6000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 6591.46 | 0.0290 | P | 6.1 | |

$$y = 0.0220 * x + 0.0264$$

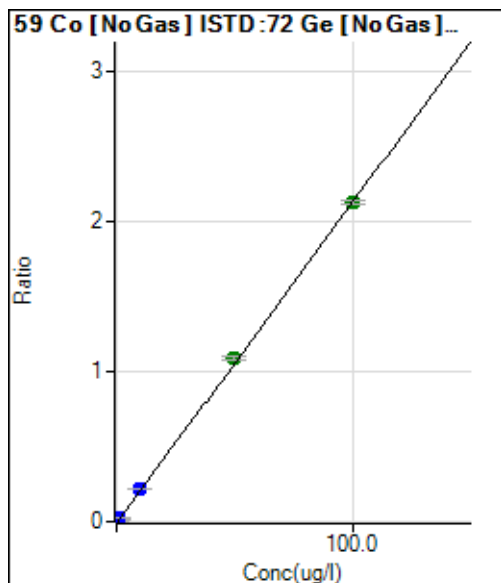
$$R = 1.0000$$

$$DL = 0.165 \text{ ug/l}$$

$$BEC = 1.201 \text{ ug/l}$$

$$\text{Weight: } 1/y$$

$$\text{Min Conc: } <\text{None}>$$



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|------------|--------|---------|-------|-------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 565.56 | 0.0004 | P | 3.6 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.185 | 6556.94 | 0.0043 | P | 136.4 | 639.8 |
| 3 | <input type="checkbox"/> | 0.050 | 0.063 | 2561.82 | 0.0017 | P | 5.0 | 25.2 |
| 4 | <input type="checkbox"/> | 0.100 | 0.110 | 4102.45 | 0.0027 | P | 3.1 | 9.5 |
| 5 | <input type="checkbox"/> | 0.500 | 0.483 | 16803.12 | 0.0107 | P | 3.7 | -3.3 |
| 6 | <input type="checkbox"/> | 1.000 | 1.069 | 34818.95 | 0.0233 | P | 1.4 | 6.9 |
| 7 | <input type="checkbox"/> | 10.000 | 10.136 | 323538.33 | 0.2176 | P | 3.3 | 1.4 |
| 8 | <input type="checkbox"/> | 50.000 | 51.170 | 1632206.35 | 1.0973 | A | 2.3 | 2.3 |
| 9 | <input type="checkbox"/> | 100.000 | 99.401 | 3174232.22 | 2.1312 | A | 1.6 | -0.6 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 785.13 | 0.0005 | P | 9.6 | |

$$y = 0.0214 * x + 3.7425E-004$$

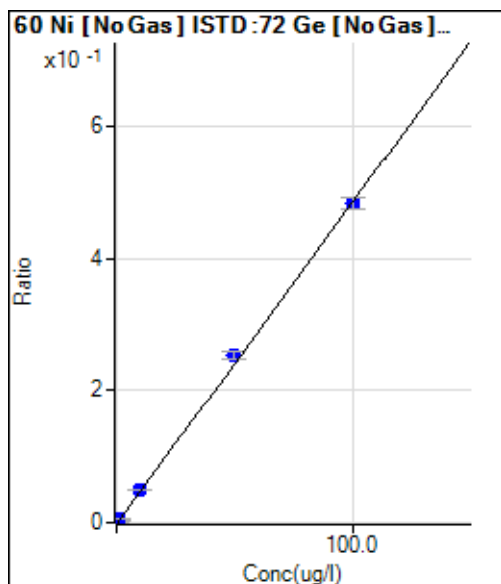
$$R = 0.9999$$

$$DL = 0.001901 \text{ ug/l}$$

$$BEC = 0.01746 \text{ ug/l}$$

$$\text{Weight: } 1/y$$

$$\text{Min Conc: } <\text{None}>$$



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|-----------|--------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 502.35 | 0.0003 | P | 18.8 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.033 | 731.90 | 0.0005 | P | 7.1 | 31.7 |
| 3 | <input type="checkbox"/> | 0.050 | 0.078 | 1061.27 | 0.0007 | P | 18.2 | 56.1 |
| 4 | <input type="checkbox"/> | 0.100 | 0.121 | 1390.65 | 0.0009 | P | 4.7 | 21.1 |
| 5 | <input type="checkbox"/> | 0.500 | 0.687 | 5759.75 | 0.0037 | P | 3.1 | 37.3 |
| 6 | <input type="checkbox"/> | 1.000 | 1.088 | 8429.06 | 0.0056 | P | 8.0 | 8.8 |
| 7 | <input type="checkbox"/> | 10.000 | 9.954 | 72706.22 | 0.0489 | P | 1.5 | -0.5 |
| 8 | <input type="checkbox"/> | 50.000 | 51.858 | 376894.03 | 0.2534 | P | 3.9 | 3.7 |
| 9 | <input type="checkbox"/> | 100.000 | 99.074 | 720464.35 | 0.4839 | P | 3.1 | -0.9 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 715.27 | 0.0005 | P | 24.4 | |

$$y = 0.0049 * x + 3.3147E-004$$

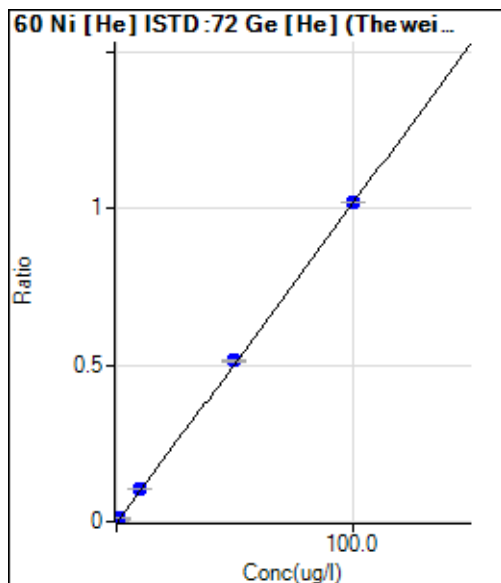
$$R = 0.9998$$

$$DL = 0.0384 \text{ ug/l}$$

$$BEC = 0.06792 \text{ ug/l}$$

$$\text{Weight: } 1/y$$

$$\text{Min Conc: } <\text{None}>$$



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|-----------|--------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 98.89 | 0.0004 | P | 9.6 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.036 | 177.78 | 0.0008 | P | 17.4 | 43.7 |
| 3 | <input type="checkbox"/> | 0.050 | 0.087 | 294.45 | 0.0013 | P | 11.2 | 75.0 |
| 4 | <input type="checkbox"/> | 0.100 | 0.117 | 360.01 | 0.0016 | P | 12.2 | 16.8 |
| 5 | <input type="checkbox"/> | 0.500 | 0.659 | 1574.54 | 0.0072 | P | 7.5 | 31.7 |
| 6 | <input type="checkbox"/> | 1.000 | 1.084 | 2476.89 | 0.0115 | P | 9.1 | 8.4 |
| 7 | <input type="checkbox"/> | 10.000 | 10.136 | 23102.78 | 0.1039 | P | 1.5 | 1.4 |
| 8 | <input type="checkbox"/> | 50.000 | 50.291 | 115926.44 | 0.5135 | P | 1.0 | 0.6 |
| 9 | <input type="checkbox"/> | 100.000 | 99.839 | 231139.90 | 1.0191 | P | 0.3 | -0.2 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 115.55 | 0.0005 | P | 18.9 | |

$$y = 0.0102 * x + 4.4379E-004$$

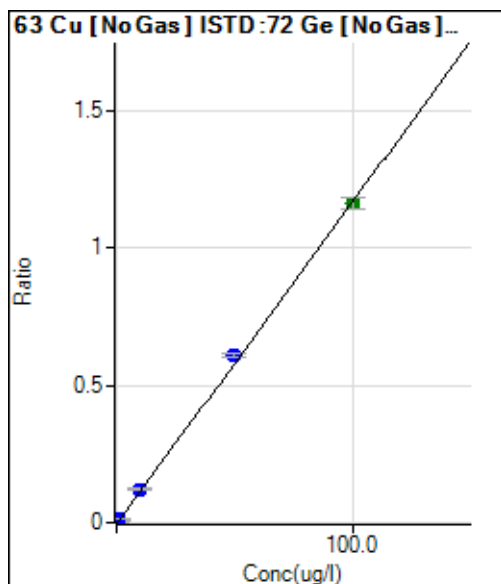
R = 1.0000

DL = 0.01257 ug/l

BEC = 0.0435 ug/l

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|------------|--------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 2056.31 | 0.0014 | P | 8.0 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.037 | 2670.65 | 0.0018 | P | 3.5 | 48.7 |
| 3 | <input type="checkbox"/> | 0.050 | 0.065 | 3176.29 | 0.0021 | P | 5.2 | 30.0 |
| 4 | <input type="checkbox"/> | 0.100 | 0.107 | 3947.46 | 0.0026 | P | 1.3 | 7.0 |
| 5 | <input type="checkbox"/> | 0.500 | 0.631 | 13716.60 | 0.0088 | P | 3.5 | 26.1 |
| 6 | <input type="checkbox"/> | 1.000 | 1.054 | 20537.99 | 0.0137 | P | 2.5 | 5.4 |
| 7 | <input type="checkbox"/> | 10.000 | 10.312 | 182146.62 | 0.1225 | P | 2.0 | 3.1 |
| 8 | <input type="checkbox"/> | 50.000 | 51.991 | 910727.45 | 0.6122 | P | 2.1 | 4.0 |
| 9 | <input type="checkbox"/> | 100.000 | 98.972 | 1733555.00 | 1.1642 | A | 3.3 | -1.0 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 3859.40 | 0.0025 | P | 0.6 | |

$$y = 0.0117 * x + 0.0014$$

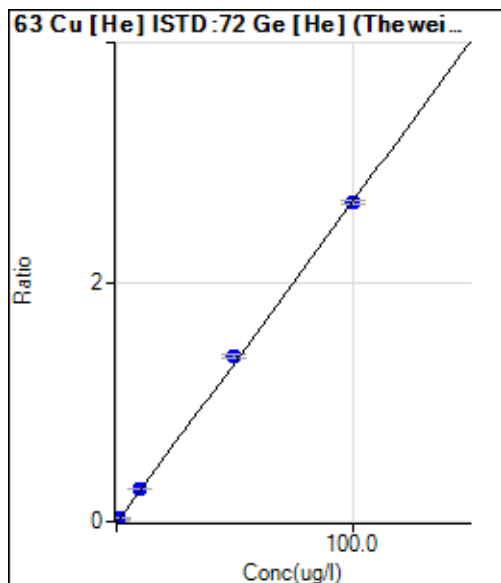
R = 0.9998

DL = 0.02792 ug/l

BEC = 0.1159 ug/l

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|-----------|--------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 683.55 | 0.0031 | P | 3.4 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.042 | 920.51 | 0.0042 | P | 3.6 | 67.2 |
| 3 | <input type="checkbox"/> | 0.050 | 0.072 | 1104.49 | 0.0050 | P | 4.9 | 44.3 |
| 4 | <input type="checkbox"/> | 0.100 | 0.106 | 1301.13 | 0.0059 | P | 2.6 | 5.7 |
| 5 | <input type="checkbox"/> | 0.500 | 0.679 | 4679.15 | 0.0213 | P | 1.9 | 35.8 |
| 6 | <input type="checkbox"/> | 1.000 | 1.101 | 7029.62 | 0.0326 | P | 1.5 | 10.1 |
| 7 | <input type="checkbox"/> | 10.000 | 10.327 | 62344.35 | 0.2803 | P | 0.3 | 3.3 |
| 8 | <input type="checkbox"/> | 50.000 | 51.447 | 312373.02 | 1.3839 | P | 1.9 | 2.9 |
| 9 | <input type="checkbox"/> | 100.000 | 99.242 | 604824.42 | 2.6668 | P | 1.3 | -0.8 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 1166.15 | 0.0051 | P | 4.3 | |

$y = 0.0268 * x + 0.0031$

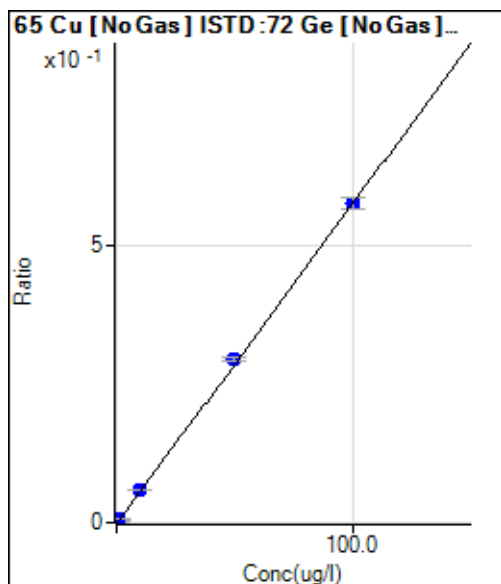
$R = 0.9999$

DL = 0.01167 ug/l

BEC = 0.1144 ug/l

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|-----------|--------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 975.09 | 0.0006 | P | 8.1 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.034 | 1251.89 | 0.0008 | P | 4.0 | 36.6 |
| 3 | <input type="checkbox"/> | 0.050 | 0.056 | 1451.32 | 0.0010 | P | 1.8 | 12.7 |
| 4 | <input type="checkbox"/> | 0.100 | 0.091 | 1770.16 | 0.0012 | P | 9.1 | -8.6 |
| 5 | <input type="checkbox"/> | 0.500 | 0.605 | 6489.39 | 0.0041 | P | 2.2 | 21.1 |
| 6 | <input type="checkbox"/> | 1.000 | 1.046 | 10004.79 | 0.0067 | P | 4.1 | 4.6 |
| 7 | <input type="checkbox"/> | 10.000 | 10.131 | 88114.20 | 0.0593 | P | 2.0 | 1.3 |
| 8 | <input type="checkbox"/> | 50.000 | 50.949 | 439484.03 | 0.2955 | P | 3.2 | 1.9 |
| 9 | <input type="checkbox"/> | 100.000 | 99.511 | 858285.56 | 0.5765 | P | 3.8 | -0.5 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 1764.82 | 0.0012 | P | 4.8 | |

$y = 0.0058 * x + 6.4566E-004$

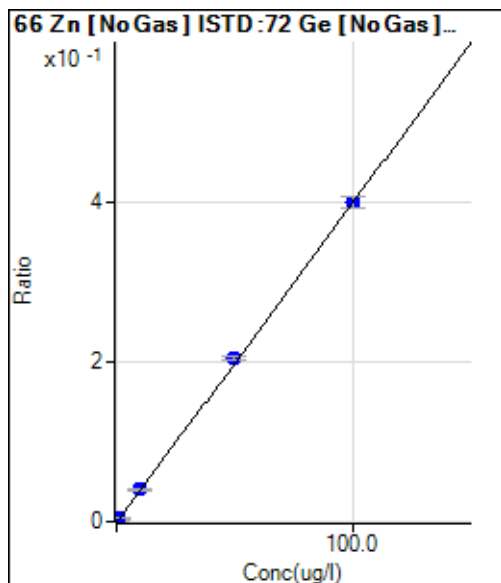
$R = 0.9999$

DL = 0.02703 ug/l

BEC = 0.1116 ug/l

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|-----------|--------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 1036.01 | 0.0007 | P | 7.7 | |
| 2 | <input type="checkbox"/> | | | 1375.27 | 0.0009 | P | 1.9 | |
| 3 | <input type="checkbox"/> | 0.050 | 0.095 | 1598.14 | 0.0011 | P | 29.5 | 90.5 |
| 4 | <input type="checkbox"/> | 0.100 | 0.111 | 1704.56 | 0.0011 | P | 8.0 | 11.2 |
| 5 | <input type="checkbox"/> | 0.500 | 0.511 | 4272.92 | 0.0027 | P | 5.2 | 2.1 |
| 6 | <input type="checkbox"/> | 1.000 | 1.039 | 7231.05 | 0.0048 | P | 3.8 | 3.9 |
| 7 | <input type="checkbox"/> | 10.000 | 9.845 | 59558.01 | 0.0401 | P | 2.6 | -1.5 |
| 8 | <input type="checkbox"/> | 50.000 | 50.760 | 302999.73 | 0.2037 | P | 2.8 | 1.5 |
| 9 | <input type="checkbox"/> | 100.000 | 99.635 | 594398.26 | 0.3992 | P | 3.2 | -0.4 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 1309.85 | 0.0009 | P | 5.2 | |

$y = 0.0040 * x + 6.8588E-004$

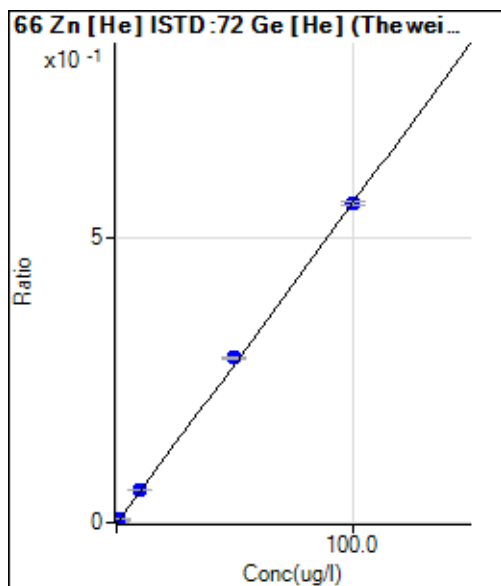
R = 1.0000

DL = 0.03948 ug/l

BEC = 0.1715 ug/l

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|-----------|--------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 226.67 | 0.0010 | P | 26.2 | |
| 2 | <input type="checkbox"/> | | | 274.45 | 0.0013 | P | 8.0 | |
| 3 | <input type="checkbox"/> | 0.050 | 0.080 | 325.56 | 0.0015 | P | 22.3 | 60.8 |
| 4 | <input type="checkbox"/> | 0.100 | 0.090 | 336.67 | 0.0015 | P | 9.2 | -9.9 |
| 5 | <input type="checkbox"/> | 0.500 | 0.609 | 977.82 | 0.0045 | P | 2.4 | 21.8 |
| 6 | <input type="checkbox"/> | 1.000 | 1.085 | 1534.53 | 0.0071 | P | 10.1 | 8.5 |
| 7 | <input type="checkbox"/> | 10.000 | 10.007 | 12758.97 | 0.0574 | P | 0.9 | 0.1 |
| 8 | <input type="checkbox"/> | 50.000 | 51.194 | 65285.54 | 0.2892 | P | 1.4 | 2.4 |
| 9 | <input type="checkbox"/> | 100.000 | 99.401 | 127150.42 | 0.5606 | P | 0.9 | -0.6 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 288.89 | 0.0013 | P | 1.4 | |

$y = 0.0056 * x + 0.0010$

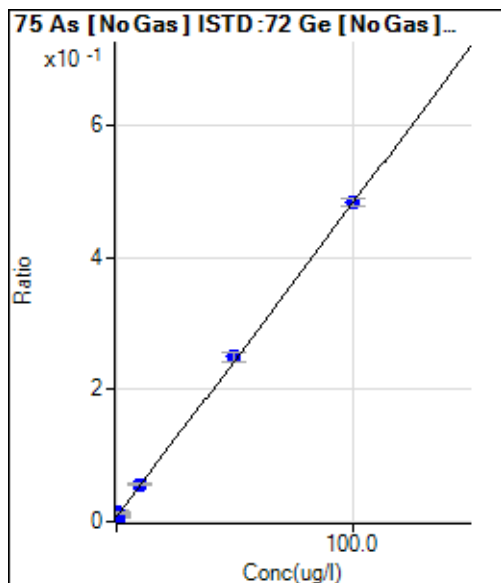
R = 0.9999

DL = 0.1424 ug/l

BEC = 0.1814 ug/l

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|-----------|--------|---------|------|--------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 14311.92 | 0.0095 | P | 51.4 | |
| 2 | <input type="checkbox"/> | 0.025 | 1.232 | 22754.83 | 0.0154 | P | 27.7 | 4828.7 |
| 3 | <input type="checkbox"/> | 0.050 | 0.086 | 14791.24 | 0.0099 | P | 33.9 | 71.9 |
| 4 | <input type="checkbox"/> | 0.100 | -0.210 | 12862.45 | 0.0085 | P | 30.8 | -309.7 |
| 5 | <input type="checkbox"/> | 0.500 | -0.476 | 11276.81 | 0.0073 | P | 55.0 | -195.2 |
| 6 | <input type="checkbox"/> | 1.000 | 0.604 | 18454.02 | 0.0124 | P | 20.5 | -39.6 |
| 7 | <input type="checkbox"/> | 10.000 | 9.837 | 83715.93 | 0.0563 | P | 6.1 | -1.6 |
| 8 | <input type="checkbox"/> | 50.000 | 50.539 | 371429.59 | 0.2498 | P | 5.2 | 1.1 |
| 9 | <input type="checkbox"/> | 100.000 | 99.756 | 720504.90 | 0.4839 | P | 2.7 | -0.2 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 15554.34 | 0.0102 | P | 33.6 | |

$y = 0.0048 * x + 0.0095$

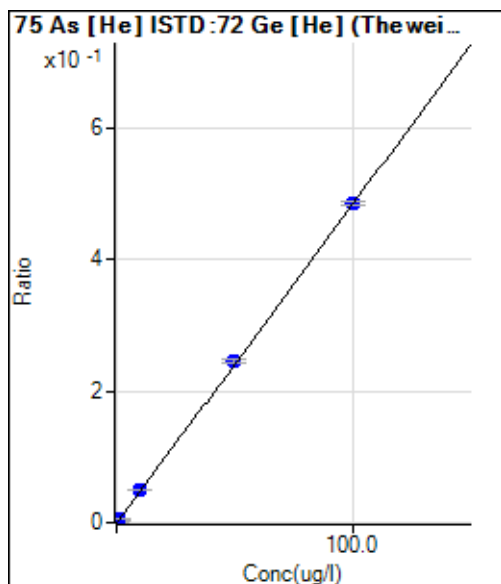
$R = 0.9998$

DL = 3.086 ug/l

BEC = 2.003 ug/l

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|-----------|--------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 282.93 | 0.0013 | P | 2.8 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.047 | 329.00 | 0.0015 | P | 1.1 | 87.3 |
| 3 | <input type="checkbox"/> | 0.050 | 0.061 | 345.73 | 0.0016 | P | 1.8 | 21.9 |
| 4 | <input type="checkbox"/> | 0.100 | 0.112 | 399.47 | 0.0018 | P | 1.5 | 11.6 |
| 5 | <input type="checkbox"/> | 0.500 | 0.522 | 836.68 | 0.0038 | P | 2.9 | 4.4 |
| 6 | <input type="checkbox"/> | 1.000 | 1.076 | 1400.77 | 0.0065 | P | 1.5 | 7.6 |
| 7 | <input type="checkbox"/> | 10.000 | 10.131 | 11240.03 | 0.0505 | P | 0.6 | 1.3 |
| 8 | <input type="checkbox"/> | 50.000 | 50.448 | 55645.99 | 0.2465 | P | 1.9 | 0.9 |
| 9 | <input type="checkbox"/> | 100.000 | 99.762 | 110292.34 | 0.4863 | P | 0.9 | -0.2 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 356.07 | 0.0016 | P | 5.4 | |

$y = 0.0049 * x + 0.0013$

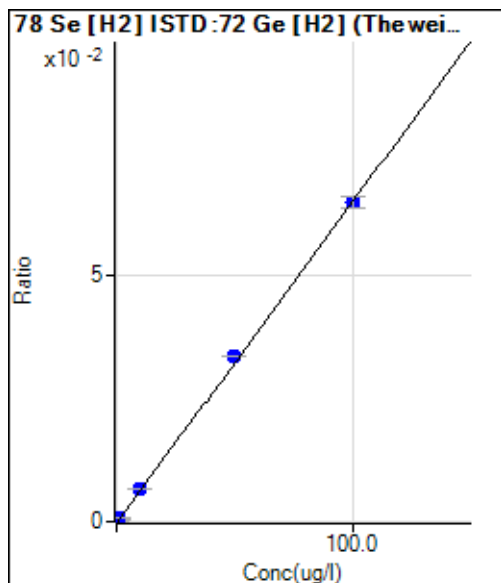
$R = 1.0000$

DL = 0.02213 ug/l

BEC = 0.2614 ug/l

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|----------|--------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 34.11 | 0.0000 | P | 5.3 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.023 | 48.89 | 0.0000 | P | 1.9 | -8.2 |
| 3 | <input type="checkbox"/> | 0.050 | 0.051 | 67.56 | 0.0001 | P | 4.8 | 1.7 |
| 4 | <input type="checkbox"/> | 0.100 | 0.098 | 98.00 | 0.0001 | P | 10.5 | -1.9 |
| 5 | <input type="checkbox"/> | 0.500 | 0.508 | 367.34 | 0.0004 | P | 4.4 | 1.7 |
| 6 | <input type="checkbox"/> | 1.000 | 1.047 | 705.35 | 0.0007 | P | 1.8 | 4.7 |
| 7 | <input type="checkbox"/> | 10.000 | 10.096 | 6802.59 | 0.0066 | P | 1.3 | 1.0 |
| 8 | <input type="checkbox"/> | 50.000 | 51.442 | 34825.00 | 0.0336 | P | 0.9 | 2.9 |
| 9 | <input type="checkbox"/> | 100.000 | 99.269 | 65895.58 | 0.0647 | P | 3.9 | -0.7 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 101.33 | 0.0001 | P | 5.2 | |

$$y = 6.5157E-004 * x + 3.4360E-005$$

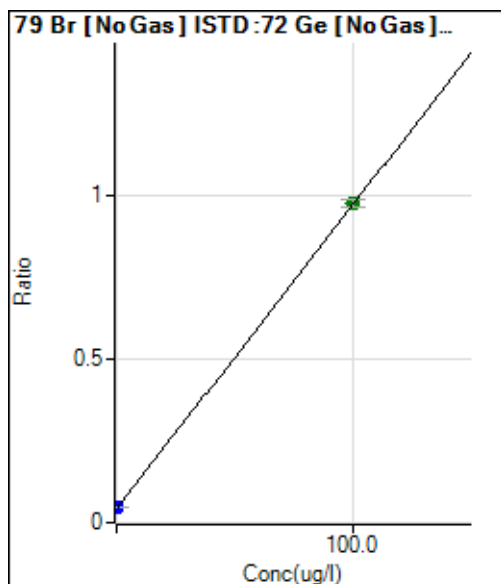
$$R = 0.9999$$

$$DL = 0.008357 \text{ ug/l}$$

$$BEC = 0.05273 \text{ ug/l}$$

$$\text{Weight: } 1/y$$

$$\text{Min Conc: } <\text{None}>$$



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|---------|------------|------------|--------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 72020.13 | 0.0476 | P | 6.9 | |
| 2 | <input type="checkbox"/> | | | 231093.09 | 0.1557 | P | 4.3 | |
| 3 | <input type="checkbox"/> | | | 192753.32 | 0.1291 | P | 3.3 | |
| 4 | <input type="checkbox"/> | | | 205883.64 | 0.1366 | P | 2.6 | |
| 5 | <input type="checkbox"/> | | | 227555.00 | 0.1455 | P | 3.3 | |
| 6 | <input type="checkbox"/> | | | 192783.51 | 0.1291 | P | 5.1 | |
| 7 | <input type="checkbox"/> | | | 213955.46 | 0.1439 | P | 1.8 | |
| 8 | <input type="checkbox"/> | | | 257834.03 | 0.1733 | P | 2.7 | |
| 9 | <input type="checkbox"/> | | | 239931.99 | 0.1611 | P | 2.8 | |
| 10 | <input type="checkbox"/> | | | | | | | |
| 11 | <input type="checkbox"/> | 100.000 | 100.000 | 1484320.77 | 0.9767 | A | 2.2 | 0.0 |

$$y = 0.0093 * x + 0.0476$$

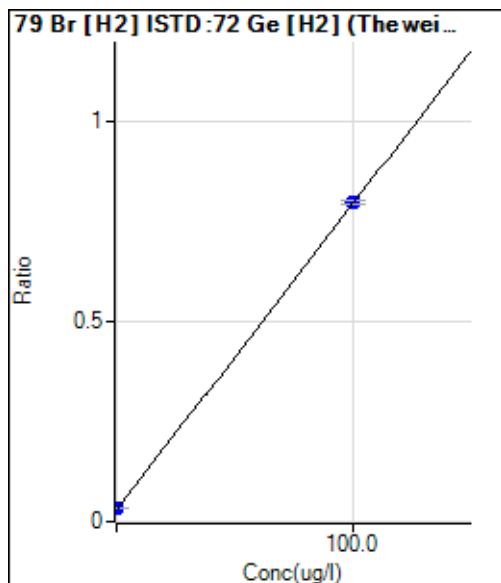
$$R = 1.0000$$

$$DL = 1.056 \text{ ug/l}$$

$$BEC = 5.123 \text{ ug/l}$$

$$\text{Weight: } 1/y$$

$$\text{Min Conc: } <\text{None}>$$



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|---------|------------|-----------|--------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 33679.13 | 0.0339 | P | 2.7 | |
| 2 | <input type="checkbox"/> | | | 121136.04 | 0.1222 | P | 2.2 | |
| 3 | <input type="checkbox"/> | | | 102042.16 | 0.1022 | P | 5.5 | |
| 4 | <input type="checkbox"/> | | | 106090.59 | 0.1064 | P | 5.8 | |
| 5 | <input type="checkbox"/> | | | 119143.43 | 0.1186 | P | 0.9 | |
| 6 | <input type="checkbox"/> | | | 98256.86 | 0.0998 | P | 1.8 | |
| 7 | <input type="checkbox"/> | | | 109732.49 | 0.1067 | P | 1.8 | |
| 8 | <input type="checkbox"/> | | | 139268.44 | 0.1342 | P | 1.8 | |
| 9 | <input type="checkbox"/> | | | 122783.70 | 0.1206 | P | 3.2 | |
| 10 | <input type="checkbox"/> | | | | | | | |
| 11 | <input type="checkbox"/> | 100.000 | 100.000 | 791803.56 | 0.7962 | P | 1.1 | 0.0 |

$y = 0.0076 * x + 0.0339$

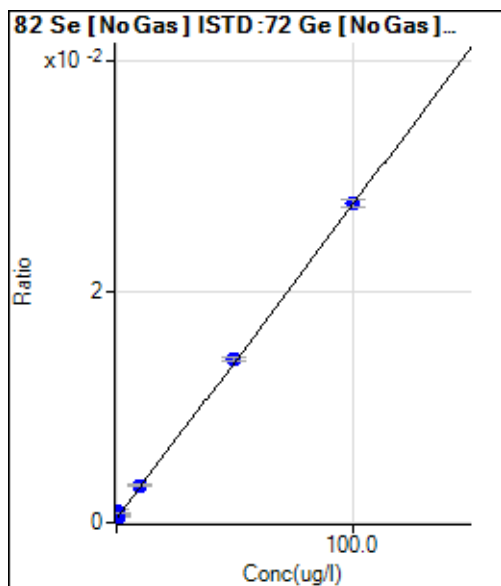
R = 1.0000

DL = 0.3617 ug/l

BEC = 4.452 ug/l

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|----------|--------|---------|------|--------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 752.88 | 0.0005 | P | 16.2 | |
| 2 | <input type="checkbox"/> | 0.025 | 1.924 | 1509.97 | 0.0010 | P | 20.8 | 7594.4 |
| 3 | <input type="checkbox"/> | 0.050 | 0.041 | 758.35 | 0.0005 | P | 2.7 | -18.0 |
| 4 | <input type="checkbox"/> | 0.100 | -0.038 | 733.28 | 0.0005 | P | 2.7 | -138.0 |
| 5 | <input type="checkbox"/> | 0.500 | 0.170 | 848.36 | 0.0005 | P | 19.1 | -66.0 |
| 6 | <input type="checkbox"/> | 1.000 | 1.261 | 1254.67 | 0.0008 | P | 17.9 | 26.1 |
| 7 | <input type="checkbox"/> | 10.000 | 10.119 | 4831.79 | 0.0033 | P | 3.7 | 1.2 |
| 8 | <input type="checkbox"/> | 50.000 | 50.227 | 21064.25 | 0.0142 | P | 3.3 | 0.5 |
| 9 | <input type="checkbox"/> | 100.000 | 99.873 | 41206.27 | 0.0277 | P | 2.4 | -0.1 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 1603.66 | 0.0011 | P | 2.1 | |

$y = 2.7208E-004 * x + 4.9681E-004$

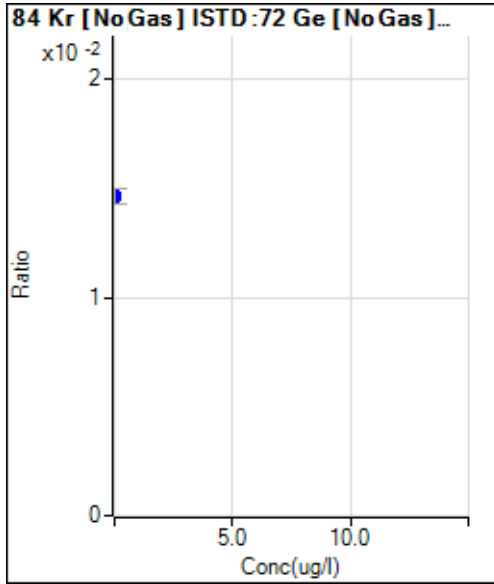
R = 0.9998

DL = 0.8863 ug/l

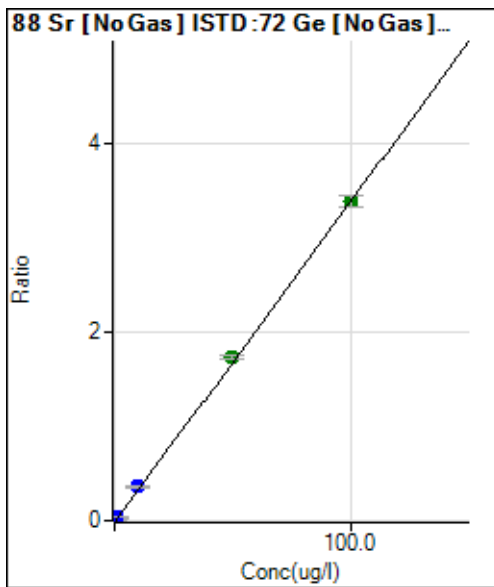
BEC = 1.826 ug/l

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|-------|------------|----------|--------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000 | | 22139.70 | 0.0147 | P | 4.2 | |
| 2 | <input type="checkbox"/> | | | 34199.78 | 0.0230 | P | 4.3 | |
| 3 | <input type="checkbox"/> | | | 20364.12 | 0.0137 | P | 11.0 | |
| 4 | <input type="checkbox"/> | | | 18208.78 | 0.0121 | P | 1.3 | |
| 5 | <input type="checkbox"/> | | | 22106.43 | 0.0141 | P | 2.6 | |
| 6 | <input type="checkbox"/> | | | 22616.20 | 0.0151 | P | 2.9 | |
| 7 | <input type="checkbox"/> | | | 25638.52 | 0.0172 | P | 1.4 | |
| 8 | <input type="checkbox"/> | | | 39015.42 | 0.0262 | P | 2.0 | |
| 9 | <input type="checkbox"/> | | | 54330.93 | 0.0365 | P | 2.9 | |
| 10 | <input type="checkbox"/> | | | | | | | |
| 11 | <input type="checkbox"/> | | | 22332.95 | 0.0147 | P | 4.8 | |



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|------------|--------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 808.43 | 0.0005 | P | 7.5 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.026 | 2096.00 | 0.0014 | P | 1.0 | 2.8 |
| 3 | <input type="checkbox"/> | 0.050 | 0.060 | 3829.60 | 0.0026 | P | 5.7 | 19.2 |
| 4 | <input type="checkbox"/> | 0.100 | 0.112 | 6555.17 | 0.0043 | P | 2.2 | 11.9 |
| 5 | <input type="checkbox"/> | 0.500 | 0.494 | 27205.23 | 0.0174 | P | 1.9 | -1.1 |
| 6 | <input type="checkbox"/> | 1.000 | 1.064 | 54976.46 | 0.0368 | P | 4.4 | 6.4 |
| 7 | <input type="checkbox"/> | 10.000 | 10.536 | 534700.84 | 0.3597 | P | 2.1 | 5.4 |
| 8 | <input type="checkbox"/> | 50.000 | 50.827 | 2578193.26 | 1.7331 | A | 1.9 | 1.7 |
| 9 | <input type="checkbox"/> | 100.000 | 99.532 | 5052564.12 | 3.3934 | A | 3.2 | -0.5 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 931.52 | 0.0006 | P | 6.0 | |

$y = 0.0341 * x + 5.3504E-004$

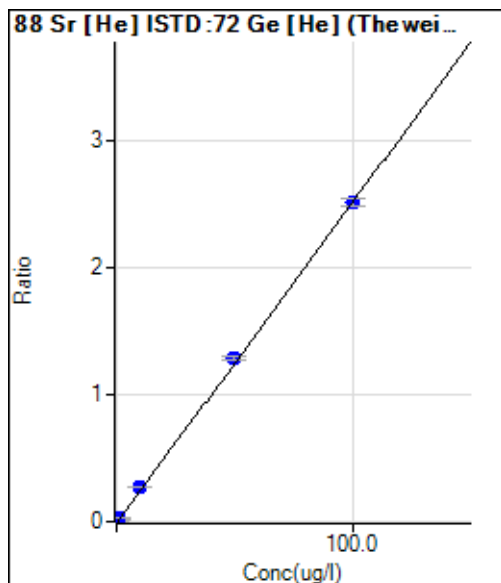
R = 0.9999

DL = 0.003542 ug/l

BEC = 0.0157 ug/l

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|-----------|--------|---------|------|-------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 295.56 | 0.0013 | P | 9.0 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.021 | 407.79 | 0.0019 | P | 7.9 | -16.0 |
| 3 | <input type="checkbox"/> | 0.050 | 0.056 | 606.68 | 0.0027 | P | 11.0 | 12.6 |
| 4 | <input type="checkbox"/> | 0.100 | 0.117 | 940.04 | 0.0043 | P | 3.1 | 16.6 |
| 5 | <input type="checkbox"/> | 0.500 | 0.518 | 3165.93 | 0.0144 | P | 5.8 | 3.7 |
| 6 | <input type="checkbox"/> | 1.000 | 1.080 | 6155.81 | 0.0286 | P | 2.9 | 8.0 |
| 7 | <input type="checkbox"/> | 10.000 | 10.586 | 59719.25 | 0.2685 | P | 0.8 | 5.9 |
| 8 | <input type="checkbox"/> | 50.000 | 50.995 | 290720.88 | 1.2881 | P | 2.8 | 2.0 |
| 9 | <input type="checkbox"/> | 100.000 | 99.443 | 569391.56 | 2.5106 | P | 1.9 | -0.6 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 294.45 | 0.0013 | P | 11.7 | |

$$y = 0.0252 * x + 0.0013$$

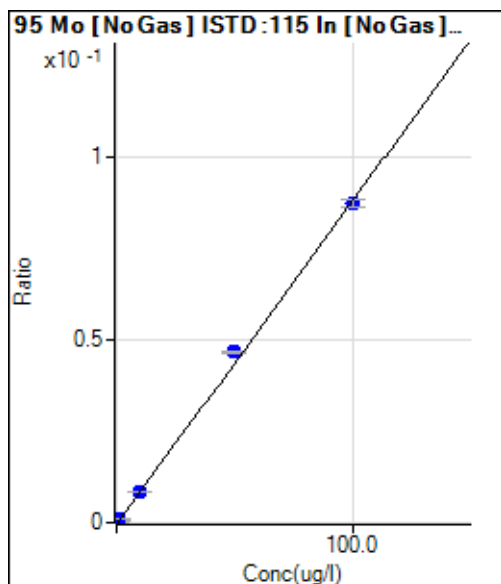
$$R = 0.9999$$

$$DL = 0.01427 \text{ ug/l}$$

$$BEC = 0.0526 \text{ ug/l}$$

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|---------|------------|------------|--------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 61.11 | 0.0000 | P | 10.0 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.024 | 311.12 | 0.0000 | P | 16.7 | -4.7 |
| 3 | <input type="checkbox"/> | 0.050 | 0.052 | 625.57 | 0.0001 | P | 7.3 | 4.5 |
| 4 | <input type="checkbox"/> | 0.100 | 0.107 | 1242.29 | 0.0001 | P | 3.9 | 7.4 |
| 5 | <input type="checkbox"/> | 0.500 | 0.478 | 5174.31 | 0.0004 | P | 2.7 | -4.4 |
| 6 | <input type="checkbox"/> | 1.000 | 0.948 | 10279.32 | 0.0008 | P | 3.5 | -5.2 |
| 7 | <input type="checkbox"/> | 10.000 | 9.444 | 101415.49 | 0.0084 | P | 1.4 | -5.6 |
| 8 | <input type="checkbox"/> | 50.000 | 52.697 | 547189.31 | 0.0467 | P | 0.4 | 5.4 |
| 9 | <input type="checkbox"/> | 100.000 | 98.708 | 1028871.51 | 0.0874 | P | 2.4 | -1.3 |
| 10 | <input type="checkbox"/> | | | | | | | |
| 11 | <input type="checkbox"/> | | | 214.45 | 0.0000 | P | 15.8 | |

$$y = 8.8522E-004 * x + 5.0155E-006$$

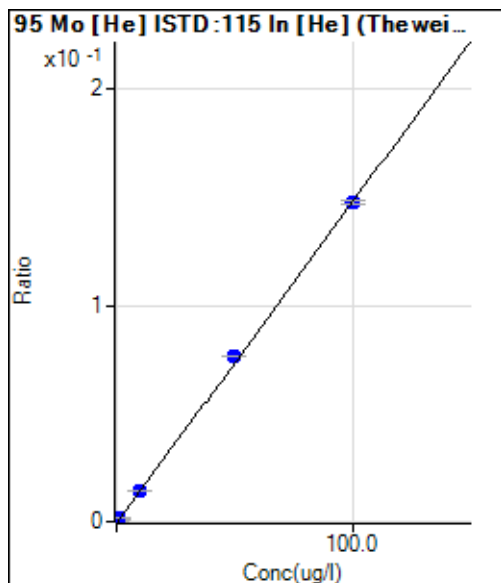
$$R = 0.9995$$

$$DL = 0.001702 \text{ ug/l}$$

$$BEC = 0.005666 \text{ ug/l}$$

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|---------|------------|-----------|--------|---------|------|-------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 22.22 | 0.0000 | P | 48.5 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.024 | 114.44 | 0.0000 | P | 12.4 | -4.1 |
| 3 | <input type="checkbox"/> | 0.050 | 0.047 | 205.56 | 0.0001 | P | 15.4 | -5.5 |
| 4 | <input type="checkbox"/> | 0.100 | 0.094 | 390.01 | 0.0001 | P | 7.4 | -6.2 |
| 5 | <input type="checkbox"/> | 0.500 | 0.447 | 1765.68 | 0.0007 | P | 5.2 | -10.6 |
| 6 | <input type="checkbox"/> | 1.000 | 0.968 | 3773.86 | 0.0014 | P | 5.4 | -3.2 |
| 7 | <input type="checkbox"/> | 10.000 | 9.619 | 37609.59 | 0.0143 | P | 1.8 | -3.8 |
| 8 | <input type="checkbox"/> | 50.000 | 51.512 | 196018.83 | 0.0766 | P | 0.8 | 3.0 |
| 9 | <input type="checkbox"/> | 100.000 | 99.283 | 371607.82 | 0.1477 | P | 1.3 | -0.7 |
| 10 | <input type="checkbox"/> | | | | | | | |
| 11 | <input type="checkbox"/> | | | 62.22 | 0.0000 | P | 8.6 | |

$$y = 0.0015 * x + 8.4456E-006$$

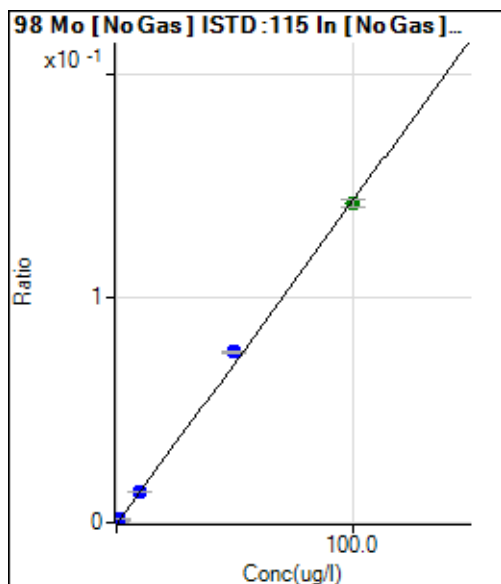
$$R = 0.9998$$

$$DL = 0.008256 \text{ ug/l}$$

$$BEC = 0.005678 \text{ ug/l}$$

$$\text{Weight: } 1/y$$

$$\text{Min Conc: } <\text{None}>$$



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|---------|------------|------------|--------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 95.21 | 0.0000 | P | 18.4 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.024 | 500.50 | 0.0000 | P | 11.0 | -5.1 |
| 3 | <input type="checkbox"/> | 0.050 | 0.056 | 1076.72 | 0.0001 | P | 8.5 | 11.7 |
| 4 | <input type="checkbox"/> | 0.100 | 0.100 | 1891.60 | 0.0002 | P | 3.9 | 0.3 |
| 5 | <input type="checkbox"/> | 0.500 | 0.488 | 8597.39 | 0.0007 | P | 3.6 | -2.3 |
| 6 | <input type="checkbox"/> | 1.000 | 0.961 | 16961.80 | 0.0014 | P | 1.8 | -3.9 |
| 7 | <input type="checkbox"/> | 10.000 | 9.520 | 166472.98 | 0.0137 | P | 1.9 | -4.8 |
| 8 | <input type="checkbox"/> | 50.000 | 52.691 | 890665.03 | 0.0760 | P | 1.9 | 5.4 |
| 9 | <input type="checkbox"/> | 100.000 | 98.703 | 1675290.66 | 0.1423 | A | 2.4 | -1.3 |
| 10 | <input type="checkbox"/> | | | | | | | |
| 11 | <input type="checkbox"/> | | | 284.32 | 0.0000 | P | 12.6 | |

$$y = 0.0014 * x + 7.8122E-006$$

$$R = 0.9995$$

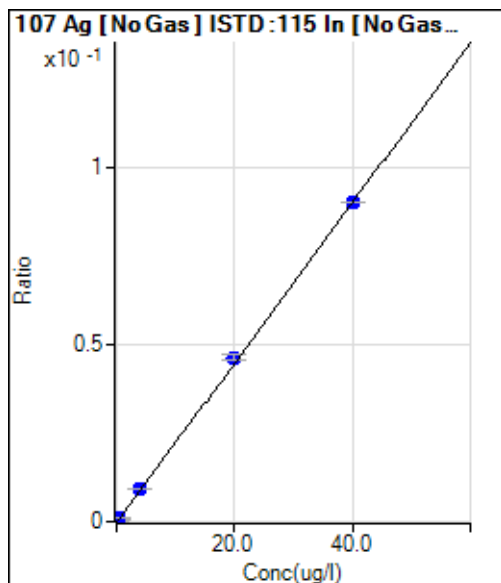
$$DL = 0.002995 \text{ ug/l}$$

$$BEC = 0.00542 \text{ ug/l}$$

$$\text{Weight: } 1/y$$

$$\text{Min Conc: } <\text{None}>$$

Calibration for 026_QC1.d



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|--------|------------|------------|--------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 1866.21 | 0.0002 | P | 2.9 | |
| 2 | <input type="checkbox"/> | 0.010 | 0.014 | 2207.07 | 0.0002 | P | 5.1 | 40.5 |
| 3 | <input type="checkbox"/> | 0.020 | 0.026 | 2581.95 | 0.0002 | P | 6.8 | 28.6 |
| 4 | <input type="checkbox"/> | 0.040 | 0.045 | 3169.63 | 0.0003 | P | 0.4 | 12.5 |
| 5 | <input type="checkbox"/> | 0.200 | 0.206 | 7485.67 | 0.0006 | P | 6.0 | 2.9 |
| 6 | <input type="checkbox"/> | 0.400 | 0.413 | 13271.54 | 0.0011 | P | 1.0 | 3.3 |
| 7 | <input type="checkbox"/> | 4.000 | 3.956 | 110599.31 | 0.0091 | P | 1.5 | -1.1 |
| 8 | <input type="checkbox"/> | 20.000 | 20.432 | 544954.70 | 0.0465 | P | 2.9 | 2.2 |
| 9 | <input type="checkbox"/> | 40.000 | 39.788 | 1064111.98 | 0.0904 | P | 0.6 | -0.5 |
| 10 | <input type="checkbox"/> | | | | | | | |
| 11 | <input type="checkbox"/> | | | 17938.64 | 0.0015 | P | 11.2 | |

$$y = 0.0023 * x + 1.5335E-004$$

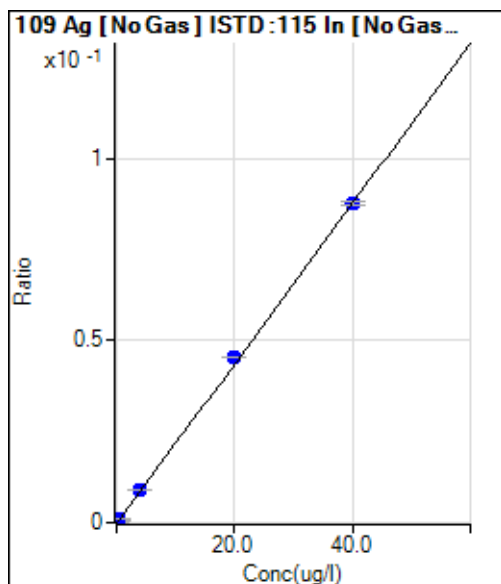
$$R = 0.9999$$

$$DL = 0.005917 \text{ ug/l}$$

$$BEC = 0.06763 \text{ ug/l}$$

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|--------|------------|------------|--------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 1756.15 | 0.0001 | P | 4.4 | |
| 2 | <input type="checkbox"/> | 0.010 | 0.017 | 2162.37 | 0.0002 | P | 3.2 | 68.9 |
| 3 | <input type="checkbox"/> | 0.020 | 0.030 | 2562.60 | 0.0002 | P | 5.6 | 49.3 |
| 4 | <input type="checkbox"/> | 0.040 | 0.047 | 3075.58 | 0.0002 | P | 4.3 | 17.5 |
| 5 | <input type="checkbox"/> | 0.200 | 0.211 | 7365.56 | 0.0006 | P | 3.5 | 5.7 |
| 6 | <input type="checkbox"/> | 0.400 | 0.416 | 12905.74 | 0.0011 | P | 2.2 | 4.0 |
| 7 | <input type="checkbox"/> | 4.000 | 3.932 | 106660.22 | 0.0088 | P | 1.9 | -1.7 |
| 8 | <input type="checkbox"/> | 20.000 | 20.518 | 531324.28 | 0.0453 | P | 0.3 | 2.6 |
| 9 | <input type="checkbox"/> | 40.000 | 39.748 | 1031798.03 | 0.0876 | P | 1.0 | -0.6 |
| 10 | <input type="checkbox"/> | | | | | | | |
| 11 | <input type="checkbox"/> | | | 17552.71 | 0.0014 | P | 13.0 | |

$$y = 0.0022 * x + 1.4433E-004$$

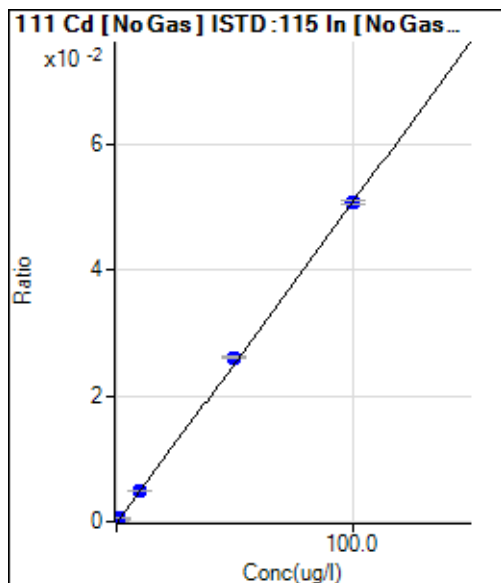
$$R = 0.9999$$

$$DL = 0.00868 \text{ ug/l}$$

$$BEC = 0.06558 \text{ ug/l}$$

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|-----------|--------|---------|--------|-------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | -3.64 | 0.0000 | P | -1477. | |
| 2 | <input type="checkbox"/> | 0.025 | 0.017 | 98.41 | 0.0000 | P | 69.3 | -32.9 |
| 3 | <input type="checkbox"/> | 0.050 | 0.055 | 338.07 | 0.0000 | P | 18.5 | 9.2 |
| 4 | <input type="checkbox"/> | 0.100 | 0.105 | 662.13 | 0.0001 | P | 5.9 | 4.9 |
| 5 | <input type="checkbox"/> | 0.500 | 0.482 | 2973.27 | 0.0002 | P | 2.2 | -3.6 |
| 6 | <input type="checkbox"/> | 1.000 | 0.992 | 6169.39 | 0.0005 | P | 1.8 | -0.8 |
| 7 | <input type="checkbox"/> | 10.000 | 9.796 | 60723.69 | 0.0050 | P | 1.1 | -2.0 |
| 8 | <input type="checkbox"/> | 50.000 | 51.174 | 306778.73 | 0.0262 | P | 2.0 | 2.3 |
| 9 | <input type="checkbox"/> | 100.000 | 99.434 | 598644.24 | 0.0508 | P | 0.7 | -0.6 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 90.24 | 0.0000 | P | 47.7 | |

$$y = 5.1130E-004 * x - 2.9580E-007$$

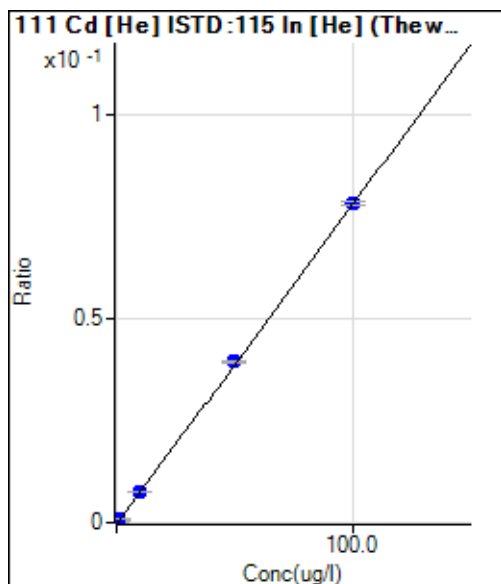
$$R = 0.9999$$

$$DL = 0.02564 \text{ ug/l}$$

$$BEC = -0.0005785 \text{ ug/l}$$

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|-----------|--------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 6.45 | 0.0000 | P | 20.6 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.025 | 56.78 | 0.0000 | P | 8.8 | -1.0 |
| 3 | <input type="checkbox"/> | 0.050 | 0.054 | 116.34 | 0.0000 | P | 3.8 | 7.3 |
| 4 | <input type="checkbox"/> | 0.100 | 0.108 | 230.00 | 0.0001 | P | 1.2 | 8.1 |
| 5 | <input type="checkbox"/> | 0.500 | 0.482 | 999.93 | 0.0004 | P | 1.7 | -3.5 |
| 6 | <input type="checkbox"/> | 1.000 | 0.993 | 2037.93 | 0.0008 | P | 1.0 | -0.7 |
| 7 | <input type="checkbox"/> | 10.000 | 9.794 | 20200.08 | 0.0077 | P | 2.0 | -2.1 |
| 8 | <input type="checkbox"/> | 50.000 | 50.434 | 101287.63 | 0.0396 | P | 1.2 | 0.9 |
| 9 | <input type="checkbox"/> | 100.000 | 99.804 | 197153.20 | 0.0784 | P | 1.1 | -0.2 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 41.44 | 0.0000 | P | 8.7 | |

$$y = 7.8510E-004 * x + 2.4451E-006$$

$$R = 1.0000$$

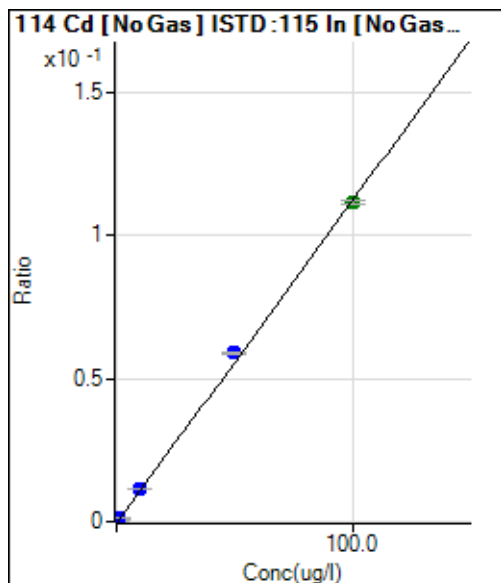
$$DL = 0.001928 \text{ ug/l}$$

$$BEC = 0.003114 \text{ ug/l}$$

Weight: 1/y

Min Conc: <None>

Calibration for 026_QC1.d



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|------------|--------|---------|-------|-------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | -173.12 | 0.0000 | P | -67.0 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.022 | 121.76 | 0.0000 | P | 75.4 | -13.4 |
| 3 | <input type="checkbox"/> | 0.050 | 0.051 | 535.56 | 0.0000 | P | 8.6 | 2.7 |
| 4 | <input type="checkbox"/> | 0.100 | 0.103 | 1272.25 | 0.0001 | P | 7.7 | 3.2 |
| 5 | <input type="checkbox"/> | 0.500 | 0.494 | 6577.73 | 0.0005 | P | 2.1 | -1.2 |
| 6 | <input type="checkbox"/> | 1.000 | 1.029 | 13997.52 | 0.0011 | P | 1.2 | 2.9 |
| 7 | <input type="checkbox"/> | 10.000 | 10.007 | 137018.81 | 0.0113 | P | 1.1 | 0.1 |
| 8 | <input type="checkbox"/> | 50.000 | 52.289 | 693175.18 | 0.0591 | P | 1.4 | 4.6 |
| 9 | <input type="checkbox"/> | 100.000 | 98.855 | 1316093.25 | 0.1118 | A | 1.2 | -1.1 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 27.04 | 0.0000 | P | 105.3 | |

$$y = 0.0011 * x - 1.4241E-005$$

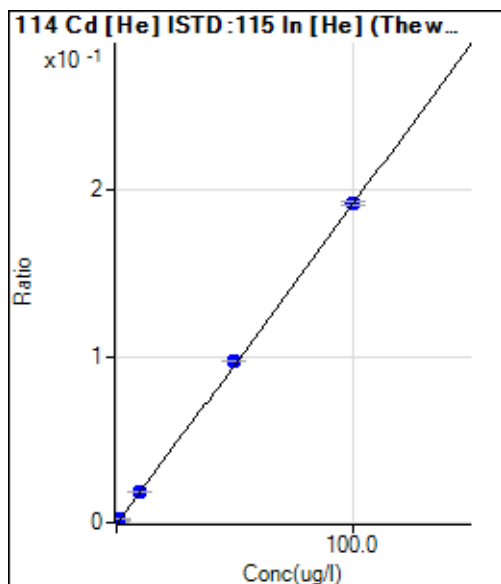
$$R = 0.9997$$

$$DL = 0.02533 \text{ ug/l}$$

$$BEC = -0.01259 \text{ ug/l}$$

$$\text{Weight: } 1/y$$

$$\text{Min Conc: } <\text{None}>$$



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|-----------|--------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 13.69 | 0.0000 | P | 46.5 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.023 | 130.11 | 0.0001 | P | 3.1 | -6.8 |
| 3 | <input type="checkbox"/> | 0.050 | 0.055 | 288.98 | 0.0001 | P | 3.8 | 9.4 |
| 4 | <input type="checkbox"/> | 0.100 | 0.106 | 551.54 | 0.0002 | P | 2.7 | 5.9 |
| 5 | <input type="checkbox"/> | 0.500 | 0.487 | 2478.17 | 0.0009 | P | 1.6 | -2.5 |
| 6 | <input type="checkbox"/> | 1.000 | 0.997 | 5017.06 | 0.0019 | P | 1.4 | -0.3 |
| 7 | <input type="checkbox"/> | 10.000 | 9.794 | 49591.74 | 0.0189 | P | 1.6 | -2.1 |
| 8 | <input type="checkbox"/> | 50.000 | 50.481 | 248902.27 | 0.0973 | P | 1.1 | 1.0 |
| 9 | <input type="checkbox"/> | 100.000 | 99.780 | 483911.74 | 0.1923 | P | 1.2 | -0.2 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 85.78 | 0.0000 | P | 9.6 | |

$$y = 0.0019 * x + 5.2001E-006$$

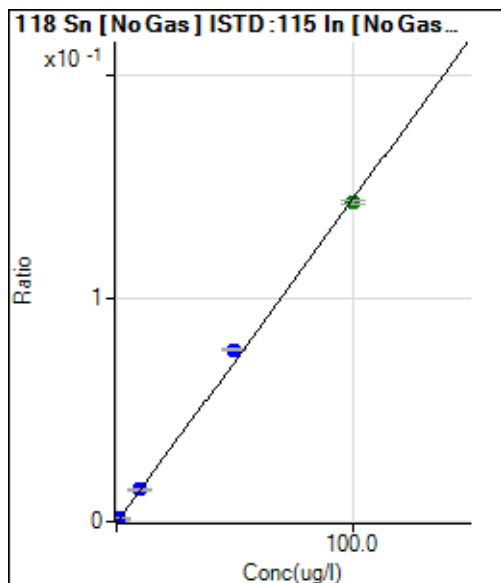
$$R = 1.0000$$

$$DL = 0.003763 \text{ ug/l}$$

$$BEC = 0.002698 \text{ ug/l}$$

$$\text{Weight: } 1/y$$

$$\text{Min Conc: } <\text{None}>$$



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|---------|------------|------------|--------|---------|-----|-------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 3194.03 | 0.0003 | P | 4.4 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.050 | 3999.30 | 0.0003 | P | 3.0 | 102.0 |
| 3 | <input type="checkbox"/> | 0.050 | 0.055 | 4179.02 | 0.0003 | P | 3.9 | 10.1 |
| 4 | <input type="checkbox"/> | 0.100 | 0.098 | 5017.63 | 0.0004 | P | 2.5 | -2.2 |
| 5 | <input type="checkbox"/> | 0.500 | 0.505 | 12004.68 | 0.0010 | P | 5.4 | 0.9 |
| 6 | <input type="checkbox"/> | 1.000 | 0.978 | 20450.99 | 0.0017 | P | 5.4 | -2.2 |
| 7 | <input type="checkbox"/> | 10.000 | 9.707 | 173720.39 | 0.0143 | P | 2.2 | -2.9 |
| 8 | <input type="checkbox"/> | 50.000 | 52.929 | 902672.03 | 0.0770 | P | 1.2 | 5.9 |
| 9 | <input type="checkbox"/> | 100.000 | 98.565 | 1685122.27 | 0.1431 | A | 0.8 | -1.4 |
| 10 | <input type="checkbox"/> | | | | | | | |
| 11 | <input type="checkbox"/> | | | 3959.40 | 0.0003 | P | 2.5 | |

$y = 0.0014 * x + 2.6250E-004$

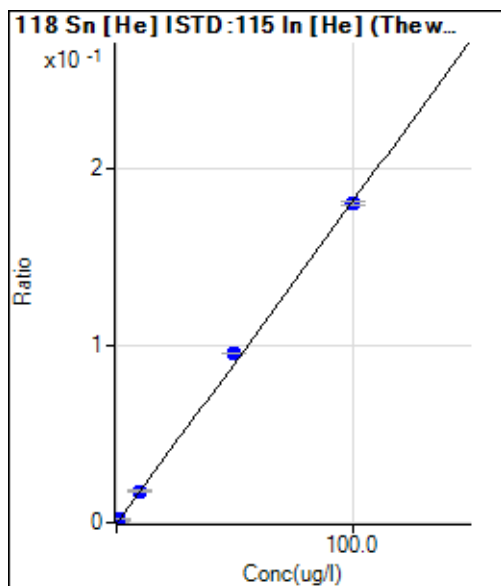
$R = 0.9995$

DL = 0.02393 ug/l

BEC = 0.1811 ug/l

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|---------|------------|-----------|--------|---------|-----|-------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 892.25 | 0.0003 | P | 5.3 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.061 | 1168.95 | 0.0005 | P | 4.9 | 145.5 |
| 3 | <input type="checkbox"/> | 0.050 | 0.038 | 1066.71 | 0.0004 | P | 4.9 | -23.2 |
| 4 | <input type="checkbox"/> | 0.100 | 0.089 | 1317.85 | 0.0005 | P | 2.7 | -11.2 |
| 5 | <input type="checkbox"/> | 0.500 | 0.511 | 3331.53 | 0.0013 | P | 3.8 | 2.3 |
| 6 | <input type="checkbox"/> | 1.000 | 0.975 | 5510.00 | 0.0021 | P | 4.3 | -2.5 |
| 7 | <input type="checkbox"/> | 10.000 | 9.523 | 46437.60 | 0.0177 | P | 3.3 | -4.8 |
| 8 | <input type="checkbox"/> | 50.000 | 52.371 | 244902.88 | 0.0957 | P | 0.2 | 4.7 |
| 9 | <input type="checkbox"/> | 100.000 | 98.863 | 453985.24 | 0.1804 | P | 1.5 | -1.1 |
| 10 | <input type="checkbox"/> | | | | | | | |
| 11 | <input type="checkbox"/> | | | 1123.39 | 0.0004 | P | 1.4 | |

$y = 0.0018 * x + 3.3848E-004$

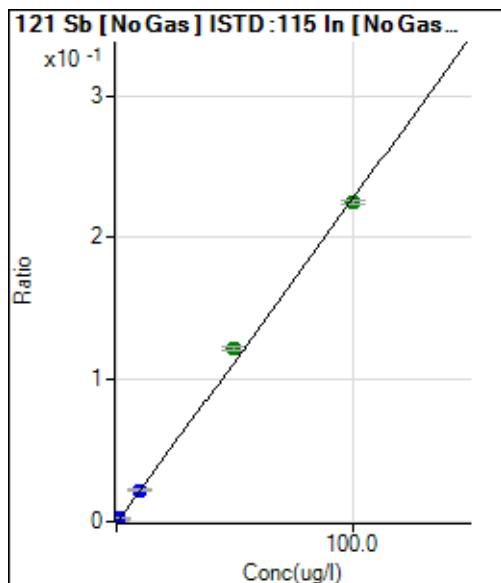
$R = 0.9996$

DL = 0.02954 ug/l

BEC = 0.1858 ug/l

Weight: 1/y

Min Conc: <None>



| | R _j ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|---------|------------|------------|--------|---------|-----|-------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 914.12 | 0.0001 | P | 1.2 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.019 | 1405.21 | 0.0001 | P | 2.4 | -25.0 |
| 3 | <input type="checkbox"/> | 0.050 | 0.045 | 2169.06 | 0.0002 | P | 2.2 | -10.2 |
| 4 | <input type="checkbox"/> | 0.100 | 0.090 | 3473.45 | 0.0003 | P | 1.5 | -10.5 |
| 5 | <input type="checkbox"/> | 0.500 | 0.471 | 13928.94 | 0.0012 | P | 2.2 | -5.7 |
| 6 | <input type="checkbox"/> | 1.000 | 0.971 | 27937.74 | 0.0023 | P | 2.1 | -2.9 |
| 7 | <input type="checkbox"/> | 10.000 | 9.745 | 271110.76 | 0.0224 | P | 1.7 | -2.5 |
| 8 | <input type="checkbox"/> | 50.000 | 53.338 | 1431064.47 | 0.1220 | A | 1.5 | 6.7 |
| 9 | <input type="checkbox"/> | 100.000 | 98.357 | 2649289.10 | 0.2250 | A | 0.9 | -1.6 |
| 10 | <input type="checkbox"/> | | | | | | | |
| 11 | <input type="checkbox"/> | | | 1778.30 | 0.0001 | P | 7.5 | |

$$y = 0.0023 * x + 7.5103E-005$$

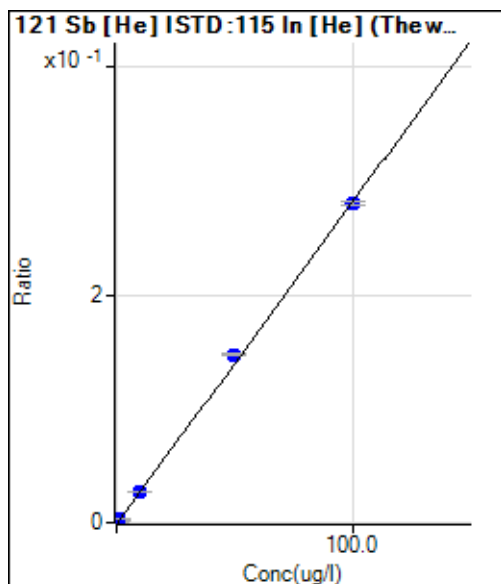
$$R = 0.9993$$

$$DL = 0.001201 \text{ ug/l}$$

$$BEC = 0.03284 \text{ ug/l}$$

$$\text{Weight: } 1/y$$

$$\text{Min Conc: } <\text{None}>$$



| | R _j ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|---------|------------|-----------|--------|---------|-----|-------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 211.69 | 0.0001 | P | 6.8 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.021 | 365.71 | 0.0001 | P | 4.2 | -14.6 |
| 3 | <input type="checkbox"/> | 0.050 | 0.047 | 557.07 | 0.0002 | P | 3.4 | -6.2 |
| 4 | <input type="checkbox"/> | 0.100 | 0.089 | 876.12 | 0.0003 | P | 4.4 | -11.0 |
| 5 | <input type="checkbox"/> | 0.500 | 0.473 | 3724.54 | 0.0014 | P | 1.2 | -5.5 |
| 6 | <input type="checkbox"/> | 1.000 | 0.958 | 7279.95 | 0.0028 | P | 1.1 | -4.2 |
| 7 | <input type="checkbox"/> | 10.000 | 9.540 | 71226.42 | 0.0271 | P | 1.8 | -4.6 |
| 8 | <input type="checkbox"/> | 50.000 | 52.099 | 377950.41 | 0.1478 | P | 0.8 | 4.2 |
| 9 | <input type="checkbox"/> | 100.000 | 98.997 | 706216.82 | 0.2807 | P | 1.4 | -1.0 |
| 10 | <input type="checkbox"/> | | | | | | | |
| 11 | <input type="checkbox"/> | | | 408.38 | 0.0002 | P | 3.9 | |

$$y = 0.0028 * x + 8.0339E-005$$

$$R = 0.9997$$

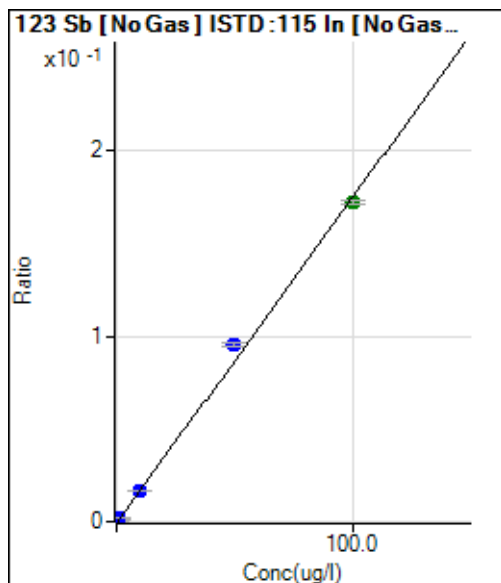
$$DL = 0.005746 \text{ ug/l}$$

$$BEC = 0.02834 \text{ ug/l}$$

$$\text{Weight: } 1/y$$

$$\text{Min Conc: } <\text{None}>$$

Calibration for 026_QC1.d



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|---------|------------|------------|--------|---------|------|-------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 684.09 | 0.0001 | P | 2.7 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.020 | 1090.82 | 0.0001 | P | 2.9 | -19.6 |
| 3 | <input type="checkbox"/> | 0.050 | 0.042 | 1592.92 | 0.0001 | P | 2.5 | -15.6 |
| 4 | <input type="checkbox"/> | 0.100 | 0.089 | 2640.85 | 0.0002 | P | 0.1 | -11.0 |
| 5 | <input type="checkbox"/> | 0.500 | 0.474 | 10747.19 | 0.0009 | P | 3.5 | -5.3 |
| 6 | <input type="checkbox"/> | 1.000 | 0.957 | 21173.01 | 0.0017 | P | 1.6 | -4.3 |
| 7 | <input type="checkbox"/> | 10.000 | 9.623 | 205965.58 | 0.0170 | P | 1.4 | -3.8 |
| 8 | <input type="checkbox"/> | 50.000 | 54.233 | 1119623.67 | 0.0955 | P | 1.4 | 8.5 |
| 9 | <input type="checkbox"/> | 100.000 | 97.922 | 2029514.94 | 0.1724 | A | 0.8 | -2.1 |
| 10 | <input type="checkbox"/> | | | | | | | |
| 11 | <input type="checkbox"/> | | | 1352.87 | 0.0001 | P | 10.7 | |

$$y = 0.0018 * x + 5.6203E-005$$

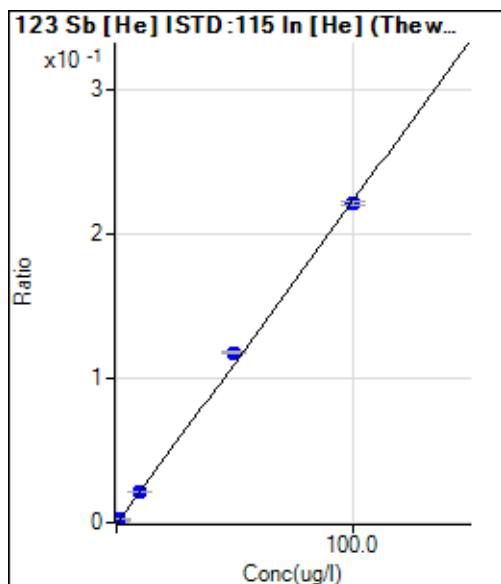
$$R = 0.9989$$

$$DL = 0.002547 \text{ ug/l}$$

$$BEC = 0.03194 \text{ ug/l}$$

$$\text{Weight: } 1/y$$

$$\text{Min Conc: } <\text{None}>$$



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|---------|------------|-----------|--------|---------|-----|-------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 163.69 | 0.0001 | P | 7.9 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.022 | 291.36 | 0.0001 | P | 3.1 | -10.5 |
| 3 | <input type="checkbox"/> | 0.050 | 0.046 | 433.05 | 0.0002 | P | 3.7 | -7.5 |
| 4 | <input type="checkbox"/> | 0.100 | 0.100 | 752.43 | 0.0003 | P | 2.2 | -0.2 |
| 5 | <input type="checkbox"/> | 0.500 | 0.462 | 2876.25 | 0.0011 | P | 3.7 | -7.6 |
| 6 | <input type="checkbox"/> | 1.000 | 0.948 | 5692.06 | 0.0022 | P | 0.4 | -5.2 |
| 7 | <input type="checkbox"/> | 10.000 | 9.594 | 56604.97 | 0.0216 | P | 1.2 | -4.1 |
| 8 | <input type="checkbox"/> | 50.000 | 52.493 | 300932.29 | 0.1176 | P | 1.6 | 5.0 |
| 9 | <input type="checkbox"/> | 100.000 | 98.795 | 556977.50 | 0.2214 | P | 1.0 | -1.2 |
| 10 | <input type="checkbox"/> | | | | | | | |
| 11 | <input type="checkbox"/> | | | 325.70 | 0.0001 | P | 5.0 | |

$$y = 0.0022 * x + 6.2125E-005$$

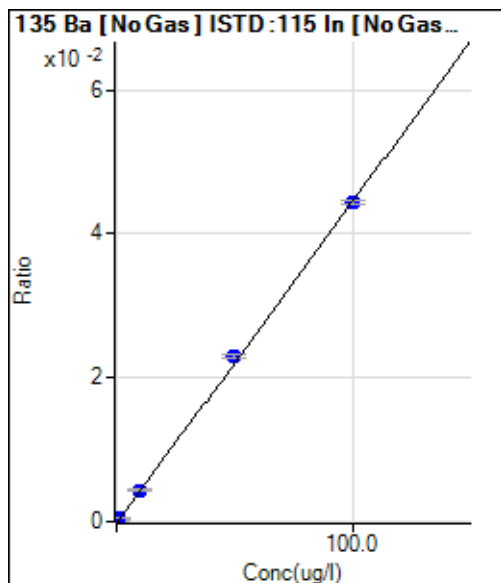
$$R = 0.9996$$

$$DL = 0.006614 \text{ ug/l}$$

$$BEC = 0.02773 \text{ ug/l}$$

$$\text{Weight: } 1/y$$

$$\text{Min Conc: } <\text{None}>$$



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|-----------|--------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 66.53 | 0.0000 | P | 37.3 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.031 | 229.55 | 0.0000 | P | 11.1 | 23.3 |
| 3 | <input type="checkbox"/> | 0.050 | 0.048 | 329.35 | 0.0000 | P | 23.5 | -3.9 |
| 4 | <input type="checkbox"/> | 0.100 | 0.100 | 625.44 | 0.0001 | P | 16.2 | 0.4 |
| 5 | <input type="checkbox"/> | 0.500 | 0.495 | 2741.51 | 0.0002 | P | 3.6 | -1.1 |
| 6 | <input type="checkbox"/> | 1.000 | 0.982 | 5420.35 | 0.0004 | P | 4.4 | -1.8 |
| 7 | <input type="checkbox"/> | 10.000 | 9.801 | 53256.23 | 0.0044 | P | 2.0 | -2.0 |
| 8 | <input type="checkbox"/> | 50.000 | 51.673 | 271270.65 | 0.0231 | P | 2.3 | 3.3 |
| 9 | <input type="checkbox"/> | 100.000 | 99.183 | 522871.44 | 0.0444 | P | 1.3 | -0.8 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 83.17 | 0.0000 | P | 32.6 | |

$$y = 4.4766E-004 * x + 5.4636E-006$$

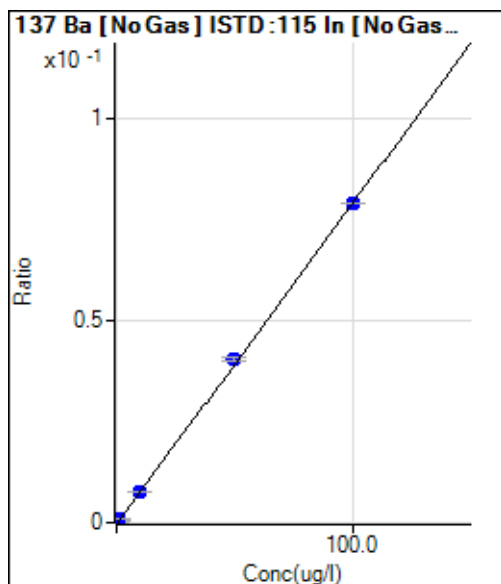
R = 0.9998

DL = 0.01366 ug/l

BEC = 0.0122 ug/l

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|-----------|--------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 99.80 | 0.0000 | P | 9.7 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.026 | 345.99 | 0.0000 | P | 38.4 | 4.8 |
| 3 | <input type="checkbox"/> | 0.050 | 0.050 | 582.19 | 0.0000 | P | 7.2 | -0.7 |
| 4 | <input type="checkbox"/> | 0.100 | 0.100 | 1091.22 | 0.0001 | P | 14.9 | 0.2 |
| 5 | <input type="checkbox"/> | 0.500 | 0.482 | 4738.10 | 0.0004 | P | 3.3 | -3.5 |
| 6 | <input type="checkbox"/> | 1.000 | 0.982 | 9614.26 | 0.0008 | P | 1.3 | -1.8 |
| 7 | <input type="checkbox"/> | 10.000 | 9.554 | 92342.76 | 0.0076 | P | 3.9 | -4.5 |
| 8 | <input type="checkbox"/> | 50.000 | 51.137 | 477360.92 | 0.0407 | P | 2.1 | 2.3 |
| 9 | <input type="checkbox"/> | 100.000 | 99.476 | 932539.26 | 0.0792 | P | 0.2 | -0.5 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 146.38 | 0.0000 | P | 33.1 | |

$$y = 7.9602E-004 * x + 8.1977E-006$$

R = 0.9999

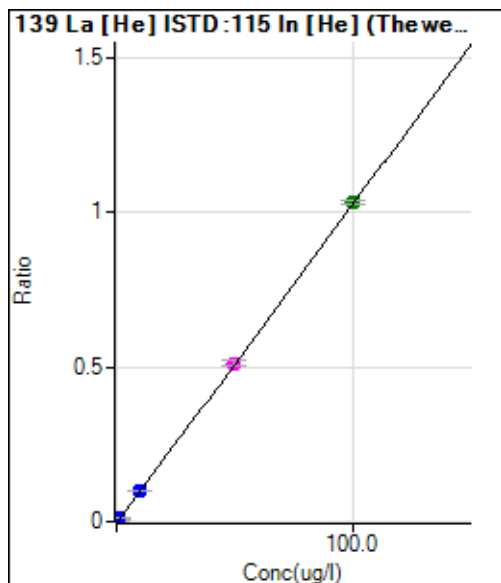
DL = 0.002982 ug/l

BEC = 0.0103 ug/l

Weight: 1/y

Min Conc: <None>

Calibration for 026_QC1.d



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|---------|------------|------------|--------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 24.44 | 0.0000 | P | 21.0 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.023 | 640.02 | 0.0002 | P | 9.0 | -7.9 |
| 3 | <input type="checkbox"/> | 0.050 | 0.056 | 1536.76 | 0.0006 | P | 3.7 | 12.4 |
| 4 | <input type="checkbox"/> | 0.100 | 0.106 | 2911.44 | 0.0011 | P | 2.1 | 6.3 |
| 5 | <input type="checkbox"/> | 0.500 | 0.496 | 13446.55 | 0.0051 | P | 0.7 | -0.7 |
| 6 | <input type="checkbox"/> | 1.000 | 1.010 | 27150.99 | 0.0104 | P | 2.7 | 1.0 |
| 7 | <input type="checkbox"/> | 10.000 | 9.873 | 267307.64 | 0.1018 | P | 1.2 | -1.3 |
| 8 | <input type="checkbox"/> | 50.000 | 49.756 | 1311652.08 | 0.5129 | M | 3.3 | -0.5 |
| 9 | <input type="checkbox"/> | 100.000 | 100.135 | 2597054.39 | 1.0322 | A | 0.6 | 0.1 |
| 10 | <input type="checkbox"/> | | | | | | | |
| 11 | <input type="checkbox"/> | | | 20.00 | 0.0000 | P | 33.2 | |

$$y = 0.0103 * x + 9.2774E-006$$

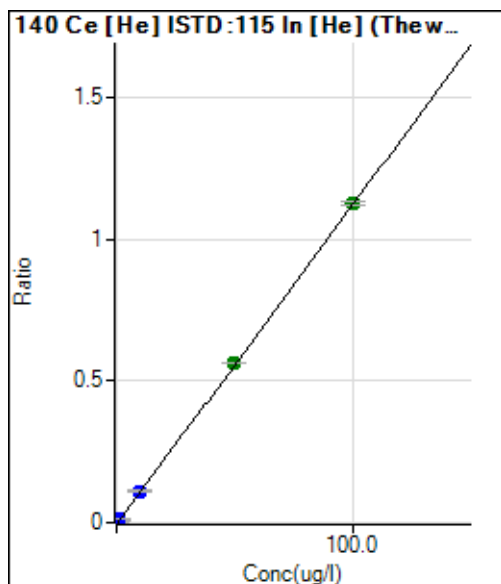
$$R = 1.0000$$

$$DL = 0.0005676 \text{ ug/l}$$

$$BEC = 0.0009 \text{ ug/l}$$

$$\text{Weight: } 1/y$$

$$\text{Min Conc: } <\text{None}>$$



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|---------|------------|------------|--------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 33.33 | 0.0000 | P | 40.4 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.024 | 733.36 | 0.0003 | P | 5.6 | -4.3 |
| 3 | <input type="checkbox"/> | 0.050 | 0.059 | 1780.13 | 0.0007 | P | 3.5 | 18.6 |
| 4 | <input type="checkbox"/> | 0.100 | 0.111 | 3318.19 | 0.0013 | P | 1.1 | 10.6 |
| 5 | <input type="checkbox"/> | 0.500 | 0.484 | 14335.23 | 0.0055 | P | 1.2 | -3.3 |
| 6 | <input type="checkbox"/> | 1.000 | 1.024 | 30115.99 | 0.0116 | P | 1.7 | 2.4 |
| 7 | <input type="checkbox"/> | 10.000 | 9.931 | 294150.95 | 0.1120 | P | 0.7 | -0.7 |
| 8 | <input type="checkbox"/> | 50.000 | 50.142 | 1446387.62 | 0.5654 | A | 0.2 | 0.3 |
| 9 | <input type="checkbox"/> | 100.000 | 99.936 | 2835350.62 | 1.1269 | A | 1.1 | -0.1 |
| 10 | <input type="checkbox"/> | | | | | | | |
| 11 | <input type="checkbox"/> | | | 47.78 | 0.0000 | P | 40.2 | |

$$y = 0.0113 * x + 1.2657E-005$$

$$R = 1.0000$$

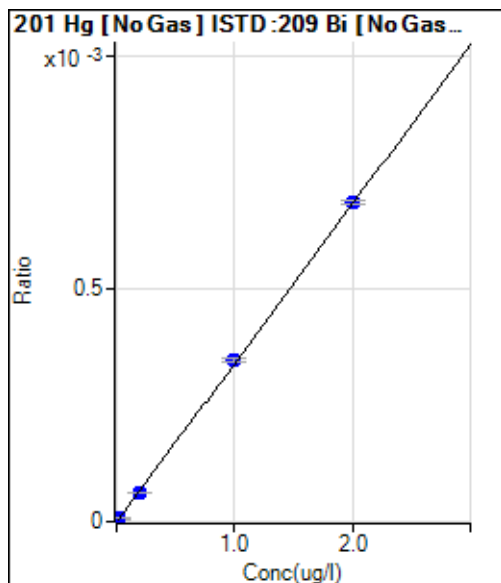
$$DL = 0.00136 \text{ ug/l}$$

$$BEC = 0.001122 \text{ ug/l}$$

$$\text{Weight: } 1/y$$

$$\text{Min Conc: } <\text{None}>$$

Calibration for 026_QC1.d



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|-------|------------|---------|--------|---------|------|--------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 28.99 | 0.0000 | P | 25.0 | |
| 2 | <input type="checkbox"/> | | | 22.33 | 0.0000 | P | 43.6 | |
| 3 | <input type="checkbox"/> | 0.001 | -0.001 | 24.33 | 0.0000 | P | 6.7 | -211.3 |
| 4 | <input type="checkbox"/> | 0.002 | 0.001 | 32.33 | 0.0000 | P | 23.5 | -55.4 |
| 5 | <input type="checkbox"/> | 0.010 | 0.007 | 57.32 | 0.0000 | P | 7.8 | -27.3 |
| 6 | <input type="checkbox"/> | 0.020 | 0.015 | 88.65 | 0.0000 | P | 4.7 | -23.6 |
| 7 | <input type="checkbox"/> | 0.200 | 0.174 | 703.21 | 0.0001 | P | 3.8 | -13.0 |
| 8 | <input type="checkbox"/> | 1.000 | 1.010 | 3679.11 | 0.0003 | P | 1.9 | 1.0 |
| 9 | <input type="checkbox"/> | 2.000 | 1.998 | 7281.53 | 0.0007 | P | 1.2 | -0.1 |
| 10 | <input type="checkbox"/> | | | | | | | |
| 11 | <input type="checkbox"/> | | | 42.99 | 0.0000 | P | 14.1 | |

$$y = 3.4242E-004 * x + 2.5563E-006$$

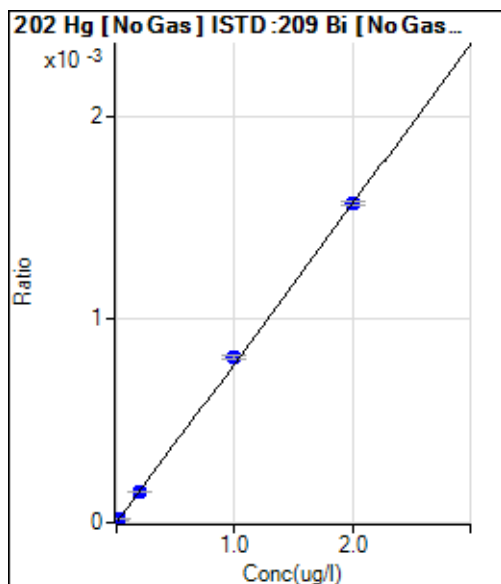
$$R = 0.9999$$

$$DL = 0.005605 \text{ ug/l}$$

$$BEC = 0.007465 \text{ ug/l}$$

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|-------|------------|----------|--------|---------|------|--------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 94.98 | 0.0000 | P | 4.8 | |
| 2 | <input type="checkbox"/> | | | 93.65 | 0.0000 | P | 1.6 | |
| 3 | <input type="checkbox"/> | 0.001 | 0.000 | 90.65 | 0.0000 | P | 13.2 | -136.2 |
| 4 | <input type="checkbox"/> | 0.002 | 0.002 | 110.65 | 0.0000 | P | 12.9 | -11.2 |
| 5 | <input type="checkbox"/> | 0.010 | 0.008 | 165.64 | 0.0000 | P | 4.4 | -21.4 |
| 6 | <input type="checkbox"/> | 0.020 | 0.018 | 255.62 | 0.0000 | P | 1.0 | -10.3 |
| 7 | <input type="checkbox"/> | 0.200 | 0.179 | 1680.77 | 0.0001 | P | 1.8 | -10.7 |
| 8 | <input type="checkbox"/> | 1.000 | 1.024 | 8573.37 | 0.0008 | P | 1.7 | 2.4 |
| 9 | <input type="checkbox"/> | 2.000 | 1.990 | 16653.69 | 0.0016 | P | 0.8 | -0.5 |
| 10 | <input type="checkbox"/> | | | | | | | |
| 11 | <input type="checkbox"/> | | | 141.64 | 0.0000 | P | 5.2 | |

$$y = 7.8482E-004 * x + 8.3860E-006$$

$$R = 0.9999$$

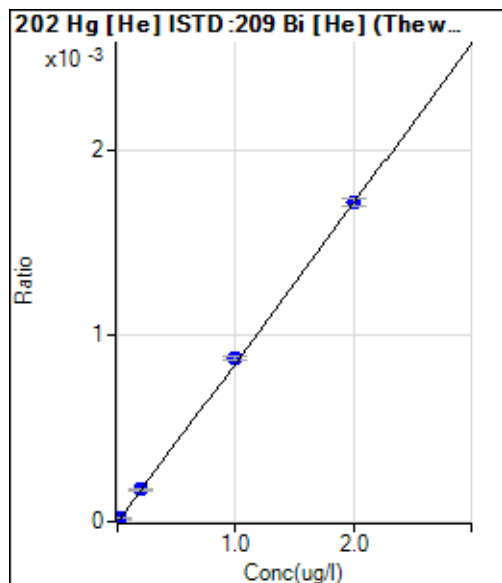
$$DL = 0.001555 \text{ ug/l}$$

$$BEC = 0.01069 \text{ ug/l}$$

Weight: 1/y

Min Conc: <None>

Calibration for 026_QC1.d



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|-------|------------|---------|--------|---------|------|-------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 32.33 | 0.0000 | P | 24.2 | |
| 2 | <input type="checkbox"/> | | | 32.66 | 0.0000 | P | 29.3 | |
| 3 | <input type="checkbox"/> | 0.001 | 0.002 | 42.32 | 0.0000 | P | 5.3 | 114.8 |
| 4 | <input type="checkbox"/> | 0.002 | 0.002 | 42.99 | 0.0000 | P | 7.7 | 11.4 |
| 5 | <input type="checkbox"/> | 0.010 | 0.008 | 67.99 | 0.0000 | P | 3.0 | -21.7 |
| 6 | <input type="checkbox"/> | 0.020 | 0.019 | 115.65 | 0.0000 | P | 11.0 | -6.1 |
| 7 | <input type="checkbox"/> | 0.200 | 0.192 | 858.19 | 0.0002 | P | 1.7 | -4.0 |
| 8 | <input type="checkbox"/> | 1.000 | 1.015 | 4184.83 | 0.0009 | P | 2.0 | 1.5 |
| 9 | <input type="checkbox"/> | 2.000 | 1.993 | 8233.22 | 0.0017 | P | 2.8 | -0.3 |
| 10 | <input type="checkbox"/> | | | | | | | |
| 11 | <input type="checkbox"/> | | | 59.99 | 0.0000 | P | 24.2 | |

$$y = 8.5966E-004 * x + 6.4404E-006$$

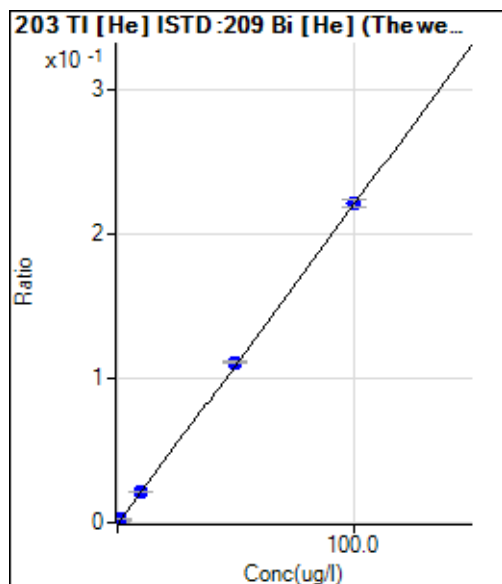
R = 1.0000

DL = 0.005436 ug/l

BEC = 0.007492 ug/l

Weight: 1/y

Min Conc: <None>



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|------------|--------|---------|-----|-------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 599.59 | 0.0001 | P | 5.7 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.012 | 746.99 | 0.0001 | P | 2.6 | -52.0 |
| 3 | <input type="checkbox"/> | 0.050 | 0.037 | 1022.45 | 0.0002 | P | 2.9 | -27.0 |
| 4 | <input type="checkbox"/> | 0.100 | 0.077 | 1489.35 | 0.0003 | P | 2.9 | -23.1 |
| 5 | <input type="checkbox"/> | 0.500 | 0.442 | 5654.15 | 0.0011 | P | 2.7 | -11.7 |
| 6 | <input type="checkbox"/> | 1.000 | 0.955 | 11442.82 | 0.0022 | P | 3.8 | -4.5 |
| 7 | <input type="checkbox"/> | 10.000 | 9.481 | 105448.42 | 0.0211 | P | 1.4 | -5.2 |
| 8 | <input type="checkbox"/> | 50.000 | 50.236 | 529004.64 | 0.1111 | P | 0.9 | 0.5 |
| 9 | <input type="checkbox"/> | 100.000 | 99.935 | 1057872.44 | 0.2210 | P | 2.1 | -0.1 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 10392.91 | 0.0020 | P | 6.7 | |

$$y = 0.0022 * x + 1.1961E-004$$

R = 1.0000

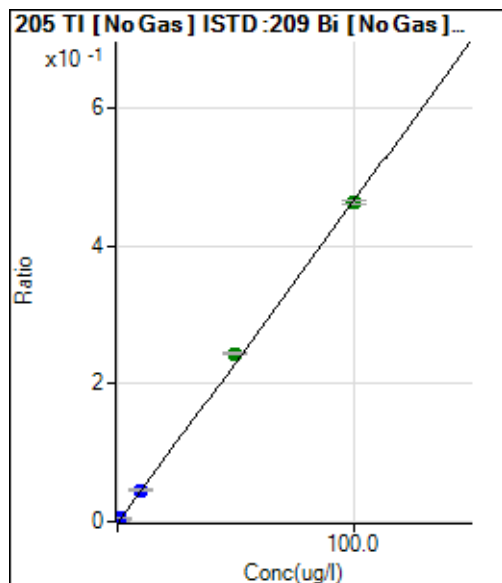
DL = 0.009196 ug/l

BEC = 0.05412 ug/l

Weight: 1/y

Min Conc: <None>

Calibration for 026_QC1.d



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|------------|--------|---------|------|-------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 2612.50 | 0.0002 | P | 7.4 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.015 | 3333.77 | 0.0003 | P | 8.5 | -38.5 |
| 3 | <input type="checkbox"/> | 0.050 | 0.040 | 4689.75 | 0.0004 | P | 4.1 | -19.6 |
| 4 | <input type="checkbox"/> | 0.100 | 0.087 | 7229.77 | 0.0006 | P | 3.0 | -13.0 |
| 5 | <input type="checkbox"/> | 0.500 | 0.470 | 27696.69 | 0.0024 | P | 1.6 | -5.9 |
| 6 | <input type="checkbox"/> | 1.000 | 1.007 | 56307.46 | 0.0049 | P | 1.2 | 0.7 |
| 7 | <input type="checkbox"/> | 10.000 | 9.758 | 519560.93 | 0.0459 | P | 1.2 | -2.4 |
| 8 | <input type="checkbox"/> | 50.000 | 52.005 | 2574860.93 | 0.2439 | A | 1.4 | 4.0 |
| 9 | <input type="checkbox"/> | 100.000 | 99.022 | 4921815.31 | 0.4641 | A | 1.4 | -1.0 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 50774.46 | 0.0046 | P | 18.1 | |

$$y = 0.0047 * x + 2.3086E-004$$

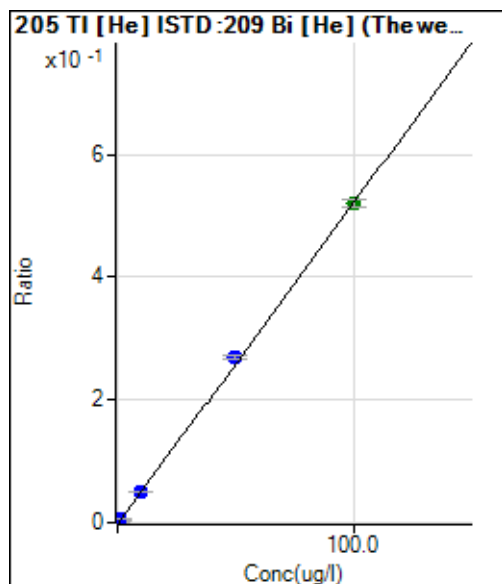
$$R = 0.9997$$

$$DL = 0.011 \text{ ug/l}$$

$$BEC = 0.04928 \text{ ug/l}$$

$$\text{Weight: } 1/y$$

$$\text{Min Conc: } <\text{None}>$$



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|------------|--------|---------|-----|-------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 1482.01 | 0.0003 | P | 2.7 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.009 | 1754.16 | 0.0003 | P | 5.7 | -63.8 |
| 3 | <input type="checkbox"/> | 0.050 | 0.033 | 2385.18 | 0.0005 | P | 2.7 | -34.6 |
| 4 | <input type="checkbox"/> | 0.100 | 0.077 | 3588.60 | 0.0007 | P | 1.1 | -23.2 |
| 5 | <input type="checkbox"/> | 0.500 | 0.445 | 13548.99 | 0.0026 | P | 2.8 | -11.0 |
| 6 | <input type="checkbox"/> | 1.000 | 0.956 | 27177.18 | 0.0053 | P | 5.0 | -4.4 |
| 7 | <input type="checkbox"/> | 10.000 | 9.739 | 256685.17 | 0.0513 | P | 1.4 | -2.6 |
| 8 | <input type="checkbox"/> | 50.000 | 51.497 | 1284992.71 | 0.2700 | P | 1.8 | 3.0 |
| 9 | <input type="checkbox"/> | 100.000 | 99.278 | 2489936.56 | 0.5202 | A | 2.7 | -0.7 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 25177.25 | 0.0049 | P | 7.6 | |

$$y = 0.0052 * x + 2.9573E-004$$

$$R = 0.9999$$

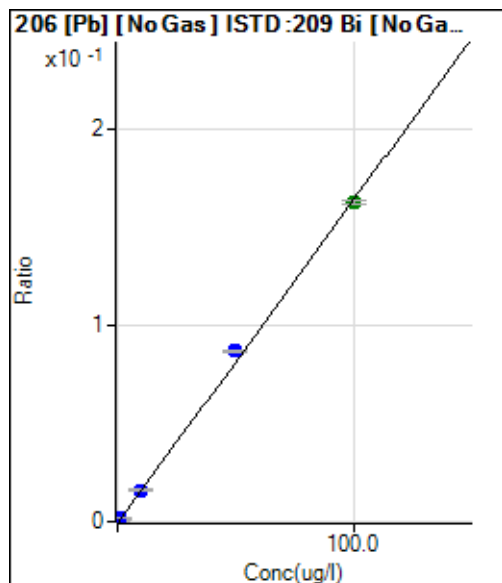
$$DL = 0.00455 \text{ ug/l}$$

$$BEC = 0.05648 \text{ ug/l}$$

$$\text{Weight: } 1/y$$

$$\text{Min Conc: } <\text{None}>$$

Calibration for 026_QC1.d



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|------------|--------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 586.69 | 0.0001 | P | 4.3 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.026 | 1038.94 | 0.0001 | P | 3.8 | 3.6 |
| 3 | <input type="checkbox"/> | 0.050 | 0.054 | 1579.00 | 0.0001 | P | 3.7 | 8.5 |
| 4 | <input type="checkbox"/> | 0.100 | 0.104 | 2532.48 | 0.0002 | P | 1.6 | 4.4 |
| 5 | <input type="checkbox"/> | 0.500 | 0.483 | 9634.66 | 0.0008 | P | 0.7 | -3.4 |
| 6 | <input type="checkbox"/> | 1.000 | 1.009 | 19478.78 | 0.0017 | P | 1.8 | 0.9 |
| 7 | <input type="checkbox"/> | 10.000 | 9.728 | 181630.72 | 0.0161 | P | 1.6 | -2.7 |
| 8 | <input type="checkbox"/> | 50.000 | 52.669 | 915929.00 | 0.0867 | P | 1.9 | 5.3 |
| 9 | <input type="checkbox"/> | 100.000 | 98.693 | 1723391.61 | 0.1625 | A | 1.2 | -1.3 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 1832.36 | 0.0002 | P | 6.1 | |

$$y = 0.0016 * x + 5.1827E-005$$

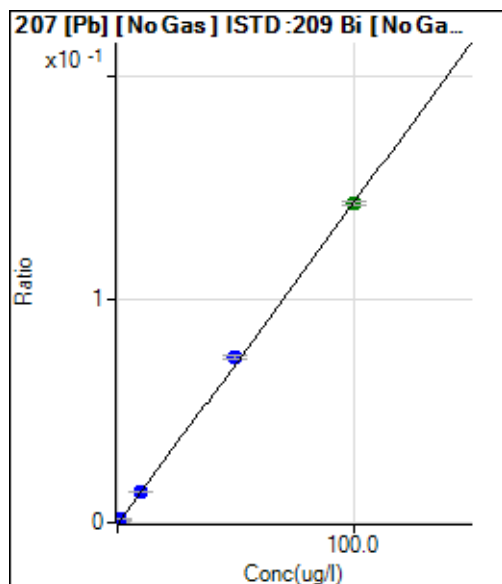
$$R = 0.9995$$

$$DL = 0.004055 \text{ ug/l}$$

$$BEC = 0.03149 \text{ ug/l}$$

$$\text{Weight: } 1/y$$

$$\text{Min Conc: } <\text{None}>$$



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|------------|--------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 504.46 | 0.0000 | P | 2.0 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.026 | 896.70 | 0.0001 | P | 3.6 | 2.8 |
| 3 | <input type="checkbox"/> | 0.050 | 0.055 | 1390.08 | 0.0001 | P | 4.9 | 10.8 |
| 4 | <input type="checkbox"/> | 0.100 | 0.101 | 2152.42 | 0.0002 | P | 0.9 | 1.2 |
| 5 | <input type="checkbox"/> | 0.500 | 0.482 | 8400.48 | 0.0007 | P | 4.0 | -3.5 |
| 6 | <input type="checkbox"/> | 1.000 | 1.017 | 17155.58 | 0.0015 | P | 2.4 | 1.7 |
| 7 | <input type="checkbox"/> | 10.000 | 9.581 | 156330.20 | 0.0138 | P | 2.3 | -4.2 |
| 8 | <input type="checkbox"/> | 50.000 | 51.501 | 782840.39 | 0.0741 | P | 2.0 | 3.0 |
| 9 | <input type="checkbox"/> | 100.000 | 99.291 | 1515535.76 | 0.1429 | A | 1.3 | -0.7 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 1631.22 | 0.0001 | P | 8.5 | |

$$y = 0.0014 * x + 4.4551E-005$$

$$R = 0.9998$$

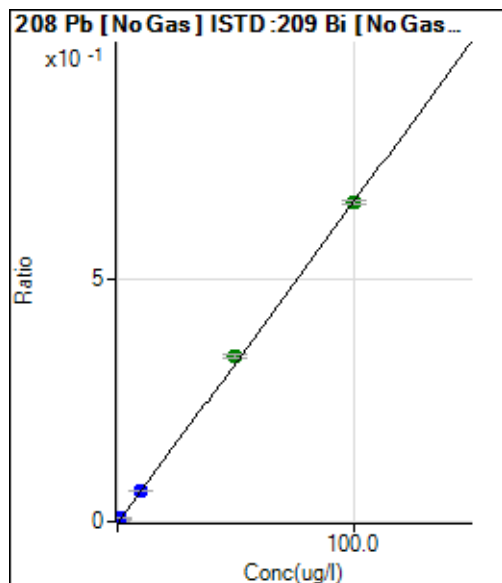
$$DL = 0.001836 \text{ ug/l}$$

$$BEC = 0.03096 \text{ ug/l}$$

$$\text{Weight: } 1/y$$

$$\text{Min Conc: } <\text{None}>$$

Calibration for 026_QC1.d



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|------------|--------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 2421.22 | 0.0002 | P | 3.1 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.025 | 4195.84 | 0.0004 | P | 2.0 | 0.9 |
| 3 | <input type="checkbox"/> | 0.050 | 0.053 | 6357.31 | 0.0006 | P | 1.9 | 6.7 |
| 4 | <input type="checkbox"/> | 0.100 | 0.100 | 9969.31 | 0.0009 | P | 2.0 | 0.4 |
| 5 | <input type="checkbox"/> | 0.500 | 0.482 | 38900.47 | 0.0034 | P | 1.9 | -3.5 |
| 6 | <input type="checkbox"/> | 1.000 | 0.996 | 77759.00 | 0.0068 | P | 0.9 | -0.4 |
| 7 | <input type="checkbox"/> | 10.000 | 9.602 | 723868.64 | 0.0640 | P | 0.4 | -4.0 |
| 8 | <input type="checkbox"/> | 50.000 | 51.442 | 3611162.75 | 0.3420 | A | 2.0 | 2.9 |
| 9 | <input type="checkbox"/> | 100.000 | 99.319 | 7000960.81 | 0.6601 | A | 1.0 | -0.7 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 7269.71 | 0.0007 | P | 5.2 | |

$$y = 0.0066 * x + 2.1380E-004$$

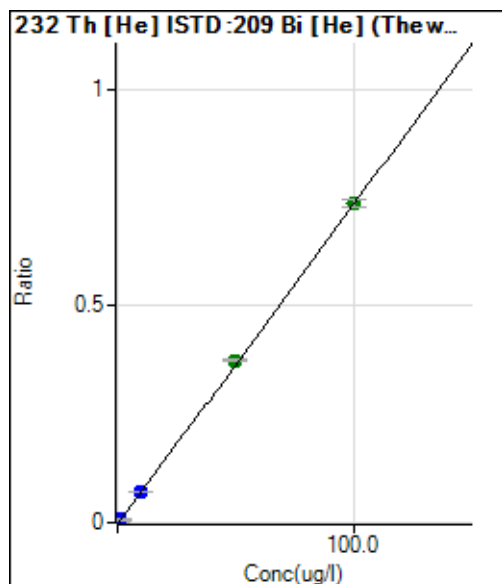
$$R = 0.9999$$

$$DL = 0.003016 \text{ ug/l}$$

$$BEC = 0.03218 \text{ ug/l}$$

$$\text{Weight: } 1/y$$

$$\text{Min Conc: } <\text{None}>$$



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|------------|--------|---------|-----|-------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 565.57 | 0.0001 | P | 5.3 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.013 | 1053.80 | 0.0002 | P | 1.0 | -49.5 |
| 3 | <input type="checkbox"/> | 0.050 | 0.033 | 1812.19 | 0.0004 | P | 2.8 | -34.4 |
| 4 | <input type="checkbox"/> | 0.100 | 0.070 | 3231.70 | 0.0006 | P | 6.8 | -30.1 |
| 5 | <input type="checkbox"/> | 0.500 | 0.402 | 15888.00 | 0.0031 | P | 2.5 | -19.6 |
| 6 | <input type="checkbox"/> | 1.000 | 0.898 | 34561.23 | 0.0067 | P | 4.8 | -10.2 |
| 7 | <input type="checkbox"/> | 10.000 | 9.418 | 348383.87 | 0.0696 | P | 1.2 | -5.8 |
| 8 | <input type="checkbox"/> | 50.000 | 50.554 | 1776459.96 | 0.3732 | A | 1.0 | 1.1 |
| 9 | <input type="checkbox"/> | 100.000 | 99.783 | 3525711.41 | 0.7365 | A | 2.4 | -0.2 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 5151.10 | 0.0010 | P | 5.0 | |

$$y = 0.0074 * x + 1.1288E-004$$

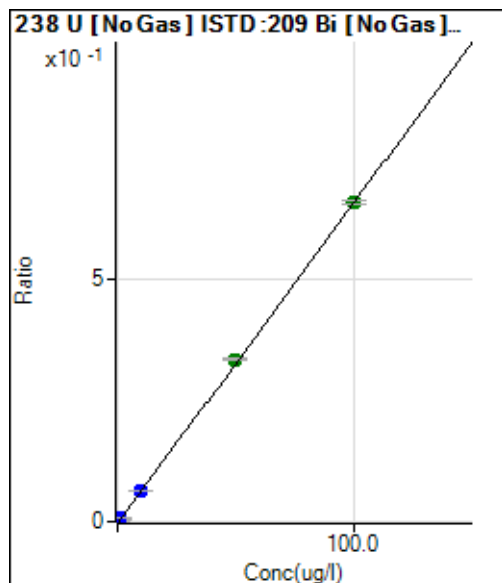
$$R = 1.0000$$

$$DL = 0.002411 \text{ ug/l}$$

$$BEC = 0.0153 \text{ ug/l}$$

$$\text{Weight: } 1/y$$

$$\text{Min Conc: } <\text{None}>$$



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|----------|------------|------------|--------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000 | 0.000 | 92.65 | 0.0000 | P | 7.9 | |
| 2 | <input type="checkbox"/> | 0.025 | 0.024 | 1825.77 | 0.0002 | P | 2.1 | -4.6 |
| 3 | <input type="checkbox"/> | 0.050 | 0.056 | 4237.51 | 0.0004 | P | 1.0 | 12.1 |
| 4 | <input type="checkbox"/> | 0.100 | 0.102 | 7706.07 | 0.0007 | P | 1.8 | 1.7 |
| 5 | <input type="checkbox"/> | 0.500 | 0.475 | 35860.40 | 0.0032 | P | 3.0 | -4.9 |
| 6 | <input type="checkbox"/> | 1.000 | 0.990 | 74586.71 | 0.0066 | P | 1.9 | -1.0 |
| 7 | <input type="checkbox"/> | 10.000 | 9.553 | 714491.83 | 0.0632 | P | 0.8 | -4.5 |
| 8 | <input type="checkbox"/> | 50.000 | 50.733 | 3542999.45 | 0.3356 | A | 1.7 | 1.5 |
| 9 | <input type="checkbox"/> | 100.000 | 99.678 | 6991687.27 | 0.6593 | A | 1.4 | -0.3 |
| 10 | <input type="checkbox"/> | 1000.000 | | | | | | |
| 11 | <input type="checkbox"/> | | | 2119.09 | 0.0002 | P | 15.2 | |

$$y = 0.0066 * x + 8.1872E-006$$

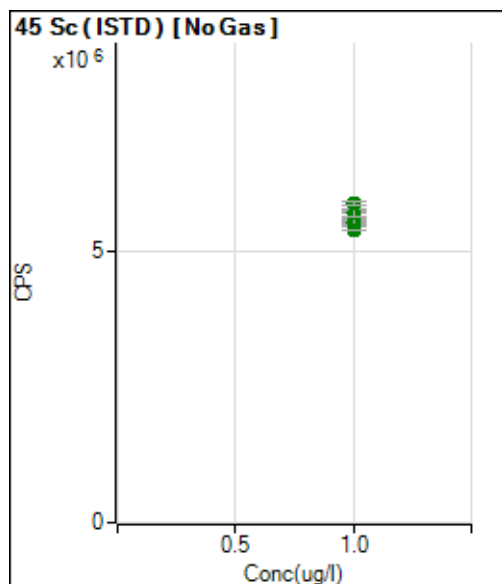
$$R = 1.0000$$

$$DL = 0.0002948 \text{ ug/l}$$

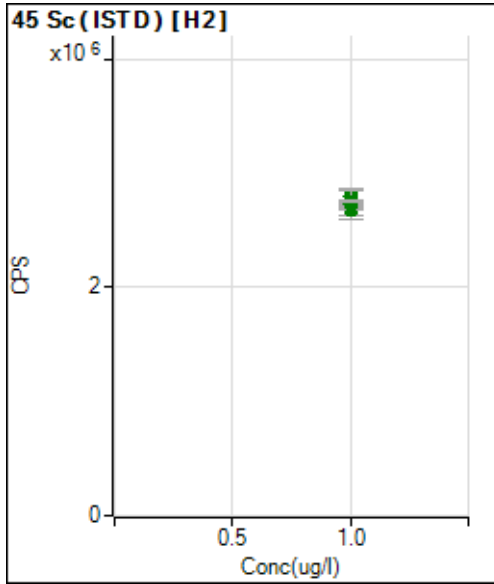
$$BEC = 0.001238 \text{ ug/l}$$

Weight: 1/y

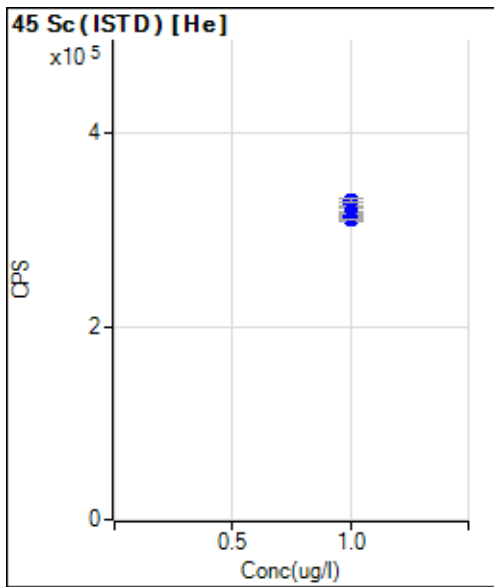
Min Conc: <None>



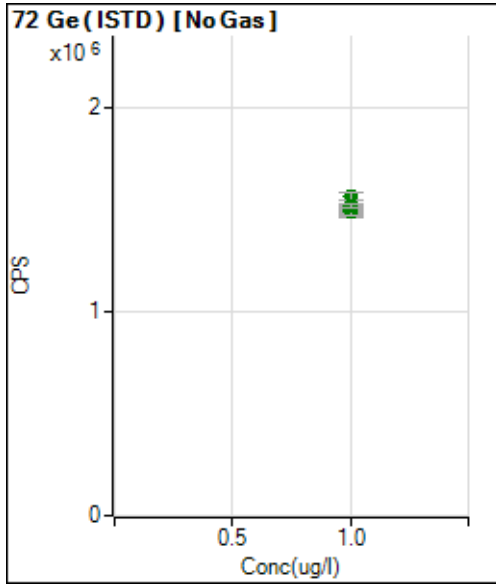
| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|-------|------------|------------|-------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 | | 5638644.78 | | A | 2.4 | |
| 2 | <input type="checkbox"/> | 1.000 | | 5631996.31 | | A | 2.5 | |
| 3 | <input type="checkbox"/> | 1.000 | | 5555588.03 | | A | 1.1 | |
| 4 | <input type="checkbox"/> | 1.000 | | 5652099.96 | | A | 2.8 | |
| 5 | <input type="checkbox"/> | 1.000 | | 5546595.75 | | A | 2.1 | |
| 6 | <input type="checkbox"/> | 1.000 | | 5517795.02 | | A | 1.9 | |
| 7 | <input type="checkbox"/> | 1.000 | | 5537101.10 | | A | 3.1 | |
| 8 | <input type="checkbox"/> | 1.000 | | 5399876.84 | | A | 0.3 | |
| 9 | <input type="checkbox"/> | 1.000 | | 5708684.91 | | A | 2.9 | |
| 10 | <input type="checkbox"/> | 1.000 | | | | | | |
| 11 | <input type="checkbox"/> | 1.000 | | 5886079.97 | | A | 1.3 | |



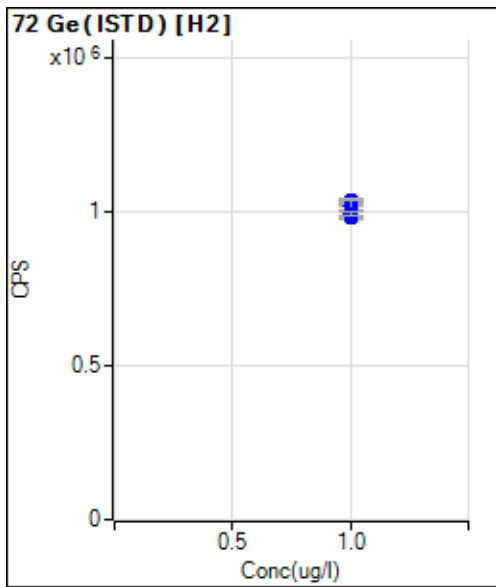
| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|-------|------------|------------|-------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 | | 2744931.22 | | A | 0.8 | |
| 2 | <input type="checkbox"/> | 1.000 | | 2706114.19 | | A | 0.4 | |
| 3 | <input type="checkbox"/> | 1.000 | | 2685460.83 | | A | 6.4 | |
| 4 | <input type="checkbox"/> | 1.000 | | 2740071.92 | | A | 8.6 | |
| 5 | <input type="checkbox"/> | 1.000 | | 2751471.65 | | A | 0.7 | |
| 6 | <input type="checkbox"/> | 1.000 | | 2677227.29 | | A | 0.4 | |
| 7 | <input type="checkbox"/> | 1.000 | | 2731764.39 | | A | 0.8 | |
| 8 | <input type="checkbox"/> | 1.000 | | 2760303.14 | | A | 0.6 | |
| 9 | <input type="checkbox"/> | 1.000 | | 2796904.82 | | A | 3.6 | |
| 10 | <input type="checkbox"/> | 1.000 | | | | | | |
| 11 | <input type="checkbox"/> | 1.000 | | 2752933.53 | | A | 0.4 | |



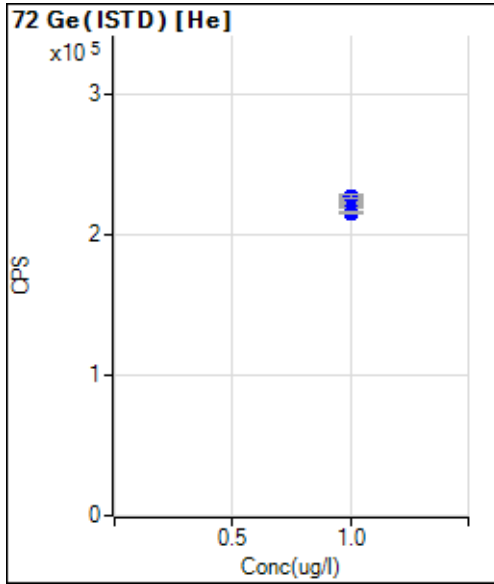
| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|-------|------------|-----------|-------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 | | 318486.02 | | P | 0.4 | |
| 2 | <input type="checkbox"/> | 1.000 | | 312375.98 | | P | 0.2 | |
| 3 | <input type="checkbox"/> | 1.000 | | 312609.49 | | P | 0.5 | |
| 4 | <input type="checkbox"/> | 1.000 | | 310955.40 | | P | 1.2 | |
| 5 | <input type="checkbox"/> | 1.000 | | 311724.02 | | P | 2.2 | |
| 6 | <input type="checkbox"/> | 1.000 | | 314681.71 | | P | 2.0 | |
| 7 | <input type="checkbox"/> | 1.000 | | 317875.15 | | P | 0.6 | |
| 8 | <input type="checkbox"/> | 1.000 | | 322635.07 | | P | 0.1 | |
| 9 | <input type="checkbox"/> | 1.000 | | 326546.98 | | P | 1.0 | |
| 10 | <input type="checkbox"/> | 1.000 | | | | | | |
| 11 | <input type="checkbox"/> | 1.000 | | 330484.92 | | P | 1.1 | |



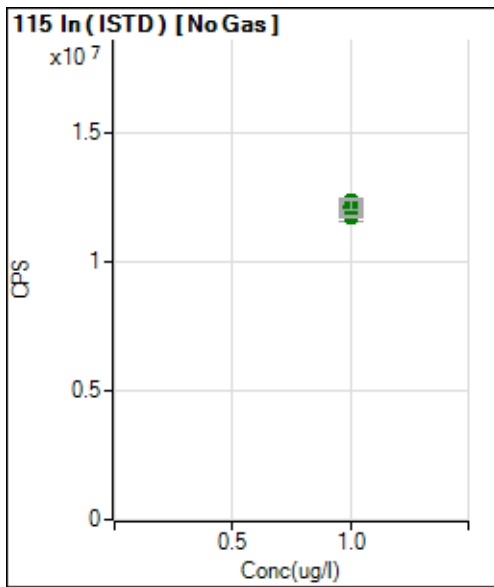
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| 1 | <input type="checkbox"/> | 1.000 | | 1511868.37 | | A | 2.2 | |
| 2 | <input type="checkbox"/> | 1.000 | | 1485586.22 | | A | 2.7 | |
| 3 | <input type="checkbox"/> | 1.000 | | 1493542.20 | | A | 2.3 | |
| 4 | <input type="checkbox"/> | 1.000 | | 1507384.21 | | A | 0.3 | |
| 5 | <input type="checkbox"/> | 1.000 | | 1564810.60 | | A | 2.4 | |
| 6 | <input type="checkbox"/> | 1.000 | | 1494995.66 | | A | 3.4 | |
| 7 | <input type="checkbox"/> | 1.000 | | 1486523.67 | | A | 0.7 | |
| 8 | <input type="checkbox"/> | 1.000 | | 1488082.95 | | A | 2.7 | |
| 9 | <input type="checkbox"/> | 1.000 | | 1489812.12 | | A | 2.8 | |
| 10 | <input type="checkbox"/> | 1.000 | | | | | | |
| 11 | <input type="checkbox"/> | 1.000 | | 1519997.39 | | A | 1.4 | |



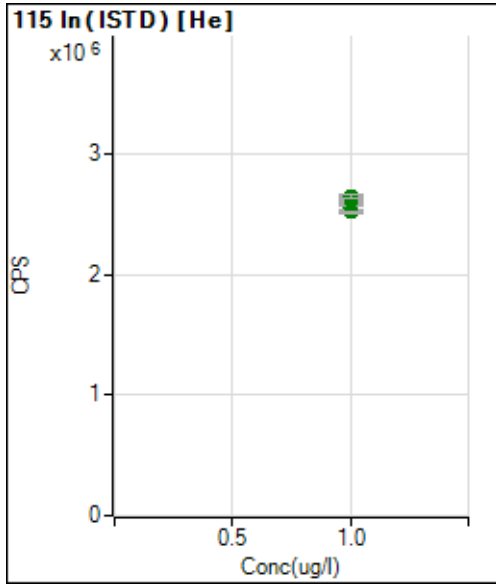
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| 1 | <input type="checkbox"/> | 1.000 | | 992372.26 | | P | 1.3 | |
| 2 | <input type="checkbox"/> | 1.000 | | 991600.12 | | P | 1.2 | |
| 3 | <input type="checkbox"/> | 1.000 | | 1000439.60 | | P | 4.1 | |
| 4 | <input type="checkbox"/> | 1.000 | | 998823.38 | | P | 4.5 | |
| 5 | <input type="checkbox"/> | 1.000 | | 1004774.58 | | P | 0.4 | |
| 6 | <input type="checkbox"/> | 1.000 | | 984450.25 | | P | 0.9 | |
| 7 | <input type="checkbox"/> | 1.000 | | 1028721.48 | | P | 0.7 | |
| 8 | <input type="checkbox"/> | 1.000 | | 1037996.12 | | P | 1.1 | |
| 9 | <input type="checkbox"/> | 1.000 | | 1019155.22 | | P | 3.7 | |
| 10 | <input type="checkbox"/> | 1.000 | | | | | | |
| 11 | <input type="checkbox"/> | 1.000 | | 994483.30 | | P | 0.8 | |



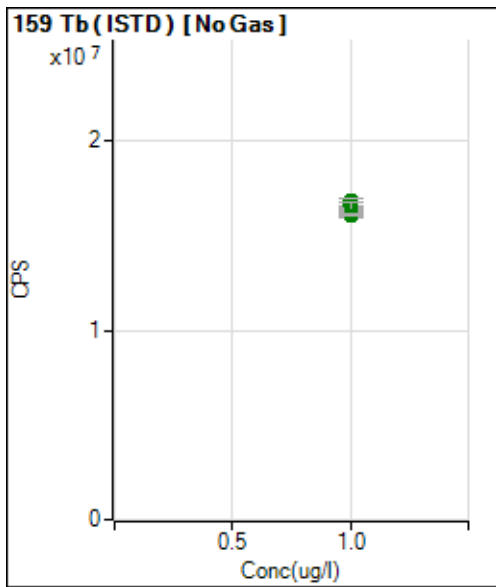
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| 1 | <input type="checkbox"/> | 1.000 | | 222666.97 | | P | 1.9 | |
| 2 | <input type="checkbox"/> | 1.000 | | 219524.83 | | P | 0.4 | |
| 3 | <input type="checkbox"/> | 1.000 | | 220563.80 | | P | 1.5 | |
| 4 | <input type="checkbox"/> | 1.000 | | 220239.87 | | P | 0.5 | |
| 5 | <input type="checkbox"/> | 1.000 | | 219728.85 | | P | 0.7 | |
| 6 | <input type="checkbox"/> | 1.000 | | 215413.54 | | P | 0.7 | |
| 7 | <input type="checkbox"/> | 1.000 | | 222455.77 | | P | 0.2 | |
| 8 | <input type="checkbox"/> | 1.000 | | 225764.96 | | P | 1.9 | |
| 9 | <input type="checkbox"/> | 1.000 | | 226811.94 | | P | 0.6 | |
| 10 | <input type="checkbox"/> | 1.000 | | | | | | |
| 11 | <input type="checkbox"/> | 1.000 | | 227166.41 | | P | 1.4 | |



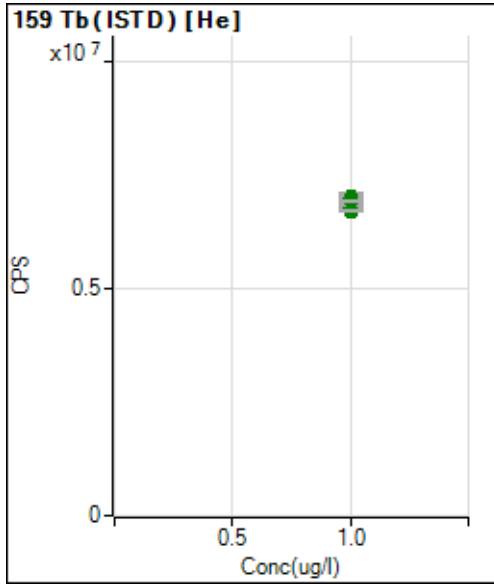
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| 1 | <input type="checkbox"/> | 1.000 | | 12172784.06 | | A | 1.4 | |
| 2 | <input type="checkbox"/> | 1.000 | | 11914295.42 | | A | 0.6 | |
| 3 | <input type="checkbox"/> | 1.000 | | 12207745.33 | | A | 1.8 | |
| 4 | <input type="checkbox"/> | 1.000 | | 12413445.17 | | A | 1.3 | |
| 5 | <input type="checkbox"/> | 1.000 | | 12085111.48 | | A | 1.6 | |
| 6 | <input type="checkbox"/> | 1.000 | | 12173458.75 | | A | 0.8 | |
| 7 | <input type="checkbox"/> | 1.000 | | 12125528.76 | | A | 1.9 | |
| 8 | <input type="checkbox"/> | 1.000 | | 11728113.17 | | A | 2.2 | |
| 9 | <input type="checkbox"/> | 1.000 | | 11775393.42 | | A | 0.6 | |
| 10 | <input type="checkbox"/> | 1.000 | | | | | | |
| 11 | <input type="checkbox"/> | 1.000 | | 12214239.82 | | A | 2.7 | |



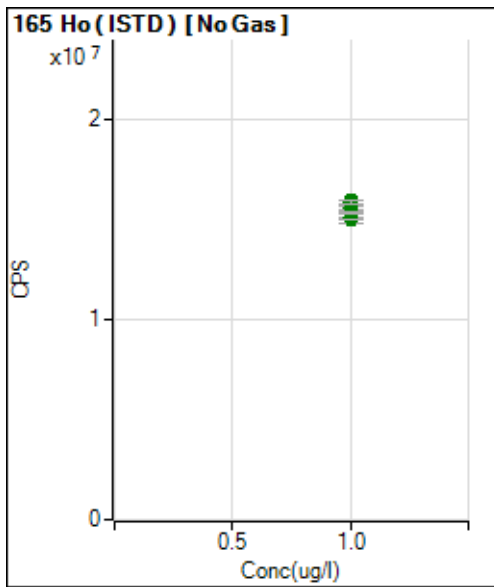
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|----|--------------------------|-------|------------|------------|-------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 | | 2635629.81 | | A | 0.6 | |
| 2 | <input type="checkbox"/> | 1.000 | | 2596057.80 | | A | 0.6 | |
| 3 | <input type="checkbox"/> | 1.000 | | 2612175.57 | | A | 1.0 | |
| 4 | <input type="checkbox"/> | 1.000 | | 2634589.52 | | A | 1.0 | |
| 5 | <input type="checkbox"/> | 1.000 | | 2622950.10 | | A | 0.5 | |
| 6 | <input type="checkbox"/> | 1.000 | | 2604976.80 | | A | 0.7 | |
| 7 | <input type="checkbox"/> | 1.000 | | 2626617.14 | | A | 1.4 | |
| 8 | <input type="checkbox"/> | 1.000 | | 2558121.09 | | A | 1.3 | |
| 9 | <input type="checkbox"/> | 1.000 | | 2516107.30 | | A | 0.4 | |
| 10 | <input type="checkbox"/> | 1.000 | | | | | | |
| 11 | <input type="checkbox"/> | 1.000 | | 2647919.16 | | A | 0.7 | |



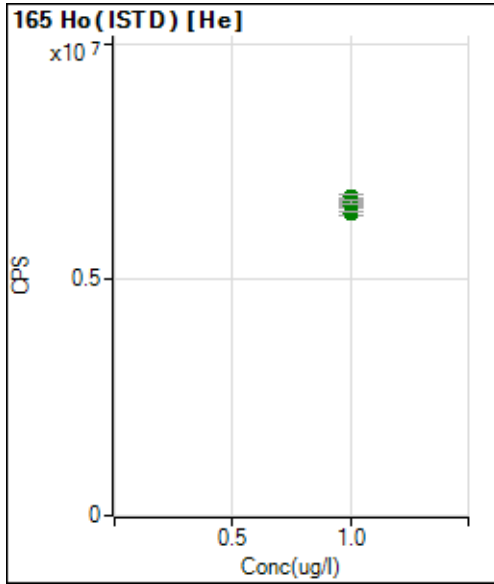
| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
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| 1 | <input type="checkbox"/> | 1.000 | | 16341854.82 | | A | 2.2 | |
| 2 | <input type="checkbox"/> | 1.000 | | 16197737.79 | | A | 0.7 | |
| 3 | <input type="checkbox"/> | 1.000 | | 16305229.34 | | A | 3.3 | |
| 4 | <input type="checkbox"/> | 1.000 | | 16641309.68 | | A | 1.6 | |
| 5 | <input type="checkbox"/> | 1.000 | | 16893818.01 | | A | 1.3 | |
| 6 | <input type="checkbox"/> | 1.000 | | 16314957.51 | | A | 0.9 | |
| 7 | <input type="checkbox"/> | 1.000 | | 16558203.45 | | A | 3.0 | |
| 8 | <input type="checkbox"/> | 1.000 | | 16084609.67 | | A | 0.4 | |
| 9 | <input type="checkbox"/> | 1.000 | | 16072808.49 | | A | 0.7 | |
| 10 | <input type="checkbox"/> | 1.000 | | | | | | |
| 11 | <input type="checkbox"/> | 1.000 | | 16109613.53 | | A | 0.5 | |



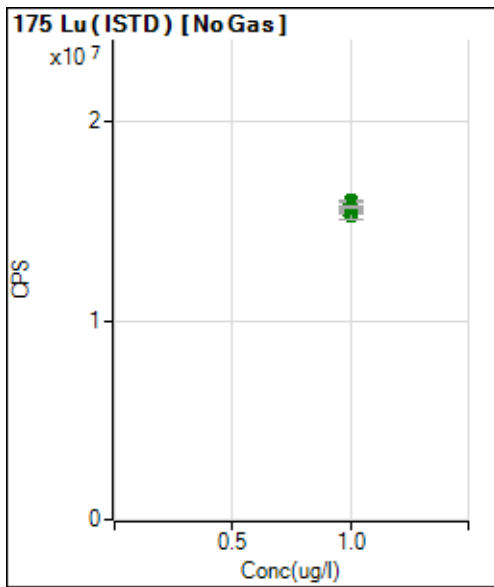
| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
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| 1 | <input type="checkbox"/> | 1.000 | | 6833358.64 | | A | 1.0 | |
| 2 | <input type="checkbox"/> | 1.000 | | 6855261.27 | | A | 0.9 | |
| 3 | <input type="checkbox"/> | 1.000 | | 6889694.87 | | A | 1.0 | |
| 4 | <input type="checkbox"/> | 1.000 | | 7030053.97 | | A | 1.5 | |
| 5 | <input type="checkbox"/> | 1.000 | | 7005815.88 | | A | 3.5 | |
| 6 | <input type="checkbox"/> | 1.000 | | 6809750.81 | | A | 1.5 | |
| 7 | <input type="checkbox"/> | 1.000 | | 6979246.35 | | A | 1.9 | |
| 8 | <input type="checkbox"/> | 1.000 | | 6756590.89 | | A | 1.8 | |
| 9 | <input type="checkbox"/> | 1.000 | | 6710745.14 | | A | 0.6 | |
| 10 | <input type="checkbox"/> | 1.000 | | | | | | |
| 11 | <input type="checkbox"/> | 1.000 | | 6928950.16 | | A | 0.8 | |



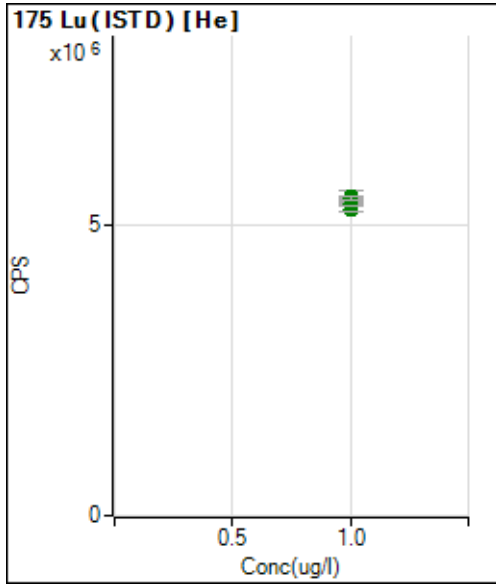
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|----|--------------------------|-------|------------|-------------|-------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 | | 15250385.89 | | A | 2.5 | |
| 2 | <input type="checkbox"/> | 1.000 | | 15351100.87 | | A | 1.6 | |
| 3 | <input type="checkbox"/> | 1.000 | | 15474570.59 | | A | 2.5 | |
| 4 | <input type="checkbox"/> | 1.000 | | 15542503.83 | | A | 1.7 | |
| 5 | <input type="checkbox"/> | 1.000 | | 15943145.71 | | A | 0.2 | |
| 6 | <input type="checkbox"/> | 1.000 | | 15327361.82 | | A | 1.3 | |
| 7 | <input type="checkbox"/> | 1.000 | | 15861605.42 | | A | 1.4 | |
| 8 | <input type="checkbox"/> | 1.000 | | 14938497.24 | | A | 1.5 | |
| 9 | <input type="checkbox"/> | 1.000 | | 15107791.43 | | A | 1.6 | |
| 10 | <input type="checkbox"/> | 1.000 | | | | | | |
| 11 | <input type="checkbox"/> | 1.000 | | 15339520.13 | | A | 0.9 | |



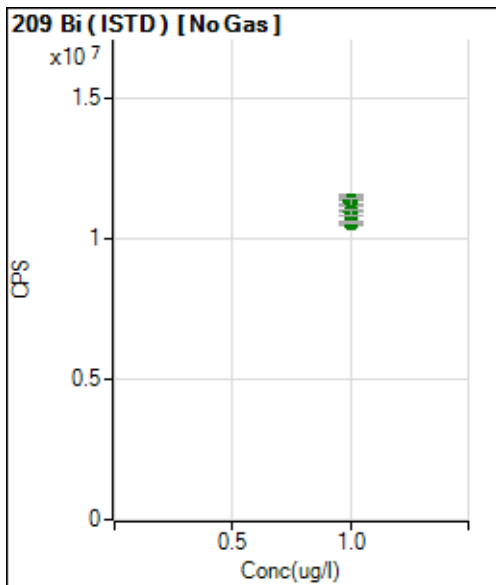
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| 1 | <input type="checkbox"/> | 1.000 | | 6614264.50 | | A | 0.7 | |
| 2 | <input type="checkbox"/> | 1.000 | | 6600398.97 | | A | 1.6 | |
| 3 | <input type="checkbox"/> | 1.000 | | 6669689.66 | | A | 1.1 | |
| 4 | <input type="checkbox"/> | 1.000 | | 6775461.47 | | A | 1.4 | |
| 5 | <input type="checkbox"/> | 1.000 | | 6631336.67 | | A | 1.2 | |
| 6 | <input type="checkbox"/> | 1.000 | | 6421536.20 | | A | 1.2 | |
| 7 | <input type="checkbox"/> | 1.000 | | 6673398.16 | | A | 0.4 | |
| 8 | <input type="checkbox"/> | 1.000 | | 6580338.65 | | A | 1.9 | |
| 9 | <input type="checkbox"/> | 1.000 | | 6438531.53 | | A | 0.3 | |
| 10 | <input type="checkbox"/> | 1.000 | | | | | | |
| 11 | <input type="checkbox"/> | 1.000 | | 6657251.86 | | A | 1.1 | |



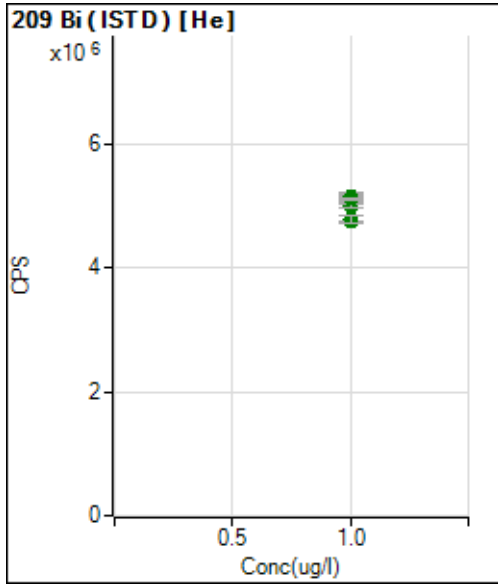
| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
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| 1 | <input type="checkbox"/> | 1.000 | | 15563578.03 | | A | 1.9 | |
| 2 | <input type="checkbox"/> | 1.000 | | 15482550.23 | | A | 1.3 | |
| 3 | <input type="checkbox"/> | 1.000 | | 15854267.14 | | A | 2.5 | |
| 4 | <input type="checkbox"/> | 1.000 | | 15794246.40 | | A | 1.9 | |
| 5 | <input type="checkbox"/> | 1.000 | | 16071831.89 | | A | 0.2 | |
| 6 | <input type="checkbox"/> | 1.000 | | 15809281.02 | | A | 1.5 | |
| 7 | <input type="checkbox"/> | 1.000 | | 15718428.19 | | A | 0.5 | |
| 8 | <input type="checkbox"/> | 1.000 | | 15294135.37 | | A | 2.1 | |
| 9 | <input type="checkbox"/> | 1.000 | | 15303475.33 | | A | 2.7 | |
| 10 | <input type="checkbox"/> | 1.000 | | | | | | |
| 11 | <input type="checkbox"/> | 1.000 | | 15724056.42 | | A | 0.6 | |



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|-------|------------|------------|-------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 | | 5355399.64 | | A | 0.2 | |
| 2 | <input type="checkbox"/> | 1.000 | | 5430565.43 | | A | 2.0 | |
| 3 | <input type="checkbox"/> | 1.000 | | 5430791.64 | | A | 1.6 | |
| 4 | <input type="checkbox"/> | 1.000 | | 5505648.48 | | A | 3.0 | |
| 5 | <input type="checkbox"/> | 1.000 | | 5495291.92 | | A | 0.4 | |
| 6 | <input type="checkbox"/> | 1.000 | | 5286760.74 | | A | 1.5 | |
| 7 | <input type="checkbox"/> | 1.000 | | 5442731.45 | | A | 0.2 | |
| 8 | <input type="checkbox"/> | 1.000 | | 5416757.56 | | A | 1.1 | |
| 9 | <input type="checkbox"/> | 1.000 | | 5372375.36 | | A | 1.1 | |
| 10 | <input type="checkbox"/> | 1.000 | | | | | | |
| 11 | <input type="checkbox"/> | 1.000 | | 5464931.51 | | A | 1.3 | |



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|-------|------------|-------------|-------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 | | 11322328.97 | | A | 1.1 | |
| 2 | <input type="checkbox"/> | 1.000 | | 11001879.67 | | A | 1.1 | |
| 3 | <input type="checkbox"/> | 1.000 | | 11187979.17 | | A | 0.6 | |
| 4 | <input type="checkbox"/> | 1.000 | | 11321206.36 | | A | 1.9 | |
| 5 | <input type="checkbox"/> | 1.000 | | 11381925.48 | | A | 3.4 | |
| 6 | <input type="checkbox"/> | 1.000 | | 11378384.03 | | A | 2.3 | |
| 7 | <input type="checkbox"/> | 1.000 | | 11307798.45 | | A | 2.4 | |
| 8 | <input type="checkbox"/> | 1.000 | | 10560657.59 | | A | 1.9 | |
| 9 | <input type="checkbox"/> | 1.000 | | 10605391.31 | | A | 0.4 | |
| 10 | <input type="checkbox"/> | 1.000 | | | | | | |
| 11 | <input type="checkbox"/> | 1.000 | | 10945525.92 | | A | 1.6 | |



| | Rj ct | Conc. | Calc Conc. | CPS | Ratio | De t | RSD | %RE |
|----|--------------------------|-------|------------|------------|-------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 | | 5012354.02 | | A | 1.2 | |
| 2 | <input type="checkbox"/> | 1.000 | | 5113187.99 | | A | 0.8 | |
| 3 | <input type="checkbox"/> | 1.000 | | 5106148.47 | | A | 1.3 | |
| 4 | <input type="checkbox"/> | 1.000 | | 5143004.54 | | A | 1.2 | |
| 5 | <input type="checkbox"/> | 1.000 | | 5161221.21 | | A | 1.6 | |
| 6 | <input type="checkbox"/> | 1.000 | | 5133629.39 | | A | 3.8 | |
| 7 | <input type="checkbox"/> | 1.000 | | 5004847.59 | | A | 1.0 | |
| 8 | <input type="checkbox"/> | 1.000 | | 4760195.28 | | A | 0.4 | |
| 9 | <input type="checkbox"/> | 1.000 | | 4789272.06 | | A | 2.7 | |
| 10 | <input type="checkbox"/> | 1.000 | | | | | | |
| 11 | <input type="checkbox"/> | 1.000 | | 5124189.60 | | A | 0.7 | |

ICPMS207-B Analytical Data

Sample Name Rinse
File Name 001BLKV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 14:08:28
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | | ug/l | 16141.00 |
| Be | 9 | 45 | 1 | No Gas | | ug/l | 317.94 |
| B | 11 | 45 | 1 | No Gas | | ug/l | 6238.47 |
| Na | 23 | 45 | 3 | He | | ug/l | 61113.53 |
| Mg | 24 | 45 | 3 | He | | ug/l | 2265.69 |
| Al | 27 | 45 | 1 | No Gas | | ug/l | 18807.43 |
| Si | 28 | 45 | 2 | H2 | | ug/l | 8489.83 |
| K | 39 | 72 | 3 | He | | ug/l | 91084.73 |
| Ca | 40 | 72 | 2 | H2 | | ug/l | 123072.91 |
| Ti | 47 | 72 | 1 | No Gas | | ug/l | 268.61 |
| V | 51 | 72 | 1 | No Gas | | ug/l | -83485.34 |
| V | 51 | 72 | 3 | He | | ug/l | 18728.64 |
| Cr | 52 | 72 | 1 | No Gas | | ug/l | 107491.39 |
| Cr | 52 | 72 | 3 | He | | ug/l | 1073.38 |
| Mn | 55 | 72 | 1 | No Gas | | ug/l | 15014.55 |
| Mn | 55 | 72 | 3 | He | | ug/l | 830.86 |
| Fe | 56 | 72 | 2 | H2 | | ug/l | 14291.34 |
| Fe | 56 | 72 | 3 | He | | ug/l | 7671.43 |
| Co | 59 | 72 | 1 | No Gas | | ug/l | 818.40 |
| Ni | 60 | 72 | 1 | No Gas | | ug/l | 835.04 |
| Ni | 60 | 72 | 3 | He | | ug/l | 122.22 |
| Cu | 63 | 72 | 1 | No Gas | | ug/l | 2324.46 |
| Cu | 63 | 72 | 3 | He | | ug/l | 745.21 |
| Cu | 65 | 72 | 1 | No Gas | | ug/l | 989.10 |
| Zn | 66 | 72 | 1 | No Gas | | ug/l | 1930.94 |
| Zn | 66 | 72 | 3 | He | | ug/l | 443.34 |
| As | 75 | 72 | 1 | No Gas | | ug/l | 20636.03 |
| As | 75 | 72 | 3 | He | | ug/l | 354.13 |
| Se | 78 | 72 | 2 | H2 | | ug/l | 40.89 |
| Br | 79 | 72 | 1 | No Gas | | ug/l | 215622.31 |
| Br | 79 | 72 | 2 | H2 | | ug/l | 110546.72 |
| Se | 82 | 72 | 1 | No Gas | | ug/l | 1132.26 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 32405.67 |
| Sr | 88 | 72 | 1 | No Gas | | ug/l | 1287.52 |
| Sr | 88 | 72 | 3 | He | | ug/l | 516.68 |
| Mo | 95 | 115 | 1 | No Gas | | ug/l | 77.78 |
| Mo | 95 | 115 | 3 | He | | ug/l | 15.56 |
| Mo | 98 | 115 | 1 | No Gas | | ug/l | 76.12 |
| Ag | 107 | 115 | 1 | No Gas | | ug/l | 1932.92 |
| Ag | 109 | 115 | 1 | No Gas | | ug/l | 1806.18 |
| Cd | 111 | 115 | 1 | No Gas | | ug/l | -11.99 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|---------|
| Cd | 111 | 115 | 3 | He | | ug/l | 8.67 |
| Cd | 114 | 115 | 1 | No Gas | | ug/l | -162.45 |
| Cd | 114 | 115 | 3 | He | | ug/l | 14.48 |
| Sn | 118 | 115 | 1 | No Gas | | ug/l | 3007.71 |
| Sn | 118 | 115 | 3 | He | | ug/l | 858.92 |
| Sb | 121 | 115 | 1 | No Gas | | ug/l | 268.70 |
| Sb | 121 | 115 | 3 | He | | ug/l | 80.34 |
| Sb | 123 | 115 | 1 | No Gas | | ug/l | 203.36 |
| Sb | 123 | 115 | 3 | He | | ug/l | 51.34 |
| Ba | 135 | 115 | 1 | No Gas | | ug/l | 83.17 |
| Ba | 137 | 115 | 1 | No Gas | | ug/l | 123.09 |
| La | 139 | 115 | 3 | He | | ug/l | 18.89 |
| Ce | 140 | 115 | 3 | He | | ug/l | 34.44 |
| Hg | 201 | 209 | 1 | No Gas | | ug/l | 15.00 |
| Hg | 202 | 209 | 1 | No Gas | | ug/l | 80.32 |
| Hg | 202 | 209 | 3 | He | | ug/l | 18.00 |
| Tl | 203 | 209 | 3 | He | | ug/l | 382.16 |
| Tl | 205 | 209 | 1 | No Gas | | ug/l | 1994.61 |
| Tl | 205 | 209 | 3 | He | | ug/l | 942.41 |
| [Pb] | 206 | 209 | 1 | No Gas | | ug/l | 997.82 |
| [Pb] | 207 | 209 | 1 | No Gas | | ug/l | 828.92 |
| Pb | 208 | 209 | 1 | No Gas | | ug/l | 3942.48 |
| Th | 232 | 209 | 3 | He | | ug/l | 280.78 |
| U | 238 | 209 | 1 | No Gas | | ug/l | 96.65 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 6398092.94 | |
| Sc | 45 | 2 | H2 | 3189918.23 | |
| Sc | 45 | 3 | He | 366072.66 | |
| Ge | 72 | 1 | No Gas | 1796562.39 | |
| Ge | 72 | 2 | H2 | 1089797.97 | |
| Ge | 72 | 3 | He | 243221.89 | |
| In | 115 | 1 | No Gas | 13447430.81 | |
| In | 115 | 3 | He | 2936569.79 | |
| Tb | 159 | 1 | No Gas | 16002379.31 | |
| Tb | 159 | 3 | He | 7145065.96 | |
| Ho | 165 | 1 | No Gas | 15208806.61 | |
| Ho | 165 | 3 | He | 6777604.60 | |
| Lu | 175 | 1 | No Gas | 15602316.35 | |
| Lu | 175 | 3 | He | 5697237.97 | |
| Bi | 209 | 1 | No Gas | 12090212.91 | |
| Bi | 209 | 3 | He | 5150318.23 | |

ICPMS207-B Analytical Data

Sample Name Rinse
File Name 002BLKV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 14:14:42
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | | ug/l | 15634.95 |
| Be | 9 | 45 | 1 | No Gas | | ug/l | 318.61 |
| B | 11 | 45 | 1 | No Gas | | ug/l | 5978.92 |
| Na | 23 | 45 | 3 | He | | ug/l | 59204.80 |
| Mg | 24 | 45 | 3 | He | | ug/l | 2395.44 |
| Al | 27 | 45 | 1 | No Gas | | ug/l | 18494.83 |
| Si | 28 | 45 | 2 | H2 | | ug/l | 8148.17 |
| K | 39 | 72 | 3 | He | | ug/l | 90958.29 |
| Ca | 40 | 72 | 2 | H2 | | ug/l | 121352.22 |
| Ti | 47 | 72 | 1 | No Gas | | ug/l | 313.65 |
| V | 51 | 72 | 1 | No Gas | | ug/l | -55858.68 |
| V | 51 | 72 | 3 | He | | ug/l | 19098.03 |
| Cr | 52 | 72 | 1 | No Gas | | ug/l | 110227.82 |
| Cr | 52 | 72 | 3 | He | | ug/l | 1093.38 |
| Mn | 55 | 72 | 1 | No Gas | | ug/l | 16609.81 |
| Mn | 55 | 72 | 3 | He | | ug/l | 888.85 |
| Fe | 56 | 72 | 2 | H2 | | ug/l | 14087.63 |
| Fe | 56 | 72 | 3 | He | | ug/l | 7577.94 |
| Co | 59 | 72 | 1 | No Gas | | ug/l | 1001.39 |
| Ni | 60 | 72 | 1 | No Gas | | ug/l | 864.98 |
| Ni | 60 | 72 | 3 | He | | ug/l | 146.67 |
| Cu | 63 | 72 | 1 | No Gas | | ug/l | 2348.47 |
| Cu | 63 | 72 | 3 | He | | ug/l | 713.21 |
| Cu | 65 | 72 | 1 | No Gas | | ug/l | 993.10 |
| Zn | 66 | 72 | 1 | No Gas | | ug/l | 1911.09 |
| Zn | 66 | 72 | 3 | He | | ug/l | 448.90 |
| As | 75 | 72 | 1 | No Gas | | ug/l | 20471.88 |
| As | 75 | 72 | 3 | He | | ug/l | 367.87 |
| Se | 78 | 72 | 2 | H2 | | ug/l | 37.89 |
| Br | 79 | 72 | 1 | No Gas | | ug/l | 264480.74 |
| Br | 79 | 72 | 2 | H2 | | ug/l | 136441.27 |
| Se | 82 | 72 | 1 | No Gas | | ug/l | 1212.02 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 27455.34 |
| Sr | 88 | 72 | 1 | No Gas | | ug/l | 1240.95 |
| Sr | 88 | 72 | 3 | He | | ug/l | 570.08 |
| Mo | 95 | 115 | 1 | No Gas | | ug/l | 74.45 |
| Mo | 95 | 115 | 3 | He | | ug/l | 13.33 |
| Mo | 98 | 115 | 1 | No Gas | | ug/l | 86.53 |
| Ag | 107 | 115 | 1 | No Gas | | ug/l | 1814.85 |
| Ag | 109 | 115 | 1 | No Gas | | ug/l | 1772.16 |
| Cd | 111 | 115 | 1 | No Gas | | ug/l | 18.71 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|---------|
| Cd | 111 | 115 | 3 | He | | ug/l | 7.56 |
| Cd | 114 | 115 | 1 | No Gas | | ug/l | -143.40 |
| Cd | 114 | 115 | 3 | He | | ug/l | 17.38 |
| Sn | 118 | 115 | 1 | No Gas | | ug/l | 3476.89 |
| Sn | 118 | 115 | 3 | He | | ug/l | 866.70 |
| Sb | 121 | 115 | 1 | No Gas | | ug/l | 302.03 |
| Sb | 121 | 115 | 3 | He | | ug/l | 74.01 |
| Sb | 123 | 115 | 1 | No Gas | | ug/l | 223.36 |
| Sb | 123 | 115 | 3 | He | | ug/l | 57.01 |
| Ba | 135 | 115 | 1 | No Gas | | ug/l | 79.84 |
| Ba | 137 | 115 | 1 | No Gas | | ug/l | 126.42 |
| La | 139 | 115 | 3 | He | | ug/l | 26.67 |
| Ce | 140 | 115 | 3 | He | | ug/l | 47.78 |
| Hg | 201 | 209 | 1 | No Gas | | ug/l | 10.67 |
| Hg | 202 | 209 | 1 | No Gas | | ug/l | 66.66 |
| Hg | 202 | 209 | 3 | He | | ug/l | 19.33 |
| Tl | 203 | 209 | 3 | He | | ug/l | 360.82 |
| Tl | 205 | 209 | 1 | No Gas | | ug/l | 1899.04 |
| Tl | 205 | 209 | 3 | He | | ug/l | 852.37 |
| [Pb] | 206 | 209 | 1 | No Gas | | ug/l | 827.81 |
| [Pb] | 207 | 209 | 1 | No Gas | | ug/l | 783.36 |
| Pb | 208 | 209 | 1 | No Gas | | ug/l | 3432.42 |
| Th | 232 | 209 | 3 | He | | ug/l | 271.45 |
| U | 238 | 209 | 1 | No Gas | | ug/l | 91.31 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 6551947.11 | |
| Sc | 45 | 2 | H2 | 3155478.39 | |
| Sc | 45 | 3 | He | 368676.46 | |
| Ge | 72 | 1 | No Gas | 1816656.15 | |
| Ge | 72 | 2 | H2 | 1099337.46 | |
| Ge | 72 | 3 | He | 247726.00 | |
| In | 115 | 1 | No Gas | 13812389.94 | |
| In | 115 | 3 | He | 2943385.24 | |
| Tb | 159 | 1 | No Gas | 16537779.49 | |
| Tb | 159 | 3 | He | 7336713.54 | |
| Ho | 165 | 1 | No Gas | 15249418.78 | |
| Ho | 165 | 3 | He | 6891463.20 | |
| Lu | 175 | 1 | No Gas | 15259597.60 | |
| Lu | 175 | 3 | He | 5770909.35 | |
| Bi | 209 | 1 | No Gas | 12013442.71 | |
| Bi | 209 | 3 | He | 5171331.08 | |

ICPMS207-B Analytical Data

Sample Name Rinse
File Name 003BLKV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 14:20:56
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|------------|
| Li | 7 | 45 | 1 | No Gas | | ug/l | 15357.22 |
| Be | 9 | 45 | 1 | No Gas | | ug/l | 290.95 |
| B | 11 | 45 | 1 | No Gas | | ug/l | 5690.70 |
| Na | 23 | 45 | 3 | He | | ug/l | 55758.52 |
| Mg | 24 | 45 | 3 | He | | ug/l | 2179.18 |
| Al | 27 | 45 | 1 | No Gas | | ug/l | 18186.20 |
| Si | 28 | 45 | 2 | H2 | | ug/l | 8435.09 |
| K | 39 | 72 | 3 | He | | ug/l | 91023.05 |
| Ca | 40 | 72 | 2 | H2 | | ug/l | 116745.26 |
| Ti | 47 | 72 | 1 | No Gas | | ug/l | 315.32 |
| V | 51 | 72 | 1 | No Gas | | ug/l | -121698.39 |
| V | 51 | 72 | 3 | He | | ug/l | 19504.08 |
| Cr | 52 | 72 | 1 | No Gas | | ug/l | 113243.23 |
| Cr | 52 | 72 | 3 | He | | ug/l | 1046.71 |
| Mn | 55 | 72 | 1 | No Gas | | ug/l | 10359.81 |
| Mn | 55 | 72 | 3 | He | | ug/l | 307.27 |
| Fe | 56 | 72 | 2 | H2 | | ug/l | 11253.98 |
| Fe | 56 | 72 | 3 | He | | ug/l | 6719.97 |
| Co | 59 | 72 | 1 | No Gas | | ug/l | 974.77 |
| Ni | 60 | 72 | 1 | No Gas | | ug/l | 888.27 |
| Ni | 60 | 72 | 3 | He | | ug/l | 144.45 |
| Cu | 63 | 72 | 1 | No Gas | | ug/l | 2256.42 |
| Cu | 63 | 72 | 3 | He | | ug/l | 743.54 |
| Cu | 65 | 72 | 1 | No Gas | | ug/l | 1003.11 |
| Zn | 66 | 72 | 1 | No Gas | | ug/l | 1428.55 |
| Zn | 66 | 72 | 3 | He | | ug/l | 452.23 |
| As | 75 | 72 | 1 | No Gas | | ug/l | 11582.68 |
| As | 75 | 72 | 3 | He | | ug/l | 370.40 |
| Se | 78 | 72 | 2 | H2 | | ug/l | 35.00 |
| Br | 79 | 72 | 1 | No Gas | | ug/l | 69111.84 |
| Br | 79 | 72 | 2 | H2 | | ug/l | 30525.04 |
| Se | 82 | 72 | 1 | No Gas | | ug/l | 939.17 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 27375.57 |
| Sr | 88 | 72 | 1 | No Gas | | ug/l | 1004.72 |
| Sr | 88 | 72 | 3 | He | | ug/l | 425.57 |
| Mo | 95 | 115 | 1 | No Gas | | ug/l | 34.45 |
| Mo | 95 | 115 | 3 | He | | ug/l | 8.89 |
| Mo | 98 | 115 | 1 | No Gas | | ug/l | 67.92 |
| Ag | 107 | 115 | 1 | No Gas | | ug/l | 1811.51 |
| Ag | 109 | 115 | 1 | No Gas | | ug/l | 1723.47 |
| Cd | 111 | 115 | 1 | No Gas | | ug/l | 46.74 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|---------|
| Cd | 111 | 115 | 3 | He | | ug/l | 7.67 |
| Cd | 114 | 115 | 1 | No Gas | | ug/l | -115.03 |
| Cd | 114 | 115 | 3 | He | | ug/l | 10.40 |
| Sn | 118 | 115 | 1 | No Gas | | ug/l | 3433.62 |
| Sn | 118 | 115 | 3 | He | | ug/l | 981.16 |
| Sb | 121 | 115 | 1 | No Gas | | ug/l | 215.02 |
| Sb | 121 | 115 | 3 | He | | ug/l | 61.68 |
| Sb | 123 | 115 | 1 | No Gas | | ug/l | 158.35 |
| Sb | 123 | 115 | 3 | He | | ug/l | 52.01 |
| Ba | 135 | 115 | 1 | No Gas | | ug/l | 63.21 |
| Ba | 137 | 115 | 1 | No Gas | | ug/l | 109.78 |
| La | 139 | 115 | 3 | He | | ug/l | 28.89 |
| Ce | 140 | 115 | 3 | He | | ug/l | 46.67 |
| Hg | 201 | 209 | 1 | No Gas | | ug/l | 11.67 |
| Hg | 202 | 209 | 1 | No Gas | | ug/l | 46.66 |
| Hg | 202 | 209 | 3 | He | | ug/l | 18.00 |
| Tl | 203 | 209 | 3 | He | | ug/l | 236.76 |
| Tl | 205 | 209 | 1 | No Gas | | ug/l | 1304.52 |
| Tl | 205 | 209 | 3 | He | | ug/l | 622.93 |
| [Pb] | 206 | 209 | 1 | No Gas | | ug/l | 770.03 |
| [Pb] | 207 | 209 | 1 | No Gas | | ug/l | 754.47 |
| Pb | 208 | 209 | 1 | No Gas | | ug/l | 3196.84 |
| Th | 232 | 209 | 3 | He | | ug/l | 232.76 |
| U | 238 | 209 | 1 | No Gas | | ug/l | 84.65 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 6440804.49 | |
| Sc | 45 | 2 | H2 | 3142060.13 | |
| Sc | 45 | 3 | He | 370315.58 | |
| Ge | 72 | 1 | No Gas | 1799854.79 | |
| Ge | 72 | 2 | H2 | 1086082.43 | |
| Ge | 72 | 3 | He | 246968.36 | |
| In | 115 | 1 | No Gas | 13692134.26 | |
| In | 115 | 3 | He | 2990610.26 | |
| Tb | 159 | 1 | No Gas | 16077032.82 | |
| Tb | 159 | 3 | He | 7240368.60 | |
| Ho | 165 | 1 | No Gas | 15154740.35 | |
| Ho | 165 | 3 | He | 6912623.16 | |
| Lu | 175 | 1 | No Gas | 15189396.15 | |
| Lu | 175 | 3 | He | 5775200.88 | |
| Bi | 209 | 1 | No Gas | 11885591.41 | |
| Bi | 209 | 3 | He | 5286819.70 | |

ICPMS207-B Analytical Data

Sample Name Cal Blk
File Name 004CALB.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 14:27:10
Sample Type CalBlk
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | 0.000 | ug/l | 15231.05 |
| Be | 9 | 45 | 1 | No Gas | 0.000 | ug/l | 272.95 |
| B | 11 | 45 | 1 | No Gas | 0.000 | ug/l | 5425.82 |
| Na | 23 | 45 | 3 | He | 0.000 | ug/l | 56063.93 |
| Mg | 24 | 45 | 3 | He | 0.000 | ug/l | 2182.50 |
| Al | 27 | 45 | 1 | No Gas | 0.000 | ug/l | 18291.20 |
| Si | 28 | 45 | 2 | H2 | 0.000 | ug/l | 8104.99 |
| K | 39 | 72 | 3 | He | 0.000 | ug/l | 92235.74 |
| Ca | 40 | 72 | 2 | H2 | 0.000 | ug/l | 119055.05 |
| Ti | 47 | 72 | 1 | No Gas | 0.000 | ug/l | 343.69 |
| V | 51 | 72 | 1 | No Gas | 0.000 | ug/l | -56766.26 |
| V | 51 | 72 | 3 | He | 0.000 | ug/l | 19962.49 |
| Cr | 52 | 72 | 1 | No Gas | 0.000 | ug/l | 112238.02 |
| Cr | 52 | 72 | 3 | He | 0.000 | ug/l | 1114.49 |
| Mn | 55 | 72 | 1 | No Gas | 0.000 | ug/l | 9733.96 |
| Mn | 55 | 72 | 3 | He | 0.000 | ug/l | 264.95 |
| Fe | 56 | 72 | 2 | H2 | 0.000 | ug/l | 11150.45 |
| Fe | 56 | 72 | 3 | He | 0.000 | ug/l | 7037.13 |
| Co | 59 | 72 | 1 | No Gas | 0.000 | ug/l | 981.43 |
| Ni | 60 | 72 | 1 | No Gas | 0.000 | ug/l | 811.75 |
| Ni | 60 | 72 | 3 | He | 0.000 | ug/l | 141.12 |
| Cu | 63 | 72 | 1 | No Gas | 0.000 | ug/l | 2380.49 |
| Cu | 63 | 72 | 3 | He | 0.000 | ug/l | 735.21 |
| Cu | 65 | 72 | 1 | No Gas | 0.000 | ug/l | 1099.82 |
| Zn | 66 | 72 | 1 | No Gas | 0.000 | ug/l | 1714.61 |
| Zn | 66 | 72 | 3 | He | 0.000 | ug/l | 347.78 |
| As | 75 | 72 | 1 | No Gas | 0.000 | ug/l | 24307.43 |
| As | 75 | 72 | 3 | He | 0.000 | ug/l | 382.20 |
| Se | 78 | 72 | 2 | H2 | 0.000 | ug/l | 43.33 |
| Br | 79 | 72 | 1 | No Gas | | ug/l | 59373.92 |
| Br | 79 | 72 | 2 | H2 | | ug/l | 27871.55 |
| Se | 82 | 72 | 1 | No Gas | 0.000 | ug/l | 1331.67 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 34577.86 |
| Sr | 88 | 72 | 1 | No Gas | 0.000 | ug/l | 974.77 |
| Sr | 88 | 72 | 3 | He | 0.000 | ug/l | 386.67 |
| Mo | 95 | 115 | 1 | No Gas | 0.000 | ug/l | 38.89 |
| Mo | 95 | 115 | 3 | He | 0.000 | ug/l | 13.33 |
| Mo | 98 | 115 | 1 | No Gas | 0.000 | ug/l | 45.70 |
| Ag | 107 | 115 | 1 | No Gas | 0.000 | ug/l | 1910.23 |
| Ag | 109 | 115 | 1 | No Gas | 0.000 | ug/l | 1843.53 |
| Cd | 111 | 115 | 1 | No Gas | 0.000 | ug/l | -22.10 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.000 | ug/l | 6.44 |
| Cd | 114 | 115 | 1 | No Gas | 0.000 | ug/l | -191.12 |
| Cd | 114 | 115 | 3 | He | 0.000 | ug/l | 13.43 |
| Sn | 118 | 115 | 1 | No Gas | 0.000 | ug/l | 3496.86 |
| Sn | 118 | 115 | 3 | He | 0.000 | ug/l | 951.15 |
| Sb | 121 | 115 | 1 | No Gas | 0.000 | ug/l | 206.69 |
| Sb | 121 | 115 | 3 | He | 0.000 | ug/l | 54.67 |
| Sb | 123 | 115 | 1 | No Gas | 0.000 | ug/l | 185.35 |
| Sb | 123 | 115 | 3 | He | 0.000 | ug/l | 41.67 |
| Ba | 135 | 115 | 1 | No Gas | 0.000 | ug/l | 63.21 |
| Ba | 137 | 115 | 1 | No Gas | 0.000 | ug/l | 133.07 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 25.56 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 48.89 |
| Hg | 201 | 209 | 1 | No Gas | 0.000 | ug/l | 13.67 |
| Hg | 202 | 209 | 1 | No Gas | 0.000 | ug/l | 62.32 |
| Hg | 202 | 209 | 3 | He | 0.000 | ug/l | 20.67 |
| Tl | 203 | 209 | 3 | He | 0.000 | ug/l | 250.11 |
| Tl | 205 | 209 | 1 | No Gas | 0.000 | ug/l | 1112.27 |
| Tl | 205 | 209 | 3 | He | 0.000 | ug/l | 593.59 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.000 | ug/l | 791.14 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.000 | ug/l | 657.80 |
| Pb | 208 | 209 | 1 | No Gas | 0.000 | ug/l | 3049.04 |
| Th | 232 | 209 | 3 | He | 0.000 | ug/l | 248.77 |
| U | 238 | 209 | 1 | No Gas | 0.000 | ug/l | 66.32 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 6304423.55 | 100.0 |
| Sc | 45 | 2 | H2 | 3033001.51 | 100.0 |
| Sc | 45 | 3 | He | 377791.54 | 100.0 |
| Ge | 72 | 1 | No Gas | 1646757.23 | 100.0 |
| Ge | 72 | 2 | H2 | 1109642.34 | 100.0 |
| Ge | 72 | 3 | He | 254147.31 | 100.0 |
| In | 115 | 1 | No Gas | 12463234.14 | 100.0 |
| In | 115 | 3 | He | 2810287.07 | 100.0 |
| Tb | 159 | 1 | No Gas | 15850419.76 | 100.0 |
| Tb | 159 | 3 | He | 7043637.71 | 100.0 |
| Ho | 165 | 1 | No Gas | 14976641.11 | 100.0 |
| Ho | 165 | 3 | He | 6620587.44 | 100.0 |
| Lu | 175 | 1 | No Gas | 15070144.41 | 100.0 |
| Lu | 175 | 3 | He | 5376465.75 | 100.0 |
| Bi | 209 | 1 | No Gas | 10425691.68 | 100.0 |
| Bi | 209 | 3 | He | 4875234.66 | 100.0 |

ICPMS207-B Analytical Data

Sample Name 0.025 ppb STD
File Name 005CAL.S.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 14:34:36
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-Cal
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | 0.262 | ug/l | 18025.19 |
| Be | 9 | 45 | 1 | No Gas | 0.024 | ug/l | 374.93 |
| B | 11 | 45 | 1 | No Gas | -0.371 | ug/l | 5144.97 |
| Na | 23 | 45 | 3 | He | 5.683 | ug/l | 60489.73 |
| Mg | 24 | 45 | 3 | He | 5.972 | ug/l | 5543.38 |
| Al | 27 | 45 | 1 | No Gas | 0.116 | ug/l | 21298.49 |
| Si | 28 | 45 | 2 | H2 | -0.068 | ug/l | 7946.65 |
| K | 39 | 72 | 3 | He | 8.966 | ug/l | 95661.80 |
| Ca | 40 | 72 | 2 | H2 | 6.919 | ug/l | 181863.98 |
| Ti | 47 | 72 | 1 | No Gas | 0.044 | ug/l | 458.80 |
| V | 51 | 72 | 1 | No Gas | -0.065 | ug/l | -61678.76 |
| V | 51 | 72 | 3 | He | 0.092 | ug/l | 20134.93 |
| Cr | 52 | 72 | 1 | No Gas | 0.192 | ug/l | 119463.45 |
| Cr | 52 | 72 | 3 | He | 0.036 | ug/l | 1314.51 |
| Mn | 55 | 72 | 1 | No Gas | 0.030 | ug/l | 10859.17 |
| Mn | 55 | 72 | 3 | He | 0.027 | ug/l | 370.93 |
| Fe | 56 | 72 | 2 | H2 | 0.751 | ug/l | 26475.44 |
| Fe | 56 | 72 | 3 | He | 0.716 | ug/l | 11040.31 |
| Co | 59 | 72 | 1 | No Gas | 0.023 | ug/l | 1786.57 |
| Ni | 60 | 72 | 1 | No Gas | 0.037 | ug/l | 1117.83 |
| Ni | 60 | 72 | 3 | He | 0.042 | ug/l | 255.56 |
| Cu | 63 | 72 | 1 | No Gas | 0.028 | ug/l | 2911.47 |
| Cu | 63 | 72 | 3 | He | 0.029 | ug/l | 931.18 |
| Cu | 65 | 72 | 1 | No Gas | 0.025 | ug/l | 1321.26 |
| Zn | 66 | 72 | 1 | No Gas | 0.010 | ug/l | 1747.73 |
| Zn | 66 | 72 | 3 | He | 0.053 | ug/l | 418.90 |
| As | 75 | 72 | 1 | No Gas | 1.766 | ug/l | 15022.47 |
| As | 75 | 72 | 3 | He | 0.048 | ug/l | 434.33 |
| Se | 78 | 72 | 2 | H2 | 0.018 | ug/l | 54.44 |
| Br | 79 | 72 | 1 | No Gas | | ug/l | 203627.94 |
| Br | 79 | 72 | 2 | H2 | | ug/l | 105684.15 |
| Se | 82 | 72 | 1 | No Gas | -10.086 | ug/l | 833.56 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 21979.99 |
| Sr | 88 | 72 | 1 | No Gas | 0.026 | ug/l | 2392.14 |
| Sr | 88 | 72 | 3 | He | 0.017 | ug/l | 491.12 |
| Mo | 95 | 115 | 1 | No Gas | 0.026 | ug/l | 306.67 |
| Mo | 95 | 115 | 3 | He | 0.030 | ug/l | 131.11 |
| Mo | 98 | 115 | 1 | No Gas | 0.026 | ug/l | 485.58 |
| Ag | 107 | 115 | 1 | No Gas | 0.015 | ug/l | 2329.80 |
| Ag | 109 | 115 | 1 | No Gas | 0.011 | ug/l | 2131.02 |
| Cd | 111 | 115 | 1 | No Gas | 0.027 | ug/l | 139.89 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.024 | ug/l | 58.00 |
| Cd | 114 | 115 | 1 | No Gas | 0.023 | ug/l | 122.97 |
| Cd | 114 | 115 | 3 | He | 0.024 | ug/l | 135.70 |
| Sn | 118 | 115 | 1 | No Gas | 0.108 | ug/l | 5359.70 |
| Sn | 118 | 115 | 3 | He | 0.041 | ug/l | 1151.16 |
| Sb | 121 | 115 | 1 | No Gas | 0.029 | ug/l | 965.46 |
| Sb | 121 | 115 | 3 | He | 0.027 | ug/l | 254.69 |
| Sb | 123 | 115 | 1 | No Gas | 0.027 | ug/l | 715.43 |
| Sb | 123 | 115 | 3 | He | 0.027 | ug/l | 202.35 |
| Ba | 135 | 115 | 1 | No Gas | 0.030 | ug/l | 222.90 |
| Ba | 137 | 115 | 1 | No Gas | 0.031 | ug/l | 425.83 |
| La | 139 | 115 | 3 | He | 0.024 | ug/l | 681.13 |
| Ce | 140 | 115 | 3 | He | 0.024 | ug/l | 785.59 |
| Hg | 201 | 209 | 1 | No Gas | 0.000 | ug/l | 13.67 |
| Hg | 202 | 209 | 1 | No Gas | 0.001 | ug/l | 71.99 |
| Hg | 202 | 209 | 3 | He | -0.001 | ug/l | 18.33 |
| Tl | 203 | 209 | 3 | He | 0.025 | ug/l | 504.22 |
| Tl | 205 | 209 | 1 | No Gas | 0.026 | ug/l | 2252.43 |
| Tl | 205 | 209 | 3 | He | 0.022 | ug/l | 1135.17 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.017 | ug/l | 1048.94 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.025 | ug/l | 987.82 |
| Pb | 208 | 209 | 1 | No Gas | 0.021 | ug/l | 4333.64 |
| Th | 232 | 209 | 3 | He | 0.017 | ug/l | 745.66 |
| U | 238 | 209 | 1 | No Gas | 0.025 | ug/l | 1622.11 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 6278881.72 | 99.6 |
| Sc | 45 | 2 | H2 | 3026906.15 | 99.8 |
| Sc | 45 | 3 | He | 369704.41 | 97.9 |
| Ge | 72 | 1 | No Gas | 1620192.17 | 98.4 |
| Ge | 72 | 2 | H2 | 1077855.62 | 97.1 |
| Ge | 72 | 3 | He | 247992.64 | 97.6 |
| In | 115 | 1 | No Gas | 12421470.82 | 99.7 |
| In | 115 | 3 | He | 2822301.39 | 100.4 |
| Tb | 159 | 1 | No Gas | 15644119.40 | 98.7 |
| Tb | 159 | 3 | He | 7084855.65 | 100.6 |
| Ho | 165 | 1 | No Gas | 14743770.96 | 98.4 |
| Ho | 165 | 3 | He | 6590848.48 | 99.6 |
| Lu | 175 | 1 | No Gas | 15029539.84 | 99.7 |
| Lu | 175 | 3 | He | 5402800.42 | 100.5 |
| Bi | 209 | 1 | No Gas | 10235855.56 | 98.2 |
| Bi | 209 | 3 | He | 4867819.43 | 99.8 |

ICPMS207-B Analytical Data

Sample Name 0.05 ppb STD
File Name 006CAL5.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 14:41:15
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-Cal
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | 0.617 | ug/l | 22304.59 |
| Be | 9 | 45 | 1 | No Gas | 0.050 | ug/l | 494.91 |
| B | 11 | 45 | 1 | No Gas | -1.090 | ug/l | 4722.64 |
| Na | 23 | 45 | 3 | He | 13.855 | ug/l | 68447.17 |
| Mg | 24 | 45 | 3 | He | 14.563 | ug/l | 10426.26 |
| Al | 27 | 45 | 1 | No Gas | 0.108 | ug/l | 21449.80 |
| Si | 28 | 45 | 2 | H2 | -0.022 | ug/l | 8100.82 |
| K | 39 | 72 | 3 | He | 19.941 | ug/l | 100601.85 |
| Ca | 40 | 72 | 2 | H2 | 14.843 | ug/l | 256163.63 |
| Ti | 47 | 72 | 1 | No Gas | 0.061 | ug/l | 510.52 |
| V | 51 | 72 | 1 | No Gas | 0.050 | ug/l | -49763.50 |
| V | 51 | 72 | 3 | He | 0.147 | ug/l | 20124.93 |
| Cr | 52 | 72 | 1 | No Gas | 0.196 | ug/l | 120359.24 |
| Cr | 52 | 72 | 3 | He | 0.062 | ug/l | 1454.53 |
| Mn | 55 | 72 | 1 | No Gas | 0.063 | ug/l | 12347.37 |
| Mn | 55 | 72 | 3 | He | 0.054 | ug/l | 475.58 |
| Fe | 56 | 72 | 2 | H2 | 1.561 | ug/l | 43086.09 |
| Fe | 56 | 72 | 3 | He | 1.486 | ug/l | 15229.91 |
| Co | 59 | 72 | 1 | No Gas | 0.061 | ug/l | 3197.36 |
| Ni | 60 | 72 | 1 | No Gas | 0.055 | ug/l | 1284.19 |
| Ni | 60 | 72 | 3 | He | 0.075 | ug/l | 342.23 |
| Cu | 63 | 72 | 1 | No Gas | 0.050 | ug/l | 3368.41 |
| Cu | 63 | 72 | 3 | He | 0.057 | ug/l | 1112.49 |
| Cu | 65 | 72 | 1 | No Gas | 0.047 | ug/l | 1547.38 |
| Zn | 66 | 72 | 1 | No Gas | 0.000 | ug/l | 1697.77 |
| Zn | 66 | 72 | 3 | He | 0.044 | ug/l | 397.79 |
| As | 75 | 72 | 1 | No Gas | 1.826 | ug/l | 14683.19 |
| As | 75 | 72 | 3 | He | 0.069 | ug/l | 452.47 |
| Se | 78 | 72 | 2 | H2 | 0.052 | ug/l | 78.56 |
| Br | 79 | 72 | 1 | No Gas | | ug/l | 178539.89 |
| Br | 79 | 72 | 2 | H2 | | ug/l | 92614.72 |
| Se | 82 | 72 | 1 | No Gas | -11.363 | ug/l | 778.74 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 17912.28 |
| Sr | 88 | 72 | 1 | No Gas | 0.055 | ug/l | 4019.27 |
| Sr | 88 | 72 | 3 | He | 0.045 | ug/l | 657.80 |
| Mo | 95 | 115 | 1 | No Gas | 0.063 | ug/l | 697.80 |
| Mo | 95 | 115 | 3 | He | 0.062 | ug/l | 248.89 |
| Mo | 98 | 115 | 1 | No Gas | 0.057 | ug/l | 1020.05 |
| Ag | 107 | 115 | 1 | No Gas | 0.022 | ug/l | 2558.60 |
| Ag | 109 | 115 | 1 | No Gas | 0.025 | ug/l | 2533.25 |
| Cd | 111 | 115 | 1 | No Gas | 0.070 | ug/l | 408.54 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.056 | ug/l | 123.67 |
| Cd | 114 | 115 | 1 | No Gas | 0.060 | ug/l | 630.13 |
| Cd | 114 | 115 | 3 | He | 0.057 | ug/l | 298.43 |
| Sn | 118 | 115 | 1 | No Gas | 0.049 | ug/l | 4375.36 |
| Sn | 118 | 115 | 3 | He | 0.055 | ug/l | 1190.06 |
| Sb | 121 | 115 | 1 | No Gas | 0.056 | ug/l | 1700.61 |
| Sb | 121 | 115 | 3 | He | 0.056 | ug/l | 454.72 |
| Sb | 123 | 115 | 1 | No Gas | 0.058 | ug/l | 1350.20 |
| Sb | 123 | 115 | 3 | He | 0.057 | ug/l | 365.71 |
| Ba | 135 | 115 | 1 | No Gas | 0.052 | ug/l | 349.31 |
| Ba | 137 | 115 | 1 | No Gas | 0.045 | ug/l | 565.56 |
| La | 139 | 115 | 3 | He | 0.055 | ug/l | 1521.21 |
| Ce | 140 | 115 | 3 | He | 0.057 | ug/l | 1760.12 |
| Hg | 201 | 209 | 1 | No Gas | 0.001 | ug/l | 16.33 |
| Hg | 202 | 209 | 1 | No Gas | 0.000 | ug/l | 64.32 |
| Hg | 202 | 209 | 3 | He | -0.001 | ug/l | 18.33 |
| Tl | 203 | 209 | 3 | He | 0.054 | ug/l | 786.34 |
| Tl | 205 | 209 | 1 | No Gas | 0.057 | ug/l | 3633.85 |
| Tl | 205 | 209 | 3 | He | 0.056 | ug/l | 1909.57 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.048 | ug/l | 1545.66 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.052 | ug/l | 1374.53 |
| Pb | 208 | 209 | 1 | No Gas | 0.050 | ug/l | 6243.96 |
| Th | 232 | 209 | 3 | He | 0.043 | ug/l | 1486.69 |
| U | 238 | 209 | 1 | No Gas | 0.058 | ug/l | 3691.79 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 6386767.98 | 101.3 |
| Sc | 45 | 2 | H2 | 3047537.95 | 100.5 |
| Sc | 45 | 3 | He | 368927.55 | 97.7 |
| Ge | 72 | 1 | No Gas | 1630302.35 | 99.0 |
| Ge | 72 | 2 | H2 | 1071394.40 | 96.6 |
| Ge | 72 | 3 | He | 243285.93 | 95.7 |
| In | 115 | 1 | No Gas | 12576857.50 | 100.9 |
| In | 115 | 3 | He | 2761112.21 | 98.3 |
| Tb | 159 | 1 | No Gas | 15763171.26 | 99.4 |
| Tb | 159 | 3 | He | 6874488.67 | 97.6 |
| Ho | 165 | 1 | No Gas | 14866578.03 | 99.3 |
| Ho | 165 | 3 | He | 6453875.16 | 97.5 |
| Lu | 175 | 1 | No Gas | 14735835.84 | 97.8 |
| Lu | 175 | 3 | He | 5375413.09 | 100.0 |
| Bi | 209 | 1 | No Gas | 10276247.96 | 98.6 |
| Bi | 209 | 3 | He | 4771237.99 | 97.9 |

ICPMS207-B Analytical Data

Sample Name 0.10 ppb STD
File Name 007CAL.S.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 14:47:54
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-Cal
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | 1.203 | ug/l | 28416.50 |
| Be | 9 | 45 | 1 | No Gas | 0.103 | ug/l | 712.21 |
| B | 11 | 45 | 1 | No Gas | -1.098 | ug/l | 4647.92 |
| Na | 23 | 45 | 3 | He | 24.392 | ug/l | 78823.95 |
| Mg | 24 | 45 | 3 | He | 26.121 | ug/l | 16999.31 |
| Al | 27 | 45 | 1 | No Gas | 0.146 | ug/l | 22159.72 |
| Si | 28 | 45 | 2 | H2 | 0.311 | ug/l | 8727.77 |
| K | 39 | 72 | 3 | He | 26.592 | ug/l | 106595.21 |
| Ca | 40 | 72 | 2 | H2 | 26.547 | ug/l | 365135.84 |
| Ti | 47 | 72 | 1 | No Gas | 0.102 | ug/l | 602.29 |
| V | 51 | 72 | 1 | No Gas | 0.672 | ug/l | 3440.35 |
| V | 51 | 72 | 3 | He | 0.115 | ug/l | 20260.67 |
| Cr | 52 | 72 | 1 | No Gas | 0.278 | ug/l | 120100.28 |
| Cr | 52 | 72 | 3 | He | 0.081 | ug/l | 1597.87 |
| Mn | 55 | 72 | 1 | No Gas | 0.105 | ug/l | 13675.88 |
| Mn | 55 | 72 | 3 | He | 0.101 | ug/l | 677.55 |
| Fe | 56 | 72 | 2 | H2 | 2.747 | ug/l | 67220.50 |
| Fe | 56 | 72 | 3 | He | 2.699 | ug/l | 22565.04 |
| Co | 59 | 72 | 1 | No Gas | 0.101 | ug/l | 4475.15 |
| Ni | 60 | 72 | 1 | No Gas | 0.102 | ug/l | 1636.86 |
| Ni | 60 | 72 | 3 | He | 0.096 | ug/l | 407.79 |
| Cu | 63 | 72 | 1 | No Gas | 0.101 | ug/l | 4259.68 |
| Cu | 63 | 72 | 3 | He | 0.100 | ug/l | 1442.79 |
| Cu | 65 | 72 | 1 | No Gas | 0.103 | ug/l | 2030.29 |
| Zn | 66 | 72 | 1 | No Gas | 0.065 | ug/l | 2030.32 |
| Zn | 66 | 72 | 3 | He | 0.073 | ug/l | 447.79 |
| As | 75 | 72 | 1 | No Gas | 1.529 | ug/l | 15807.33 |
| As | 75 | 72 | 3 | He | 0.127 | ug/l | 533.67 |
| Se | 78 | 72 | 2 | H2 | 0.103 | ug/l | 113.33 |
| Br | 79 | 72 | 1 | No Gas | | ug/l | 183566.43 |
| Br | 79 | 72 | 2 | H2 | | ug/l | 94777.23 |
| Se | 82 | 72 | 1 | No Gas | -6.103 | ug/l | 995.58 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 23585.81 |
| Sr | 88 | 72 | 1 | No Gas | 0.106 | ug/l | 6555.19 |
| Sr | 88 | 72 | 3 | He | 0.091 | ug/l | 970.04 |
| Mo | 95 | 115 | 1 | No Gas | 0.113 | ug/l | 1170.05 |
| Mo | 95 | 115 | 3 | He | 0.101 | ug/l | 404.45 |
| Mo | 98 | 115 | 1 | No Gas | 0.110 | ug/l | 1847.57 |
| Ag | 107 | 115 | 1 | No Gas | 0.046 | ug/l | 3134.94 |
| Ag | 109 | 115 | 1 | No Gas | 0.044 | ug/l | 2954.17 |
| Cd | 111 | 115 | 1 | No Gas | 0.104 | ug/l | 597.80 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.103 | ug/l | 225.12 |
| Cd | 114 | 115 | 1 | No Gas | 0.105 | ug/l | 1201.05 |
| Cd | 114 | 115 | 3 | He | 0.105 | ug/l | 548.19 |
| Sn | 118 | 115 | 1 | No Gas | 0.097 | ug/l | 4991.01 |
| Sn | 118 | 115 | 3 | He | 0.095 | ug/l | 1396.75 |
| Sb | 121 | 115 | 1 | No Gas | 0.108 | ug/l | 2975.62 |
| Sb | 121 | 115 | 3 | He | 0.106 | ug/l | 830.11 |
| Sb | 123 | 115 | 1 | No Gas | 0.108 | ug/l | 2263.08 |
| Sb | 123 | 115 | 3 | He | 0.099 | ug/l | 614.74 |
| Ba | 135 | 115 | 1 | No Gas | 0.098 | ug/l | 572.21 |
| Ba | 137 | 115 | 1 | No Gas | 0.106 | ug/l | 1101.21 |
| La | 139 | 115 | 3 | He | 0.103 | ug/l | 2863.65 |
| Ce | 140 | 115 | 3 | He | 0.103 | ug/l | 3149.27 |
| Hg | 201 | 209 | 1 | No Gas | 0.000 | ug/l | 14.67 |
| Hg | 202 | 209 | 1 | No Gas | 0.003 | ug/l | 84.98 |
| Hg | 202 | 209 | 3 | He | 0.001 | ug/l | 22.33 |
| Tl | 203 | 209 | 3 | He | 0.099 | ug/l | 1226.55 |
| Tl | 205 | 209 | 1 | No Gas | 0.106 | ug/l | 5837.99 |
| Tl | 205 | 209 | 3 | He | 0.105 | ug/l | 3066.93 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.095 | ug/l | 2304.66 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.099 | ug/l | 2015.72 |
| Pb | 208 | 209 | 1 | No Gas | 0.096 | ug/l | 9154.62 |
| Th | 232 | 209 | 3 | He | 0.089 | ug/l | 2792.09 |
| U | 238 | 209 | 1 | No Gas | 0.105 | ug/l | 6680.71 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 6293735.77 | 99.8 |
| Sc | 45 | 2 | H2 | 3027428.63 | 99.8 |
| Sc | 45 | 3 | He | 368704.19 | 97.6 |
| Ge | 72 | 1 | No Gas | 1575569.06 | 95.7 |
| Ge | 72 | 2 | H2 | 1064659.21 | 95.9 |
| Ge | 72 | 3 | He | 247600.14 | 97.4 |
| In | 115 | 1 | No Gas | 12081944.01 | 96.9 |
| In | 115 | 3 | He | 2798101.03 | 99.6 |
| Tb | 159 | 1 | No Gas | 15683938.49 | 98.9 |
| Tb | 159 | 3 | He | 6724446.03 | 95.5 |
| Ho | 165 | 1 | No Gas | 14519774.78 | 96.9 |
| Ho | 165 | 3 | He | 6357015.90 | 96.0 |
| Lu | 175 | 1 | No Gas | 14452403.25 | 95.9 |
| Lu | 175 | 3 | He | 5402388.66 | 100.5 |
| Bi | 209 | 1 | No Gas | 10262710.90 | 98.4 |
| Bi | 209 | 3 | He | 4732670.29 | 97.1 |

ICPMS207-B Analytical Data

Sample Name 0.5 ppb STD
File Name 008CAL.S.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 14:54:32
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-Cal
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|------------|
| Li | 7 | 45 | 1 | No Gas | 5.937 | ug/l | 80085.57 |
| Be | 9 | 45 | 1 | No Gas | 0.480 | ug/l | 2312.72 |
| B | 11 | 45 | 1 | No Gas | -0.191 | ug/l | 5262.37 |
| Na | 23 | 45 | 3 | He | 120.356 | ug/l | 173515.13 |
| Mg | 24 | 45 | 3 | He | 120.455 | ug/l | 70632.30 |
| Al | 27 | 45 | 1 | No Gas | 0.549 | ug/l | 32739.01 |
| Si | 28 | 45 | 2 | H2 | 1.795 | ug/l | 11705.34 |
| K | 39 | 72 | 3 | He | 121.190 | ug/l | 163555.36 |
| Ca | 40 | 72 | 2 | H2 | 120.084 | ug/l | 1254650.05 |
| Ti | 47 | 72 | 1 | No Gas | 0.447 | ug/l | 1590.02 |
| V | 51 | 72 | 1 | No Gas | 0.666 | ug/l | 2713.91 |
| V | 51 | 72 | 3 | He | 0.533 | ug/l | 22863.33 |
| Cr | 52 | 72 | 1 | No Gas | 0.518 | ug/l | 136125.42 |
| Cr | 52 | 72 | 3 | He | 0.501 | ug/l | 4177.28 |
| Mn | 55 | 72 | 1 | No Gas | 0.497 | ug/l | 31204.52 |
| Mn | 55 | 72 | 3 | He | 0.490 | ug/l | 2259.06 |
| Fe | 56 | 72 | 2 | H2 | 12.633 | ug/l | 271817.72 |
| Fe | 56 | 72 | 3 | He | 12.430 | ug/l | 77967.51 |
| Co | 59 | 72 | 1 | No Gas | 0.471 | ug/l | 18158.62 |
| Ni | 60 | 72 | 1 | No Gas | 0.591 | ug/l | 5979.38 |
| Ni | 60 | 72 | 3 | He | 0.618 | ug/l | 1850.13 |
| Cu | 63 | 72 | 1 | No Gas | 0.535 | ug/l | 13226.63 |
| Cu | 63 | 72 | 3 | He | 0.538 | ug/l | 4544.47 |
| Cu | 65 | 72 | 1 | No Gas | 0.539 | ug/l | 6380.63 |
| Zn | 66 | 72 | 1 | No Gas | 0.532 | ug/l | 5021.58 |
| Zn | 66 | 72 | 3 | He | 0.505 | ug/l | 1075.60 |
| As | 75 | 72 | 1 | No Gas | 1.246 | ug/l | 17764.12 |
| As | 75 | 72 | 3 | He | 0.492 | ug/l | 983.41 |
| Se | 78 | 72 | 2 | H2 | 0.486 | ug/l | 381.01 |
| Br | 79 | 72 | 1 | No Gas | | ug/l | 198504.76 |
| Br | 79 | 72 | 2 | H2 | | ug/l | 103465.50 |
| Se | 82 | 72 | 1 | No Gas | -3.321 | ug/l | 1166.40 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 25518.80 |
| Sr | 88 | 72 | 1 | No Gas | 0.487 | ug/l | 27908.42 |
| Sr | 88 | 72 | 3 | He | 0.477 | ug/l | 3422.66 |
| Mo | 95 | 115 | 1 | No Gas | 0.487 | ug/l | 5013.14 |
| Mo | 95 | 115 | 3 | He | 0.502 | ug/l | 1926.81 |
| Mo | 98 | 115 | 1 | No Gas | 0.497 | ug/l | 8315.33 |
| Ag | 107 | 115 | 1 | No Gas | 0.196 | ug/l | 7396.24 |
| Ag | 109 | 115 | 1 | No Gas | 0.194 | ug/l | 7023.24 |
| Cd | 111 | 115 | 1 | No Gas | 0.495 | ug/l | 2962.27 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.488 | ug/l | 1023.48 |
| Cd | 114 | 115 | 1 | No Gas | 0.492 | ug/l | 6449.81 |
| Cd | 114 | 115 | 3 | He | 0.498 | ug/l | 2508.40 |
| Sn | 118 | 115 | 1 | No Gas | 0.507 | ug/l | 12001.40 |
| Sn | 118 | 115 | 3 | He | 0.526 | ug/l | 3389.32 |
| Sb | 121 | 115 | 1 | No Gas | 0.498 | ug/l | 13180.82 |
| Sb | 121 | 115 | 3 | He | 0.499 | ug/l | 3645.84 |
| Sb | 123 | 115 | 1 | No Gas | 0.502 | ug/l | 10026.58 |
| Sb | 123 | 115 | 3 | He | 0.488 | ug/l | 2821.90 |
| Ba | 135 | 115 | 1 | No Gas | 0.498 | ug/l | 2714.90 |
| Ba | 137 | 115 | 1 | No Gas | 0.485 | ug/l | 4644.91 |
| La | 139 | 115 | 3 | He | 0.483 | ug/l | 13119.55 |
| Ce | 140 | 115 | 3 | He | 0.478 | ug/l | 14268.51 |
| Hg | 201 | 209 | 1 | No Gas | 0.010 | ug/l | 45.99 |
| Hg | 202 | 209 | 1 | No Gas | 0.008 | ug/l | 119.65 |
| Hg | 202 | 209 | 3 | He | 0.009 | ug/l | 53.32 |
| Tl | 203 | 209 | 3 | He | 0.473 | ug/l | 5002.96 |
| Tl | 205 | 209 | 1 | No Gas | 0.495 | ug/l | 22965.42 |
| Tl | 205 | 209 | 3 | He | 0.484 | ug/l | 12186.48 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.491 | ug/l | 8528.35 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.491 | ug/l | 7339.85 |
| Pb | 208 | 209 | 1 | No Gas | 0.488 | ug/l | 33962.80 |
| Th | 232 | 209 | 3 | He | 0.456 | ug/l | 13538.45 |
| U | 238 | 209 | 1 | No Gas | 0.491 | ug/l | 30573.83 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 6268371.13 | 99.4 |
| Sc | 45 | 2 | H2 | 3010530.66 | 99.3 |
| Sc | 45 | 3 | He | 368345.00 | 97.5 |
| Ge | 72 | 1 | No Gas | 1636087.09 | 99.4 |
| Ge | 72 | 2 | H2 | 1069551.55 | 96.4 |
| Ge | 72 | 3 | He | 243660.82 | 95.9 |
| In | 115 | 1 | No Gas | 12298954.79 | 98.7 |
| In | 115 | 3 | He | 2757464.74 | 98.1 |
| Tb | 159 | 1 | No Gas | 15818982.80 | 99.8 |
| Tb | 159 | 3 | He | 6720822.93 | 95.4 |
| Ho | 165 | 1 | No Gas | 14739836.82 | 98.4 |
| Ho | 165 | 3 | He | 6433338.58 | 97.2 |
| Lu | 175 | 1 | No Gas | 14617780.08 | 97.0 |
| Lu | 175 | 3 | He | 5352605.17 | 99.6 |
| Bi | 209 | 1 | No Gas | 10129232.61 | 97.2 |
| Bi | 209 | 3 | He | 4787628.03 | 98.2 |

ICPMS207-B Analytical Data

Sample Name 1 ppb STD
File Name 009CAL.S.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 15:01:11
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-Cal
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|------------|
| Li | 7 | 45 | 1 | No Gas | 12.663 | ug/l | 154483.34 |
| Be | 9 | 45 | 1 | No Gas | 1.010 | ug/l | 4594.78 |
| B | 11 | 45 | 1 | No Gas | 1.522 | ug/l | 6492.67 |
| Na | 23 | 45 | 3 | He | 252.329 | ug/l | 302870.02 |
| Mg | 24 | 45 | 3 | He | 252.064 | ug/l | 145012.80 |
| Al | 27 | 45 | 1 | No Gas | 0.968 | ug/l | 44110.21 |
| Si | 28 | 45 | 2 | H2 | 4.122 | ug/l | 16241.98 |
| K | 39 | 72 | 3 | He | 251.306 | ug/l | 242577.09 |
| Ca | 40 | 72 | 2 | H2 | 252.169 | ug/l | 2477060.23 |
| Ti | 47 | 72 | 1 | No Gas | 1.025 | ug/l | 3111.79 |
| V | 51 | 72 | 1 | No Gas | 0.862 | ug/l | 20459.66 |
| V | 51 | 72 | 3 | He | 0.975 | ug/l | 25781.49 |
| Cr | 52 | 72 | 1 | No Gas | 0.962 | ug/l | 152647.59 |
| Cr | 52 | 72 | 3 | He | 1.001 | ug/l | 7231.82 |
| Mn | 55 | 72 | 1 | No Gas | 1.000 | ug/l | 51498.18 |
| Mn | 55 | 72 | 3 | He | 1.005 | ug/l | 4333.78 |
| Fe | 56 | 72 | 2 | H2 | 26.153 | ug/l | 544261.18 |
| Fe | 56 | 72 | 3 | He | 26.264 | ug/l | 156202.66 |
| Co | 59 | 72 | 1 | No Gas | 1.014 | ug/l | 36853.24 |
| Ni | 60 | 72 | 1 | No Gas | 0.954 | ug/l | 8878.42 |
| Ni | 60 | 72 | 3 | He | 0.940 | ug/l | 2722.49 |
| Cu | 63 | 72 | 1 | No Gas | 0.982 | ug/l | 21666.73 |
| Cu | 63 | 72 | 3 | He | 0.980 | ug/l | 7649.81 |
| Cu | 65 | 72 | 1 | No Gas | 0.981 | ug/l | 10413.24 |
| Zn | 66 | 72 | 1 | No Gas | 0.990 | ug/l | 7643.54 |
| Zn | 66 | 72 | 3 | He | 1.000 | ug/l | 1790.12 |
| As | 75 | 72 | 1 | No Gas | 0.352 | ug/l | 21658.39 |
| As | 75 | 72 | 3 | He | 1.000 | ug/l | 1610.53 |
| Se | 78 | 72 | 2 | H2 | 1.007 | ug/l | 735.24 |
| Br | 79 | 72 | 1 | No Gas | | ug/l | 175739.43 |
| Br | 79 | 72 | 2 | H2 | | ug/l | 92048.38 |
| Se | 82 | 72 | 1 | No Gas | 4.354 | ug/l | 1489.01 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 28878.82 |
| Sr | 88 | 72 | 1 | No Gas | 1.006 | ug/l | 54963.13 |
| Sr | 88 | 72 | 3 | He | 1.013 | ug/l | 6799.42 |
| Mo | 95 | 115 | 1 | No Gas | 1.004 | ug/l | 10332.67 |
| Mo | 95 | 115 | 3 | He | 0.998 | ug/l | 3848.32 |
| Mo | 98 | 115 | 1 | No Gas | 1.000 | ug/l | 16754.86 |
| Ag | 107 | 115 | 1 | No Gas | 0.401 | ug/l | 13210.81 |
| Ag | 109 | 115 | 1 | No Gas | 0.402 | ug/l | 12655.39 |
| Cd | 111 | 115 | 1 | No Gas | 1.001 | ug/l | 6036.43 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|----------|
| Cd | 111 | 115 | 3 | He | 1.005 | ug/l | 2117.93 |
| Cd | 114 | 115 | 1 | No Gas | 1.003 | ug/l | 13391.75 |
| Cd | 114 | 115 | 3 | He | 1.000 | ug/l | 5068.59 |
| Sn | 118 | 115 | 1 | No Gas | 0.995 | ug/l | 20283.57 |
| Sn | 118 | 115 | 3 | He | 0.987 | ug/l | 5585.59 |
| Sb | 121 | 115 | 1 | No Gas | 1.000 | ug/l | 26370.25 |
| Sb | 121 | 115 | 3 | He | 1.000 | ug/l | 7315.64 |
| Sb | 123 | 115 | 1 | No Gas | 0.998 | ug/l | 19813.89 |
| Sb | 123 | 115 | 3 | He | 1.006 | ug/l | 5822.12 |
| Ba | 135 | 115 | 1 | No Gas | 1.001 | ug/l | 5407.05 |
| Ba | 137 | 115 | 1 | No Gas | 1.007 | ug/l | 9551.05 |
| La | 139 | 115 | 3 | He | 1.008 | ug/l | 27562.94 |
| Ce | 140 | 115 | 3 | He | 1.011 | ug/l | 30379.95 |
| Hg | 201 | 209 | 1 | No Gas | 0.020 | ug/l | 76.65 |
| Hg | 202 | 209 | 1 | No Gas | 0.021 | ug/l | 216.29 |
| Hg | 202 | 209 | 3 | He | 0.021 | ug/l | 92.31 |
| Tl | 203 | 209 | 3 | He | 1.013 | ug/l | 10434.29 |
| Tl | 205 | 209 | 1 | No Gas | 1.002 | ug/l | 46021.97 |
| Tl | 205 | 209 | 3 | He | 1.007 | ug/l | 24730.82 |
| [Pb] | 206 | 209 | 1 | No Gas | 1.005 | ug/l | 16898.53 |
| [Pb] | 207 | 209 | 1 | No Gas | 1.004 | ug/l | 14535.76 |
| Pb | 208 | 209 | 1 | No Gas | 1.007 | ug/l | 67871.91 |
| Th | 232 | 209 | 3 | He | 1.024 | ug/l | 30091.79 |
| U | 238 | 209 | 1 | No Gas | 1.004 | ug/l | 63286.99 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 6306116.73 | 100.0 |
| Sc | 45 | 2 | H2 | 2972655.22 | 98.0 |
| Sc | 45 | 3 | He | 367220.08 | 97.2 |
| Ge | 72 | 1 | No Gas | 1590148.58 | 96.6 |
| Ge | 72 | 2 | H2 | 1055957.42 | 95.2 |
| Ge | 72 | 3 | He | 242047.91 | 95.2 |
| In | 115 | 1 | No Gas | 12351743.31 | 99.1 |
| In | 115 | 3 | He | 2779452.69 | 98.9 |
| Tb | 159 | 1 | No Gas | 15830274.09 | 99.9 |
| Tb | 159 | 3 | He | 6774639.87 | 96.2 |
| Ho | 165 | 1 | No Gas | 14748131.36 | 98.5 |
| Ho | 165 | 3 | He | 6382994.07 | 96.4 |
| Lu | 175 | 1 | No Gas | 14653770.76 | 97.2 |
| Lu | 175 | 3 | He | 5346651.57 | 99.4 |
| Bi | 209 | 1 | No Gas | 10271414.78 | 98.5 |
| Bi | 209 | 3 | He | 4786691.06 | 98.2 |

ICPMS207-B Analytical Data

Sample Name Rinse
File Name 011BLKV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 16:59:11
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-200.8-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | 0.257 | ug/l | 16763.92 |
| Be | 9 | 45 | 1 | No Gas | -0.039 | ug/l | 99.98 |
| B | 11 | 45 | 1 | No Gas | 2.623 | ug/l | 6740.22 |
| Na | 23 | 45 | 3 | He | 7.395 | ug/l | 53980.88 |
| Mg | 24 | 45 | 3 | He | 0.060 | ug/l | 1883.06 |
| Al | 27 | 45 | 1 | No Gas | 0.020 | ug/l | 17477.99 |
| Si | 28 | 45 | 2 | H2 | 0.590 | ug/l | 9527.61 |
| K | 39 | 72 | 3 | He | -1.194 | ug/l | 80823.70 |
| Ca | 40 | 72 | 2 | H2 | 2.869 | ug/l | 139505.15 |
| Ti | 47 | 72 | 1 | No Gas | -0.041 | ug/l | 221.89 |
| V | 51 | 72 | 1 | No Gas | 0.136 | ug/l | -43478.63 |
| V | 51 | 72 | 3 | He | -0.664 | ug/l | 13358.33 |
| Cr | 52 | 72 | 1 | No Gas | -0.608 | ug/l | 80787.79 |
| Cr | 52 | 72 | 3 | He | -0.006 | ug/l | 947.82 |
| Mn | 55 | 72 | 1 | No Gas | 0.168 | ug/l | 16559.81 |
| Mn | 55 | 72 | 3 | He | 0.121 | ug/l | 689.55 |
| Fe | 56 | 72 | 2 | H2 | 0.192 | ug/l | 14421.78 |
| Fe | 56 | 72 | 3 | He | 0.058 | ug/l | 6523.05 |
| Co | 59 | 72 | 1 | No Gas | -0.008 | ug/l | 682.00 |
| Ni | 60 | 72 | 1 | No Gas | -0.016 | ug/l | 652.05 |
| Ni | 60 | 72 | 3 | He | -0.011 | ug/l | 97.78 |
| Cu | 63 | 72 | 1 | No Gas | 0.004 | ug/l | 2396.50 |
| Cu | 63 | 72 | 3 | He | 0.021 | ug/l | 788.53 |
| Cu | 65 | 72 | 1 | No Gas | 0.001 | ug/l | 1075.81 |
| Zn | 66 | 72 | 1 | No Gas | -0.056 | ug/l | 1319.08 |
| Zn | 66 | 72 | 3 | He | -0.005 | ug/l | 300.00 |
| As | 75 | 72 | 1 | No Gas | 1.406 | ug/l | 16639.22 |
| As | 75 | 72 | 3 | He | -0.073 | ug/l | 253.67 |
| Se | 78 | 72 | 2 | H2 | -0.001 | ug/l | 40.11 |
| Br | 79 | 72 | 1 | No Gas | | ug/l | 303967.15 |
| Br | 79 | 72 | 2 | H2 | | ug/l | 170553.59 |
| Se | 82 | 72 | 1 | No Gas | -8.979 | ug/l | 874.22 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 22243.02 |
| Sr | 88 | 72 | 1 | No Gas | -0.001 | ug/l | 878.29 |
| Sr | 88 | 72 | 3 | He | -0.009 | ug/l | 287.78 |
| Mo | 95 | 115 | 1 | No Gas | 0.017 | ug/l | 214.45 |
| Mo | 95 | 115 | 3 | He | 0.012 | ug/l | 57.78 |
| Mo | 98 | 115 | 1 | No Gas | 0.015 | ug/l | 303.06 |
| Ag | 107 | 115 | 1 | No Gas | 0.003 | ug/l | 1971.60 |
| Ag | 109 | 115 | 1 | No Gas | -0.001 | ug/l | 1796.84 |
| Cd | 111 | 115 | 1 | No Gas | 0.006 | ug/l | 16.77 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.003 | ug/l | 12.67 |
| Cd | 114 | 115 | 1 | No Gas | 0.008 | ug/l | -74.26 |
| Cd | 114 | 115 | 3 | He | 0.003 | ug/l | 26.61 |
| Sn | 118 | 115 | 1 | No Gas | 0.003 | ug/l | 3516.81 |
| Sn | 118 | 115 | 3 | He | 0.007 | ug/l | 932.26 |
| Sb | 121 | 115 | 1 | No Gas | 0.147 | ug/l | 4063.67 |
| Sb | 121 | 115 | 3 | He | 0.112 | ug/l | 828.78 |
| Sb | 123 | 115 | 1 | No Gas | 0.147 | ug/l | 3087.98 |
| Sb | 123 | 115 | 3 | He | 0.119 | ug/l | 695.09 |
| Ba | 135 | 115 | 1 | No Gas | 0.004 | ug/l | 86.49 |
| Ba | 137 | 115 | 1 | No Gas | 0.002 | ug/l | 153.03 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 28.89 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 42.22 |
| Hg | 201 | 209 | 1 | No Gas | 0.007 | ug/l | 37.66 |
| Hg | 202 | 209 | 1 | No Gas | 0.006 | ug/l | 118.98 |
| Hg | 202 | 209 | 3 | He | 0.006 | ug/l | 41.99 |
| Tl | 203 | 209 | 3 | He | 0.202 | ug/l | 2351.83 |
| Tl | 205 | 209 | 1 | No Gas | 0.203 | ug/l | 11115.95 |
| Tl | 205 | 209 | 3 | He | 0.205 | ug/l | 5683.51 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.000 | ug/l | 843.37 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.005 | ug/l | 790.03 |
| Pb | 208 | 209 | 1 | No Gas | 0.003 | ug/l | 3503.54 |
| Th | 232 | 209 | 3 | He | 0.043 | ug/l | 1533.37 |
| U | 238 | 209 | 1 | No Gas | 0.009 | ug/l | 700.16 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5856510.46 | 92.9 |
| Sc | 45 | 2 | H2 | 3095622.14 | 102.1 |
| Sc | 45 | 3 | He | 320880.05 | 84.9 |
| Ge | 72 | 1 | No Gas | 1598353.81 | 97.1 |
| Ge | 72 | 2 | H2 | 1048063.60 | 94.5 |
| Ge | 72 | 3 | He | 224567.79 | 88.4 |
| In | 115 | 1 | No Gas | 12362158.48 | 99.2 |
| In | 115 | 3 | He | 2654844.23 | 94.5 |
| Tb | 159 | 1 | No Gas | 16338841.81 | 103.1 |
| Tb | 159 | 3 | He | 6995523.04 | 99.3 |
| Ho | 165 | 1 | No Gas | 15425816.11 | 103.0 |
| Ho | 165 | 3 | He | 6693821.14 | 101.1 |
| Lu | 175 | 1 | No Gas | 15665434.78 | 104.0 |
| Lu | 175 | 3 | He | 5473254.88 | 101.8 |
| Bi | 209 | 1 | No Gas | 11198520.19 | 107.4 |
| Bi | 209 | 3 | He | 4942916.95 | 101.4 |

ICPMS207-B Analytical Data

Sample Name 10 ppb STD
File Name 012CAL.S.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 17:05:30
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-Cal
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 124.645 | ug/l | 1041836.59 |
| Be | 9 | 45 | 1 | No Gas | 9.983 | ug/l | 34734.11 |
| B | 11 | 45 | 1 | No Gas | 10.090 | ug/l | 27838.75 |
| Na | 23 | 45 | 3 | He | 2500.112 | ug/l | 2235971.84 |
| Mg | 24 | 45 | 3 | He | 2499.615 | ug/l | 1241953.29 |
| Al | 27 | 45 | 1 | No Gas | 9.983 | ug/l | 231672.55 |
| Si | 28 | 45 | 2 | H2 | 40.062 | ug/l | 95678.38 |
| K | 39 | 72 | 3 | He | 2495.169 | ug/l | 1360795.08 |
| Ca | 40 | 72 | 2 | H2 | 2498.847 | ug/l | 23024226.96 |
| Ti | 47 | 72 | 1 | No Gas | 9.991 | ug/l | 25134.96 |
| V | 51 | 72 | 1 | No Gas | 9.799 | ug/l | 267510.61 |
| V | 51 | 72 | 3 | He | 9.947 | ug/l | 64950.44 |
| Cr | 52 | 72 | 1 | No Gas | 9.933 | ug/l | 398839.80 |
| Cr | 52 | 72 | 3 | He | 9.996 | ug/l | 58202.66 |
| Mn | 55 | 72 | 1 | No Gas | 10.000 | ug/l | 420392.78 |
| Mn | 55 | 72 | 3 | He | 9.997 | ug/l | 38344.06 |
| Fe | 56 | 72 | 2 | H2 | 259.897 | ug/l | 5223934.12 |
| Fe | 56 | 72 | 3 | He | 259.790 | ug/l | 1338364.91 |
| Co | 59 | 72 | 1 | No Gas | 9.998 | ug/l | 341772.62 |
| Ni | 60 | 72 | 1 | No Gas | 9.990 | ug/l | 77517.64 |
| Ni | 60 | 72 | 3 | He | 9.988 | ug/l | 24122.25 |
| Cu | 63 | 72 | 1 | No Gas | 10.000 | ug/l | 195229.54 |
| Cu | 63 | 72 | 3 | He | 9.993 | ug/l | 65035.80 |
| Cu | 65 | 72 | 1 | No Gas | 10.001 | ug/l | 95295.01 |
| Zn | 66 | 72 | 1 | No Gas | 10.006 | ug/l | 63953.37 |
| Zn | 66 | 72 | 3 | He | 9.990 | ug/l | 13288.35 |
| As | 75 | 72 | 1 | No Gas | 10.214 | ug/l | 94836.78 |
| As | 75 | 72 | 3 | He | 9.991 | ug/l | 11528.98 |
| Se | 78 | 72 | 2 | H2 | 9.999 | ug/l | 6999.57 |
| Br | 79 | 72 | 1 | No Gas | | ug/l | 205798.76 |
| Br | 79 | 72 | 2 | H2 | | ug/l | 104922.93 |
| Se | 82 | 72 | 1 | No Gas | 10.111 | ug/l | 5122.18 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 27551.63 |
| Sr | 88 | 72 | 1 | No Gas | 10.009 | ug/l | 564563.88 |
| Sr | 88 | 72 | 3 | He | 9.997 | ug/l | 59998.04 |
| Mo | 95 | 115 | 1 | No Gas | 10.005 | ug/l | 106942.86 |
| Mo | 95 | 115 | 3 | He | 10.004 | ug/l | 38056.17 |
| Mo | 98 | 115 | 1 | No Gas | 10.007 | ug/l | 177931.17 |
| Ag | 107 | 115 | 1 | No Gas | 4.000 | ug/l | 115941.06 |
| Ag | 109 | 115 | 1 | No Gas | 4.002 | ug/l | 113248.22 |
| Cd | 111 | 115 | 1 | No Gas | 10.006 | ug/l | 63871.25 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Cd | 111 | 115 | 3 | He | 10.003 | ug/l | 20655.85 |
| Cd | 114 | 115 | 1 | No Gas | 10.006 | ug/l | 142864.12 |
| Cd | 114 | 115 | 3 | He | 10.005 | ug/l | 50669.01 |
| Sn | 118 | 115 | 1 | No Gas | 10.007 | ug/l | 182598.51 |
| Sn | 118 | 115 | 3 | He | 10.005 | ug/l | 47885.76 |
| Sb | 121 | 115 | 1 | No Gas | 10.010 | ug/l | 286758.76 |
| Sb | 121 | 115 | 3 | He | 10.006 | ug/l | 73168.46 |
| Sb | 123 | 115 | 1 | No Gas | 10.012 | ug/l | 218365.51 |
| Sb | 123 | 115 | 3 | He | 10.005 | ug/l | 57331.93 |
| Ba | 135 | 115 | 1 | No Gas | 10.004 | ug/l | 55380.00 |
| Ba | 137 | 115 | 1 | No Gas | 10.005 | ug/l | 97524.22 |
| La | 139 | 115 | 3 | He | 10.005 | ug/l | 272486.99 |
| Ce | 140 | 115 | 3 | He | 10.004 | ug/l | 296859.53 |
| Hg | 201 | 209 | 1 | No Gas | 0.200 | ug/l | 813.86 |
| Hg | 202 | 209 | 1 | No Gas | 0.200 | ug/l | 1832.10 |
| Hg | 202 | 209 | 3 | He | 0.200 | ug/l | 876.19 |
| Tl | 203 | 209 | 3 | He | 10.002 | ug/l | 109857.31 |
| Tl | 205 | 209 | 1 | No Gas | 10.014 | ug/l | 543416.63 |
| Tl | 205 | 209 | 3 | He | 10.002 | ug/l | 263591.71 |
| [Pb] | 206 | 209 | 1 | No Gas | 10.009 | ug/l | 187536.07 |
| [Pb] | 207 | 209 | 1 | No Gas | 10.009 | ug/l | 160754.76 |
| Pb | 208 | 209 | 1 | No Gas | 10.009 | ug/l | 749406.81 |
| Th | 232 | 209 | 3 | He | 10.015 | ug/l | 356378.08 |
| U | 238 | 209 | 1 | No Gas | 10.010 | ug/l | 740264.52 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5788341.44 | 91.8 |
| Sc | 45 | 2 | H2 | 2851155.15 | 94.0 |
| Sc | 45 | 3 | He | 325237.15 | 86.1 |
| Ge | 72 | 1 | No Gas | 1552709.75 | 94.3 |
| Ge | 72 | 2 | H2 | 1070487.49 | 96.5 |
| Ge | 72 | 3 | He | 231982.04 | 91.3 |
| In | 115 | 1 | No Gas | 12386020.75 | 99.4 |
| In | 115 | 3 | He | 2664703.65 | 94.8 |
| Tb | 159 | 1 | No Gas | 16515063.02 | 104.2 |
| Tb | 159 | 3 | He | 7017042.99 | 99.6 |
| Ho | 165 | 1 | No Gas | 15768245.08 | 105.3 |
| Ho | 165 | 3 | He | 6712438.81 | 101.4 |
| Lu | 175 | 1 | No Gas | 15895646.65 | 105.5 |
| Lu | 175 | 3 | He | 5512752.24 | 102.5 |
| Bi | 209 | 1 | No Gas | 11068419.89 | 106.2 |
| Bi | 209 | 3 | He | 5146253.17 | 105.6 |

ICPMS207-B Analytical Data

Sample Name Rinse
File Name 013BLKV.d
Data Path Name D:\Agilent\ICPMH1\DATA\220121ADoD.b
Acq Time 2022-01-21 17:13:20
Sample Type BkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | 0.417 | ug/l | 17211.94 |
| Be | 9 | 45 | 1 | No Gas | -0.042 | ug/l | 104.98 |
| B | 11 | 45 | 1 | No Gas | 0.449 | ug/l | 5928.22 |
| Na | 23 | 45 | 3 | He | 6.179 | ug/l | 52185.84 |
| Mg | 24 | 45 | 3 | He | 0.434 | ug/l | 2036.11 |
| Al | 27 | 45 | 1 | No Gas | 0.027 | ug/l | 17161.04 |
| Si | 28 | 45 | 2 | H2 | 0.164 | ug/l | 7798.51 |
| K | 39 | 72 | 3 | He | 9.801 | ug/l | 85183.32 |
| Ca | 40 | 72 | 2 | H2 | -0.064 | ug/l | 107184.17 |
| Ti | 47 | 72 | 1 | No Gas | -0.047 | ug/l | 200.20 |
| V | 51 | 72 | 1 | No Gas | 3.645 | ug/l | 64267.85 |
| V | 51 | 72 | 3 | He | -0.378 | ug/l | 15699.58 |
| Cr | 52 | 72 | 1 | No Gas | -0.289 | ug/l | 94555.78 |
| Cr | 52 | 72 | 3 | He | -0.008 | ug/l | 925.59 |
| Mn | 55 | 72 | 1 | No Gas | 0.189 | ug/l | 16489.89 |
| Mn | 55 | 72 | 3 | He | 0.113 | ug/l | 642.89 |
| Fe | 56 | 72 | 2 | H2 | 0.161 | ug/l | 13107.39 |
| Fe | 56 | 72 | 3 | He | 0.125 | ug/l | 6745.02 |
| Co | 59 | 72 | 1 | No Gas | -0.010 | ug/l | 575.54 |
| Ni | 60 | 72 | 1 | No Gas | -0.032 | ug/l | 509.00 |
| Ni | 60 | 72 | 3 | He | -0.015 | ug/l | 88.89 |
| Cu | 63 | 72 | 1 | No Gas | 0.001 | ug/l | 2199.72 |
| Cu | 63 | 72 | 3 | He | 0.021 | ug/l | 770.87 |
| Cu | 65 | 72 | 1 | No Gas | -0.005 | ug/l | 963.75 |
| Zn | 66 | 72 | 1 | No Gas | -0.069 | ug/l | 1152.39 |
| Zn | 66 | 72 | 3 | He | -0.027 | ug/l | 270.01 |
| As | 75 | 72 | 1 | No Gas | -0.406 | ug/l | 19598.00 |
| As | 75 | 72 | 3 | He | -0.035 | ug/l | 295.53 |
| Se | 78 | 72 | 2 | H2 | -0.008 | ug/l | 34.11 |
| Br | 79 | 72 | 1 | No Gas | | ug/l | 310845.22 |
| Br | 79 | 72 | 2 | H2 | | ug/l | 168192.09 |
| Se | 82 | 72 | 1 | No Gas | -0.869 | ug/l | 901.16 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 21853.19 |
| Sr | 88 | 72 | 1 | No Gas | -0.001 | ug/l | 818.40 |
| Sr | 88 | 72 | 3 | He | -0.007 | ug/l | 296.67 |
| Mo | 95 | 115 | 1 | No Gas | 0.011 | ug/l | 155.55 |
| Mo | 95 | 115 | 3 | He | 0.006 | ug/l | 35.55 |
| Mo | 98 | 115 | 1 | No Gas | 0.012 | ug/l | 256.19 |
| Ag | 107 | 115 | 1 | No Gas | -0.001 | ug/l | 1852.20 |
| Ag | 109 | 115 | 1 | No Gas | 0.001 | ug/l | 1822.19 |
| Cd | 111 | 115 | 1 | No Gas | -0.003 | ug/l | -38.26 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.001 | ug/l | 8.11 |
| Cd | 114 | 115 | 1 | No Gas | -0.001 | ug/l | -207.51 |
| Cd | 114 | 115 | 3 | He | 0.001 | ug/l | 16.08 |
| Sn | 118 | 115 | 1 | No Gas | -0.004 | ug/l | 3367.07 |
| Sn | 118 | 115 | 3 | He | -0.007 | ug/l | 861.14 |
| Sb | 121 | 115 | 1 | No Gas | 0.056 | ug/l | 1772.96 |
| Sb | 121 | 115 | 3 | He | 0.048 | ug/l | 400.38 |
| Sb | 123 | 115 | 1 | No Gas | 0.055 | ug/l | 1356.54 |
| Sb | 123 | 115 | 3 | He | 0.051 | ug/l | 330.71 |
| Ba | 135 | 115 | 1 | No Gas | 0.008 | ug/l | 106.45 |
| Ba | 137 | 115 | 1 | No Gas | 0.000 | ug/l | 129.74 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 25.55 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 51.11 |
| Hg | 201 | 209 | 1 | No Gas | 0.005 | ug/l | 33.66 |
| Hg | 202 | 209 | 1 | No Gas | 0.004 | ug/l | 105.65 |
| Hg | 202 | 209 | 3 | He | 0.005 | ug/l | 39.99 |
| Tl | 203 | 209 | 3 | He | 0.078 | ug/l | 1084.48 |
| Tl | 205 | 209 | 1 | No Gas | 0.055 | ug/l | 4240.71 |
| Tl | 205 | 209 | 3 | He | 0.071 | ug/l | 2426.53 |
| [Pb] | 206 | 209 | 1 | No Gas | -0.010 | ug/l | 673.35 |
| [Pb] | 207 | 209 | 1 | No Gas | -0.005 | ug/l | 634.46 |
| Pb | 208 | 209 | 1 | No Gas | -0.007 | ug/l | 2752.35 |
| Th | 232 | 209 | 3 | He | 0.021 | ug/l | 991.11 |
| U | 238 | 209 | 1 | No Gas | 0.001 | ug/l | 145.64 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5718402.04 | 90.7 |
| Sc | 45 | 2 | H2 | 2786777.71 | 91.9 |
| Sc | 45 | 3 | He | 316243.27 | 83.7 |
| Ge | 72 | 1 | No Gas | 1508682.56 | 91.6 |
| Ge | 72 | 2 | H2 | 1003914.70 | 90.5 |
| Ge | 72 | 3 | He | 221520.79 | 87.2 |
| In | 115 | 1 | No Gas | 12219561.80 | 98.0 |
| In | 115 | 3 | He | 2641072.11 | 94.0 |
| Tb | 159 | 1 | No Gas | 16202380.77 | 102.2 |
| Tb | 159 | 3 | He | 6924392.54 | 98.3 |
| Ho | 165 | 1 | No Gas | 15305408.31 | 102.2 |
| Ho | 165 | 3 | He | 6641299.14 | 100.3 |
| Lu | 175 | 1 | No Gas | 15795782.41 | 104.8 |
| Lu | 175 | 3 | He | 5446037.04 | 101.3 |
| Bi | 209 | 1 | No Gas | 11266780.53 | 108.1 |
| Bi | 209 | 3 | He | 5013648.06 | 102.8 |

ICPMS207-B Analytical Data

Sample Name Cal Blk
File Name 014CALB.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 17:19:33
Sample Type CalBlk
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | 0.000 | ug/l | 16116.96 |
| Be | 9 | 45 | 1 | No Gas | 0.000 | ug/l | 240.73 |
| B | 11 | 45 | 1 | No Gas | 0.000 | ug/l | 5588.62 |
| Na | 23 | 45 | 3 | He | 0.000 | ug/l | 48645.13 |
| Mg | 24 | 45 | 3 | He | 0.000 | ug/l | 1869.75 |
| Al | 27 | 45 | 1 | No Gas | 0.000 | ug/l | 16763.86 |
| Si | 28 | 45 | 2 | H2 | 0.000 | ug/l | 7382.79 |
| K | 39 | 72 | 3 | He | 0.000 | ug/l | 83413.54 |
| Ca | 40 | 72 | 2 | H2 | 0.000 | ug/l | 101282.00 |
| Ti | 47 | 72 | 1 | No Gas | 0.000 | ug/l | 220.23 |
| V | 51 | 72 | 1 | No Gas | 0.000 | ug/l | -58154.82 |
| V | 51 | 72 | 3 | He | 0.000 | ug/l | 15693.98 |
| Cr | 52 | 72 | 1 | No Gas | 0.000 | ug/l | 98256.00 |
| Cr | 52 | 72 | 3 | He | 0.000 | ug/l | 877.81 |
| Mn | 55 | 72 | 1 | No Gas | 0.000 | ug/l | 10988.97 |
| Mn | 55 | 72 | 3 | He | 0.000 | ug/l | 157.31 |
| Fe | 56 | 72 | 2 | H2 | 0.000 | ug/l | 10265.62 |
| Fe | 56 | 72 | 3 | He | 0.000 | ug/l | 5867.09 |
| Co | 59 | 72 | 1 | No Gas | 0.000 | ug/l | 565.56 |
| Ni | 60 | 72 | 1 | No Gas | 0.000 | ug/l | 502.35 |
| Ni | 60 | 72 | 3 | He | 0.000 | ug/l | 98.89 |
| Cu | 63 | 72 | 1 | No Gas | 0.000 | ug/l | 2056.31 |
| Cu | 63 | 72 | 3 | He | 0.000 | ug/l | 683.55 |
| Cu | 65 | 72 | 1 | No Gas | 0.000 | ug/l | 975.09 |
| Zn | 66 | 72 | 1 | No Gas | 0.000 | ug/l | 1036.01 |
| Zn | 66 | 72 | 3 | He | 0.000 | ug/l | 226.67 |
| As | 75 | 72 | 1 | No Gas | 0.000 | ug/l | 14311.92 |
| As | 75 | 72 | 3 | He | 0.000 | ug/l | 282.93 |
| Se | 78 | 72 | 2 | H2 | 0.000 | ug/l | 34.11 |
| Br | 79 | 72 | 1 | No Gas | 0.000 | ug/l | 72020.13 |
| Br | 79 | 72 | 2 | H2 | 0.000 | ug/l | 33679.13 |
| Se | 82 | 72 | 1 | No Gas | 0.000 | ug/l | 752.88 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 22139.70 |
| Sr | 88 | 72 | 1 | No Gas | 0.000 | ug/l | 808.43 |
| Sr | 88 | 72 | 3 | He | 0.000 | ug/l | 295.56 |
| Mo | 95 | 115 | 1 | No Gas | 0.000 | ug/l | 61.11 |
| Mo | 95 | 115 | 3 | He | 0.000 | ug/l | 22.22 |
| Mo | 98 | 115 | 1 | No Gas | 0.000 | ug/l | 95.21 |
| Ag | 107 | 115 | 1 | No Gas | 0.000 | ug/l | 1866.21 |
| Ag | 109 | 115 | 1 | No Gas | 0.000 | ug/l | 1756.15 |
| Cd | 111 | 115 | 1 | No Gas | 0.000 | ug/l | -3.64 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.000 | ug/l | 6.45 |
| Cd | 114 | 115 | 1 | No Gas | 0.000 | ug/l | -173.12 |
| Cd | 114 | 115 | 3 | He | 0.000 | ug/l | 13.69 |
| Sn | 118 | 115 | 1 | No Gas | 0.000 | ug/l | 3194.03 |
| Sn | 118 | 115 | 3 | He | 0.000 | ug/l | 892.25 |
| Sb | 121 | 115 | 1 | No Gas | 0.000 | ug/l | 914.12 |
| Sb | 121 | 115 | 3 | He | 0.000 | ug/l | 211.69 |
| Sb | 123 | 115 | 1 | No Gas | 0.000 | ug/l | 684.09 |
| Sb | 123 | 115 | 3 | He | 0.000 | ug/l | 163.69 |
| Ba | 135 | 115 | 1 | No Gas | 0.000 | ug/l | 66.53 |
| Ba | 137 | 115 | 1 | No Gas | 0.000 | ug/l | 99.80 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 24.44 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 33.33 |
| Hg | 201 | 209 | 1 | No Gas | 0.000 | ug/l | 28.99 |
| Hg | 202 | 209 | 1 | No Gas | 0.000 | ug/l | 94.98 |
| Hg | 202 | 209 | 3 | He | 0.000 | ug/l | 32.33 |
| Tl | 203 | 209 | 3 | He | 0.000 | ug/l | 599.59 |
| Tl | 205 | 209 | 1 | No Gas | 0.000 | ug/l | 2612.50 |
| Tl | 205 | 209 | 3 | He | 0.000 | ug/l | 1482.01 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.000 | ug/l | 586.69 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.000 | ug/l | 504.46 |
| Pb | 208 | 209 | 1 | No Gas | 0.000 | ug/l | 2421.22 |
| Th | 232 | 209 | 3 | He | 0.000 | ug/l | 565.57 |
| U | 238 | 209 | 1 | No Gas | 0.000 | ug/l | 92.65 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5638644.78 | 100.0 |
| Sc | 45 | 2 | H2 | 2744931.22 | 100.0 |
| Sc | 45 | 3 | He | 318486.02 | 100.0 |
| Ge | 72 | 1 | No Gas | 1511868.37 | 100.0 |
| Ge | 72 | 2 | H2 | 992372.26 | 100.0 |
| Ge | 72 | 3 | He | 222666.97 | 100.0 |
| In | 115 | 1 | No Gas | 12172784.06 | 100.0 |
| In | 115 | 3 | He | 2635629.81 | 100.0 |
| Tb | 159 | 1 | No Gas | 16341854.82 | 100.0 |
| Tb | 159 | 3 | He | 6833358.64 | 100.0 |
| Ho | 165 | 1 | No Gas | 15250385.89 | 100.0 |
| Ho | 165 | 3 | He | 6614264.50 | 100.0 |
| Lu | 175 | 1 | No Gas | 15563578.03 | 100.0 |
| Lu | 175 | 3 | He | 5355399.64 | 100.0 |
| Bi | 209 | 1 | No Gas | 11322328.97 | 100.0 |
| Bi | 209 | 3 | He | 5012354.02 | 100.0 |

ICPMS207-B Analytical Data

Sample Name 0.025 ppb STD
File Name 015CAL.S.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 17:26:12
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-Cal
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | 0.345 | ug/l | 19118.97 |
| Be | 9 | 45 | 1 | No Gas | -0.009 | ug/l | 204.96 |
| B | 11 | 45 | 1 | No Gas | -0.190 | ug/l | 5148.95 |
| Na | 23 | 45 | 3 | He | 5.041 | ug/l | 51969.38 |
| Mg | 24 | 45 | 3 | He | 6.719 | ug/l | 4964.34 |
| Al | 27 | 45 | 1 | No Gas | 0.140 | ug/l | 19714.17 |
| Si | 28 | 45 | 2 | H2 | 0.415 | ug/l | 8128.14 |
| K | 39 | 72 | 3 | He | 8.572 | ug/l | 86393.88 |
| Ca | 40 | 72 | 2 | H2 | 7.100 | ug/l | 156675.14 |
| Ti | 47 | 72 | 1 | No Gas | 0.043 | ug/l | 323.66 |
| V | 51 | 72 | 1 | No Gas | 1.595 | ug/l | -10013.51 |
| V | 51 | 72 | 3 | He | 0.275 | ug/l | 16784.10 |
| Cr | 52 | 72 | 1 | No Gas | 0.143 | ug/l | 100571.06 |
| Cr | 52 | 72 | 3 | He | 0.049 | ug/l | 1131.16 |
| Mn | 55 | 72 | 1 | No Gas | 0.029 | ug/l | 11881.25 |
| Mn | 55 | 72 | 3 | He | 0.033 | ug/l | 270.62 |
| Fe | 56 | 72 | 2 | H2 | 0.767 | ug/l | 23997.01 |
| Fe | 56 | 72 | 3 | He | 0.724 | ug/l | 9275.61 |
| Co | 59 | 72 | 1 | No Gas | 0.185 | ug/l | 6556.94 |
| Ni | 60 | 72 | 1 | No Gas | 0.033 | ug/l | 731.90 |
| Ni | 60 | 72 | 3 | He | 0.036 | ug/l | 177.78 |
| Cu | 63 | 72 | 1 | No Gas | 0.037 | ug/l | 2670.65 |
| Cu | 63 | 72 | 3 | He | 0.042 | ug/l | 920.51 |
| Cu | 65 | 72 | 1 | No Gas | 0.034 | ug/l | 1251.89 |
| Zn | 66 | 72 | 1 | No Gas | 0.060 | ug/l | 1375.27 |
| Zn | 66 | 72 | 3 | He | 0.041 | ug/l | 274.45 |
| As | 75 | 72 | 1 | No Gas | 1.232 | ug/l | 22754.83 |
| As | 75 | 72 | 3 | He | 0.047 | ug/l | 329.00 |
| Se | 78 | 72 | 2 | H2 | 0.023 | ug/l | 48.89 |
| Br | 79 | 72 | 1 | No Gas | 11.630 | ug/l | 231093.09 |
| Br | 79 | 72 | 2 | H2 | 11.576 | ug/l | 121136.04 |
| Se | 82 | 72 | 1 | No Gas | 1.924 | ug/l | 1509.97 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 34199.78 |
| Sr | 88 | 72 | 1 | No Gas | 0.026 | ug/l | 2096.00 |
| Sr | 88 | 72 | 3 | He | 0.021 | ug/l | 407.79 |
| Mo | 95 | 115 | 1 | No Gas | 0.024 | ug/l | 311.12 |
| Mo | 95 | 115 | 3 | He | 0.024 | ug/l | 114.44 |
| Mo | 98 | 115 | 1 | No Gas | 0.024 | ug/l | 500.50 |
| Ag | 107 | 115 | 1 | No Gas | 0.014 | ug/l | 2207.07 |
| Ag | 109 | 115 | 1 | No Gas | 0.017 | ug/l | 2162.37 |
| Cd | 111 | 115 | 1 | No Gas | 0.017 | ug/l | 98.41 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.025 | ug/l | 56.78 |
| Cd | 114 | 115 | 1 | No Gas | 0.022 | ug/l | 121.76 |
| Cd | 114 | 115 | 3 | He | 0.023 | ug/l | 130.11 |
| Sn | 118 | 115 | 1 | No Gas | 0.050 | ug/l | 3999.30 |
| Sn | 118 | 115 | 3 | He | 0.061 | ug/l | 1168.95 |
| Sb | 121 | 115 | 1 | No Gas | 0.019 | ug/l | 1405.21 |
| Sb | 121 | 115 | 3 | He | 0.021 | ug/l | 365.71 |
| Sb | 123 | 115 | 1 | No Gas | 0.020 | ug/l | 1090.82 |
| Sb | 123 | 115 | 3 | He | 0.022 | ug/l | 291.36 |
| Ba | 135 | 115 | 1 | No Gas | 0.031 | ug/l | 229.55 |
| Ba | 137 | 115 | 1 | No Gas | 0.026 | ug/l | 345.99 |
| La | 139 | 115 | 3 | He | 0.023 | ug/l | 640.02 |
| Ce | 140 | 115 | 3 | He | 0.024 | ug/l | 733.36 |
| Hg | 201 | 209 | 1 | No Gas | -0.002 | ug/l | 22.33 |
| Hg | 202 | 209 | 1 | No Gas | 0.000 | ug/l | 93.65 |
| Hg | 202 | 209 | 3 | He | 0.000 | ug/l | 32.66 |
| Tl | 203 | 209 | 3 | He | 0.012 | ug/l | 746.99 |
| Tl | 205 | 209 | 1 | No Gas | 0.015 | ug/l | 3333.77 |
| Tl | 205 | 209 | 3 | He | 0.009 | ug/l | 1754.16 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.026 | ug/l | 1038.94 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.026 | ug/l | 896.70 |
| Pb | 208 | 209 | 1 | No Gas | 0.025 | ug/l | 4195.84 |
| Th | 232 | 209 | 3 | He | 0.013 | ug/l | 1053.80 |
| U | 238 | 209 | 1 | No Gas | 0.024 | ug/l | 1825.77 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5631996.31 | 99.9 |
| Sc | 45 | 2 | H2 | 2706114.19 | 98.6 |
| Sc | 45 | 3 | He | 312375.98 | 98.1 |
| Ge | 72 | 1 | No Gas | 1485586.22 | 98.3 |
| Ge | 72 | 2 | H2 | 991600.12 | 99.9 |
| Ge | 72 | 3 | He | 219524.83 | 98.6 |
| In | 115 | 1 | No Gas | 11914295.42 | 97.9 |
| In | 115 | 3 | He | 2596057.80 | 98.5 |
| Tb | 159 | 1 | No Gas | 16197737.79 | 99.1 |
| Tb | 159 | 3 | He | 6855261.27 | 100.3 |
| Ho | 165 | 1 | No Gas | 15351100.87 | 100.7 |
| Ho | 165 | 3 | He | 6600398.97 | 99.8 |
| Lu | 175 | 1 | No Gas | 15482550.23 | 99.5 |
| Lu | 175 | 3 | He | 5430565.43 | 101.4 |
| Bi | 209 | 1 | No Gas | 11001879.67 | 97.2 |
| Bi | 209 | 3 | He | 5113187.99 | 102.0 |

ICPMS207-B Analytical Data

Sample Name 0.05 ppb STD
File Name 016CAL.S.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 17:32:50
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-Cal
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | 0.629 | ug/l | 21318.78 |
| Be | 9 | 45 | 1 | No Gas | 0.018 | ug/l | 302.61 |
| B | 11 | 45 | 1 | No Gas | -0.293 | ug/l | 4848.73 |
| Na | 23 | 45 | 3 | He | 14.595 | ug/l | 60081.46 |
| Mg | 24 | 45 | 3 | He | 15.626 | ug/l | 9121.40 |
| Al | 27 | 45 | 1 | No Gas | 0.134 | ug/l | 19308.04 |
| Si | 28 | 45 | 2 | H2 | 0.822 | ug/l | 8842.24 |
| K | 39 | 72 | 3 | He | 14.353 | ug/l | 89586.69 |
| Ca | 40 | 72 | 2 | H2 | 15.069 | ug/l | 220696.82 |
| Ti | 47 | 72 | 1 | No Gas | 0.064 | ug/l | 375.38 |
| V | 51 | 72 | 1 | No Gas | 3.579 | ug/l | 50611.23 |
| V | 51 | 72 | 3 | He | 0.067 | ug/l | 15873.06 |
| Cr | 52 | 72 | 1 | No Gas | 0.067 | ug/l | 98992.88 |
| Cr | 52 | 72 | 3 | He | 0.078 | ug/l | 1293.40 |
| Mn | 55 | 72 | 1 | No Gas | 0.056 | ug/l | 12966.67 |
| Mn | 55 | 72 | 3 | He | 0.065 | ug/l | 387.26 |
| Fe | 56 | 72 | 2 | H2 | 1.609 | ug/l | 39403.99 |
| Fe | 56 | 72 | 3 | He | 1.512 | ug/l | 13135.77 |
| Co | 59 | 72 | 1 | No Gas | 0.063 | ug/l | 2561.82 |
| Ni | 60 | 72 | 1 | No Gas | 0.078 | ug/l | 1061.27 |
| Ni | 60 | 72 | 3 | He | 0.087 | ug/l | 294.45 |
| Cu | 63 | 72 | 1 | No Gas | 0.065 | ug/l | 3176.29 |
| Cu | 63 | 72 | 3 | He | 0.072 | ug/l | 1104.49 |
| Cu | 65 | 72 | 1 | No Gas | 0.056 | ug/l | 1451.32 |
| Zn | 66 | 72 | 1 | No Gas | 0.095 | ug/l | 1598.14 |
| Zn | 66 | 72 | 3 | He | 0.080 | ug/l | 325.56 |
| As | 75 | 72 | 1 | No Gas | 0.086 | ug/l | 14791.24 |
| As | 75 | 72 | 3 | He | 0.061 | ug/l | 345.73 |
| Se | 78 | 72 | 2 | H2 | 0.051 | ug/l | 67.56 |
| Br | 79 | 72 | 1 | No Gas | 8.774 | ug/l | 192753.32 |
| Br | 79 | 72 | 2 | H2 | 8.949 | ug/l | 102042.16 |
| Se | 82 | 72 | 1 | No Gas | 0.041 | ug/l | 758.35 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 20364.12 |
| Sr | 88 | 72 | 1 | No Gas | 0.060 | ug/l | 3829.60 |
| Sr | 88 | 72 | 3 | He | 0.056 | ug/l | 606.68 |
| Mo | 95 | 115 | 1 | No Gas | 0.052 | ug/l | 625.57 |
| Mo | 95 | 115 | 3 | He | 0.047 | ug/l | 205.56 |
| Mo | 98 | 115 | 1 | No Gas | 0.056 | ug/l | 1076.72 |
| Ag | 107 | 115 | 1 | No Gas | 0.026 | ug/l | 2581.95 |
| Ag | 109 | 115 | 1 | No Gas | 0.030 | ug/l | 2562.60 |
| Cd | 111 | 115 | 1 | No Gas | 0.055 | ug/l | 338.07 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.054 | ug/l | 116.34 |
| Cd | 114 | 115 | 1 | No Gas | 0.051 | ug/l | 535.56 |
| Cd | 114 | 115 | 3 | He | 0.055 | ug/l | 288.98 |
| Sn | 118 | 115 | 1 | No Gas | 0.055 | ug/l | 4179.02 |
| Sn | 118 | 115 | 3 | He | 0.038 | ug/l | 1066.71 |
| Sb | 121 | 115 | 1 | No Gas | 0.045 | ug/l | 2169.06 |
| Sb | 121 | 115 | 3 | He | 0.047 | ug/l | 557.07 |
| Sb | 123 | 115 | 1 | No Gas | 0.042 | ug/l | 1592.92 |
| Sb | 123 | 115 | 3 | He | 0.046 | ug/l | 433.05 |
| Ba | 135 | 115 | 1 | No Gas | 0.048 | ug/l | 329.35 |
| Ba | 137 | 115 | 1 | No Gas | 0.050 | ug/l | 582.19 |
| La | 139 | 115 | 3 | He | 0.056 | ug/l | 1536.76 |
| Ce | 140 | 115 | 3 | He | 0.059 | ug/l | 1780.13 |
| Hg | 201 | 209 | 1 | No Gas | -0.001 | ug/l | 24.33 |
| Hg | 202 | 209 | 1 | No Gas | 0.000 | ug/l | 90.65 |
| Hg | 202 | 209 | 3 | He | 0.002 | ug/l | 42.32 |
| Tl | 203 | 209 | 3 | He | 0.037 | ug/l | 1022.45 |
| Tl | 205 | 209 | 1 | No Gas | 0.040 | ug/l | 4689.75 |
| Tl | 205 | 209 | 3 | He | 0.033 | ug/l | 2385.18 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.054 | ug/l | 1579.00 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.055 | ug/l | 1390.08 |
| Pb | 208 | 209 | 1 | No Gas | 0.053 | ug/l | 6357.31 |
| Th | 232 | 209 | 3 | He | 0.033 | ug/l | 1812.19 |
| U | 238 | 209 | 1 | No Gas | 0.056 | ug/l | 4237.51 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5555588.03 | 98.5 |
| Sc | 45 | 2 | H2 | 2685460.83 | 97.8 |
| Sc | 45 | 3 | He | 312609.49 | 98.2 |
| Ge | 72 | 1 | No Gas | 1493542.20 | 98.8 |
| Ge | 72 | 2 | H2 | 1000439.60 | 100.8 |
| Ge | 72 | 3 | He | 220563.80 | 99.1 |
| In | 115 | 1 | No Gas | 12207745.33 | 100.3 |
| In | 115 | 3 | He | 2612175.57 | 99.1 |
| Tb | 159 | 1 | No Gas | 16305229.34 | 99.8 |
| Tb | 159 | 3 | He | 6889694.87 | 100.8 |
| Ho | 165 | 1 | No Gas | 15474570.59 | 101.5 |
| Ho | 165 | 3 | He | 6669689.66 | 100.8 |
| Lu | 175 | 1 | No Gas | 15854267.14 | 101.9 |
| Lu | 175 | 3 | He | 5430791.64 | 101.4 |
| Bi | 209 | 1 | No Gas | 11187979.17 | 98.8 |
| Bi | 209 | 3 | He | 5106148.47 | 101.9 |

ICPMS207-B Analytical Data

Sample Name 0.10 ppb STD
File Name 017CAL5.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 17:39:27
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-Cal
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | 1.105 | ug/l | 25853.56 |
| Be | 9 | 45 | 1 | No Gas | 0.054 | ug/l | 442.92 |
| B | 11 | 45 | 1 | No Gas | -0.419 | ug/l | 4644.59 |
| Na | 23 | 45 | 3 | He | 27.394 | ug/l | 70518.55 |
| Mg | 24 | 45 | 3 | He | 27.225 | ug/l | 14448.34 |
| Al | 27 | 45 | 1 | No Gas | 0.167 | ug/l | 20342.72 |
| Si | 28 | 45 | 2 | H2 | 0.878 | ug/l | 9092.46 |
| K | 39 | 72 | 3 | He | 20.284 | ug/l | 92327.48 |
| Ca | 40 | 72 | 2 | H2 | 28.253 | ug/l | 323953.66 |
| Ti | 47 | 72 | 1 | No Gas | 0.111 | ug/l | 497.18 |
| V | 51 | 72 | 1 | No Gas | 2.815 | ug/l | 28028.24 |
| V | 51 | 72 | 3 | He | 0.004 | ug/l | 15547.16 |
| Cr | 52 | 72 | 1 | No Gas | 0.054 | ug/l | 99518.77 |
| Cr | 52 | 72 | 3 | He | 0.131 | ug/l | 1583.43 |
| Mn | 55 | 72 | 1 | No Gas | 0.092 | ug/l | 14468.51 |
| Mn | 55 | 72 | 3 | He | 0.116 | ug/l | 566.23 |
| Fe | 56 | 72 | 2 | H2 | 2.963 | ug/l | 63704.80 |
| Fe | 56 | 72 | 3 | He | 2.739 | ug/l | 19046.55 |
| Co | 59 | 72 | 1 | No Gas | 0.110 | ug/l | 4102.45 |
| Ni | 60 | 72 | 1 | No Gas | 0.121 | ug/l | 1390.65 |
| Ni | 60 | 72 | 3 | He | 0.117 | ug/l | 360.01 |
| Cu | 63 | 72 | 1 | No Gas | 0.107 | ug/l | 3947.46 |
| Cu | 63 | 72 | 3 | He | 0.106 | ug/l | 1301.13 |
| Cu | 65 | 72 | 1 | No Gas | 0.091 | ug/l | 1770.16 |
| Zn | 66 | 72 | 1 | No Gas | 0.111 | ug/l | 1704.56 |
| Zn | 66 | 72 | 3 | He | 0.090 | ug/l | 336.67 |
| As | 75 | 72 | 1 | No Gas | -0.210 | ug/l | 12862.45 |
| As | 75 | 72 | 3 | He | 0.112 | ug/l | 399.47 |
| Se | 78 | 72 | 2 | H2 | 0.098 | ug/l | 98.00 |
| Br | 79 | 72 | 1 | No Gas | 9.577 | ug/l | 205883.64 |
| Br | 79 | 72 | 2 | H2 | 9.506 | ug/l | 106090.59 |
| Se | 82 | 72 | 1 | No Gas | -0.038 | ug/l | 733.28 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 18208.78 |
| Sr | 88 | 72 | 1 | No Gas | 0.112 | ug/l | 6555.17 |
| Sr | 88 | 72 | 3 | He | 0.117 | ug/l | 940.04 |
| Mo | 95 | 115 | 1 | No Gas | 0.107 | ug/l | 1242.29 |
| Mo | 95 | 115 | 3 | He | 0.094 | ug/l | 390.01 |
| Mo | 98 | 115 | 1 | No Gas | 0.100 | ug/l | 1891.60 |
| Ag | 107 | 115 | 1 | No Gas | 0.045 | ug/l | 3169.63 |
| Ag | 109 | 115 | 1 | No Gas | 0.047 | ug/l | 3075.58 |
| Cd | 111 | 115 | 1 | No Gas | 0.105 | ug/l | 662.13 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.108 | ug/l | 230.00 |
| Cd | 114 | 115 | 1 | No Gas | 0.103 | ug/l | 1272.25 |
| Cd | 114 | 115 | 3 | He | 0.106 | ug/l | 551.54 |
| Sn | 118 | 115 | 1 | No Gas | 0.098 | ug/l | 5017.63 |
| Sn | 118 | 115 | 3 | He | 0.089 | ug/l | 1317.85 |
| Sb | 121 | 115 | 1 | No Gas | 0.090 | ug/l | 3473.45 |
| Sb | 121 | 115 | 3 | He | 0.089 | ug/l | 876.12 |
| Sb | 123 | 115 | 1 | No Gas | 0.089 | ug/l | 2640.85 |
| Sb | 123 | 115 | 3 | He | 0.100 | ug/l | 752.43 |
| Ba | 135 | 115 | 1 | No Gas | 0.100 | ug/l | 625.44 |
| Ba | 137 | 115 | 1 | No Gas | 0.100 | ug/l | 1091.22 |
| La | 139 | 115 | 3 | He | 0.106 | ug/l | 2911.44 |
| Ce | 140 | 115 | 3 | He | 0.111 | ug/l | 3318.19 |
| Hg | 201 | 209 | 1 | No Gas | 0.001 | ug/l | 32.33 |
| Hg | 202 | 209 | 1 | No Gas | 0.002 | ug/l | 110.65 |
| Hg | 202 | 209 | 3 | He | 0.002 | ug/l | 42.99 |
| Tl | 203 | 209 | 3 | He | 0.077 | ug/l | 1489.35 |
| Tl | 205 | 209 | 1 | No Gas | 0.087 | ug/l | 7229.77 |
| Tl | 205 | 209 | 3 | He | 0.077 | ug/l | 3588.60 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.104 | ug/l | 2532.48 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.101 | ug/l | 2152.42 |
| Pb | 208 | 209 | 1 | No Gas | 0.100 | ug/l | 9969.31 |
| Th | 232 | 209 | 3 | He | 0.070 | ug/l | 3231.70 |
| U | 238 | 209 | 1 | No Gas | 0.102 | ug/l | 7706.07 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5652099.96 | 100.2 |
| Sc | 45 | 2 | H2 | 2740071.92 | 99.8 |
| Sc | 45 | 3 | He | 310955.40 | 97.6 |
| Ge | 72 | 1 | No Gas | 1507384.21 | 99.7 |
| Ge | 72 | 2 | H2 | 998823.38 | 100.7 |
| Ge | 72 | 3 | He | 220239.87 | 98.9 |
| In | 115 | 1 | No Gas | 12413445.17 | 102.0 |
| In | 115 | 3 | He | 2634589.52 | 100.0 |
| Tb | 159 | 1 | No Gas | 16641309.68 | 101.8 |
| Tb | 159 | 3 | He | 7030053.97 | 102.9 |
| Ho | 165 | 1 | No Gas | 15542503.83 | 101.9 |
| Ho | 165 | 3 | He | 6775461.47 | 102.4 |
| Lu | 175 | 1 | No Gas | 15794246.40 | 101.5 |
| Lu | 175 | 3 | He | 5505648.48 | 102.8 |
| Bi | 209 | 1 | No Gas | 11321206.36 | 100.0 |
| Bi | 209 | 3 | He | 5143004.54 | 102.6 |

ICPMS207-B Analytical Data

Sample Name 0.5 ppb STD
File Name 018CAL5.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 17:46:06
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-Cal
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|------------|
| Li | 7 | 45 | 1 | No Gas | 5.768 | ug/l | 65558.83 |
| Be | 9 | 45 | 1 | No Gas | 0.407 | ug/l | 1724.42 |
| B | 11 | 45 | 1 | No Gas | -0.101 | ug/l | 5267.71 |
| Na | 23 | 45 | 3 | He | 127.748 | ug/l | 155215.46 |
| Mg | 24 | 45 | 3 | He | 130.234 | ug/l | 62348.75 |
| Al | 27 | 45 | 1 | No Gas | 0.597 | ug/l | 28917.90 |
| Si | 28 | 45 | 2 | H2 | 2.053 | ug/l | 11668.57 |
| K | 39 | 72 | 3 | He | 124.642 | ug/l | 142339.78 |
| Ca | 40 | 72 | 2 | H2 | 132.950 | ug/l | 1155430.23 |
| Ti | 47 | 72 | 1 | No Gas | 0.442 | ug/l | 1374.79 |
| V | 51 | 72 | 1 | No Gas | 3.188 | ug/l | 42458.22 |
| V | 51 | 72 | 3 | He | 0.570 | ug/l | 18204.63 |
| Cr | 52 | 72 | 1 | No Gas | 0.340 | ug/l | 111788.14 |
| Cr | 52 | 72 | 3 | He | 0.511 | ug/l | 3646.03 |
| Mn | 55 | 72 | 1 | No Gas | 0.445 | ug/l | 28994.32 |
| Mn | 55 | 72 | 3 | He | 0.519 | ug/l | 1988.07 |
| Fe | 56 | 72 | 2 | H2 | 13.711 | ug/l | 259156.06 |
| Fe | 56 | 72 | 3 | He | 13.662 | ug/l | 71684.26 |
| Co | 59 | 72 | 1 | No Gas | 0.483 | ug/l | 16803.12 |
| Ni | 60 | 72 | 1 | No Gas | 0.687 | ug/l | 5759.75 |
| Ni | 60 | 72 | 3 | He | 0.659 | ug/l | 1574.54 |
| Cu | 63 | 72 | 1 | No Gas | 0.631 | ug/l | 13716.60 |
| Cu | 63 | 72 | 3 | He | 0.679 | ug/l | 4679.15 |
| Cu | 65 | 72 | 1 | No Gas | 0.605 | ug/l | 6489.39 |
| Zn | 66 | 72 | 1 | No Gas | 0.511 | ug/l | 4272.92 |
| Zn | 66 | 72 | 3 | He | 0.609 | ug/l | 977.82 |
| As | 75 | 72 | 1 | No Gas | -0.476 | ug/l | 11276.81 |
| As | 75 | 72 | 3 | He | 0.522 | ug/l | 836.68 |
| Se | 78 | 72 | 2 | H2 | 0.508 | ug/l | 367.34 |
| Br | 79 | 72 | 1 | No Gas | 10.536 | ug/l | 227555.00 |
| Br | 79 | 72 | 2 | H2 | 11.104 | ug/l | 119143.43 |
| Se | 82 | 72 | 1 | No Gas | 0.170 | ug/l | 848.36 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 22106.43 |
| Sr | 88 | 72 | 1 | No Gas | 0.494 | ug/l | 27205.23 |
| Sr | 88 | 72 | 3 | He | 0.518 | ug/l | 3165.93 |
| Mo | 95 | 115 | 1 | No Gas | 0.478 | ug/l | 5174.31 |
| Mo | 95 | 115 | 3 | He | 0.447 | ug/l | 1765.68 |
| Mo | 98 | 115 | 1 | No Gas | 0.488 | ug/l | 8597.39 |
| Ag | 107 | 115 | 1 | No Gas | 0.206 | ug/l | 7485.67 |
| Ag | 109 | 115 | 1 | No Gas | 0.211 | ug/l | 7365.56 |
| Cd | 111 | 115 | 1 | No Gas | 0.482 | ug/l | 2973.27 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.482 | ug/l | 999.93 |
| Cd | 114 | 115 | 1 | No Gas | 0.494 | ug/l | 6577.73 |
| Cd | 114 | 115 | 3 | He | 0.487 | ug/l | 2478.17 |
| Sn | 118 | 115 | 1 | No Gas | 0.505 | ug/l | 12004.68 |
| Sn | 118 | 115 | 3 | He | 0.511 | ug/l | 3331.53 |
| Sb | 121 | 115 | 1 | No Gas | 0.471 | ug/l | 13928.94 |
| Sb | 121 | 115 | 3 | He | 0.473 | ug/l | 3724.54 |
| Sb | 123 | 115 | 1 | No Gas | 0.474 | ug/l | 10747.19 |
| Sb | 123 | 115 | 3 | He | 0.462 | ug/l | 2876.25 |
| Ba | 135 | 115 | 1 | No Gas | 0.495 | ug/l | 2741.51 |
| Ba | 137 | 115 | 1 | No Gas | 0.482 | ug/l | 4738.10 |
| La | 139 | 115 | 3 | He | 0.496 | ug/l | 13446.55 |
| Ce | 140 | 115 | 3 | He | 0.484 | ug/l | 14335.23 |
| Hg | 201 | 209 | 1 | No Gas | 0.007 | ug/l | 57.32 |
| Hg | 202 | 209 | 1 | No Gas | 0.008 | ug/l | 165.64 |
| Hg | 202 | 209 | 3 | He | 0.008 | ug/l | 67.99 |
| Tl | 203 | 209 | 3 | He | 0.442 | ug/l | 5654.15 |
| Tl | 205 | 209 | 1 | No Gas | 0.470 | ug/l | 27696.69 |
| Tl | 205 | 209 | 3 | He | 0.445 | ug/l | 13548.99 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.483 | ug/l | 9634.66 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.482 | ug/l | 8400.48 |
| Pb | 208 | 209 | 1 | No Gas | 0.482 | ug/l | 38900.47 |
| Th | 232 | 209 | 3 | He | 0.402 | ug/l | 15888.00 |
| U | 238 | 209 | 1 | No Gas | 0.475 | ug/l | 35860.40 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5546595.75 | 98.4 |
| Sc | 45 | 2 | H2 | 2751471.65 | 100.2 |
| Sc | 45 | 3 | He | 311724.02 | 97.9 |
| Ge | 72 | 1 | No Gas | 1564810.60 | 103.5 |
| Ge | 72 | 2 | H2 | 1004774.58 | 101.2 |
| Ge | 72 | 3 | He | 219728.85 | 98.7 |
| In | 115 | 1 | No Gas | 12085111.48 | 99.3 |
| In | 115 | 3 | He | 2622950.10 | 99.5 |
| Tb | 159 | 1 | No Gas | 16893818.01 | 103.4 |
| Tb | 159 | 3 | He | 7005815.88 | 102.5 |
| Ho | 165 | 1 | No Gas | 15943145.71 | 104.5 |
| Ho | 165 | 3 | He | 6631336.67 | 100.3 |
| Lu | 175 | 1 | No Gas | 16071831.89 | 103.3 |
| Lu | 175 | 3 | He | 5495291.92 | 102.6 |
| Bi | 209 | 1 | No Gas | 11381925.48 | 100.5 |
| Bi | 209 | 3 | He | 5161221.21 | 103.0 |

ICPMS207-B Analytical Data

Sample Name 1 ppb STD
File Name 019CAL.S.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 17:52:44
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-Cal
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|------------|
| Li | 7 | 45 | 1 | No Gas | 13.286 | ug/l | 129713.18 |
| Be | 9 | 45 | 1 | No Gas | 0.994 | ug/l | 3854.06 |
| B | 11 | 45 | 1 | No Gas | 0.407 | ug/l | 6379.26 |
| Na | 23 | 45 | 3 | He | 263.302 | ug/l | 272015.80 |
| Mg | 24 | 45 | 3 | He | 264.571 | ug/l | 125981.67 |
| Al | 27 | 45 | 1 | No Gas | 1.108 | ug/l | 39356.03 |
| Si | 28 | 45 | 2 | H2 | 4.072 | ug/l | 15438.82 |
| K | 39 | 72 | 3 | He | 274.464 | ug/l | 210233.68 |
| Ca | 40 | 72 | 2 | H2 | 275.073 | ug/l | 2234754.15 |
| Ti | 47 | 72 | 1 | No Gas | 0.992 | ug/l | 2672.95 |
| V | 51 | 72 | 1 | No Gas | 2.977 | ug/l | 32961.32 |
| V | 51 | 72 | 3 | He | 1.239 | ug/l | 20964.97 |
| Cr | 52 | 72 | 1 | No Gas | 1.156 | ug/l | 129847.02 |
| Cr | 52 | 72 | 3 | He | 1.061 | ug/l | 6508.14 |
| Mn | 55 | 72 | 1 | No Gas | 1.022 | ug/l | 49552.10 |
| Mn | 55 | 72 | 3 | He | 1.071 | ug/l | 3860.41 |
| Fe | 56 | 72 | 2 | H2 | 28.259 | ug/l | 512499.72 |
| Fe | 56 | 72 | 3 | He | 28.064 | ug/l | 138392.51 |
| Co | 59 | 72 | 1 | No Gas | 1.069 | ug/l | 34818.95 |
| Ni | 60 | 72 | 1 | No Gas | 1.088 | ug/l | 8429.06 |
| Ni | 60 | 72 | 3 | He | 1.084 | ug/l | 2476.89 |
| Cu | 63 | 72 | 1 | No Gas | 1.054 | ug/l | 20537.99 |
| Cu | 63 | 72 | 3 | He | 1.101 | ug/l | 7029.62 |
| Cu | 65 | 72 | 1 | No Gas | 1.046 | ug/l | 10004.79 |
| Zn | 66 | 72 | 1 | No Gas | 1.039 | ug/l | 7231.05 |
| Zn | 66 | 72 | 3 | He | 1.085 | ug/l | 1534.53 |
| As | 75 | 72 | 1 | No Gas | 0.604 | ug/l | 18454.02 |
| As | 75 | 72 | 3 | He | 1.076 | ug/l | 1400.77 |
| Se | 78 | 72 | 2 | H2 | 1.047 | ug/l | 705.35 |
| Br | 79 | 72 | 1 | No Gas | 8.772 | ug/l | 192783.51 |
| Br | 79 | 72 | 2 | H2 | 8.640 | ug/l | 98256.86 |
| Se | 82 | 72 | 1 | No Gas | 1.261 | ug/l | 1254.67 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 22616.20 |
| Sr | 88 | 72 | 1 | No Gas | 1.064 | ug/l | 54976.46 |
| Sr | 88 | 72 | 3 | He | 1.080 | ug/l | 6155.81 |
| Mo | 95 | 115 | 1 | No Gas | 0.948 | ug/l | 10279.32 |
| Mo | 95 | 115 | 3 | He | 0.968 | ug/l | 3773.86 |
| Mo | 98 | 115 | 1 | No Gas | 0.961 | ug/l | 16961.80 |
| Ag | 107 | 115 | 1 | No Gas | 0.413 | ug/l | 13271.54 |
| Ag | 109 | 115 | 1 | No Gas | 0.416 | ug/l | 12905.74 |
| Cd | 111 | 115 | 1 | No Gas | 0.992 | ug/l | 6169.39 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.993 | ug/l | 2037.93 |
| Cd | 114 | 115 | 1 | No Gas | 1.029 | ug/l | 13997.52 |
| Cd | 114 | 115 | 3 | He | 0.997 | ug/l | 5017.06 |
| Sn | 118 | 115 | 1 | No Gas | 0.978 | ug/l | 20450.99 |
| Sn | 118 | 115 | 3 | He | 0.975 | ug/l | 5510.00 |
| Sb | 121 | 115 | 1 | No Gas | 0.971 | ug/l | 27937.74 |
| Sb | 121 | 115 | 3 | He | 0.958 | ug/l | 7279.95 |
| Sb | 123 | 115 | 1 | No Gas | 0.957 | ug/l | 21173.01 |
| Sb | 123 | 115 | 3 | He | 0.948 | ug/l | 5692.06 |
| Ba | 135 | 115 | 1 | No Gas | 0.982 | ug/l | 5420.35 |
| Ba | 137 | 115 | 1 | No Gas | 0.982 | ug/l | 9614.26 |
| La | 139 | 115 | 3 | He | 1.010 | ug/l | 27150.99 |
| Ce | 140 | 115 | 3 | He | 1.024 | ug/l | 30115.99 |
| Hg | 201 | 209 | 1 | No Gas | 0.015 | ug/l | 88.65 |
| Hg | 202 | 209 | 1 | No Gas | 0.018 | ug/l | 255.62 |
| Hg | 202 | 209 | 3 | He | 0.019 | ug/l | 115.65 |
| Tl | 203 | 209 | 3 | He | 0.955 | ug/l | 11442.82 |
| Tl | 205 | 209 | 1 | No Gas | 1.007 | ug/l | 56307.46 |
| Tl | 205 | 209 | 3 | He | 0.956 | ug/l | 27177.18 |
| [Pb] | 206 | 209 | 1 | No Gas | 1.009 | ug/l | 19478.78 |
| [Pb] | 207 | 209 | 1 | No Gas | 1.017 | ug/l | 17155.58 |
| Pb | 208 | 209 | 1 | No Gas | 0.996 | ug/l | 77759.00 |
| Th | 232 | 209 | 3 | He | 0.898 | ug/l | 34561.23 |
| U | 238 | 209 | 1 | No Gas | 0.990 | ug/l | 74586.71 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5517795.02 | 97.9 |
| Sc | 45 | 2 | H2 | 2677227.29 | 97.5 |
| Sc | 45 | 3 | He | 314681.71 | 98.8 |
| Ge | 72 | 1 | No Gas | 1494995.66 | 98.9 |
| Ge | 72 | 2 | H2 | 984450.25 | 99.2 |
| Ge | 72 | 3 | He | 215413.54 | 96.7 |
| In | 115 | 1 | No Gas | 12173458.75 | 100.0 |
| In | 115 | 3 | He | 2604976.80 | 98.8 |
| Tb | 159 | 1 | No Gas | 16314957.51 | 99.8 |
| Tb | 159 | 3 | He | 6809750.81 | 99.7 |
| Ho | 165 | 1 | No Gas | 15327361.82 | 100.5 |
| Ho | 165 | 3 | He | 6421536.20 | 97.1 |
| Lu | 175 | 1 | No Gas | 15809281.02 | 101.6 |
| Lu | 175 | 3 | He | 5286760.74 | 98.7 |
| Bi | 209 | 1 | No Gas | 11378384.03 | 100.5 |
| Bi | 209 | 3 | He | 5133629.39 | 102.4 |

ICPMS207-B Analytical Data

Sample Name 10 ppb STD
File Name 020CAL5.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 17:59:22
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-Cal
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 109.072 | ug/l | 954440.26 |
| Be | 9 | 45 | 1 | No Gas | 8.746 | ug/l | 32208.77 |
| B | 11 | 45 | 1 | No Gas | 7.750 | ug/l | 22889.18 |
| Na | 23 | 45 | 3 | He | 2422.088 | ug/l | 2129850.77 |
| Mg | 24 | 45 | 3 | He | 2448.863 | ug/l | 1162787.91 |
| Al | 27 | 45 | 1 | No Gas | 9.450 | ug/l | 212780.04 |
| Si | 28 | 45 | 2 | H2 | 39.115 | ug/l | 88095.19 |
| K | 39 | 72 | 3 | He | 2525.286 | ug/l | 1313936.00 |
| Ca | 40 | 72 | 2 | H2 | 2589.312 | ug/l | 21100067.45 |
| Ti | 47 | 72 | 1 | No Gas | 9.497 | ug/l | 23589.23 |
| V | 51 | 72 | 1 | No Gas | 10.729 | ug/l | 268491.88 |
| V | 51 | 72 | 3 | He | 9.369 | ug/l | 60778.41 |
| Cr | 52 | 72 | 1 | No Gas | 9.683 | ug/l | 369110.88 |
| Cr | 52 | 72 | 3 | He | 10.047 | ug/l | 56229.69 |
| Mn | 55 | 72 | 1 | No Gas | 10.118 | ug/l | 392037.43 |
| Mn | 55 | 72 | 3 | He | 10.309 | ug/l | 37022.29 |
| Fe | 56 | 72 | 2 | H2 | 269.148 | ug/l | 5009844.72 |
| Fe | 56 | 72 | 3 | He | 261.927 | ug/l | 1284878.30 |
| Co | 59 | 72 | 1 | No Gas | 10.136 | ug/l | 323538.33 |
| Ni | 60 | 72 | 1 | No Gas | 9.954 | ug/l | 72706.22 |
| Ni | 60 | 72 | 3 | He | 10.136 | ug/l | 23102.78 |
| Cu | 63 | 72 | 1 | No Gas | 10.312 | ug/l | 182146.62 |
| Cu | 63 | 72 | 3 | He | 10.327 | ug/l | 62344.35 |
| Cu | 65 | 72 | 1 | No Gas | 10.131 | ug/l | 88114.20 |
| Zn | 66 | 72 | 1 | No Gas | 9.845 | ug/l | 59558.01 |
| Zn | 66 | 72 | 3 | He | 10.007 | ug/l | 12758.97 |
| As | 75 | 72 | 1 | No Gas | 9.837 | ug/l | 83715.93 |
| As | 75 | 72 | 3 | He | 10.131 | ug/l | 11240.03 |
| Se | 78 | 72 | 2 | H2 | 10.096 | ug/l | 6802.59 |
| Br | 79 | 72 | 1 | No Gas | 10.369 | ug/l | 213955.46 |
| Br | 79 | 72 | 2 | H2 | 9.542 | ug/l | 109732.49 |
| Se | 82 | 72 | 1 | No Gas | 10.119 | ug/l | 4831.79 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 25638.52 |
| Sr | 88 | 72 | 1 | No Gas | 10.536 | ug/l | 534700.84 |
| Sr | 88 | 72 | 3 | He | 10.586 | ug/l | 59719.25 |
| Mo | 95 | 115 | 1 | No Gas | 9.444 | ug/l | 101415.49 |
| Mo | 95 | 115 | 3 | He | 9.619 | ug/l | 37609.59 |
| Mo | 98 | 115 | 1 | No Gas | 9.520 | ug/l | 166472.98 |
| Ag | 107 | 115 | 1 | No Gas | 3.956 | ug/l | 110599.31 |
| Ag | 109 | 115 | 1 | No Gas | 3.932 | ug/l | 106660.22 |
| Cd | 111 | 115 | 1 | No Gas | 9.796 | ug/l | 60723.69 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Cd | 111 | 115 | 3 | He | 9.794 | ug/l | 20200.08 |
| Cd | 114 | 115 | 1 | No Gas | 10.007 | ug/l | 137018.81 |
| Cd | 114 | 115 | 3 | He | 9.794 | ug/l | 49591.74 |
| Sn | 118 | 115 | 1 | No Gas | 9.707 | ug/l | 173720.39 |
| Sn | 118 | 115 | 3 | He | 9.523 | ug/l | 46437.60 |
| Sb | 121 | 115 | 1 | No Gas | 9.745 | ug/l | 271110.76 |
| Sb | 121 | 115 | 3 | He | 9.540 | ug/l | 71226.42 |
| Sb | 123 | 115 | 1 | No Gas | 9.623 | ug/l | 205965.58 |
| Sb | 123 | 115 | 3 | He | 9.594 | ug/l | 56604.97 |
| Ba | 135 | 115 | 1 | No Gas | 9.801 | ug/l | 53256.23 |
| Ba | 137 | 115 | 1 | No Gas | 9.554 | ug/l | 92342.76 |
| La | 139 | 115 | 3 | He | 9.873 | ug/l | 267307.64 |
| Ce | 140 | 115 | 3 | He | 9.931 | ug/l | 294150.95 |
| Hg | 201 | 209 | 1 | No Gas | 0.174 | ug/l | 703.21 |
| Hg | 202 | 209 | 1 | No Gas | 0.179 | ug/l | 1680.77 |
| Hg | 202 | 209 | 3 | He | 0.192 | ug/l | 858.19 |
| Tl | 203 | 209 | 3 | He | 9.481 | ug/l | 105448.42 |
| Tl | 205 | 209 | 1 | No Gas | 9.758 | ug/l | 519560.93 |
| Tl | 205 | 209 | 3 | He | 9.739 | ug/l | 256685.17 |
| [Pb] | 206 | 209 | 1 | No Gas | 9.728 | ug/l | 181630.72 |
| [Pb] | 207 | 209 | 1 | No Gas | 9.581 | ug/l | 156330.20 |
| Pb | 208 | 209 | 1 | No Gas | 9.602 | ug/l | 723868.64 |
| Th | 232 | 209 | 3 | He | 9.418 | ug/l | 348383.87 |
| U | 238 | 209 | 1 | No Gas | 9.553 | ug/l | 714491.83 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5537101.10 | 98.2 |
| Sc | 45 | 2 | H2 | 2731764.39 | 99.5 |
| Sc | 45 | 3 | He | 317875.15 | 99.8 |
| Ge | 72 | 1 | No Gas | 1486523.67 | 98.3 |
| Ge | 72 | 2 | H2 | 1028721.48 | 103.7 |
| Ge | 72 | 3 | He | 222455.77 | 99.9 |
| In | 115 | 1 | No Gas | 12125528.76 | 99.6 |
| In | 115 | 3 | He | 2626617.14 | 99.7 |
| Tb | 159 | 1 | No Gas | 16558203.45 | 101.3 |
| Tb | 159 | 3 | He | 6979246.35 | 102.1 |
| Ho | 165 | 1 | No Gas | 15861605.42 | 104.0 |
| Ho | 165 | 3 | He | 6673398.16 | 100.9 |
| Lu | 175 | 1 | No Gas | 15718428.19 | 101.0 |
| Lu | 175 | 3 | He | 5442731.45 | 101.6 |
| Bi | 209 | 1 | No Gas | 11307798.45 | 99.9 |
| Bi | 209 | 3 | He | 5004847.59 | 99.9 |

ICPMS207-B Analytical Data

Sample Name 50 ppb STD
File Name 021CAL.S.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 18:06:00
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-Cal
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|--------------|
| Li | 7 | 45 | 1 | No Gas | 603.657 | ug/l | 5083198.54 |
| Be | 9 | 45 | 1 | No Gas | 49.640 | ug/l | 177275.45 |
| B | 11 | 45 | 1 | No Gas | 49.390 | ug/l | 113558.46 |
| Na | 23 | 45 | 3 | He | 12277.521 | ug/l | 10758078.73 |
| Mg | 24 | 45 | 3 | He | 12116.466 | ug/l | 5832547.09 |
| Al | 27 | 45 | 1 | No Gas | 60.112 | ug/l | 1234429.12 |
| Si | 28 | 45 | 2 | H2 | 218.338 | ug/l | 462870.95 |
| K | 39 | 72 | 3 | He | 12352.231 | ug/l | 6190792.48 |
| Ca | 40 | 72 | 2 | H2 | 12346.869 | ug/l | 101122993.60 |
| Ti | 47 | 72 | 1 | No Gas | 51.900 | ug/l | 128006.19 |
| V | 51 | 72 | 1 | No Gas | 49.745 | ug/l | 1457839.94 |
| V | 51 | 72 | 3 | He | 50.140 | ug/l | 260780.95 |
| Cr | 52 | 72 | 1 | No Gas | 50.259 | ug/l | 1511692.16 |
| Cr | 52 | 72 | 3 | He | 50.288 | ug/l | 281965.36 |
| Mn | 55 | 72 | 1 | No Gas | 50.634 | ug/l | 1920391.71 |
| Mn | 55 | 72 | 3 | He | 50.852 | ug/l | 184678.91 |
| Fe | 56 | 72 | 2 | H2 | 1315.539 | ug/l | 24664788.71 |
| Fe | 56 | 72 | 3 | He | 1278.815 | ug/l | 6340773.78 |
| Co | 59 | 72 | 1 | No Gas | 51.170 | ug/l | 1632206.35 |
| Ni | 60 | 72 | 1 | No Gas | 51.858 | ug/l | 376894.03 |
| Ni | 60 | 72 | 3 | He | 50.291 | ug/l | 115926.44 |
| Cu | 63 | 72 | 1 | No Gas | 51.991 | ug/l | 910727.45 |
| Cu | 63 | 72 | 3 | He | 51.447 | ug/l | 312373.02 |
| Cu | 65 | 72 | 1 | No Gas | 50.949 | ug/l | 439484.03 |
| Zn | 66 | 72 | 1 | No Gas | 50.760 | ug/l | 302999.73 |
| Zn | 66 | 72 | 3 | He | 51.194 | ug/l | 65285.54 |
| As | 75 | 72 | 1 | No Gas | 50.539 | ug/l | 371429.59 |
| As | 75 | 72 | 3 | He | 50.448 | ug/l | 55645.99 |
| Se | 78 | 72 | 2 | H2 | 51.442 | ug/l | 34825.00 |
| Br | 79 | 72 | 1 | No Gas | 13.534 | ug/l | 257834.03 |
| Br | 79 | 72 | 2 | H2 | 13.151 | ug/l | 139268.44 |
| Se | 82 | 72 | 1 | No Gas | 50.227 | ug/l | 21064.25 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 39015.42 |
| Sr | 88 | 72 | 1 | No Gas | 50.827 | ug/l | 2578193.26 |
| Sr | 88 | 72 | 3 | He | 50.995 | ug/l | 290720.88 |
| Mo | 95 | 115 | 1 | No Gas | 52.697 | ug/l | 547189.31 |
| Mo | 95 | 115 | 3 | He | 51.512 | ug/l | 196018.83 |
| Mo | 98 | 115 | 1 | No Gas | 52.691 | ug/l | 890665.03 |
| Ag | 107 | 115 | 1 | No Gas | 20.432 | ug/l | 544954.70 |
| Ag | 109 | 115 | 1 | No Gas | 20.518 | ug/l | 531324.28 |
| Cd | 111 | 115 | 1 | No Gas | 51.174 | ug/l | 306778.73 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Cd | 111 | 115 | 3 | He | 50.434 | ug/l | 101287.63 |
| Cd | 114 | 115 | 1 | No Gas | 52.289 | ug/l | 693175.18 |
| Cd | 114 | 115 | 3 | He | 50.481 | ug/l | 248902.27 |
| Sn | 118 | 115 | 1 | No Gas | 52.929 | ug/l | 902672.03 |
| Sn | 118 | 115 | 3 | He | 52.371 | ug/l | 244902.88 |
| Sb | 121 | 115 | 1 | No Gas | 53.338 | ug/l | 1431064.47 |
| Sb | 121 | 115 | 3 | He | 52.099 | ug/l | 377950.41 |
| Sb | 123 | 115 | 1 | No Gas | 54.233 | ug/l | 1119623.67 |
| Sb | 123 | 115 | 3 | He | 52.493 | ug/l | 300932.29 |
| Ba | 135 | 115 | 1 | No Gas | 51.673 | ug/l | 271270.65 |
| Ba | 137 | 115 | 1 | No Gas | 51.137 | ug/l | 477360.92 |
| La | 139 | 115 | 3 | He | 49.756 | ug/l | 1311652.08 |
| Ce | 140 | 115 | 3 | He | 50.142 | ug/l | 1446387.62 |
| Hg | 201 | 209 | 1 | No Gas | 1.010 | ug/l | 3679.11 |
| Hg | 202 | 209 | 1 | No Gas | 1.024 | ug/l | 8573.37 |
| Hg | 202 | 209 | 3 | He | 1.015 | ug/l | 4184.83 |
| Tl | 203 | 209 | 3 | He | 50.236 | ug/l | 529004.64 |
| Tl | 205 | 209 | 1 | No Gas | 52.005 | ug/l | 2574860.93 |
| Tl | 205 | 209 | 3 | He | 51.497 | ug/l | 1284992.71 |
| [Pb] | 206 | 209 | 1 | No Gas | 52.669 | ug/l | 915929.00 |
| [Pb] | 207 | 209 | 1 | No Gas | 51.501 | ug/l | 782840.39 |
| Pb | 208 | 209 | 1 | No Gas | 51.442 | ug/l | 3611162.75 |
| Th | 232 | 209 | 3 | He | 50.554 | ug/l | 1776459.96 |
| U | 238 | 209 | 1 | No Gas | 50.733 | ug/l | 3542999.45 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5399876.84 | 95.8 |
| Sc | 45 | 2 | H2 | 2760303.14 | 100.6 |
| Sc | 45 | 3 | He | 322635.07 | 101.3 |
| Ge | 72 | 1 | No Gas | 1488082.95 | 98.4 |
| Ge | 72 | 2 | H2 | 1037996.12 | 104.6 |
| Ge | 72 | 3 | He | 225764.96 | 101.4 |
| In | 115 | 1 | No Gas | 11728113.17 | 96.3 |
| In | 115 | 3 | He | 2558121.09 | 97.1 |
| Tb | 159 | 1 | No Gas | 16084609.67 | 98.4 |
| Tb | 159 | 3 | He | 6756590.89 | 98.9 |
| Ho | 165 | 1 | No Gas | 14938497.24 | 98.0 |
| Ho | 165 | 3 | He | 6580338.65 | 99.5 |
| Lu | 175 | 1 | No Gas | 15294135.37 | 98.3 |
| Lu | 175 | 3 | He | 5416757.56 | 101.1 |
| Bi | 209 | 1 | No Gas | 10560657.59 | 93.3 |
| Bi | 209 | 3 | He | 4760195.28 | 95.0 |

ICPMS207-B Analytical Data

Sample Name 100 ppb STD
File Name 022CAL.S.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 18:12:35
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-Cal
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|--------------|
| Li | 7 | 45 | 1 | No Gas | 1262.259 | ug/l | 11213868.46 |
| Be | 9 | 45 | 1 | No Gas | 100.306 | ug/l | 378236.08 |
| B | 11 | 45 | 1 | No Gas | 100.540 | ug/l | 238418.00 |
| Na | 23 | 45 | 3 | He | 25118.881 | ug/l | 22220267.17 |
| Mg | 24 | 45 | 3 | He | 25196.705 | ug/l | 12274170.52 |
| Al | 27 | 45 | 1 | No Gas | 94.997 | ug/l | 2051325.70 |
| Si | 28 | 45 | 2 | H2 | 390.918 | ug/l | 833031.10 |
| K | 39 | 72 | 3 | He | 25071.116 | ug/l | 12541365.64 |
| Ca | 40 | 72 | 2 | H2 | 25067.339 | ug/l | 201215236.48 |
| Ti | 47 | 72 | 1 | No Gas | 99.101 | ug/l | 244490.65 |
| V | 51 | 72 | 1 | No Gas | 100.017 | ug/l | 2988230.72 |
| V | 51 | 72 | 3 | He | 99.990 | ug/l | 506666.54 |
| Cr | 52 | 72 | 1 | No Gas | 99.901 | ug/l | 2912079.56 |
| Cr | 52 | 72 | 3 | He | 99.851 | ug/l | 561729.90 |
| Mn | 55 | 72 | 1 | No Gas | 99.671 | ug/l | 3773602.89 |
| Mn | 55 | 72 | 3 | He | 99.542 | ug/l | 363072.59 |
| Fe | 56 | 72 | 2 | H2 | 2591.289 | ug/l | 47645535.53 |
| Fe | 56 | 72 | 3 | He | 2610.375 | ug/l | 13001928.76 |
| Co | 59 | 72 | 1 | No Gas | 99.401 | ug/l | 3174232.22 |
| Ni | 60 | 72 | 1 | No Gas | 99.074 | ug/l | 720464.35 |
| Ni | 60 | 72 | 3 | He | 99.839 | ug/l | 231139.90 |
| Cu | 63 | 72 | 1 | No Gas | 98.972 | ug/l | 1733555.00 |
| Cu | 63 | 72 | 3 | He | 99.242 | ug/l | 604824.42 |
| Cu | 65 | 72 | 1 | No Gas | 99.511 | ug/l | 858285.56 |
| Zn | 66 | 72 | 1 | No Gas | 99.635 | ug/l | 594398.26 |
| Zn | 66 | 72 | 3 | He | 99.401 | ug/l | 127150.42 |
| As | 75 | 72 | 1 | No Gas | 99.756 | ug/l | 720504.90 |
| As | 75 | 72 | 3 | He | 99.762 | ug/l | 110292.34 |
| Se | 78 | 72 | 2 | H2 | 99.269 | ug/l | 65895.58 |
| Br | 79 | 72 | 1 | No Gas | 12.217 | ug/l | 239931.99 |
| Br | 79 | 72 | 2 | H2 | 11.365 | ug/l | 122783.70 |
| Se | 82 | 72 | 1 | No Gas | 99.873 | ug/l | 41206.27 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 54330.93 |
| Sr | 88 | 72 | 1 | No Gas | 99.532 | ug/l | 5052564.12 |
| Sr | 88 | 72 | 3 | He | 99.443 | ug/l | 569391.56 |
| Mo | 95 | 115 | 1 | No Gas | 98.708 | ug/l | 1028871.51 |
| Mo | 95 | 115 | 3 | He | 99.283 | ug/l | 371607.82 |
| Mo | 98 | 115 | 1 | No Gas | 98.703 | ug/l | 1675290.66 |
| Ag | 107 | 115 | 1 | No Gas | 39.788 | ug/l | 1064111.98 |
| Ag | 109 | 115 | 1 | No Gas | 39.748 | ug/l | 1031798.03 |
| Cd | 111 | 115 | 1 | No Gas | 99.434 | ug/l | 598644.24 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|------------|
| Cd | 111 | 115 | 3 | He | 99.804 | ug/l | 197153.20 |
| Cd | 114 | 115 | 1 | No Gas | 98.855 | ug/l | 1316093.25 |
| Cd | 114 | 115 | 3 | He | 99.780 | ug/l | 483911.74 |
| Sn | 118 | 115 | 1 | No Gas | 98.565 | ug/l | 1685122.27 |
| Sn | 118 | 115 | 3 | He | 98.863 | ug/l | 453985.24 |
| Sb | 121 | 115 | 1 | No Gas | 98.357 | ug/l | 2649289.10 |
| Sb | 121 | 115 | 3 | He | 98.997 | ug/l | 706216.82 |
| Sb | 123 | 115 | 1 | No Gas | 97.922 | ug/l | 2029514.94 |
| Sb | 123 | 115 | 3 | He | 98.795 | ug/l | 556977.50 |
| Ba | 135 | 115 | 1 | No Gas | 99.183 | ug/l | 522871.44 |
| Ba | 137 | 115 | 1 | No Gas | 99.476 | ug/l | 932539.26 |
| La | 139 | 115 | 3 | He | 100.135 | ug/l | 2597054.39 |
| Ce | 140 | 115 | 3 | He | 99.936 | ug/l | 2835350.62 |
| Hg | 201 | 209 | 1 | No Gas | 1.998 | ug/l | 7281.53 |
| Hg | 202 | 209 | 1 | No Gas | 1.990 | ug/l | 16653.69 |
| Hg | 202 | 209 | 3 | He | 1.993 | ug/l | 8233.22 |
| Tl | 203 | 209 | 3 | He | 99.935 | ug/l | 1057872.44 |
| Tl | 205 | 209 | 1 | No Gas | 99.022 | ug/l | 4921815.31 |
| Tl | 205 | 209 | 3 | He | 99.278 | ug/l | 2489936.56 |
| [Pb] | 206 | 209 | 1 | No Gas | 98.693 | ug/l | 1723391.61 |
| [Pb] | 207 | 209 | 1 | No Gas | 99.291 | ug/l | 1515535.76 |
| Pb | 208 | 209 | 1 | No Gas | 99.319 | ug/l | 7000960.81 |
| Th | 232 | 209 | 3 | He | 99.783 | ug/l | 3525711.41 |
| U | 238 | 209 | 1 | No Gas | 99.678 | ug/l | 6991687.27 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5708684.91 | 101.2 |
| Sc | 45 | 2 | H2 | 2796904.82 | 101.9 |
| Sc | 45 | 3 | He | 326546.98 | 102.5 |
| Ge | 72 | 1 | No Gas | 1489812.12 | 98.5 |
| Ge | 72 | 2 | H2 | 1019155.22 | 102.7 |
| Ge | 72 | 3 | He | 226811.94 | 101.9 |
| In | 115 | 1 | No Gas | 11775393.42 | 96.7 |
| In | 115 | 3 | He | 2516107.30 | 95.5 |
| Tb | 159 | 1 | No Gas | 16072808.49 | 98.4 |
| Tb | 159 | 3 | He | 6710745.14 | 98.2 |
| Ho | 165 | 1 | No Gas | 15107791.43 | 99.1 |
| Ho | 165 | 3 | He | 6438531.53 | 97.3 |
| Lu | 175 | 1 | No Gas | 15303475.33 | 98.3 |
| Lu | 175 | 3 | He | 5372375.36 | 100.3 |
| Bi | 209 | 1 | No Gas | 10605391.31 | 93.7 |
| Bi | 209 | 3 | He | 4789272.06 | 95.5 |

ICPMS207-B Analytical Data

Sample Name 1000 ppb STD
File Name 023CAL.S.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 18:19:05
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-Cal
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|-----|
| Li | 7 | 45 | 1 | No Gas | | ug/l | |
| Be | 9 | 45 | 1 | No Gas | | ug/l | |
| B | 11 | 45 | 1 | No Gas | | ug/l | |
| Na | 23 | 45 | 3 | He | | ug/l | |
| Mg | 24 | 45 | 3 | He | | ug/l | |
| Al | 27 | 45 | 1 | No Gas | | ug/l | |
| Si | 28 | 45 | 2 | H2 | | ug/l | |
| K | 39 | 72 | 3 | He | | ug/l | |
| Ca | 40 | 72 | 2 | H2 | | ug/l | |
| Ti | 47 | 72 | 1 | No Gas | | ug/l | |
| V | 51 | 72 | 1 | No Gas | | ug/l | |
| V | 51 | 72 | 3 | He | | ug/l | |
| Cr | 52 | 72 | 1 | No Gas | | ug/l | |
| Cr | 52 | 72 | 3 | He | | ug/l | |
| Mn | 55 | 72 | 1 | No Gas | | ug/l | |
| Mn | 55 | 72 | 3 | He | | ug/l | |
| Fe | 56 | 72 | 2 | H2 | | ug/l | |
| Fe | 56 | 72 | 3 | He | | ug/l | |
| Co | 59 | 72 | 1 | No Gas | | ug/l | |
| Ni | 60 | 72 | 1 | No Gas | | ug/l | |
| Ni | 60 | 72 | 3 | He | | ug/l | |
| Cu | 63 | 72 | 1 | No Gas | | ug/l | |
| Cu | 63 | 72 | 3 | He | | ug/l | |
| Cu | 65 | 72 | 1 | No Gas | | ug/l | |
| Zn | 66 | 72 | 1 | No Gas | | ug/l | |
| Zn | 66 | 72 | 3 | He | | ug/l | |
| As | 75 | 72 | 1 | No Gas | | ug/l | |
| As | 75 | 72 | 3 | He | | ug/l | |
| Se | 78 | 72 | 2 | H2 | | ug/l | |
| Br | 79 | 72 | 1 | No Gas | | ug/l | |
| Br | 79 | 72 | 2 | H2 | | ug/l | |
| Se | 82 | 72 | 1 | No Gas | | ug/l | |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | |
| Sr | 88 | 72 | 1 | No Gas | | ug/l | |
| Sr | 88 | 72 | 3 | He | | ug/l | |
| Mo | 95 | 115 | 1 | No Gas | | ug/l | |
| Mo | 95 | 115 | 3 | He | | ug/l | |
| Mo | 98 | 115 | 1 | No Gas | | ug/l | |
| Ag | 107 | 115 | 1 | No Gas | | ug/l | |
| Ag | 109 | 115 | 1 | No Gas | | ug/l | |
| Cd | 111 | 115 | 1 | No Gas | | ug/l | |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|-----|
| Cd | 111 | 115 | 3 | He | | ug/l | |
| Cd | 114 | 115 | 1 | No Gas | | ug/l | |
| Cd | 114 | 115 | 3 | He | | ug/l | |
| Sn | 118 | 115 | 1 | No Gas | | ug/l | |
| Sn | 118 | 115 | 3 | He | | ug/l | |
| Sb | 121 | 115 | 1 | No Gas | | ug/l | |
| Sb | 121 | 115 | 3 | He | | ug/l | |
| Sb | 123 | 115 | 1 | No Gas | | ug/l | |
| Sb | 123 | 115 | 3 | He | | ug/l | |
| Ba | 135 | 115 | 1 | No Gas | | ug/l | |
| Ba | 137 | 115 | 1 | No Gas | | ug/l | |
| La | 139 | 115 | 3 | He | | ug/l | |
| Ce | 140 | 115 | 3 | He | | ug/l | |
| Hg | 201 | 209 | 1 | No Gas | | ug/l | |
| Hg | 202 | 209 | 1 | No Gas | | ug/l | |
| Hg | 202 | 209 | 3 | He | | ug/l | |
| Tl | 203 | 209 | 3 | He | | ug/l | |
| Tl | 205 | 209 | 1 | No Gas | | ug/l | |
| Tl | 205 | 209 | 3 | He | | ug/l | |
| [Pb] | 206 | 209 | 1 | No Gas | | ug/l | |
| [Pb] | 207 | 209 | 1 | No Gas | | ug/l | |
| Pb | 208 | 209 | 1 | No Gas | | ug/l | |
| Th | 232 | 209 | 3 | He | | ug/l | |
| U | 238 | 209 | 1 | No Gas | | ug/l | |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-----|-----------------|
| Sc | 45 | 1 | No Gas | | |
| Sc | 45 | 2 | H2 | | |
| Sc | 45 | 3 | He | | |
| Ge | 72 | 1 | No Gas | | |
| Ge | 72 | 2 | H2 | | |
| Ge | 72 | 3 | He | | |
| In | 115 | 1 | No Gas | | |
| In | 115 | 3 | He | | |
| Tb | 159 | 1 | No Gas | | |
| Tb | 159 | 3 | He | | |
| Ho | 165 | 1 | No Gas | | |
| Ho | 165 | 3 | He | | |
| Lu | 175 | 1 | No Gas | | |
| Lu | 175 | 3 | He | | |
| Bi | 209 | 1 | No Gas | | |
| Bi | 209 | 3 | He | | |

ICPMS207-B Analytical Data

Sample Name 100 ppb Br STD
File Name 024CAL5.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 18:25:33
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|------------|
| Li | 7 | 45 | 1 | No Gas | 2.412 | ug/l | 38892.52 |
| Be | 9 | 45 | 1 | No Gas | 0.014 | ug/l | 303.61 |
| B | 11 | 45 | 1 | No Gas | 11.135 | ug/l | 32406.30 |
| Na | 23 | 45 | 3 | He | -4.582 | ug/l | 46375.68 |
| Mg | 24 | 45 | 3 | He | -0.194 | ug/l | 1843.13 |
| Al | 27 | 45 | 1 | No Gas | 0.035 | ug/l | 18287.85 |
| Si | 28 | 45 | 2 | H2 | 0.620 | ug/l | 8694.03 |
| K | 39 | 72 | 3 | He | 606.140 | ug/l | 386692.30 |
| Ca | 40 | 72 | 2 | H2 | 0.786 | ug/l | 107652.48 |
| Ti | 47 | 72 | 1 | No Gas | 0.070 | ug/l | 398.74 |
| V | 51 | 72 | 1 | No Gas | 2.995 | ug/l | 33580.12 |
| V | 51 | 72 | 3 | He | -1.381 | ug/l | 9229.61 |
| Cr | 52 | 72 | 1 | No Gas | -0.605 | ug/l | 81406.78 |
| Cr | 52 | 72 | 3 | He | 0.015 | ug/l | 977.82 |
| Mn | 55 | 72 | 1 | No Gas | 0.127 | ug/l | 15943.75 |
| Mn | 55 | 72 | 3 | He | 0.008 | ug/l | 190.96 |
| Fe | 56 | 72 | 2 | H2 | 0.079 | ug/l | 11704.78 |
| Fe | 56 | 72 | 3 | He | 0.122 | ug/l | 6591.46 |
| Co | 59 | 72 | 1 | No Gas | 0.007 | ug/l | 785.13 |
| Ni | 60 | 72 | 1 | No Gas | 0.029 | ug/l | 715.27 |
| Ni | 60 | 72 | 3 | He | 0.006 | ug/l | 115.55 |
| Cu | 63 | 72 | 1 | No Gas | 0.100 | ug/l | 3859.40 |
| Cu | 63 | 72 | 3 | He | 0.077 | ug/l | 1166.15 |
| Cu | 65 | 72 | 1 | No Gas | 0.089 | ug/l | 1764.82 |
| Zn | 66 | 72 | 1 | No Gas | 0.044 | ug/l | 1309.85 |
| Zn | 66 | 72 | 3 | He | 0.044 | ug/l | 288.89 |
| As | 75 | 72 | 1 | No Gas | 0.149 | ug/l | 15554.34 |
| As | 75 | 72 | 3 | He | 0.061 | ug/l | 356.07 |
| Se | 78 | 72 | 2 | H2 | 0.104 | ug/l | 101.33 |
| Br | 79 | 72 | 1 | No Gas | 100.000 | ug/l | 1484320.77 |
| Br | 79 | 72 | 2 | H2 | 100.000 | ug/l | 791803.56 |
| Se | 82 | 72 | 1 | No Gas | 2.052 | ug/l | 1603.66 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 22332.95 |
| Sr | 88 | 72 | 1 | No Gas | 0.002 | ug/l | 931.52 |
| Sr | 88 | 72 | 3 | He | -0.001 | ug/l | 294.45 |
| Mo | 95 | 115 | 1 | No Gas | 0.014 | ug/l | 214.45 |
| Mo | 95 | 115 | 3 | He | 0.010 | ug/l | 62.22 |
| Mo | 98 | 115 | 1 | No Gas | 0.011 | ug/l | 284.32 |
| Ag | 107 | 115 | 1 | No Gas | 0.581 | ug/l | 17938.64 |
| Ag | 109 | 115 | 1 | No Gas | 0.588 | ug/l | 17552.71 |
| Cd | 111 | 115 | 1 | No Gas | 0.015 | ug/l | 90.24 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.017 | ug/l | 41.44 |
| Cd | 114 | 115 | 1 | No Gas | 0.015 | ug/l | 27.04 |
| Cd | 114 | 115 | 3 | He | 0.014 | ug/l | 85.78 |
| Sn | 118 | 115 | 1 | No Gas | 0.042 | ug/l | 3959.40 |
| Sn | 118 | 115 | 3 | He | 0.047 | ug/l | 1123.39 |
| Sb | 121 | 115 | 1 | No Gas | 0.031 | ug/l | 1778.30 |
| Sb | 121 | 115 | 3 | He | 0.026 | ug/l | 408.38 |
| Sb | 123 | 115 | 1 | No Gas | 0.031 | ug/l | 1352.87 |
| Sb | 123 | 115 | 3 | He | 0.027 | ug/l | 325.70 |
| Ba | 135 | 115 | 1 | No Gas | 0.003 | ug/l | 83.17 |
| Ba | 137 | 115 | 1 | No Gas | 0.005 | ug/l | 146.38 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 20.00 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 47.78 |
| Hg | 201 | 209 | 1 | No Gas | 0.004 | ug/l | 42.99 |
| Hg | 202 | 209 | 1 | No Gas | 0.006 | ug/l | 141.64 |
| Hg | 202 | 209 | 3 | He | 0.006 | ug/l | 59.99 |
| Tl | 203 | 209 | 3 | He | 0.863 | ug/l | 10392.91 |
| Tl | 205 | 209 | 1 | No Gas | 0.939 | ug/l | 50774.46 |
| Tl | 205 | 209 | 3 | He | 0.882 | ug/l | 25177.25 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.070 | ug/l | 1832.36 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.073 | ug/l | 1631.22 |
| Pb | 208 | 209 | 1 | No Gas | 0.068 | ug/l | 7269.71 |
| Th | 232 | 209 | 3 | He | 0.121 | ug/l | 5151.10 |
| U | 238 | 209 | 1 | No Gas | 0.028 | ug/l | 2119.09 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5886079.97 | 104.4 |
| Sc | 45 | 2 | H2 | 2752933.53 | 100.3 |
| Sc | 45 | 3 | He | 330484.92 | 103.8 |
| Ge | 72 | 1 | No Gas | 1519997.39 | 100.5 |
| Ge | 72 | 2 | H2 | 994483.30 | 100.2 |
| Ge | 72 | 3 | He | 227166.41 | 102.0 |
| In | 115 | 1 | No Gas | 12214239.82 | 100.3 |
| In | 115 | 3 | He | 2647919.16 | 100.5 |
| Tb | 159 | 1 | No Gas | 16109613.53 | 98.6 |
| Tb | 159 | 3 | He | 6928950.16 | 101.4 |
| Ho | 165 | 1 | No Gas | 15339520.13 | 100.6 |
| Ho | 165 | 3 | He | 6657251.86 | 100.6 |
| Lu | 175 | 1 | No Gas | 15724056.42 | 101.0 |
| Lu | 175 | 3 | He | 5464931.51 | 102.0 |
| Bi | 209 | 1 | No Gas | 10945525.92 | 96.7 |
| Bi | 209 | 3 | He | 5124189.60 | 102.2 |

ICPMS207-B Analytical Data

Sample Name Rinse
File Name 025BLKV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 18:31:55
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | 0.584 | ug/l | 22006.03 |
| Be | 9 | 45 | 1 | No Gas | -0.018 | ug/l | 178.63 |
| B | 11 | 45 | 1 | No Gas | 4.534 | ug/l | 16530.98 |
| Na | 23 | 45 | 3 | He | -5.194 | ug/l | 44941.38 |
| Mg | 24 | 45 | 3 | He | 0.104 | ug/l | 1952.92 |
| Al | 27 | 45 | 1 | No Gas | -0.053 | ug/l | 16211.03 |
| Si | 28 | 45 | 2 | H2 | -0.099 | ug/l | 7318.76 |
| K | 39 | 72 | 3 | He | 9.954 | ug/l | 88768.53 |
| Ca | 40 | 72 | 2 | H2 | -0.068 | ug/l | 102350.44 |
| Ti | 47 | 72 | 1 | No Gas | 0.007 | ug/l | 243.58 |
| V | 51 | 72 | 1 | No Gas | 2.704 | ug/l | 25091.54 |
| V | 51 | 72 | 3 | He | -1.537 | ug/l | 8340.18 |
| Cr | 52 | 72 | 1 | No Gas | -0.941 | ug/l | 72722.06 |
| Cr | 52 | 72 | 3 | He | 0.010 | ug/l | 935.59 |
| Mn | 55 | 72 | 1 | No Gas | 0.180 | ug/l | 18225.18 |
| Mn | 55 | 72 | 3 | He | 0.142 | ug/l | 670.22 |
| Fe | 56 | 72 | 2 | H2 | 0.124 | ug/l | 12691.62 |
| Fe | 56 | 72 | 3 | He | 0.197 | ug/l | 6867.20 |
| Co | 59 | 72 | 1 | No Gas | 0.002 | ug/l | 628.77 |
| Ni | 60 | 72 | 1 | No Gas | 0.006 | ug/l | 552.25 |
| Ni | 60 | 72 | 3 | He | -0.003 | ug/l | 93.33 |
| Cu | 63 | 72 | 1 | No Gas | 0.009 | ug/l | 2254.42 |
| Cu | 63 | 72 | 3 | He | 0.008 | ug/l | 735.87 |
| Cu | 65 | 72 | 1 | No Gas | 0.002 | ug/l | 1009.78 |
| Zn | 66 | 72 | 1 | No Gas | -0.012 | ug/l | 980.40 |
| Zn | 66 | 72 | 3 | He | 0.031 | ug/l | 267.78 |
| As | 75 | 72 | 1 | No Gas | -0.213 | ug/l | 13122.19 |
| As | 75 | 72 | 3 | He | -0.021 | ug/l | 261.53 |
| Se | 78 | 72 | 2 | H2 | 0.023 | ug/l | 49.44 |
| Br | 79 | 72 | 1 | No Gas | 19.147 | ug/l | 347237.26 |
| Br | 79 | 72 | 2 | H2 | 19.320 | ug/l | 182687.15 |
| Se | 82 | 72 | 1 | No Gas | 0.469 | ug/l | 960.77 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 21863.25 |
| Sr | 88 | 72 | 1 | No Gas | 0.004 | ug/l | 1028.03 |
| Sr | 88 | 72 | 3 | He | 0.001 | ug/l | 303.34 |
| Mo | 95 | 115 | 1 | No Gas | 0.002 | ug/l | 84.45 |
| Mo | 95 | 115 | 3 | He | 0.002 | ug/l | 32.22 |
| Mo | 98 | 115 | 1 | No Gas | 0.007 | ug/l | 214.18 |
| Ag | 107 | 115 | 1 | No Gas | 0.048 | ug/l | 3201.65 |
| Ag | 109 | 115 | 1 | No Gas | 0.053 | ug/l | 3181.65 |
| Cd | 111 | 115 | 1 | No Gas | 0.000 | ug/l | -4.76 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.008 | ug/l | 22.78 |
| Cd | 114 | 115 | 1 | No Gas | 0.004 | ug/l | -113.88 |
| Cd | 114 | 115 | 3 | He | 0.006 | ug/l | 45.80 |
| Sn | 118 | 115 | 1 | No Gas | 0.001 | ug/l | 3207.35 |
| Sn | 118 | 115 | 3 | He | -0.002 | ug/l | 892.26 |
| Sb | 121 | 115 | 1 | No Gas | 0.004 | ug/l | 1036.48 |
| Sb | 121 | 115 | 3 | He | 0.012 | ug/l | 307.37 |
| Sb | 123 | 115 | 1 | No Gas | 0.004 | ug/l | 777.77 |
| Sb | 123 | 115 | 3 | He | 0.011 | ug/l | 231.36 |
| Ba | 135 | 115 | 1 | No Gas | 0.004 | ug/l | 89.82 |
| Ba | 137 | 115 | 1 | No Gas | 0.008 | ug/l | 172.99 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 18.89 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 42.22 |
| Hg | 201 | 209 | 1 | No Gas | 0.000 | ug/l | 29.99 |
| Hg | 202 | 209 | 1 | No Gas | 0.002 | ug/l | 109.98 |
| Hg | 202 | 209 | 3 | He | 0.003 | ug/l | 47.32 |
| Tl | 203 | 209 | 3 | He | 0.310 | ug/l | 4150.98 |
| Tl | 205 | 209 | 1 | No Gas | 0.248 | ug/l | 15587.19 |
| Tl | 205 | 209 | 3 | He | 0.313 | ug/l | 9984.42 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.032 | ug/l | 1165.61 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.033 | ug/l | 1017.82 |
| Pb | 208 | 209 | 1 | No Gas | 0.032 | ug/l | 4732.59 |
| Th | 232 | 209 | 3 | He | 0.022 | ug/l | 1399.31 |
| U | 238 | 209 | 1 | No Gas | 0.005 | ug/l | 472.92 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5845626.87 | 103.7 |
| Sc | 45 | 2 | H2 | 2812921.06 | 102.5 |
| Sc | 45 | 3 | He | 324051.61 | 101.7 |
| Ge | 72 | 1 | No Gas | 1540590.32 | 101.9 |
| Ge | 72 | 2 | H2 | 1009648.26 | 101.7 |
| Ge | 72 | 3 | He | 223830.78 | 100.5 |
| In | 115 | 1 | No Gas | 12176986.79 | 100.0 |
| In | 115 | 3 | He | 2659116.83 | 100.9 |
| Tb | 159 | 1 | No Gas | 16293400.74 | 99.7 |
| Tb | 159 | 3 | He | 6923602.89 | 101.3 |
| Ho | 165 | 1 | No Gas | 15194893.42 | 99.6 |
| Ho | 165 | 3 | He | 6669604.47 | 100.8 |
| Lu | 175 | 1 | No Gas | 15380699.95 | 98.8 |
| Lu | 175 | 3 | He | 5484319.54 | 102.4 |
| Bi | 209 | 1 | No Gas | 11145274.92 | 98.4 |
| Bi | 209 | 3 | He | 5158115.98 | 102.9 |

ICPMS207-B Analytical Data

Sample Name QCS
File Name 026_QC1.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 18:38:09
Sample Type QC1
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 51.212 | ug/l | 483789.80 |
| Be | 9 | 45 | 1 | No Gas | 23.689 | ug/l | 91999.71 |
| B | 11 | 45 | 1 | No Gas | 52.632 | ug/l | 131013.90 |
| Na | 23 | 45 | 3 | He | 2464.510 | ug/l | 2232589.53 |
| Mg | 24 | 45 | 3 | He | 2465.051 | ug/l | 1206132.75 |
| Al | 27 | 45 | 1 | No Gas | 235.790 | ug/l | 5206652.63 |
| Si | 28 | 45 | 2 | H2 | 496.422 | ug/l | 1079350.75 |
| K | 39 | 72 | 3 | He | 2435.897 | ug/l | 1323216.92 |
| Ca | 40 | 72 | 2 | H2 | 2494.771 | ug/l | 20613944.26 |
| Ti | 47 | 72 | 1 | No Gas | 49.197 | ug/l | 123624.49 |
| V | 51 | 72 | 1 | No Gas | 49.768 | ug/l | 1485639.66 |
| V | 51 | 72 | 3 | He | 46.196 | ug/l | 247905.30 |
| Cr | 52 | 72 | 1 | No Gas | 49.468 | ug/l | 1517539.87 |
| Cr | 52 | 72 | 3 | He | 48.342 | ug/l | 278312.94 |
| Mn | 55 | 72 | 1 | No Gas | 252.144 | ug/l | 9694567.37 |
| Mn | 55 | 72 | 3 | He | 247.763 | ug/l | 923052.79 |
| Fe | 56 | 72 | 2 | H2 | 252.321 | ug/l | 4762937.41 |
| Fe | 56 | 72 | 3 | He | 250.479 | ug/l | 1280125.37 |
| Co | 59 | 72 | 1 | No Gas | 51.185 | ug/l | 1663187.95 |
| Ni | 60 | 72 | 1 | No Gas | 49.921 | ug/l | 369725.92 |
| Ni | 60 | 72 | 3 | He | 48.902 | ug/l | 115706.38 |
| Cu | 63 | 72 | 1 | No Gas | 50.979 | ug/l | 909638.53 |
| Cu | 63 | 72 | 3 | He | 50.613 | ug/l | 315493.36 |
| Cu | 65 | 72 | 1 | No Gas | 50.269 | ug/l | 441760.31 |
| Zn | 66 | 72 | 1 | No Gas | 47.577 | ug/l | 289431.83 |
| Zn | 66 | 72 | 3 | He | 48.671 | ug/l | 63723.29 |
| As | 75 | 72 | 1 | No Gas | 47.834 | ug/l | 359034.99 |
| As | 75 | 72 | 3 | He | 48.194 | ug/l | 54584.97 |
| Se | 78 | 72 | 2 | H2 | 48.915 | ug/l | 33280.16 |
| Br | 79 | 72 | 1 | No Gas | 10.748 | ug/l | 223382.56 |
| Br | 79 | 72 | 2 | H2 | 10.175 | ug/l | 116277.17 |
| Se | 82 | 72 | 1 | No Gas | 48.679 | ug/l | 20824.96 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 38428.09 |
| Sr | 88 | 72 | 1 | No Gas | 49.522 | ug/l | 2558864.29 |
| Sr | 88 | 72 | 3 | He | 50.016 | ug/l | 292718.05 |
| Mo | 95 | 115 | 1 | No Gas | 47.751 | ug/l | 517143.98 |
| Mo | 95 | 115 | 3 | He | 48.122 | ug/l | 189103.29 |
| Mo | 98 | 115 | 1 | No Gas | 47.942 | ug/l | 845466.83 |
| Ag | 107 | 115 | 1 | No Gas | 24.747 | ug/l | 688259.83 |
| Ag | 109 | 115 | 1 | No Gas | 24.289 | ug/l | 655711.94 |
| Cd | 111 | 115 | 1 | No Gas | 24.028 | ug/l | 150294.56 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Cd | 111 | 115 | 3 | He | 24.010 | ug/l | 49800.59 |
| Cd | 114 | 115 | 1 | No Gas | 24.546 | ug/l | 339364.41 |
| Cd | 114 | 115 | 3 | He | 24.214 | ug/l | 123298.74 |
| Sn | 118 | 115 | 1 | No Gas | 48.913 | ug/l | 870356.22 |
| Sn | 118 | 115 | 3 | He | 48.872 | ug/l | 236048.62 |
| Sb | 121 | 115 | 1 | No Gas | 47.724 | ug/l | 1336089.66 |
| Sb | 121 | 115 | 3 | He | 47.903 | ug/l | 358886.13 |
| Sb | 123 | 115 | 1 | No Gas | 47.203 | ug/l | 1016891.56 |
| Sb | 123 | 115 | 3 | He | 47.726 | ug/l | 282583.31 |
| Ba | 135 | 115 | 1 | No Gas | 48.381 | ug/l | 264940.80 |
| Ba | 137 | 115 | 1 | No Gas | 46.938 | ug/l | 457092.06 |
| La | 139 | 115 | 3 | He | 50.852 | ug/l | 1384653.71 |
| Ce | 140 | 115 | 3 | He | 50.697 | ug/l | 1510002.22 |
| Hg | 201 | 209 | 1 | No Gas | 0.958 | ug/l | 3742.11 |
| Hg | 202 | 209 | 1 | No Gas | 0.972 | ug/l | 8728.77 |
| Hg | 202 | 209 | 3 | He | 0.972 | ug/l | 4270.17 |
| Tl | 203 | 209 | 3 | He | 47.561 | ug/l | 533568.85 |
| Tl | 205 | 209 | 1 | No Gas | 48.437 | ug/l | 2570214.89 |
| Tl | 205 | 209 | 3 | He | 48.289 | ug/l | 1283869.52 |
| [Pb] | 206 | 209 | 1 | No Gas | 48.514 | ug/l | 904226.06 |
| [Pb] | 207 | 209 | 1 | No Gas | 48.550 | ug/l | 790896.38 |
| Pb | 208 | 209 | 1 | No Gas | 48.028 | ug/l | 3613577.08 |
| Th | 232 | 209 | 3 | He | 48.958 | ug/l | 1832870.96 |
| U | 238 | 209 | 1 | No Gas | 50.997 | ug/l | 3816702.45 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5866031.74 | 104.0 |
| Sc | 45 | 2 | H2 | 2856651.47 | 104.1 |
| Sc | 45 | 3 | He | 327573.43 | 102.9 |
| Ge | 72 | 1 | No Gas | 1515359.49 | 100.2 |
| Ge | 72 | 2 | H2 | 1043197.61 | 105.1 |
| Ge | 72 | 3 | He | 231722.11 | 104.1 |
| In | 115 | 1 | No Gas | 12232835.05 | 100.5 |
| In | 115 | 3 | He | 2641700.03 | 100.2 |
| Tb | 159 | 1 | No Gas | 16497774.48 | 101.0 |
| Tb | 159 | 3 | He | 6976751.45 | 102.1 |
| Ho | 165 | 1 | No Gas | 15618854.97 | 102.4 |
| Ho | 165 | 3 | He | 6647436.00 | 100.5 |
| Lu | 175 | 1 | No Gas | 16089006.67 | 103.4 |
| Lu | 175 | 3 | He | 5488335.74 | 102.5 |
| Bi | 209 | 1 | No Gas | 11315393.31 | 99.9 |
| Bi | 209 | 3 | He | 5072317.52 | 101.2 |

ICPMS207-B Analytical Data

Sample Name CCV
File Name 027_CCV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 18:44:23
Sample Type CCV
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|--------------|
| Li | 7 | 45 | 1 | No Gas | 624.054 | ug/l | 5570196.87 |
| Be | 9 | 45 | 1 | No Gas | 50.252 | ug/l | 190242.81 |
| B | 11 | 45 | 1 | No Gas | 54.490 | ug/l | 132231.63 |
| Na | 23 | 45 | 3 | He | 12190.802 | ug/l | 10994068.17 |
| Mg | 24 | 45 | 3 | He | 12354.476 | ug/l | 6120850.12 |
| Al | 27 | 45 | 1 | No Gas | 60.059 | ug/l | 1307581.65 |
| Si | 28 | 45 | 2 | H2 | 221.487 | ug/l | 477566.63 |
| K | 39 | 72 | 3 | He | 12355.403 | ug/l | 6314079.14 |
| Ca | 40 | 72 | 2 | H2 | 12690.658 | ug/l | 103112794.16 |
| Ti | 47 | 72 | 1 | No Gas | 51.705 | ug/l | 131640.32 |
| V | 51 | 72 | 1 | No Gas | 51.165 | ug/l | 1548787.83 |
| V | 51 | 72 | 3 | He | 49.458 | ug/l | 262494.73 |
| Cr | 52 | 72 | 1 | No Gas | 49.698 | ug/l | 1543274.99 |
| Cr | 52 | 72 | 3 | He | 51.241 | ug/l | 292915.27 |
| Mn | 55 | 72 | 1 | No Gas | 50.951 | ug/l | 1993385.52 |
| Mn | 55 | 72 | 3 | He | 51.193 | ug/l | 189535.57 |
| Fe | 56 | 72 | 2 | H2 | 1309.634 | ug/l | 24363295.35 |
| Fe | 56 | 72 | 3 | He | 1295.155 | ug/l | 6548052.67 |
| Co | 59 | 72 | 1 | No Gas | 51.691 | ug/l | 1701253.36 |
| Ni | 60 | 72 | 1 | No Gas | 51.396 | ug/l | 385451.97 |
| Ni | 60 | 72 | 3 | He | 51.871 | ug/l | 121888.60 |
| Cu | 63 | 72 | 1 | No Gas | 52.148 | ug/l | 942476.97 |
| Cu | 63 | 72 | 3 | He | 51.919 | ug/l | 321397.02 |
| Cu | 65 | 72 | 1 | No Gas | 51.294 | ug/l | 456556.10 |
| Zn | 66 | 72 | 1 | No Gas | 51.131 | ug/l | 314889.44 |
| Zn | 66 | 72 | 3 | He | 50.376 | ug/l | 65500.92 |
| As | 75 | 72 | 1 | No Gas | 49.392 | ug/l | 375031.74 |
| As | 75 | 72 | 3 | He | 50.751 | ug/l | 57073.20 |
| Se | 78 | 72 | 2 | H2 | 51.642 | ug/l | 34685.78 |
| Br | 79 | 72 | 1 | No Gas | 15.277 | ug/l | 290948.15 |
| Br | 79 | 72 | 2 | H2 | 15.312 | ug/l | 155145.71 |
| Se | 82 | 72 | 1 | No Gas | 50.846 | ug/l | 21995.81 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 39292.24 |
| Sr | 88 | 72 | 1 | No Gas | 50.921 | ug/l | 2664541.38 |
| Sr | 88 | 72 | 3 | He | 51.815 | ug/l | 301145.31 |
| Mo | 95 | 115 | 1 | No Gas | 53.013 | ug/l | 559611.66 |
| Mo | 95 | 115 | 3 | He | 51.955 | ug/l | 200857.75 |
| Mo | 98 | 115 | 1 | No Gas | 52.869 | ug/l | 908550.23 |
| Ag | 107 | 115 | 1 | No Gas | 20.712 | ug/l | 561648.90 |
| Ag | 109 | 115 | 1 | No Gas | 20.536 | ug/l | 540543.55 |
| Cd | 111 | 115 | 1 | No Gas | 51.036 | ug/l | 311092.91 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Cd | 111 | 115 | 3 | He | 50.529 | ug/l | 103097.78 |
| Cd | 114 | 115 | 1 | No Gas | 51.945 | ug/l | 700116.42 |
| Cd | 114 | 115 | 3 | He | 50.314 | ug/l | 252036.62 |
| Sn | 118 | 115 | 1 | No Gas | 52.714 | ug/l | 913894.32 |
| Sn | 118 | 115 | 3 | He | 51.616 | ug/l | 245203.31 |
| Sb | 121 | 115 | 1 | No Gas | 53.051 | ug/l | 1447189.82 |
| Sb | 121 | 115 | 3 | He | 52.050 | ug/l | 383606.43 |
| Sb | 123 | 115 | 1 | No Gas | 53.431 | ug/l | 1121434.77 |
| Sb | 123 | 115 | 3 | He | 52.317 | ug/l | 304712.89 |
| Ba | 135 | 115 | 1 | No Gas | 51.980 | ug/l | 277473.50 |
| Ba | 137 | 115 | 1 | No Gas | 50.584 | ug/l | 480172.96 |
| La | 139 | 115 | 3 | He | 49.939 | ug/l | 1337767.45 |
| Ce | 140 | 115 | 3 | He | 51.241 | ug/l | 1501427.29 |
| Hg | 201 | 209 | 1 | No Gas | 1.014 | ug/l | 3813.78 |
| Hg | 202 | 209 | 1 | No Gas | 1.000 | ug/l | 8654.41 |
| Hg | 202 | 209 | 3 | He | 1.006 | ug/l | 4298.51 |
| Tl | 203 | 209 | 3 | He | 49.773 | ug/l | 543042.31 |
| Tl | 205 | 209 | 1 | No Gas | 50.441 | ug/l | 2579877.69 |
| Tl | 205 | 209 | 3 | He | 50.541 | ug/l | 1306613.06 |
| [Pb] | 206 | 209 | 1 | No Gas | 51.090 | ug/l | 917821.34 |
| [Pb] | 207 | 209 | 1 | No Gas | 51.643 | ug/l | 810942.10 |
| Pb | 208 | 209 | 1 | No Gas | 51.051 | ug/l | 3702356.36 |
| Th | 232 | 209 | 3 | He | 49.546 | ug/l | 1803752.42 |
| U | 238 | 209 | 1 | No Gas | 50.322 | ug/l | 3630266.08 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5724964.75 | 101.5 |
| Sc | 45 | 2 | H2 | 2807741.32 | 102.3 |
| Sc | 45 | 3 | He | 332051.37 | 104.3 |
| Ge | 72 | 1 | No Gas | 1535100.12 | 101.5 |
| Ge | 72 | 2 | H2 | 1029774.97 | 103.8 |
| Ge | 72 | 3 | He | 230146.90 | 103.4 |
| In | 115 | 1 | No Gas | 11924452.97 | 98.0 |
| In | 115 | 3 | He | 2598742.34 | 98.6 |
| Tb | 159 | 1 | No Gas | 16331369.96 | 99.9 |
| Tb | 159 | 3 | He | 6852824.98 | 100.3 |
| Ho | 165 | 1 | No Gas | 15480197.99 | 101.5 |
| Ho | 165 | 3 | He | 6600597.50 | 99.8 |
| Lu | 175 | 1 | No Gas | 15982005.19 | 102.7 |
| Lu | 175 | 3 | He | 5537045.08 | 103.4 |
| Bi | 209 | 1 | No Gas | 10908171.40 | 96.3 |
| Bi | 209 | 3 | He | 4931896.93 | 98.4 |

ICPMS207-B Analytical Data

Sample Name CCB
File Name 028_CCB.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 18:50:38
Sample Type CCB
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | 0.569 | ug/l | 21487.06 |
| Be | 9 | 45 | 1 | No Gas | -0.030 | ug/l | 130.97 |
| B | 11 | 45 | 1 | No Gas | 3.158 | ug/l | 13073.60 |
| Na | 23 | 45 | 3 | He | -6.108 | ug/l | 43176.29 |
| Mg | 24 | 45 | 3 | He | 0.005 | ug/l | 1863.10 |
| Al | 27 | 45 | 1 | No Gas | -0.083 | ug/l | 15270.05 |
| Si | 28 | 45 | 2 | H2 | -0.058 | ug/l | 7324.74 |
| K | 39 | 72 | 3 | He | 5.592 | ug/l | 86847.36 |
| Ca | 40 | 72 | 2 | H2 | -0.659 | ug/l | 98659.90 |
| Ti | 47 | 72 | 1 | No Gas | -0.002 | ug/l | 216.89 |
| V | 51 | 72 | 1 | No Gas | 1.328 | ug/l | -18031.83 |
| V | 51 | 72 | 3 | He | -1.229 | ug/l | 9855.58 |
| Cr | 52 | 72 | 1 | No Gas | -0.630 | ug/l | 80815.14 |
| Cr | 52 | 72 | 3 | He | -0.006 | ug/l | 853.37 |
| Mn | 55 | 72 | 1 | No Gas | 0.018 | ug/l | 11771.40 |
| Mn | 55 | 72 | 3 | He | -0.004 | ug/l | 144.97 |
| Fe | 56 | 72 | 2 | H2 | -0.028 | ug/l | 10015.16 |
| Fe | 56 | 72 | 3 | He | 0.050 | ug/l | 6159.17 |
| Co | 59 | 72 | 1 | No Gas | 0.000 | ug/l | 568.88 |
| Ni | 60 | 72 | 1 | No Gas | 0.001 | ug/l | 509.00 |
| Ni | 60 | 72 | 3 | He | -0.002 | ug/l | 95.56 |
| Cu | 63 | 72 | 1 | No Gas | -0.005 | ug/l | 1978.26 |
| Cu | 63 | 72 | 3 | He | -0.004 | ug/l | 665.55 |
| Cu | 65 | 72 | 1 | No Gas | -0.005 | ug/l | 935.08 |
| Zn | 66 | 72 | 1 | No Gas | -0.024 | ug/l | 900.15 |
| Zn | 66 | 72 | 3 | He | 0.032 | ug/l | 270.01 |
| As | 75 | 72 | 1 | No Gas | -0.307 | ug/l | 12282.04 |
| As | 75 | 72 | 3 | He | -0.018 | ug/l | 265.73 |
| Se | 78 | 72 | 2 | H2 | 0.003 | ug/l | 36.89 |
| Br | 79 | 72 | 1 | No Gas | 0.500 | ug/l | 79543.70 |
| Br | 79 | 72 | 2 | H2 | 0.326 | ug/l | 37093.81 |
| Se | 82 | 72 | 1 | No Gas | 0.029 | ug/l | 768.21 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 22302.96 |
| Sr | 88 | 72 | 1 | No Gas | 0.000 | ug/l | 798.44 |
| Sr | 88 | 72 | 3 | He | 0.000 | ug/l | 298.90 |
| Mo | 95 | 115 | 1 | No Gas | 0.027 | ug/l | 364.46 |
| Mo | 95 | 115 | 3 | He | 0.021 | ug/l | 106.67 |
| Mo | 98 | 115 | 1 | No Gas | 0.027 | ug/l | 573.97 |
| Ag | 107 | 115 | 1 | No Gas | 0.000 | ug/l | 1887.56 |
| Ag | 109 | 115 | 1 | No Gas | 0.001 | ug/l | 1826.85 |
| Cd | 111 | 115 | 1 | No Gas | -0.004 | ug/l | -27.79 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.003 | ug/l | 13.78 |
| Cd | 114 | 115 | 1 | No Gas | 0.000 | ug/l | -177.11 |
| Cd | 114 | 115 | 3 | He | 0.004 | ug/l | 32.42 |
| Sn | 118 | 115 | 1 | No Gas | 0.033 | ug/l | 3832.95 |
| Sn | 118 | 115 | 3 | He | 0.000 | ug/l | 902.26 |
| Sb | 121 | 115 | 1 | No Gas | 0.099 | ug/l | 3754.23 |
| Sb | 121 | 115 | 3 | He | 0.924 | ug/l | 7029.48 |
| Sb | 123 | 115 | 1 | No Gas | 0.098 | ug/l | 2827.58 |
| Sb | 123 | 115 | 3 | He | 0.069 | ug/l | 575.07 |
| Ba | 135 | 115 | 1 | No Gas | -0.004 | ug/l | 46.57 |
| Ba | 137 | 115 | 1 | No Gas | -0.002 | ug/l | 79.84 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 27.78 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 24.44 |
| Hg | 201 | 209 | 1 | No Gas | 0.008 | ug/l | 60.66 |
| Hg | 202 | 209 | 1 | No Gas | 0.007 | ug/l | 163.30 |
| Hg | 202 | 209 | 3 | He | 0.009 | ug/l | 71.32 |
| Tl | 203 | 209 | 3 | He | 0.224 | ug/l | 3117.62 |
| Tl | 205 | 209 | 1 | No Gas | 0.184 | ug/l | 12668.49 |
| Tl | 205 | 209 | 3 | He | 0.217 | ug/l | 7266.91 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.020 | ug/l | 983.38 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.016 | ug/l | 784.47 |
| Pb | 208 | 209 | 1 | No Gas | 0.017 | ug/l | 3786.91 |
| Th | 232 | 209 | 3 | He | 0.023 | ug/l | 1415.98 |
| U | 238 | 209 | 1 | No Gas | 0.003 | ug/l | 357.93 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5739950.09 | 101.8 |
| Sc | 45 | 2 | H2 | 2768234.06 | 100.8 |
| Sc | 45 | 3 | He | 316939.41 | 99.5 |
| Ge | 72 | 1 | No Gas | 1522618.32 | 100.7 |
| Ge | 72 | 2 | H2 | 1018525.99 | 102.6 |
| Ge | 72 | 3 | He | 224394.32 | 100.8 |
| In | 115 | 1 | No Gas | 12399727.96 | 101.9 |
| In | 115 | 3 | He | 2662308.26 | 101.0 |
| Tb | 159 | 1 | No Gas | 16747123.62 | 102.5 |
| Tb | 159 | 3 | He | 6832186.79 | 100.0 |
| Ho | 165 | 1 | No Gas | 15626244.55 | 102.5 |
| Ho | 165 | 3 | He | 6582825.51 | 99.5 |
| Lu | 175 | 1 | No Gas | 15934328.77 | 102.4 |
| Lu | 175 | 3 | He | 5464219.91 | 102.0 |
| Bi | 209 | 1 | No Gas | 11568187.72 | 102.2 |
| Bi | 209 | 3 | He | 5076143.09 | 101.3 |

ICPMS207-B Analytical Data

Sample Name Rinse
File Name 029BLKV.d
Data Path Name D:\Agilent\ICPMH1\DATA\220121ADoD.b
Acq Time 2022-01-21 18:56:53
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | 0.294 | ug/l | 18999.46 |
| Be | 9 | 45 | 1 | No Gas | -0.031 | ug/l | 125.31 |
| B | 11 | 45 | 1 | No Gas | 1.589 | ug/l | 9373.34 |
| Na | 23 | 45 | 3 | He | -5.594 | ug/l | 43748.97 |
| Mg | 24 | 45 | 3 | He | 0.337 | ug/l | 2026.13 |
| Al | 27 | 45 | 1 | No Gas | -0.083 | ug/l | 15252.26 |
| Si | 28 | 45 | 2 | H2 | -0.120 | ug/l | 7169.94 |
| K | 39 | 72 | 3 | He | 6.841 | ug/l | 85951.15 |
| Ca | 40 | 72 | 2 | H2 | -0.192 | ug/l | 100340.11 |
| Ti | 47 | 72 | 1 | No Gas | -0.011 | ug/l | 188.52 |
| V | 51 | 72 | 1 | No Gas | 3.105 | ug/l | 36614.08 |
| V | 51 | 72 | 3 | He | -1.174 | ug/l | 9947.86 |
| Cr | 52 | 72 | 1 | No Gas | -0.738 | ug/l | 75795.17 |
| Cr | 52 | 72 | 3 | He | 0.009 | ug/l | 916.70 |
| Mn | 55 | 72 | 1 | No Gas | 0.026 | ug/l | 11788.01 |
| Mn | 55 | 72 | 3 | He | -0.001 | ug/l | 152.30 |
| Fe | 56 | 72 | 2 | H2 | -0.034 | ug/l | 9702.96 |
| Fe | 56 | 72 | 3 | He | 0.015 | ug/l | 5883.80 |
| Co | 59 | 72 | 1 | No Gas | 0.001 | ug/l | 582.19 |
| Ni | 60 | 72 | 1 | No Gas | -0.012 | ug/l | 402.54 |
| Ni | 60 | 72 | 3 | He | -0.003 | ug/l | 91.11 |
| Cu | 63 | 72 | 1 | No Gas | 0.006 | ug/l | 2123.68 |
| Cu | 63 | 72 | 3 | He | 0.000 | ug/l | 678.88 |
| Cu | 65 | 72 | 1 | No Gas | -0.001 | ug/l | 954.42 |
| Zn | 66 | 72 | 1 | No Gas | -0.018 | ug/l | 913.70 |
| Zn | 66 | 72 | 3 | He | 0.015 | ug/l | 244.45 |
| As | 75 | 72 | 1 | No Gas | 0.096 | ug/l | 14835.73 |
| As | 75 | 72 | 3 | He | -0.027 | ug/l | 251.00 |
| Se | 78 | 72 | 2 | H2 | 0.000 | ug/l | 34.00 |
| Br | 79 | 72 | 1 | No Gas | 0.225 | ug/l | 73768.03 |
| Br | 79 | 72 | 2 | H2 | 0.090 | ug/l | 34549.28 |
| Se | 82 | 72 | 1 | No Gas | 0.085 | ug/l | 773.68 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 22296.32 |
| Sr | 88 | 72 | 1 | No Gas | -0.001 | ug/l | 758.52 |
| Sr | 88 | 72 | 3 | He | -0.006 | ug/l | 256.67 |
| Mo | 95 | 115 | 1 | No Gas | 0.006 | ug/l | 125.56 |
| Mo | 95 | 115 | 3 | He | 0.004 | ug/l | 37.78 |
| Mo | 98 | 115 | 1 | No Gas | 0.006 | ug/l | 201.40 |
| Ag | 107 | 115 | 1 | No Gas | 0.001 | ug/l | 1866.88 |
| Ag | 109 | 115 | 1 | No Gas | 0.001 | ug/l | 1761.49 |
| Cd | 111 | 115 | 1 | No Gas | -0.002 | ug/l | -13.19 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.002 | ug/l | 10.78 |
| Cd | 114 | 115 | 1 | No Gas | 0.003 | ug/l | -125.98 |
| Cd | 114 | 115 | 3 | He | 0.003 | ug/l | 28.99 |
| Sn | 118 | 115 | 1 | No Gas | 0.005 | ug/l | 3250.61 |
| Sn | 118 | 115 | 3 | He | 0.019 | ug/l | 980.04 |
| Sb | 121 | 115 | 1 | No Gas | 0.021 | ug/l | 1479.56 |
| Sb | 121 | 115 | 3 | He | 0.019 | ug/l | 356.37 |
| Sb | 123 | 115 | 1 | No Gas | 0.020 | ug/l | 1111.16 |
| Sb | 123 | 115 | 3 | He | 0.017 | ug/l | 261.36 |
| Ba | 135 | 115 | 1 | No Gas | 0.001 | ug/l | 69.86 |
| Ba | 137 | 115 | 1 | No Gas | 0.002 | ug/l | 116.44 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 13.33 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 35.55 |
| Hg | 201 | 209 | 1 | No Gas | 0.006 | ug/l | 49.99 |
| Hg | 202 | 209 | 1 | No Gas | 0.005 | ug/l | 140.30 |
| Hg | 202 | 209 | 3 | He | 0.008 | ug/l | 65.32 |
| Tl | 203 | 209 | 3 | He | 0.090 | ug/l | 1604.08 |
| Tl | 205 | 209 | 1 | No Gas | 0.070 | ug/l | 6183.76 |
| Tl | 205 | 209 | 3 | He | 0.091 | ug/l | 3885.47 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.016 | ug/l | 873.37 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.016 | ug/l | 747.81 |
| Pb | 208 | 209 | 1 | No Gas | 0.014 | ug/l | 3419.08 |
| Th | 232 | 209 | 3 | He | 0.004 | ug/l | 702.30 |
| U | 238 | 209 | 1 | No Gas | 0.001 | ug/l | 173.63 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5728462.70 | 101.6 |
| Sc | 45 | 2 | H2 | 2759564.86 | 100.5 |
| Sc | 45 | 3 | He | 317914.69 | 99.8 |
| Ge | 72 | 1 | No Gas | 1485154.04 | 98.2 |
| Ge | 72 | 2 | H2 | 997980.33 | 100.6 |
| Ge | 72 | 3 | He | 220516.79 | 99.0 |
| In | 115 | 1 | No Gas | 12072729.09 | 99.2 |
| In | 115 | 3 | He | 2629963.36 | 99.8 |
| Tb | 159 | 1 | No Gas | 15979917.48 | 97.8 |
| Tb | 159 | 3 | He | 6911391.83 | 101.1 |
| Ho | 165 | 1 | No Gas | 15141248.84 | 99.3 |
| Ho | 165 | 3 | He | 6564148.03 | 99.2 |
| Lu | 175 | 1 | No Gas | 15544758.48 | 99.9 |
| Lu | 175 | 3 | He | 5408212.35 | 101.0 |
| Bi | 209 | 1 | No Gas | 11090206.10 | 97.9 |
| Bi | 209 | 3 | He | 5042985.35 | 100.6 |

ICPMS207-B Analytical Data

Sample Name LRB
File Name 030MBLK.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 19:03:09
Sample Type MBLK
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | 0.106 | ug/l | 17263.36 |
| Be | 9 | 45 | 1 | No Gas | -0.034 | ug/l | 113.98 |
| B | 11 | 45 | 1 | No Gas | 1.155 | ug/l | 8338.31 |
| Na | 23 | 45 | 3 | He | 5.793 | ug/l | 52696.33 |
| Mg | 24 | 45 | 3 | He | 1.005 | ug/l | 2305.61 |
| Al | 27 | 45 | 1 | No Gas | 0.413 | ug/l | 25844.53 |
| Si | 28 | 45 | 2 | H2 | 72.646 | ug/l | 159633.50 |
| K | 39 | 72 | 3 | He | 7.913 | ug/l | 86174.71 |
| Ca | 40 | 72 | 2 | H2 | 8.124 | ug/l | 165682.39 |
| Ti | 47 | 72 | 1 | No Gas | 0.007 | ug/l | 240.24 |
| V | 51 | 72 | 1 | No Gas | 2.806 | ug/l | 28250.89 |
| V | 51 | 72 | 3 | He | -1.178 | ug/l | 9895.61 |
| Cr | 52 | 72 | 1 | No Gas | -0.638 | ug/l | 80674.29 |
| Cr | 52 | 72 | 3 | He | 0.011 | ug/l | 928.92 |
| Mn | 55 | 72 | 1 | No Gas | 0.053 | ug/l | 13116.55 |
| Mn | 55 | 72 | 3 | He | 0.026 | ug/l | 247.62 |
| Fe | 56 | 72 | 2 | H2 | 0.337 | ug/l | 16383.97 |
| Fe | 56 | 72 | 3 | He | 0.316 | ug/l | 7319.22 |
| Co | 59 | 72 | 1 | No Gas | 0.000 | ug/l | 585.52 |
| Ni | 60 | 72 | 1 | No Gas | 0.023 | ug/l | 675.35 |
| Ni | 60 | 72 | 3 | He | 0.022 | ug/l | 146.67 |
| Cu | 63 | 72 | 1 | No Gas | 0.025 | ug/l | 2515.90 |
| Cu | 63 | 72 | 3 | He | 0.023 | ug/l | 811.20 |
| Cu | 65 | 72 | 1 | No Gas | 0.015 | ug/l | 1115.83 |
| Zn | 66 | 72 | 1 | No Gas | 0.280 | ug/l | 2753.64 |
| Zn | 66 | 72 | 3 | He | 0.296 | ug/l | 591.13 |
| As | 75 | 72 | 1 | No Gas | 0.315 | ug/l | 16808.92 |
| As | 75 | 72 | 3 | He | -0.021 | ug/l | 257.13 |
| Se | 78 | 72 | 2 | H2 | 0.000 | ug/l | 34.45 |
| Br | 79 | 72 | 1 | No Gas | 19.081 | ug/l | 342712.00 |
| Br | 79 | 72 | 2 | H2 | 20.555 | ug/l | 190105.96 |
| Se | 82 | 72 | 1 | No Gas | 0.594 | ug/l | 1002.24 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 21819.88 |
| Sr | 88 | 72 | 1 | No Gas | 0.040 | ug/l | 2887.91 |
| Sr | 88 | 72 | 3 | He | 0.037 | ug/l | 497.79 |
| Mo | 95 | 115 | 1 | No Gas | 0.008 | ug/l | 143.34 |
| Mo | 95 | 115 | 3 | He | 0.010 | ug/l | 60.00 |
| Mo | 98 | 115 | 1 | No Gas | 0.006 | ug/l | 204.31 |
| Ag | 107 | 115 | 1 | No Gas | -0.066 | ug/l | 54.69 |
| Ag | 109 | 115 | 1 | No Gas | -0.063 | ug/l | 56.02 |
| Cd | 111 | 115 | 1 | No Gas | 0.008 | ug/l | 46.93 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.005 | ug/l | 16.89 |
| Cd | 114 | 115 | 1 | No Gas | 0.020 | ug/l | 99.71 |
| Cd | 114 | 115 | 3 | He | 0.004 | ug/l | 34.12 |
| Sn | 118 | 115 | 1 | No Gas | 0.015 | ug/l | 3453.59 |
| Sn | 118 | 115 | 3 | He | 0.004 | ug/l | 913.37 |
| Sb | 121 | 115 | 1 | No Gas | 0.008 | ug/l | 1124.49 |
| Sb | 121 | 115 | 3 | He | 0.011 | ug/l | 298.36 |
| Sb | 123 | 115 | 1 | No Gas | 0.008 | ug/l | 864.78 |
| Sb | 123 | 115 | 3 | He | 0.012 | ug/l | 234.03 |
| Ba | 135 | 115 | 1 | No Gas | 0.080 | ug/l | 502.35 |
| Ba | 137 | 115 | 1 | No Gas | 0.093 | ug/l | 1001.39 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 32.22 |
| Ce | 140 | 115 | 3 | He | 0.002 | ug/l | 80.00 |
| Hg | 201 | 209 | 1 | No Gas | 0.004 | ug/l | 42.66 |
| Hg | 202 | 209 | 1 | No Gas | 0.005 | ug/l | 130.64 |
| Hg | 202 | 209 | 3 | He | 0.005 | ug/l | 52.99 |
| Tl | 203 | 209 | 3 | He | 0.038 | ug/l | 1018.45 |
| Tl | 205 | 209 | 1 | No Gas | 0.029 | ug/l | 3992.86 |
| Tl | 205 | 209 | 3 | He | 0.039 | ug/l | 2496.58 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.020 | ug/l | 928.93 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.025 | ug/l | 884.48 |
| Pb | 208 | 209 | 1 | No Gas | 0.020 | ug/l | 3820.24 |
| Th | 232 | 209 | 3 | He | 0.000 | ug/l | 554.91 |
| U | 238 | 209 | 1 | No Gas | 0.001 | ug/l | 143.64 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5711779.87 | 101.3 |
| Sc | 45 | 2 | H2 | 2772677.94 | 101.0 |
| Sc | 45 | 3 | He | 312954.70 | 98.3 |
| Ge | 72 | 1 | No Gas | 1523982.11 | 100.8 |
| Ge | 72 | 2 | H2 | 997553.19 | 100.5 |
| Ge | 72 | 3 | He | 219763.72 | 98.7 |
| In | 115 | 1 | No Gas | 12168114.34 | 100.0 |
| In | 115 | 3 | He | 2644299.44 | 100.3 |
| Tb | 159 | 1 | No Gas | 16288592.60 | 99.7 |
| Tb | 159 | 3 | He | 6937285.58 | 101.5 |
| Ho | 165 | 1 | No Gas | 15297417.71 | 100.3 |
| Ho | 165 | 3 | He | 6597700.23 | 99.7 |
| Lu | 175 | 1 | No Gas | 15699029.41 | 100.9 |
| Lu | 175 | 3 | He | 5410738.62 | 101.0 |
| Bi | 209 | 1 | No Gas | 10925875.34 | 96.5 |
| Bi | 209 | 3 | He | 5001004.56 | 99.8 |

ICPMS207-B Analytical Data

Sample Name LFB
File Name 031_LFB.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 19:09:24
Sample Type LFB
Total Dilution 1.0300
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|--------------|
| Li | 7 | 45 | 1 | No Gas | 2253.600 | ug/l | 18616251.41 |
| Be | 9 | 45 | 1 | No Gas | 45.824 | ug/l | 160934.82 |
| B | 11 | 45 | 1 | No Gas | 47.343 | ug/l | 107395.58 |
| Na | 23 | 45 | 3 | He | 48198.092 | ug/l | 39353079.14 |
| Mg | 24 | 45 | 3 | He | 48790.358 | ug/l | 21951918.40 |
| Al | 27 | 45 | 1 | No Gas | 47.189 | ug/l | 956576.10 |
| Si | 28 | 45 | 2 | H2 | 271.527 | ug/l | 542190.75 |
| K | 39 | 72 | 3 | He | 48059.130 | ug/l | 22677499.66 |
| Ca | 40 | 72 | 2 | H2 | 50024.892 | ug/l | 376196079.49 |
| Ti | 47 | 72 | 1 | No Gas | 51.306 | ug/l | 122712.44 |
| V | 51 | 72 | 1 | No Gas | 48.650 | ug/l | 1378416.07 |
| V | 51 | 72 | 3 | He | 48.091 | ug/l | 238902.20 |
| Cr | 52 | 72 | 1 | No Gas | 49.149 | ug/l | 1438005.34 |
| Cr | 52 | 72 | 3 | He | 47.951 | ug/l | 255727.01 |
| Mn | 55 | 72 | 1 | No Gas | 48.081 | ug/l | 1768219.18 |
| Mn | 55 | 72 | 3 | He | 49.082 | ug/l | 169507.58 |
| Fe | 56 | 72 | 2 | H2 | 5152.352 | ug/l | 88753875.75 |
| Fe | 56 | 72 | 3 | He | 4983.835 | ug/l | 23482715.01 |
| Co | 59 | 72 | 1 | No Gas | 47.557 | ug/l | 1470422.30 |
| Ni | 60 | 72 | 1 | No Gas | 47.271 | ug/l | 333137.14 |
| Ni | 60 | 72 | 3 | He | 47.620 | ug/l | 104398.34 |
| Cu | 63 | 72 | 1 | No Gas | 48.880 | ug/l | 830163.48 |
| Cu | 63 | 72 | 3 | He | 48.295 | ug/l | 278917.82 |
| Cu | 65 | 72 | 1 | No Gas | 47.506 | ug/l | 397382.93 |
| Zn | 66 | 72 | 1 | No Gas | 46.840 | ug/l | 271080.10 |
| Zn | 66 | 72 | 3 | He | 49.399 | ug/l | 59910.68 |
| As | 75 | 72 | 1 | No Gas | 49.185 | ug/l | 351367.08 |
| As | 75 | 72 | 3 | He | 49.790 | ug/l | 52237.60 |
| Se | 78 | 72 | 2 | H2 | 50.425 | ug/l | 31372.61 |
| Br | 79 | 72 | 1 | No Gas | 15.692 | ug/l | 280933.67 |
| Br | 79 | 72 | 2 | H2 | 15.330 | ug/l | 144802.43 |
| Se | 82 | 72 | 1 | No Gas | 48.179 | ug/l | 19637.47 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 36813.94 |
| Sr | 88 | 72 | 1 | No Gas | 50.215 | ug/l | 2468889.50 |
| Sr | 88 | 72 | 3 | He | 50.417 | ug/l | 273385.50 |
| Mo | 95 | 115 | 1 | No Gas | 49.085 | ug/l | 484913.93 |
| Mo | 95 | 115 | 3 | He | 47.200 | ug/l | 171278.50 |
| Mo | 98 | 115 | 1 | No Gas | 48.179 | ug/l | 774949.69 |
| Ag | 107 | 115 | 1 | No Gas | 20.109 | ug/l | 510515.09 |
| Ag | 109 | 115 | 1 | No Gas | 20.014 | ug/l | 493195.56 |
| Cd | 111 | 115 | 1 | No Gas | 48.628 | ug/l | 277428.57 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Cd | 111 | 115 | 3 | He | 48.205 | ug/l | 92314.19 |
| Cd | 114 | 115 | 1 | No Gas | 49.484 | ug/l | 624241.49 |
| Cd | 114 | 115 | 3 | He | 48.335 | ug/l | 227249.47 |
| Sn | 118 | 115 | 1 | No Gas | 48.525 | ug/l | 787660.89 |
| Sn | 118 | 115 | 3 | He | 47.326 | ug/l | 211112.28 |
| Sb | 121 | 115 | 1 | No Gas | 49.568 | ug/l | 1265687.66 |
| Sb | 121 | 115 | 3 | He | 48.099 | ug/l | 332734.91 |
| Sb | 123 | 115 | 1 | No Gas | 48.877 | ug/l | 960309.55 |
| Sb | 123 | 115 | 3 | He | 48.105 | ug/l | 262992.76 |
| Ba | 135 | 115 | 1 | No Gas | 49.407 | ug/l | 246886.03 |
| Ba | 137 | 115 | 1 | No Gas | 48.893 | ug/l | 434429.97 |
| La | 139 | 115 | 3 | He | 0.005 | ug/l | 157.78 |
| Ce | 140 | 115 | 3 | He | 50.570 | ug/l | 1390824.93 |
| Hg | 201 | 209 | 1 | No Gas | 1.030 | ug/l | 3509.43 |
| Hg | 202 | 209 | 1 | No Gas | 1.029 | ug/l | 8059.82 |
| Hg | 202 | 209 | 3 | He | 0.989 | ug/l | 3849.46 |
| Tl | 203 | 209 | 3 | He | 49.203 | ug/l | 488933.34 |
| Tl | 205 | 209 | 1 | No Gas | 51.060 | ug/l | 2364089.86 |
| Tl | 205 | 209 | 3 | He | 49.648 | ug/l | 1168929.92 |
| [Pb] | 206 | 209 | 1 | No Gas | 51.030 | ug/l | 829894.52 |
| [Pb] | 207 | 209 | 1 | No Gas | 50.025 | ug/l | 711193.16 |
| Pb | 208 | 209 | 1 | No Gas | 50.121 | ug/l | 3291092.52 |
| Th | 232 | 209 | 3 | He | 49.309 | ug/l | 1634798.97 |
| U | 238 | 209 | 1 | No Gas | 50.404 | ug/l | 3291810.07 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5468579.03 | 97.0 |
| Sc | 45 | 2 | H2 | 2685274.99 | 97.8 |
| Sc | 45 | 3 | He | 310676.58 | 97.5 |
| Ge | 72 | 1 | No Gas | 1485218.61 | 98.2 |
| Ge | 72 | 2 | H2 | 982458.61 | 99.0 |
| Ge | 72 | 3 | He | 221154.05 | 99.3 |
| In | 115 | 1 | No Gas | 11493850.75 | 94.4 |
| In | 115 | 3 | He | 2512408.93 | 95.3 |
| Tb | 159 | 1 | No Gas | 15811676.01 | 96.8 |
| Tb | 159 | 3 | He | 6799184.31 | 99.5 |
| Ho | 165 | 1 | No Gas | 15031544.87 | 98.6 |
| Ho | 165 | 3 | He | 6457691.94 | 97.6 |
| Lu | 175 | 1 | No Gas | 15265070.57 | 98.1 |
| Lu | 175 | 3 | He | 5368895.74 | 100.3 |
| Bi | 209 | 1 | No Gas | 10172405.30 | 89.8 |
| Bi | 209 | 3 | He | 4628675.82 | 92.3 |

ICPMS207-B Analytical Data

Sample Name ICSA
File Name 032ICSA.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 19:15:40
Sample Type ICSA
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|------------|-------|---------------|
| Li | 7 | 45 | 1 | No Gas | 1.751 | ug/l | 32476.20 |
| Be | 9 | 45 | 1 | No Gas | -0.041 | ug/l | 87.65 |
| B | 11 | 45 | 1 | No Gas | 1.432 | ug/l | 9146.44 |
| Na | 23 | 45 | 3 | He | 98150.387 | ug/l | 83846952.08 |
| Mg | 24 | 45 | 3 | He | 39766.600 | ug/l | 18730424.22 |
| Al | 27 | 45 | 1 | No Gas | 36609.969 | ug/l | 799054805.87 |
| Si | 28 | 45 | 2 | H2 | 4.010 | ug/l | 15451.52 |
| K | 39 | 72 | 3 | He | 40001.313 | ug/l | 19425752.07 |
| Ca | 40 | 72 | 2 | H2 | 123398.618 | ug/l | 940931638.49 |
| Ti | 47 | 72 | 1 | No Gas | 766.473 | ug/l | 1905932.13 |
| V | 51 | 72 | 1 | No Gas | 1.926 | ug/l | 683.44 |
| V | 51 | 72 | 3 | He | -2.681 | ug/l | 2762.50 |
| Cr | 52 | 72 | 1 | No Gas | -0.884 | ug/l | 72514.80 |
| Cr | 52 | 72 | 3 | He | 0.866 | ug/l | 5607.77 |
| Mn | 55 | 72 | 1 | No Gas | 0.247 | ug/l | 20317.15 |
| Mn | 55 | 72 | 3 | He | 0.223 | ug/l | 946.92 |
| Fe | 56 | 72 | 2 | H2 | 104970.902 | ug/l | 1833064039.47 |
| Fe | 56 | 72 | 3 | He | 103151.256 | ug/l | 499894333.39 |
| Co | 59 | 72 | 1 | No Gas | 0.343 | ug/l | 11598.26 |
| Ni | 60 | 72 | 1 | No Gas | 0.811 | ug/l | 6442.03 |
| Ni | 60 | 72 | 3 | He | 0.182 | ug/l | 508.90 |
| Cu | 63 | 72 | 1 | No Gas | 1.302 | ug/l | 25016.69 |
| Cu | 63 | 72 | 3 | He | 0.057 | ug/l | 1012.83 |
| Cu | 65 | 72 | 1 | No Gas | 0.616 | ug/l | 6325.93 |
| Zn | 66 | 72 | 1 | No Gas | 0.712 | ug/l | 5310.62 |
| Zn | 66 | 72 | 3 | He | 0.346 | ug/l | 655.58 |
| As | 75 | 72 | 1 | No Gas | 0.199 | ug/l | 15742.48 |
| As | 75 | 72 | 3 | He | -0.007 | ug/l | 273.53 |
| Se | 78 | 72 | 2 | H2 | 0.123 | ug/l | 110.78 |
| Br | 79 | 72 | 1 | No Gas | 9.744 | ug/l | 207487.37 |
| Br | 79 | 72 | 2 | H2 | 9.482 | ug/l | 102755.71 |
| Se | 82 | 72 | 1 | No Gas | 0.002 | ug/l | 748.21 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 22902.61 |
| Sr | 88 | 72 | 1 | No Gas | 1.221 | ug/l | 63320.40 |
| Sr | 88 | 72 | 3 | He | 1.213 | ug/l | 7046.22 |
| Mo | 95 | 115 | 1 | No Gas | 790.032 | ug/l | 8093535.78 |
| Mo | 95 | 115 | 3 | He | 782.908 | ug/l | 2938797.46 |
| Mo | 98 | 115 | 1 | No Gas | 795.042 | ug/l | 13261357.80 |
| Ag | 107 | 115 | 1 | No Gas | 0.006 | ug/l | 1922.24 |
| Ag | 109 | 115 | 1 | No Gas | 0.009 | ug/l | 1907.57 |
| Cd | 111 | 115 | 1 | No Gas | 0.057 | ug/l | 337.36 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.242 | ug/l | 485.12 |
| Cd | 114 | 115 | 1 | No Gas | 0.076 | ug/l | 839.84 |
| Cd | 114 | 115 | 3 | He | 0.174 | ug/l | 860.13 |
| Sn | 118 | 115 | 1 | No Gas | 0.044 | ug/l | 3783.03 |
| Sn | 118 | 115 | 3 | He | 0.033 | ug/l | 1004.49 |
| Sb | 121 | 115 | 1 | No Gas | 0.177 | ug/l | 5579.27 |
| Sb | 121 | 115 | 3 | He | 0.165 | ug/l | 1383.17 |
| Sb | 123 | 115 | 1 | No Gas | 0.148 | ug/l | 3672.81 |
| Sb | 123 | 115 | 3 | He | 0.107 | ug/l | 762.11 |
| Ba | 135 | 115 | 1 | No Gas | 0.065 | ug/l | 399.22 |
| Ba | 137 | 115 | 1 | No Gas | 0.072 | ug/l | 755.19 |
| La | 139 | 115 | 3 | He | 0.010 | ug/l | 274.45 |
| Ce | 140 | 115 | 3 | He | 0.002 | ug/l | 95.55 |
| Hg | 201 | 209 | 1 | No Gas | 0.006 | ug/l | 47.66 |
| Hg | 202 | 209 | 1 | No Gas | 0.006 | ug/l | 138.30 |
| Hg | 202 | 209 | 3 | He | 0.008 | ug/l | 62.99 |
| Tl | 203 | 209 | 3 | He | 0.085 | ug/l | 1466.01 |
| Tl | 205 | 209 | 1 | No Gas | 0.075 | ug/l | 6018.10 |
| Tl | 205 | 209 | 3 | He | 0.082 | ug/l | 3439.83 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.027 | ug/l | 992.27 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.026 | ug/l | 844.48 |
| Pb | 208 | 209 | 1 | No Gas | 0.024 | ug/l | 3839.13 |
| Th | 232 | 209 | 3 | He | 0.025 | ug/l | 1399.31 |
| U | 238 | 209 | 1 | No Gas | 0.003 | ug/l | 265.95 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5820401.12 | 103.2 |
| Sc | 45 | 2 | H2 | 2701011.63 | 98.4 |
| Sc | 45 | 3 | He | 315833.12 | 99.2 |
| Ge | 72 | 1 | No Gas | 1502352.68 | 99.4 |
| Ge | 72 | 2 | H2 | 967609.39 | 97.5 |
| Ge | 72 | 3 | He | 220752.01 | 99.1 |
| In | 115 | 1 | No Gas | 11580937.77 | 95.1 |
| In | 115 | 3 | He | 2523567.90 | 95.7 |
| Tb | 159 | 1 | No Gas | 15991251.21 | 97.9 |
| Tb | 159 | 3 | He | 6842921.43 | 100.1 |
| Ho | 165 | 1 | No Gas | 15197345.35 | 99.7 |
| Ho | 165 | 3 | He | 6609175.82 | 99.9 |
| Lu | 175 | 1 | No Gas | 15485568.25 | 99.5 |
| Lu | 175 | 3 | He | 5498262.55 | 102.7 |
| Bi | 209 | 1 | No Gas | 10326508.07 | 91.2 |
| Bi | 209 | 3 | He | 4756401.62 | 94.9 |

ICPMS207-B Analytical Data

Sample Name ICSAB
File Name 033ICSB.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 19:21:57
Sample Type ICSAB
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|------------|-------|---------------|
| Li | 7 | 45 | 1 | No Gas | 0.892 | ug/l | 24421.31 |
| Be | 9 | 45 | 1 | No Gas | -0.046 | ug/l | 70.65 |
| B | 11 | 45 | 1 | No Gas | 0.725 | ug/l | 7396.11 |
| Na | 23 | 45 | 3 | He | 98679.011 | ug/l | 83540350.98 |
| Mg | 24 | 45 | 3 | He | 39382.173 | ug/l | 18385206.94 |
| Al | 27 | 45 | 1 | No Gas | 35693.684 | ug/l | 770664575.18 |
| Si | 28 | 45 | 2 | H2 | 2.787 | ug/l | 13009.31 |
| K | 39 | 72 | 3 | He | 40813.738 | ug/l | 19737896.93 |
| Ca | 40 | 72 | 2 | H2 | 121510.037 | ug/l | 949373326.55 |
| Ti | 47 | 72 | 1 | No Gas | 770.459 | ug/l | 1937236.90 |
| V | 51 | 72 | 1 | No Gas | 21.762 | ug/l | 617482.46 |
| V | 51 | 72 | 3 | He | 17.151 | ug/l | 97083.95 |
| Cr | 52 | 72 | 1 | No Gas | 18.409 | ug/l | 627809.70 |
| Cr | 52 | 72 | 3 | He | 20.364 | ug/l | 111765.13 |
| Mn | 55 | 72 | 1 | No Gas | 19.529 | ug/l | 762689.62 |
| Mn | 55 | 72 | 3 | He | 20.023 | ug/l | 70919.00 |
| Fe | 56 | 72 | 2 | H2 | 102832.767 | ug/l | 1840509724.89 |
| Fe | 56 | 72 | 3 | He | 101833.030 | ug/l | 491556999.68 |
| Co | 59 | 72 | 1 | No Gas | 19.508 | ug/l | 635549.53 |
| Ni | 60 | 72 | 1 | No Gas | 19.515 | ug/l | 145121.14 |
| Ni | 60 | 72 | 3 | He | 20.111 | ug/l | 45214.21 |
| Cu | 63 | 72 | 1 | No Gas | 20.395 | ug/l | 365927.47 |
| Cu | 63 | 72 | 3 | He | 19.699 | ug/l | 116932.08 |
| Cu | 65 | 72 | 1 | No Gas | 19.313 | ug/l | 170681.40 |
| Zn | 66 | 72 | 1 | No Gas | 9.676 | ug/l | 59803.80 |
| Zn | 66 | 72 | 3 | He | 10.059 | ug/l | 12672.24 |
| As | 75 | 72 | 1 | No Gas | 9.310 | ug/l | 81683.33 |
| As | 75 | 72 | 3 | He | 9.885 | ug/l | 10846.48 |
| Se | 78 | 72 | 2 | H2 | 10.087 | ug/l | 6548.03 |
| Br | 79 | 72 | 1 | No Gas | 27.919 | ug/l | 466150.52 |
| Br | 79 | 72 | 2 | H2 | 27.920 | ug/l | 244578.03 |
| Se | 82 | 72 | 1 | No Gas | 10.020 | ug/l | 4893.80 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 22376.34 |
| Sr | 88 | 72 | 1 | No Gas | 1.234 | ug/l | 64667.19 |
| Sr | 88 | 72 | 3 | He | 1.263 | ug/l | 7297.45 |
| Mo | 95 | 115 | 1 | No Gas | 793.717 | ug/l | 8403250.08 |
| Mo | 95 | 115 | 3 | He | 788.235 | ug/l | 3010074.85 |
| Mo | 98 | 115 | 1 | No Gas | 786.381 | ug/l | 13556268.83 |
| Ag | 107 | 115 | 1 | No Gas | 4.652 | ug/l | 127985.44 |
| Ag | 109 | 115 | 1 | No Gas | 4.732 | ug/l | 126275.56 |
| Cd | 111 | 115 | 1 | No Gas | 9.444 | ug/l | 57747.06 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|-----------|
| Cd | 111 | 115 | 3 | He | 9.639 | ug/l | 19431.35 |
| Cd | 114 | 115 | 1 | No Gas | 9.671 | ug/l | 130617.66 |
| Cd | 114 | 115 | 3 | He | 9.608 | ug/l | 47549.64 |
| Sn | 118 | 115 | 1 | No Gas | 0.037 | ug/l | 3783.03 |
| Sn | 118 | 115 | 3 | He | 0.013 | ug/l | 932.26 |
| Sb | 121 | 115 | 1 | No Gas | 0.044 | ug/l | 2092.03 |
| Sb | 121 | 115 | 3 | He | 0.043 | ug/l | 521.73 |
| Sb | 123 | 115 | 1 | No Gas | 0.047 | ug/l | 1664.27 |
| Sb | 123 | 115 | 3 | He | 0.045 | ug/l | 420.05 |
| Ba | 135 | 115 | 1 | No Gas | 0.073 | ug/l | 455.77 |
| Ba | 137 | 115 | 1 | No Gas | 0.055 | ug/l | 622.12 |
| La | 139 | 115 | 3 | He | 0.009 | ug/l | 272.23 |
| Ce | 140 | 115 | 3 | He | 0.003 | ug/l | 115.56 |
| Hg | 201 | 209 | 1 | No Gas | 0.004 | ug/l | 41.66 |
| Hg | 202 | 209 | 1 | No Gas | 0.003 | ug/l | 110.98 |
| Hg | 202 | 209 | 3 | He | 0.005 | ug/l | 50.32 |
| Tl | 203 | 209 | 3 | He | 0.024 | ug/l | 835.70 |
| Tl | 205 | 209 | 1 | No Gas | 0.018 | ug/l | 3357.12 |
| Tl | 205 | 209 | 3 | He | 0.021 | ug/l | 1948.27 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.020 | ug/l | 908.93 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.020 | ug/l | 787.81 |
| Pb | 208 | 209 | 1 | No Gas | 0.019 | ug/l | 3594.66 |
| Th | 232 | 209 | 3 | He | 0.007 | ug/l | 778.34 |
| U | 238 | 209 | 1 | No Gas | 0.001 | ug/l | 170.30 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5754139.22 | 102.0 |
| Sc | 45 | 2 | H2 | 2711860.77 | 98.8 |
| Sc | 45 | 3 | He | 313038.21 | 98.3 |
| Ge | 72 | 1 | No Gas | 1518419.30 | 100.4 |
| Ge | 72 | 2 | H2 | 991164.66 | 99.9 |
| Ge | 72 | 3 | He | 219912.79 | 98.8 |
| In | 115 | 1 | No Gas | 11960751.28 | 98.3 |
| In | 115 | 3 | He | 2567390.94 | 97.4 |
| Tb | 159 | 1 | No Gas | 16529765.22 | 101.1 |
| Tb | 159 | 3 | He | 6980773.86 | 102.2 |
| Ho | 165 | 1 | No Gas | 15588899.91 | 102.2 |
| Ho | 165 | 3 | He | 6689463.65 | 101.1 |
| Lu | 175 | 1 | No Gas | 16018243.20 | 102.9 |
| Lu | 175 | 3 | He | 5508186.64 | 102.9 |
| Bi | 209 | 1 | No Gas | 10670499.35 | 94.2 |
| Bi | 209 | 3 | He | 4817792.44 | 96.1 |

ICPMS207-B Analytical Data

Sample Name Rinse
File Name 034BLKV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 19:28:14
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | 0.876 | ug/l | 24485.48 |
| Be | 9 | 45 | 1 | No Gas | -0.047 | ug/l | 66.32 |
| B | 11 | 45 | 1 | No Gas | 0.006 | ug/l | 5763.42 |
| Na | 23 | 45 | 3 | He | 12.951 | ug/l | 59822.64 |
| Mg | 24 | 45 | 3 | He | -0.574 | ug/l | 1596.92 |
| Al | 27 | 45 | 1 | No Gas | 0.067 | ug/l | 18695.03 |
| Si | 28 | 45 | 2 | H2 | 0.387 | ug/l | 8377.71 |
| K | 39 | 72 | 3 | He | 0.265 | ug/l | 83929.65 |
| Ca | 40 | 72 | 2 | H2 | 0.601 | ug/l | 107679.56 |
| Ti | 47 | 72 | 1 | No Gas | 0.119 | ug/l | 527.21 |
| V | 51 | 72 | 1 | No Gas | 2.236 | ug/l | 10545.49 |
| V | 51 | 72 | 3 | He | -2.597 | ug/l | 3203.70 |
| Cr | 52 | 72 | 1 | No Gas | -2.181 | ug/l | 36486.26 |
| Cr | 52 | 72 | 3 | He | -0.014 | ug/l | 802.25 |
| Mn | 55 | 72 | 1 | No Gas | 0.144 | ug/l | 16779.66 |
| Mn | 55 | 72 | 3 | He | 0.127 | ug/l | 613.89 |
| Fe | 56 | 72 | 2 | H2 | 0.931 | ug/l | 27381.73 |
| Fe | 56 | 72 | 3 | He | 0.675 | ug/l | 9205.50 |
| Co | 59 | 72 | 1 | No Gas | 0.000 | ug/l | 575.54 |
| Ni | 60 | 72 | 1 | No Gas | 0.034 | ug/l | 765.17 |
| Ni | 60 | 72 | 3 | He | 0.006 | ug/l | 112.22 |
| Cu | 63 | 72 | 1 | No Gas | 0.076 | ug/l | 3458.48 |
| Cu | 63 | 72 | 3 | He | -0.006 | ug/l | 651.22 |
| Cu | 65 | 72 | 1 | No Gas | 0.001 | ug/l | 1005.11 |
| Zn | 66 | 72 | 1 | No Gas | -0.002 | ug/l | 1044.29 |
| Zn | 66 | 72 | 3 | He | -0.011 | ug/l | 214.45 |
| As | 75 | 72 | 1 | No Gas | -0.071 | ug/l | 14116.20 |
| As | 75 | 72 | 3 | He | -0.109 | ug/l | 166.13 |
| Se | 78 | 72 | 2 | H2 | -0.003 | ug/l | 32.33 |
| Br | 79 | 72 | 1 | No Gas | 19.140 | ug/l | 346771.29 |
| Br | 79 | 72 | 2 | H2 | 19.320 | ug/l | 182689.94 |
| Se | 82 | 72 | 1 | No Gas | 0.538 | ug/l | 988.64 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 22013.21 |
| Sr | 88 | 72 | 1 | No Gas | 0.002 | ug/l | 921.54 |
| Sr | 88 | 72 | 3 | He | 0.001 | ug/l | 303.34 |
| Mo | 95 | 115 | 1 | No Gas | 0.199 | ug/l | 2301.32 |
| Mo | 95 | 115 | 3 | He | 0.118 | ug/l | 500.01 |
| Mo | 98 | 115 | 1 | No Gas | 0.191 | ug/l | 3600.30 |
| Ag | 107 | 115 | 1 | No Gas | -0.001 | ug/l | 1932.91 |
| Ag | 109 | 115 | 1 | No Gas | 0.000 | ug/l | 1840.86 |
| Cd | 111 | 115 | 1 | No Gas | -0.001 | ug/l | -9.73 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.001 | ug/l | 9.22 |
| Cd | 114 | 115 | 1 | No Gas | 0.003 | ug/l | -146.02 |
| Cd | 114 | 115 | 3 | He | 0.001 | ug/l | 21.47 |
| Sn | 118 | 115 | 1 | No Gas | -0.010 | ug/l | 3164.08 |
| Sn | 118 | 115 | 3 | He | -0.015 | ug/l | 846.70 |
| Sb | 121 | 115 | 1 | No Gas | 0.006 | ug/l | 1122.82 |
| Sb | 121 | 115 | 3 | He | 0.007 | ug/l | 271.36 |
| Sb | 123 | 115 | 1 | No Gas | 0.007 | ug/l | 874.78 |
| Sb | 123 | 115 | 3 | He | 0.007 | ug/l | 212.35 |
| Ba | 135 | 115 | 1 | No Gas | 0.005 | ug/l | 96.47 |
| Ba | 137 | 115 | 1 | No Gas | 0.004 | ug/l | 146.38 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 24.44 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 38.89 |
| Hg | 201 | 209 | 1 | No Gas | 0.002 | ug/l | 35.32 |
| Hg | 202 | 209 | 1 | No Gas | 0.001 | ug/l | 98.65 |
| Hg | 202 | 209 | 3 | He | 0.004 | ug/l | 49.99 |
| Tl | 203 | 209 | 3 | He | 0.020 | ug/l | 855.04 |
| Tl | 205 | 209 | 1 | No Gas | 0.018 | ug/l | 3519.38 |
| Tl | 205 | 209 | 3 | He | 0.018 | ug/l | 2033.64 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.003 | ug/l | 640.02 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.005 | ug/l | 576.68 |
| Pb | 208 | 209 | 1 | No Gas | 0.004 | ug/l | 2645.68 |
| Th | 232 | 209 | 3 | He | -0.003 | ug/l | 457.53 |
| U | 238 | 209 | 1 | No Gas | 0.001 | ug/l | 130.97 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5801065.10 | 102.9 |
| Sc | 45 | 2 | H2 | 2809346.59 | 102.3 |
| Sc | 45 | 3 | He | 318663.48 | 100.1 |
| Ge | 72 | 1 | No Gas | 1538302.03 | 101.7 |
| Ge | 72 | 2 | H2 | 1008237.80 | 101.6 |
| Ge | 72 | 3 | He | 223598.21 | 100.4 |
| In | 115 | 1 | No Gas | 12785113.75 | 105.0 |
| In | 115 | 3 | He | 2725636.99 | 103.4 |
| Tb | 159 | 1 | No Gas | 16723288.11 | 102.3 |
| Tb | 159 | 3 | He | 7037507.26 | 103.0 |
| Ho | 165 | 1 | No Gas | 15972542.60 | 104.7 |
| Ho | 165 | 3 | He | 6669780.17 | 100.8 |
| Lu | 175 | 1 | No Gas | 16393388.85 | 105.3 |
| Lu | 175 | 3 | He | 5577129.54 | 104.1 |
| Bi | 209 | 1 | No Gas | 11147511.78 | 98.5 |
| Bi | 209 | 3 | He | 5205978.79 | 103.9 |

ICPMS207-B Analytical Data

Sample Name Rinse
File Name 035BLKV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 19:34:27
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | 0.586 | ug/l | 21393.57 |
| Be | 9 | 45 | 1 | No Gas | -0.046 | ug/l | 67.99 |
| B | 11 | 45 | 1 | No Gas | -0.186 | ug/l | 5198.31 |
| Na | 23 | 45 | 3 | He | 10.258 | ug/l | 55399.26 |
| Mg | 24 | 45 | 3 | He | -0.652 | ug/l | 1503.77 |
| Al | 27 | 45 | 1 | No Gas | 0.023 | ug/l | 17368.98 |
| Si | 28 | 45 | 2 | H2 | 0.234 | ug/l | 7858.56 |
| K | 39 | 72 | 3 | He | -4.613 | ug/l | 80420.52 |
| Ca | 40 | 72 | 2 | H2 | 0.168 | ug/l | 104411.84 |
| Ti | 47 | 72 | 1 | No Gas | 0.054 | ug/l | 360.37 |
| V | 51 | 72 | 1 | No Gas | 2.202 | ug/l | 8942.17 |
| V | 51 | 72 | 3 | He | -2.550 | ug/l | 3383.75 |
| Cr | 52 | 72 | 1 | No Gas | -2.097 | ug/l | 38841.11 |
| Cr | 52 | 72 | 3 | He | -0.005 | ug/l | 841.14 |
| Mn | 55 | 72 | 1 | No Gas | 0.153 | ug/l | 17142.75 |
| Mn | 55 | 72 | 3 | He | 0.129 | ug/l | 611.22 |
| Fe | 56 | 72 | 2 | H2 | 0.387 | ug/l | 17489.66 |
| Fe | 56 | 72 | 3 | He | 0.312 | ug/l | 7322.53 |
| Co | 59 | 72 | 1 | No Gas | 0.001 | ug/l | 595.50 |
| Ni | 60 | 72 | 1 | No Gas | 0.007 | ug/l | 562.23 |
| Ni | 60 | 72 | 3 | He | -0.001 | ug/l | 95.56 |
| Cu | 63 | 72 | 1 | No Gas | 0.049 | ug/l | 2972.17 |
| Cu | 63 | 72 | 3 | He | -0.011 | ug/l | 613.22 |
| Cu | 65 | 72 | 1 | No Gas | -0.005 | ug/l | 949.75 |
| Zn | 66 | 72 | 1 | No Gas | -0.002 | ug/l | 1034.38 |
| Zn | 66 | 72 | 3 | He | 0.016 | ug/l | 245.56 |
| As | 75 | 72 | 1 | No Gas | -0.128 | ug/l | 13674.91 |
| As | 75 | 72 | 3 | He | -0.108 | ug/l | 164.47 |
| Se | 78 | 72 | 2 | H2 | -0.015 | ug/l | 24.89 |
| Br | 79 | 72 | 1 | No Gas | 18.135 | ug/l | 331632.09 |
| Br | 79 | 72 | 2 | H2 | 18.388 | ug/l | 175811.68 |
| Se | 82 | 72 | 1 | No Gas | 0.316 | ug/l | 896.23 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 21386.80 |
| Sr | 88 | 72 | 1 | No Gas | -0.001 | ug/l | 755.19 |
| Sr | 88 | 72 | 3 | He | -0.002 | ug/l | 282.23 |
| Mo | 95 | 115 | 1 | No Gas | 0.049 | ug/l | 608.91 |
| Mo | 95 | 115 | 3 | He | 0.047 | ug/l | 211.12 |
| Mo | 98 | 115 | 1 | No Gas | 0.048 | ug/l | 969.28 |
| Ag | 107 | 115 | 1 | No Gas | -0.003 | ug/l | 1838.19 |
| Ag | 109 | 115 | 1 | No Gas | 0.002 | ug/l | 1874.88 |
| Cd | 111 | 115 | 1 | No Gas | 0.005 | ug/l | 26.29 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.001 | ug/l | 8.11 |
| Cd | 114 | 115 | 1 | No Gas | 0.004 | ug/l | -120.12 |
| Cd | 114 | 115 | 3 | He | 0.000 | ug/l | 14.55 |
| Sn | 118 | 115 | 1 | No Gas | -0.001 | ug/l | 3277.22 |
| Sn | 118 | 115 | 3 | He | -0.007 | ug/l | 876.70 |
| Sb | 121 | 115 | 1 | No Gas | -0.001 | ug/l | 902.79 |
| Sb | 121 | 115 | 3 | He | 0.000 | ug/l | 218.02 |
| Sb | 123 | 115 | 1 | No Gas | -0.002 | ug/l | 667.75 |
| Sb | 123 | 115 | 3 | He | 0.001 | ug/l | 172.02 |
| Ba | 135 | 115 | 1 | No Gas | 0.000 | ug/l | 69.86 |
| Ba | 137 | 115 | 1 | No Gas | 0.001 | ug/l | 106.46 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 18.89 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 37.78 |
| Hg | 201 | 209 | 1 | No Gas | 0.001 | ug/l | 32.32 |
| Hg | 202 | 209 | 1 | No Gas | 0.000 | ug/l | 101.31 |
| Hg | 202 | 209 | 3 | He | 0.002 | ug/l | 45.32 |
| Tl | 203 | 209 | 3 | He | 0.005 | ug/l | 690.30 |
| Tl | 205 | 209 | 1 | No Gas | 0.008 | ug/l | 3103.72 |
| Tl | 205 | 209 | 3 | He | 0.008 | ug/l | 1776.84 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.003 | ug/l | 653.35 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.001 | ug/l | 532.24 |
| Pb | 208 | 209 | 1 | No Gas | 0.001 | ug/l | 2542.33 |
| Th | 232 | 209 | 3 | He | -0.005 | ug/l | 384.16 |
| U | 238 | 209 | 1 | No Gas | 0.000 | ug/l | 124.64 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5684299.41 | 100.8 |
| Sc | 45 | 2 | H2 | 2743030.42 | 99.9 |
| Sc | 45 | 3 | He | 307012.81 | 96.4 |
| Ge | 72 | 1 | No Gas | 1536349.17 | 101.6 |
| Ge | 72 | 2 | H2 | 1010058.11 | 101.8 |
| Ge | 72 | 3 | He | 220554.11 | 99.1 |
| In | 115 | 1 | No Gas | 12525031.36 | 102.9 |
| In | 115 | 3 | He | 2687416.09 | 102.0 |
| Tb | 159 | 1 | No Gas | 16919060.34 | 103.5 |
| Tb | 159 | 3 | He | 7084651.64 | 103.7 |
| Ho | 165 | 1 | No Gas | 15987072.97 | 104.8 |
| Ho | 165 | 3 | He | 6953513.01 | 105.1 |
| Lu | 175 | 1 | No Gas | 16373429.94 | 105.2 |
| Lu | 175 | 3 | He | 5637319.78 | 105.3 |
| Bi | 209 | 1 | No Gas | 11658944.19 | 103.0 |
| Bi | 209 | 3 | He | 5294112.68 | 105.6 |

ICPMS207-B Analytical Data

Sample Name CCV
File Name 036_CCV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 19:40:40
Sample Type CCV
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|--------------|
| Li | 7 | 45 | 1 | No Gas | 516.363 | ug/l | 4441104.42 |
| Be | 9 | 45 | 1 | No Gas | 42.987 | ug/l | 156772.55 |
| B | 11 | 45 | 1 | No Gas | 44.807 | ug/l | 105683.05 |
| Na | 23 | 45 | 3 | He | 12244.986 | ug/l | 10288798.53 |
| Mg | 24 | 45 | 3 | He | 11962.932 | ug/l | 5521074.92 |
| Al | 27 | 45 | 1 | No Gas | 56.745 | ug/l | 1190555.12 |
| Si | 28 | 45 | 2 | H2 | 218.794 | ug/l | 458569.11 |
| K | 39 | 72 | 3 | He | 12204.421 | ug/l | 5971574.98 |
| Ca | 40 | 72 | 2 | H2 | 12546.289 | ug/l | 101582041.80 |
| Ti | 47 | 72 | 1 | No Gas | 49.730 | ug/l | 124202.02 |
| V | 51 | 72 | 1 | No Gas | 50.465 | ug/l | 1497337.59 |
| V | 51 | 72 | 3 | He | 48.531 | ug/l | 246925.33 |
| Cr | 52 | 72 | 1 | No Gas | 48.244 | ug/l | 1473060.56 |
| Cr | 52 | 72 | 3 | He | 50.152 | ug/l | 274460.29 |
| Mn | 55 | 72 | 1 | No Gas | 50.408 | ug/l | 1934972.09 |
| Mn | 55 | 72 | 3 | He | 50.985 | ug/l | 180758.13 |
| Fe | 56 | 72 | 2 | H2 | 1322.924 | ug/l | 24521457.89 |
| Fe | 56 | 72 | 3 | He | 1308.718 | ug/l | 6335745.11 |
| Co | 59 | 72 | 1 | No Gas | 49.662 | ug/l | 1603097.44 |
| Ni | 60 | 72 | 1 | No Gas | 49.378 | ug/l | 363451.56 |
| Ni | 60 | 72 | 3 | He | 50.127 | ug/l | 112755.74 |
| Cu | 63 | 72 | 1 | No Gas | 51.257 | ug/l | 908989.26 |
| Cu | 63 | 72 | 3 | He | 51.966 | ug/l | 308014.43 |
| Cu | 65 | 72 | 1 | No Gas | 49.727 | ug/l | 434255.58 |
| Zn | 66 | 72 | 1 | No Gas | 50.529 | ug/l | 305372.05 |
| Zn | 66 | 72 | 3 | He | 52.563 | ug/l | 65422.97 |
| As | 75 | 72 | 1 | No Gas | 50.014 | ug/l | 372418.64 |
| As | 75 | 72 | 3 | He | 51.587 | ug/l | 55539.40 |
| Se | 78 | 72 | 2 | H2 | 52.152 | ug/l | 34901.52 |
| Br | 79 | 72 | 1 | No Gas | 14.545 | ug/l | 275168.23 |
| Br | 79 | 72 | 2 | H2 | 14.198 | ug/l | 145883.39 |
| Se | 82 | 72 | 1 | No Gas | 50.829 | ug/l | 21574.23 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 38391.61 |
| Sr | 88 | 72 | 1 | No Gas | 52.354 | ug/l | 2688372.05 |
| Sr | 88 | 72 | 3 | He | 53.097 | ug/l | 295438.98 |
| Mo | 95 | 115 | 1 | No Gas | 51.297 | ug/l | 556028.86 |
| Mo | 95 | 115 | 3 | He | 51.788 | ug/l | 197657.52 |
| Mo | 98 | 115 | 1 | No Gas | 50.384 | ug/l | 889252.80 |
| Ag | 107 | 115 | 1 | No Gas | 19.840 | ug/l | 552630.36 |
| Ag | 109 | 115 | 1 | No Gas | 19.906 | ug/l | 538183.32 |
| Cd | 111 | 115 | 1 | No Gas | 49.963 | ug/l | 312764.32 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Cd | 111 | 115 | 3 | He | 50.845 | ug/l | 102422.00 |
| Cd | 114 | 115 | 1 | No Gas | 50.889 | ug/l | 704346.47 |
| Cd | 114 | 115 | 3 | He | 50.897 | ug/l | 251714.73 |
| Sn | 118 | 115 | 1 | No Gas | 52.402 | ug/l | 933177.21 |
| Sn | 118 | 115 | 3 | He | 51.587 | ug/l | 241957.83 |
| Sb | 121 | 115 | 1 | No Gas | 52.538 | ug/l | 1471784.22 |
| Sb | 121 | 115 | 3 | He | 52.522 | ug/l | 382168.25 |
| Sb | 123 | 115 | 1 | No Gas | 52.635 | ug/l | 1134577.31 |
| Sb | 123 | 115 | 3 | He | 52.432 | ug/l | 301493.62 |
| Ba | 135 | 115 | 1 | No Gas | 50.309 | ug/l | 275813.44 |
| Ba | 137 | 115 | 1 | No Gas | 50.064 | ug/l | 487977.98 |
| La | 139 | 115 | 3 | He | 50.735 | ug/l | 1341690.61 |
| Ce | 140 | 115 | 3 | He | 51.626 | ug/l | 1493599.40 |
| Hg | 201 | 209 | 1 | No Gas | 0.984 | ug/l | 3840.46 |
| Hg | 202 | 209 | 1 | No Gas | 0.959 | ug/l | 8609.39 |
| Hg | 202 | 209 | 3 | He | 0.979 | ug/l | 4288.17 |
| Tl | 203 | 209 | 3 | He | 48.530 | ug/l | 542832.88 |
| Tl | 205 | 209 | 1 | No Gas | 50.267 | ug/l | 2665776.64 |
| Tl | 205 | 209 | 3 | He | 48.772 | ug/l | 1292736.50 |
| [Pb] | 206 | 209 | 1 | No Gas | 50.905 | ug/l | 948185.76 |
| [Pb] | 207 | 209 | 1 | No Gas | 50.328 | ug/l | 819432.44 |
| Pb | 208 | 209 | 1 | No Gas | 50.442 | ug/l | 3792755.68 |
| Th | 232 | 209 | 3 | He | 48.762 | ug/l | 1819915.34 |
| U | 238 | 209 | 1 | No Gas | 49.730 | ug/l | 3719698.31 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5512912.96 | 97.8 |
| Sc | 45 | 2 | H2 | 2730276.96 | 99.5 |
| Sc | 45 | 3 | He | 309373.58 | 97.1 |
| Ge | 72 | 1 | No Gas | 1505820.90 | 99.6 |
| Ge | 72 | 2 | H2 | 1026181.87 | 103.4 |
| Ge | 72 | 3 | He | 220448.39 | 99.0 |
| In | 115 | 1 | No Gas | 12245111.59 | 100.6 |
| In | 115 | 3 | He | 2565688.85 | 97.3 |
| Tb | 159 | 1 | No Gas | 16579436.77 | 101.5 |
| Tb | 159 | 3 | He | 7050171.85 | 103.2 |
| Ho | 165 | 1 | No Gas | 15595514.34 | 102.3 |
| Ho | 165 | 3 | He | 6640131.41 | 100.4 |
| Lu | 175 | 1 | No Gas | 15835163.04 | 101.7 |
| Lu | 175 | 3 | He | 5486779.97 | 102.5 |
| Bi | 209 | 1 | No Gas | 11310010.43 | 99.9 |
| Bi | 209 | 3 | He | 5056149.05 | 100.9 |

ICPMS207-B Analytical Data

Sample Name CCB
File Name 037_CCB.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 19:46:55
Sample Type CCB
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Li | 7 | 45 | 1 | No Gas | 0.622 | ug/l | 20837.91 |
| Be | 9 | 45 | 1 | No Gas | -0.040 | ug/l | 87.65 |
| B | 11 | 45 | 1 | No Gas | 0.389 | ug/l | 6262.48 |
| Na | 23 | 45 | 3 | He | 1.802 | ug/l | 47279.52 |
| Mg | 24 | 45 | 3 | He | -0.189 | ug/l | 1676.77 |
| Al | 27 | 45 | 1 | No Gas | 0.025 | ug/l | 16724.98 |
| Si | 28 | 45 | 2 | H2 | 0.360 | ug/l | 7947.97 |
| K | 39 | 72 | 3 | He | 6.306 | ug/l | 82550.85 |
| Ca | 40 | 72 | 2 | H2 | -0.092 | ug/l | 98618.08 |
| Ti | 47 | 72 | 1 | No Gas | 0.023 | ug/l | 278.62 |
| V | 51 | 72 | 1 | No Gas | 3.019 | ug/l | 34344.05 |
| V | 51 | 72 | 3 | He | -1.890 | ug/l | 6296.94 |
| Cr | 52 | 72 | 1 | No Gas | -1.674 | ug/l | 50343.02 |
| Cr | 52 | 72 | 3 | He | 0.116 | ug/l | 1440.12 |
| Mn | 55 | 72 | 1 | No Gas | 0.052 | ug/l | 12970.06 |
| Mn | 55 | 72 | 3 | He | -0.007 | ug/l | 127.31 |
| Fe | 56 | 72 | 2 | H2 | 0.149 | ug/l | 12693.28 |
| Fe | 56 | 72 | 3 | He | 0.183 | ug/l | 6452.95 |
| Co | 59 | 72 | 1 | No Gas | -0.002 | ug/l | 509.00 |
| Ni | 60 | 72 | 1 | No Gas | -0.005 | ug/l | 465.75 |
| Ni | 60 | 72 | 3 | He | -0.004 | ug/l | 85.56 |
| Cu | 63 | 72 | 1 | No Gas | -0.002 | ug/l | 2029.63 |
| Cu | 63 | 72 | 3 | He | -0.006 | ug/l | 619.22 |
| Cu | 65 | 72 | 1 | No Gas | -0.011 | ug/l | 878.38 |
| Zn | 66 | 72 | 1 | No Gas | -0.020 | ug/l | 914.21 |
| Zn | 66 | 72 | 3 | He | 0.004 | ug/l | 221.12 |
| As | 75 | 72 | 1 | No Gas | -0.436 | ug/l | 11254.02 |
| As | 75 | 72 | 3 | He | -0.075 | ug/l | 192.73 |
| Se | 78 | 72 | 2 | H2 | 0.003 | ug/l | 35.33 |
| Br | 79 | 72 | 1 | No Gas | 0.516 | ug/l | 79180.87 |
| Br | 79 | 72 | 2 | H2 | 0.497 | ug/l | 36707.04 |
| Se | 82 | 72 | 1 | No Gas | -0.087 | ug/l | 714.21 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 21586.69 |
| Sr | 88 | 72 | 1 | No Gas | -0.002 | ug/l | 721.92 |
| Sr | 88 | 72 | 3 | He | -0.001 | ug/l | 274.45 |
| Mo | 95 | 115 | 1 | No Gas | 0.035 | ug/l | 443.34 |
| Mo | 95 | 115 | 3 | He | 0.028 | ug/l | 130.00 |
| Mo | 98 | 115 | 1 | No Gas | 0.034 | ug/l | 692.24 |
| Ag | 107 | 115 | 1 | No Gas | 0.000 | ug/l | 1885.55 |
| Ag | 109 | 115 | 1 | No Gas | 0.002 | ug/l | 1809.51 |
| Cd | 111 | 115 | 1 | No Gas | 0.001 | ug/l | 4.69 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.001 | ug/l | 9.11 |
| Cd | 114 | 115 | 1 | No Gas | 0.002 | ug/l | -147.53 |
| Cd | 114 | 115 | 3 | He | 0.001 | ug/l | 16.76 |
| Sn | 118 | 115 | 1 | No Gas | 0.010 | ug/l | 3377.05 |
| Sn | 118 | 115 | 3 | He | 0.015 | ug/l | 938.93 |
| Sb | 121 | 115 | 1 | No Gas | 0.078 | ug/l | 3084.00 |
| Sb | 121 | 115 | 3 | He | 0.048 | ug/l | 558.07 |
| Sb | 123 | 115 | 1 | No Gas | 0.079 | ug/l | 2374.45 |
| Sb | 123 | 115 | 3 | He | 0.049 | ug/l | 441.72 |
| Ba | 135 | 115 | 1 | No Gas | -0.002 | ug/l | 53.23 |
| Ba | 137 | 115 | 1 | No Gas | 0.004 | ug/l | 136.39 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 17.78 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 36.67 |
| Hg | 201 | 209 | 1 | No Gas | 0.006 | ug/l | 52.99 |
| Hg | 202 | 209 | 1 | No Gas | 0.006 | ug/l | 152.97 |
| Hg | 202 | 209 | 3 | He | 0.006 | ug/l | 58.66 |
| Tl | 203 | 209 | 3 | He | 0.167 | ug/l | 2523.26 |
| Tl | 205 | 209 | 1 | No Gas | 0.149 | ug/l | 10811.25 |
| Tl | 205 | 209 | 3 | He | 0.162 | ug/l | 5917.70 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.004 | ug/l | 686.69 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.007 | ug/l | 636.69 |
| Pb | 208 | 209 | 1 | No Gas | 0.005 | ug/l | 2849.03 |
| Th | 232 | 209 | 3 | He | 0.009 | ug/l | 943.75 |
| U | 238 | 209 | 1 | No Gas | 0.002 | ug/l | 269.95 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5449021.99 | 96.6 |
| Sc | 45 | 2 | H2 | 2683384.87 | 97.8 |
| Sc | 45 | 3 | He | 299994.60 | 94.2 |
| Ge | 72 | 1 | No Gas | 1510662.81 | 99.9 |
| Ge | 72 | 2 | H2 | 973320.04 | 98.1 |
| Ge | 72 | 3 | He | 212463.18 | 95.4 |
| In | 115 | 1 | No Gas | 12205249.32 | 100.3 |
| In | 115 | 3 | He | 2569802.79 | 97.5 |
| Tb | 159 | 1 | No Gas | 16659493.28 | 101.9 |
| Tb | 159 | 3 | He | 6843290.50 | 100.1 |
| Ho | 165 | 1 | No Gas | 15694607.59 | 102.9 |
| Ho | 165 | 3 | He | 6566789.47 | 99.3 |
| Lu | 175 | 1 | No Gas | 16021557.76 | 102.9 |
| Lu | 175 | 3 | He | 5450588.89 | 101.8 |
| Bi | 209 | 1 | No Gas | 11661930.72 | 103.0 |
| Bi | 209 | 3 | He | 5167194.59 | 103.1 |

ICPMS207-B Analytical Data

Sample Name Rinse
File Name 038BLKV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 19:53:09
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | 0.042 | ug/l | 15955.42 |
| Be | 9 | 45 | 1 | No Gas | -0.045 | ug/l | 69.99 |
| B | 11 | 45 | 1 | No Gas | -0.353 | ug/l | 4629.24 |
| Na | 23 | 45 | 3 | He | 2.645 | ug/l | 48057.59 |
| Mg | 24 | 45 | 3 | He | -0.255 | ug/l | 1650.15 |
| Al | 27 | 45 | 1 | No Gas | 0.027 | ug/l | 16780.55 |
| Si | 28 | 45 | 2 | H2 | 0.221 | ug/l | 7536.29 |
| K | 39 | 72 | 3 | He | -1.828 | ug/l | 79223.04 |
| Ca | 40 | 72 | 2 | H2 | 0.124 | ug/l | 101954.18 |
| Ti | 47 | 72 | 1 | No Gas | 0.022 | ug/l | 276.95 |
| V | 51 | 72 | 1 | No Gas | 1.628 | ug/l | -8858.23 |
| V | 51 | 72 | 3 | He | -2.236 | ug/l | 4730.79 |
| Cr | 52 | 72 | 1 | No Gas | -1.912 | ug/l | 43648.31 |
| Cr | 52 | 72 | 3 | He | -0.014 | ug/l | 768.91 |
| Mn | 55 | 72 | 1 | No Gas | 0.144 | ug/l | 16533.18 |
| Mn | 55 | 72 | 3 | He | 0.122 | ug/l | 570.90 |
| Fe | 56 | 72 | 2 | H2 | 0.210 | ug/l | 13979.04 |
| Fe | 56 | 72 | 3 | He | 0.152 | ug/l | 6346.11 |
| Co | 59 | 72 | 1 | No Gas | 0.000 | ug/l | 572.21 |
| Ni | 60 | 72 | 1 | No Gas | -0.007 | ug/l | 449.12 |
| Ni | 60 | 72 | 3 | He | 0.008 | ug/l | 113.33 |
| Cu | 63 | 72 | 1 | No Gas | 0.008 | ug/l | 2211.06 |
| Cu | 63 | 72 | 3 | He | -0.018 | ug/l | 552.57 |
| Cu | 65 | 72 | 1 | No Gas | -0.022 | ug/l | 781.67 |
| Zn | 66 | 72 | 1 | No Gas | -0.016 | ug/l | 944.38 |
| Zn | 66 | 72 | 3 | He | 0.021 | ug/l | 243.34 |
| As | 75 | 72 | 1 | No Gas | 0.084 | ug/l | 15067.64 |
| As | 75 | 72 | 3 | He | -0.102 | ug/l | 165.93 |
| Se | 78 | 72 | 2 | H2 | -0.008 | ug/l | 28.67 |
| Br | 79 | 72 | 1 | No Gas | 17.409 | ug/l | 317058.89 |
| Br | 79 | 72 | 2 | H2 | 18.217 | ug/l | 171008.54 |
| Se | 82 | 72 | 1 | No Gas | 0.515 | ug/l | 962.77 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 21353.54 |
| Sr | 88 | 72 | 1 | No Gas | 0.003 | ug/l | 941.50 |
| Sr | 88 | 72 | 3 | He | 0.003 | ug/l | 298.89 |
| Mo | 95 | 115 | 1 | No Gas | 0.017 | ug/l | 247.78 |
| Mo | 95 | 115 | 3 | He | 0.015 | ug/l | 80.00 |
| Mo | 98 | 115 | 1 | No Gas | 0.014 | ug/l | 345.99 |
| Ag | 107 | 115 | 1 | No Gas | -0.003 | ug/l | 1820.85 |
| Ag | 109 | 115 | 1 | No Gas | 0.000 | ug/l | 1770.16 |
| Cd | 111 | 115 | 1 | No Gas | -0.005 | ug/l | -32.33 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.001 | ug/l | 9.11 |
| Cd | 114 | 115 | 1 | No Gas | -0.001 | ug/l | -186.75 |
| Cd | 114 | 115 | 3 | He | 0.000 | ug/l | 15.85 |
| Sn | 118 | 115 | 1 | No Gas | -0.001 | ug/l | 3227.31 |
| Sn | 118 | 115 | 3 | He | -0.016 | ug/l | 795.59 |
| Sb | 121 | 115 | 1 | No Gas | 0.012 | ug/l | 1264.52 |
| Sb | 121 | 115 | 3 | He | 0.011 | ug/l | 287.03 |
| Sb | 123 | 115 | 1 | No Gas | 0.012 | ug/l | 964.80 |
| Sb | 123 | 115 | 3 | He | 0.008 | ug/l | 206.69 |
| Ba | 135 | 115 | 1 | No Gas | 0.002 | ug/l | 79.84 |
| Ba | 137 | 115 | 1 | No Gas | 0.004 | ug/l | 136.40 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 12.22 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 36.67 |
| Hg | 201 | 209 | 1 | No Gas | 0.003 | ug/l | 41.32 |
| Hg | 202 | 209 | 1 | No Gas | 0.002 | ug/l | 117.31 |
| Hg | 202 | 209 | 3 | He | 0.004 | ug/l | 51.32 |
| Tl | 203 | 209 | 3 | He | 0.050 | ug/l | 1215.88 |
| Tl | 205 | 209 | 1 | No Gas | 0.041 | ug/l | 4924.36 |
| Tl | 205 | 209 | 3 | He | 0.049 | ug/l | 2926.84 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.000 | ug/l | 611.13 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.001 | ug/l | 544.46 |
| Pb | 208 | 209 | 1 | No Gas | 0.000 | ug/l | 2534.55 |
| Th | 232 | 209 | 3 | He | -0.001 | ug/l | 570.24 |
| U | 238 | 209 | 1 | No Gas | 0.001 | ug/l | 150.30 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5457260.15 | 96.8 |
| Sc | 45 | 2 | H2 | 2683402.05 | 97.8 |
| Sc | 45 | 3 | He | 300573.42 | 94.4 |
| Ge | 72 | 1 | No Gas | 1514723.73 | 100.2 |
| Ge | 72 | 2 | H2 | 994836.16 | 100.2 |
| Ge | 72 | 3 | He | 213690.25 | 96.0 |
| In | 115 | 1 | No Gas | 12351113.64 | 101.5 |
| In | 115 | 3 | He | 2577328.62 | 97.8 |
| Tb | 159 | 1 | No Gas | 17271422.06 | 105.7 |
| Tb | 159 | 3 | He | 6892130.59 | 100.9 |
| Ho | 165 | 1 | No Gas | 16284317.08 | 106.8 |
| Ho | 165 | 3 | He | 6667086.70 | 100.8 |
| Lu | 175 | 1 | No Gas | 16399426.87 | 105.4 |
| Lu | 175 | 3 | He | 5452014.69 | 101.8 |
| Bi | 209 | 1 | No Gas | 11686428.19 | 103.2 |
| Bi | 209 | 3 | He | 5279602.66 | 105.3 |

ICPMS207-B Analytical Data

Sample Name MB-163063
File Name 039ARef.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 19:59:24
Sample Type AIRRef
Total Dilution 1.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | 0.674 | ug/l | 19406.11 |
| Be | 9 | 45 | 1 | No Gas | -0.037 | ug/l | 88.31 |
| B | 11 | 45 | 1 | No Gas | 1.124 | ug/l | 7188.62 |
| Na | 23 | 45 | 3 | He | 22.948 | ug/l | 58436.69 |
| Mg | 24 | 45 | 3 | He | 0.921 | ug/l | 1969.56 |
| Al | 27 | 45 | 1 | No Gas | 1.822 | ug/l | 48724.69 |
| Si | 28 | 45 | 2 | H2 | 21.197 | ug/l | 46265.20 |
| K | 39 | 72 | 3 | He | -6.019 | ug/l | 70925.89 |
| Ca | 40 | 72 | 2 | H2 | 35.788 | ug/l | 351269.53 |
| Ti | 47 | 72 | 1 | No Gas | 0.478 | ug/l | 1278.01 |
| V | 51 | 72 | 1 | No Gas | 4.098 | ug/l | 61237.69 |
| V | 51 | 72 | 3 | He | -1.483 | ug/l | 7544.20 |
| Cr | 52 | 72 | 1 | No Gas | -0.430 | ug/l | 77517.00 |
| Cr | 52 | 72 | 3 | He | 0.066 | ug/l | 1092.27 |
| Mn | 55 | 72 | 1 | No Gas | 0.711 | ug/l | 34492.05 |
| Mn | 55 | 72 | 3 | He | 0.130 | ug/l | 546.90 |
| Fe | 56 | 72 | 2 | H2 | 1.119 | ug/l | 27936.32 |
| Fe | 56 | 72 | 3 | He | 1.126 | ug/l | 10020.20 |
| Co | 59 | 72 | 1 | No Gas | 0.091 | ug/l | 3170.73 |
| Ni | 60 | 72 | 1 | No Gas | 0.014 | ug/l | 545.60 |
| Ni | 60 | 72 | 3 | He | 0.002 | ug/l | 91.11 |
| Cu | 63 | 72 | 1 | No Gas | 0.269 | ug/l | 6159.11 |
| Cu | 63 | 72 | 3 | He | 0.190 | ug/l | 1605.10 |
| Cu | 65 | 72 | 1 | No Gas | 0.133 | ug/l | 1929.57 |
| Zn | 66 | 72 | 1 | No Gas | 0.122 | ug/l | 1602.89 |
| Zn | 66 | 72 | 3 | He | 0.193 | ug/l | 415.56 |
| As | 75 | 72 | 1 | No Gas | 0.582 | ug/l | 16762.17 |
| As | 75 | 72 | 3 | He | 0.020 | ug/l | 268.40 |
| Se | 78 | 72 | 2 | H2 | 0.018 | ug/l | 41.89 |
| Br | 79 | 72 | 1 | No Gas | 4.870 | ug/l | 126596.37 |
| Br | 79 | 72 | 2 | H2 | 4.361 | ug/l | 61424.79 |
| Se | 82 | 72 | 1 | No Gas | 0.084 | ug/l | 707.54 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 20497.28 |
| Sr | 88 | 72 | 1 | No Gas | 0.027 | ug/l | 1962.92 |
| Sr | 88 | 72 | 3 | He | 0.033 | ug/l | 424.45 |
| Mo | 95 | 115 | 1 | No Gas | 0.426 | ug/l | 4298.45 |
| Mo | 95 | 115 | 3 | He | 0.399 | ug/l | 1455.64 |
| Mo | 98 | 115 | 1 | No Gas | 0.426 | ug/l | 6991.27 |
| Ag | 107 | 115 | 1 | No Gas | -0.066 | ug/l | 39.35 |
| Ag | 109 | 115 | 1 | No Gas | -0.063 | ug/l | 51.35 |
| Cd | 111 | 115 | 1 | No Gas | 0.004 | ug/l | 18.11 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.000 | ug/l | 5.44 |
| Cd | 114 | 115 | 1 | No Gas | 0.012 | ug/l | -3.73 |
| Cd | 114 | 115 | 3 | He | 0.000 | ug/l | 12.69 |
| Sn | 118 | 115 | 1 | No Gas | 0.415 | ug/l | 9714.13 |
| Sn | 118 | 115 | 3 | He | 0.431 | ug/l | 2719.17 |
| Sb | 121 | 115 | 1 | No Gas | 0.012 | ug/l | 1149.17 |
| Sb | 121 | 115 | 3 | He | 0.014 | ug/l | 292.36 |
| Sb | 123 | 115 | 1 | No Gas | 0.014 | ug/l | 906.45 |
| Sb | 123 | 115 | 3 | He | 0.014 | ug/l | 223.69 |
| Ba | 135 | 115 | 1 | No Gas | 0.010 | ug/l | 109.78 |
| Ba | 137 | 115 | 1 | No Gas | 0.012 | ug/l | 202.94 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 21.11 |
| Ce | 140 | 115 | 3 | He | 0.001 | ug/l | 50.00 |
| Hg | 201 | 209 | 1 | No Gas | 0.015 | ug/l | 82.32 |
| Hg | 202 | 209 | 1 | No Gas | 0.017 | ug/l | 238.95 |
| Hg | 202 | 209 | 3 | He | 0.018 | ug/l | 111.98 |
| Tl | 203 | 209 | 3 | He | 0.072 | ug/l | 1409.31 |
| Tl | 205 | 209 | 1 | No Gas | 0.076 | ug/l | 6403.81 |
| Tl | 205 | 209 | 3 | He | 0.070 | ug/l | 3335.10 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.046 | ug/l | 1392.30 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.048 | ug/l | 1230.07 |
| Pb | 208 | 209 | 1 | No Gas | 0.045 | ug/l | 5584.94 |
| Th | 232 | 209 | 3 | He | 0.041 | ug/l | 2110.36 |
| U | 238 | 209 | 1 | No Gas | 0.001 | ug/l | 177.63 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4967184.30 | 88.1 |
| Sc | 45 | 2 | H2 | 2472865.13 | 90.1 |
| Sc | 45 | 3 | He | 272671.03 | 85.6 |
| Ge | 72 | 1 | No Gas | 1363441.91 | 90.2 |
| Ge | 72 | 2 | H2 | 914358.14 | 92.1 |
| Ge | 72 | 3 | He | 196355.40 | 88.2 |
| In | 115 | 1 | No Gas | 11241008.58 | 92.3 |
| In | 115 | 3 | He | 2418529.72 | 91.8 |
| Tb | 159 | 1 | No Gas | 15612713.93 | 95.5 |
| Tb | 159 | 3 | He | 6878318.44 | 100.7 |
| Ho | 165 | 1 | No Gas | 14828684.93 | 97.2 |
| Ho | 165 | 3 | He | 6501486.99 | 98.3 |
| Lu | 175 | 1 | No Gas | 15242045.36 | 97.9 |
| Lu | 175 | 3 | He | 5242364.11 | 97.9 |
| Bi | 209 | 1 | No Gas | 10864058.80 | 96.0 |
| Bi | 209 | 3 | He | 5050293.81 | 100.8 |

ICPMS207-B Analytical Data

Sample Name MB-163116
File Name 040ARef.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 20:05:39
Sample Type AIRRef
Total Dilution 1.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | 0.381 | ug/l | 16842.72 |
| Be | 9 | 45 | 1 | No Gas | -0.038 | ug/l | 83.31 |
| B | 11 | 45 | 1 | No Gas | 0.697 | ug/l | 6215.12 |
| Na | 23 | 45 | 3 | He | 19.674 | ug/l | 54671.20 |
| Mg | 24 | 45 | 3 | He | 0.962 | ug/l | 1939.62 |
| Al | 27 | 45 | 1 | No Gas | 1.598 | ug/l | 43700.28 |
| Si | 28 | 45 | 2 | H2 | 17.557 | ug/l | 39548.08 |
| K | 39 | 72 | 3 | He | -7.508 | ug/l | 69607.70 |
| Ca | 40 | 72 | 2 | H2 | 10.450 | ug/l | 169823.91 |
| Ti | 47 | 72 | 1 | No Gas | 0.312 | ug/l | 904.27 |
| V | 51 | 72 | 1 | No Gas | 4.360 | ug/l | 70068.61 |
| V | 51 | 72 | 3 | He | -1.676 | ug/l | 6653.78 |
| Cr | 52 | 72 | 1 | No Gas | -0.869 | ug/l | 66081.03 |
| Cr | 52 | 72 | 3 | He | 0.052 | ug/l | 1017.82 |
| Mn | 55 | 72 | 1 | No Gas | 0.656 | ug/l | 32534.83 |
| Mn | 55 | 72 | 3 | He | 0.113 | ug/l | 489.25 |
| Fe | 56 | 72 | 2 | H2 | 0.419 | ug/l | 16494.14 |
| Fe | 56 | 72 | 3 | He | 0.525 | ug/l | 7359.31 |
| Co | 59 | 72 | 1 | No Gas | 0.120 | ug/l | 4002.63 |
| Ni | 60 | 72 | 1 | No Gas | 0.010 | ug/l | 522.31 |
| Ni | 60 | 72 | 3 | He | 0.013 | ug/l | 111.11 |
| Cu | 63 | 72 | 1 | No Gas | 0.257 | ug/l | 5965.62 |
| Cu | 63 | 72 | 3 | He | 0.201 | ug/l | 1642.77 |
| Cu | 65 | 72 | 1 | No Gas | 0.142 | ug/l | 1994.27 |
| Zn | 66 | 72 | 1 | No Gas | 0.083 | ug/l | 1393.36 |
| Zn | 66 | 72 | 3 | He | 0.164 | ug/l | 377.78 |
| As | 75 | 72 | 1 | No Gas | 0.124 | ug/l | 13916.38 |
| As | 75 | 72 | 3 | He | -0.008 | ug/l | 239.33 |
| Se | 78 | 72 | 2 | H2 | 0.005 | ug/l | 34.89 |
| Br | 79 | 72 | 1 | No Gas | 4.141 | ug/l | 117503.11 |
| Br | 79 | 72 | 2 | H2 | 3.441 | ug/l | 55419.38 |
| Se | 82 | 72 | 1 | No Gas | 0.119 | ug/l | 721.41 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 20437.17 |
| Sr | 88 | 72 | 1 | No Gas | 0.014 | ug/l | 1377.34 |
| Sr | 88 | 72 | 3 | He | 0.010 | ug/l | 305.56 |
| Mo | 95 | 115 | 1 | No Gas | 0.425 | ug/l | 4291.79 |
| Mo | 95 | 115 | 3 | He | 0.415 | ug/l | 1510.09 |
| Mo | 98 | 115 | 1 | No Gas | 0.426 | ug/l | 7013.50 |
| Ag | 107 | 115 | 1 | No Gas | -0.065 | ug/l | 58.69 |
| Ag | 109 | 115 | 1 | No Gas | -0.064 | ug/l | 50.02 |
| Cd | 111 | 115 | 1 | No Gas | 0.007 | ug/l | 37.23 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.001 | ug/l | 7.11 |
| Cd | 114 | 115 | 1 | No Gas | 0.016 | ug/l | 43.95 |
| Cd | 114 | 115 | 3 | He | -0.001 | ug/l | 10.06 |
| Sn | 118 | 115 | 1 | No Gas | 0.426 | ug/l | 9900.55 |
| Sn | 118 | 115 | 3 | He | 0.457 | ug/l | 2824.75 |
| Sb | 121 | 115 | 1 | No Gas | 0.000 | ug/l | 852.45 |
| Sb | 121 | 115 | 3 | He | 0.004 | ug/l | 218.36 |
| Sb | 123 | 115 | 1 | No Gas | 0.003 | ug/l | 693.09 |
| Sb | 123 | 115 | 3 | He | 0.008 | ug/l | 192.69 |
| Ba | 135 | 115 | 1 | No Gas | 0.018 | ug/l | 149.70 |
| Ba | 137 | 115 | 1 | No Gas | 0.028 | ug/l | 332.68 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 31.11 |
| Ce | 140 | 115 | 3 | He | 0.001 | ug/l | 68.89 |
| Hg | 201 | 209 | 1 | No Gas | 0.016 | ug/l | 88.98 |
| Hg | 202 | 209 | 1 | No Gas | 0.020 | ug/l | 270.28 |
| Hg | 202 | 209 | 3 | He | 0.019 | ug/l | 112.65 |
| Tl | 203 | 209 | 3 | He | 0.046 | ug/l | 1097.16 |
| Tl | 205 | 209 | 1 | No Gas | 0.040 | ug/l | 4637.51 |
| Tl | 205 | 209 | 3 | He | 0.043 | ug/l | 2576.62 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.046 | ug/l | 1408.97 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.048 | ug/l | 1260.07 |
| Pb | 208 | 209 | 1 | No Gas | 0.045 | ug/l | 5658.28 |
| Th | 232 | 209 | 3 | He | 0.016 | ug/l | 1141.18 |
| U | 238 | 209 | 1 | No Gas | 0.001 | ug/l | 128.31 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4940597.32 | 87.6 |
| Sc | 45 | 2 | H2 | 2478389.46 | 90.3 |
| Sc | 45 | 3 | He | 265519.79 | 83.4 |
| Ge | 72 | 1 | No Gas | 1369856.09 | 90.6 |
| Ge | 72 | 2 | H2 | 920872.81 | 92.8 |
| Ge | 72 | 3 | He | 194301.74 | 87.3 |
| In | 115 | 1 | No Gas | 11405127.56 | 93.7 |
| In | 115 | 3 | He | 2414883.47 | 91.6 |
| Tb | 159 | 1 | No Gas | 16258552.77 | 99.5 |
| Tb | 159 | 3 | He | 6642807.16 | 97.2 |
| Ho | 165 | 1 | No Gas | 15273155.43 | 100.1 |
| Ho | 165 | 3 | He | 6309926.89 | 95.4 |
| Lu | 175 | 1 | No Gas | 15702841.98 | 100.9 |
| Lu | 175 | 3 | He | 5292525.88 | 98.8 |
| Bi | 209 | 1 | No Gas | 11136656.38 | 98.4 |
| Bi | 209 | 3 | He | 4962941.69 | 99.0 |

ICPMS207-B Analytical Data

Sample Name LCS4-163063
File Name 041LCS4.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 20:11:53
Sample Type LCS4
Total Dilution 1.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 79.815 | ug/l | 599961.86 |
| Be | 9 | 45 | 1 | No Gas | 41.417 | ug/l | 129499.27 |
| B | 11 | 45 | 1 | No Gas | 88.699 | ug/l | 174936.29 |
| Na | 23 | 45 | 3 | He | 4986.316 | ug/l | 3618895.60 |
| Mg | 24 | 45 | 3 | He | 4950.830 | ug/l | 1962623.83 |
| Al | 27 | 45 | 1 | No Gas | 453.656 | ug/l | 8073349.67 |
| Si | 28 | 45 | 2 | H2 | 1251.229 | ug/l | 1861192.71 |
| K | 39 | 72 | 3 | He | 4563.819 | ug/l | 2082750.56 |
| Ca | 40 | 72 | 2 | H2 | 5695.831 | ug/l | 36908850.89 |
| Ti | 47 | 72 | 1 | No Gas | 87.555 | ug/l | 195263.93 |
| V | 51 | 72 | 1 | No Gas | 96.003 | ug/l | 2595118.20 |
| V | 51 | 72 | 3 | He | 95.474 | ug/l | 428942.96 |
| Cr | 52 | 72 | 1 | No Gas | 96.785 | ug/l | 2554068.18 |
| Cr | 52 | 72 | 3 | He | 96.022 | ug/l | 478389.01 |
| Mn | 55 | 72 | 1 | No Gas | 506.415 | ug/l | 17284635.34 |
| Mn | 55 | 72 | 3 | He | 487.951 | ug/l | 1575493.71 |
| Fe | 56 | 72 | 2 | H2 | 602.222 | ug/l | 8915658.15 |
| Fe | 56 | 72 | 3 | He | 508.744 | ug/l | 2247769.17 |
| Co | 59 | 72 | 1 | No Gas | 99.544 | ug/l | 2872401.96 |
| Ni | 60 | 72 | 1 | No Gas | 97.702 | ug/l | 643367.90 |
| Ni | 60 | 72 | 3 | He | 99.144 | ug/l | 203193.61 |
| Cu | 63 | 72 | 1 | No Gas | 98.075 | ug/l | 1554384.30 |
| Cu | 63 | 72 | 3 | He | 101.541 | ug/l | 548043.75 |
| Cu | 65 | 72 | 1 | No Gas | 95.791 | ug/l | 747384.48 |
| Zn | 66 | 72 | 1 | No Gas | 94.192 | ug/l | 508592.02 |
| Zn | 66 | 72 | 3 | He | 97.506 | ug/l | 110471.64 |
| As | 75 | 72 | 1 | No Gas | 95.692 | ug/l | 625745.61 |
| As | 75 | 72 | 3 | He | 97.510 | ug/l | 95465.59 |
| Se | 78 | 72 | 2 | H2 | 117.407 | ug/l | 63010.29 |
| Br | 79 | 72 | 1 | No Gas | 4.549 | ug/l | 121171.77 |
| Br | 79 | 72 | 2 | H2 | 4.635 | ug/l | 57376.57 |
| Se | 82 | 72 | 1 | No Gas | 98.011 | ug/l | 36628.84 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 51075.70 |
| Sr | 88 | 72 | 1 | No Gas | 104.952 | ug/l | 4821324.35 |
| Sr | 88 | 72 | 3 | He | 103.057 | ug/l | 522634.32 |
| Mo | 95 | 115 | 1 | No Gas | 94.203 | ug/l | 950128.56 |
| Mo | 95 | 115 | 3 | He | 99.416 | ug/l | 344284.13 |
| Mo | 98 | 115 | 1 | No Gas | 94.290 | ug/l | 1547847.32 |
| Ag | 107 | 115 | 1 | No Gas | 9.614 | ug/l | 249991.59 |
| Ag | 109 | 115 | 1 | No Gas | 9.468 | ug/l | 239289.12 |
| Cd | 111 | 115 | 1 | No Gas | 48.211 | ug/l | 280670.52 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|------------|
| Cd | 111 | 115 | 3 | He | 50.614 | ug/l | 92532.26 |
| Cd | 114 | 115 | 1 | No Gas | 49.272 | ug/l | 634236.37 |
| Cd | 114 | 115 | 3 | He | 51.012 | ug/l | 228945.02 |
| Sn | 118 | 115 | 1 | No Gas | 99.186 | ug/l | 1640908.34 |
| Sn | 118 | 115 | 3 | He | 102.105 | ug/l | 433925.77 |
| Sb | 121 | 115 | 1 | No Gas | 100.120 | ug/l | 2608470.68 |
| Sb | 121 | 115 | 3 | He | 100.093 | ug/l | 660778.93 |
| Sb | 123 | 115 | 1 | No Gas | 100.284 | ug/l | 2009958.11 |
| Sb | 123 | 115 | 3 | He | 101.740 | ug/l | 530796.99 |
| Ba | 135 | 115 | 1 | No Gas | 93.678 | ug/l | 477361.46 |
| Ba | 137 | 115 | 1 | No Gas | 93.448 | ug/l | 846820.05 |
| La | 139 | 115 | 3 | He | 107.559 | ug/l | 2581479.70 |
| Ce | 140 | 115 | 3 | He | 109.573 | ug/l | 2877097.98 |
| Hg | 201 | 209 | 1 | No Gas | 0.017 | ug/l | 91.31 |
| Hg | 202 | 209 | 1 | No Gas | 0.019 | ug/l | 257.95 |
| Hg | 202 | 209 | 3 | He | 0.021 | ug/l | 116.65 |
| Tl | 203 | 209 | 3 | He | 100.396 | ug/l | 1066586.88 |
| Tl | 205 | 209 | 1 | No Gas | 100.984 | ug/l | 5147333.05 |
| Tl | 205 | 209 | 3 | He | 102.619 | ug/l | 2583857.63 |
| [Pb] | 206 | 209 | 1 | No Gas | 101.594 | ug/l | 1820725.30 |
| [Pb] | 207 | 209 | 1 | No Gas | 101.802 | ug/l | 1591818.83 |
| Pb | 208 | 209 | 1 | No Gas | 101.343 | ug/l | 7318301.37 |
| Th | 232 | 209 | 3 | He | 101.831 | ug/l | 3612045.98 |
| U | 238 | 209 | 1 | No Gas | 103.386 | ug/l | 7437911.67 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4803886.00 | 85.2 |
| Sc | 45 | 2 | H2 | 2268068.27 | 82.6 |
| Sc | 45 | 3 | He | 265802.55 | 83.5 |
| Ge | 72 | 1 | No Gas | 1359424.03 | 89.9 |
| Ge | 72 | 2 | H2 | 879752.24 | 88.7 |
| Ge | 72 | 3 | He | 200924.32 | 90.2 |
| In | 115 | 1 | No Gas | 11578029.07 | 95.1 |
| In | 115 | 3 | He | 2329303.34 | 88.4 |
| Tb | 159 | 1 | No Gas | 16300403.79 | 99.7 |
| Tb | 159 | 3 | He | 6619271.80 | 96.9 |
| Ho | 165 | 1 | No Gas | 15489131.29 | 101.6 |
| Ho | 165 | 3 | He | 6330729.46 | 95.7 |
| Lu | 175 | 1 | No Gas | 15863733.80 | 101.9 |
| Lu | 175 | 3 | He | 5151770.34 | 96.2 |
| Bi | 209 | 1 | No Gas | 11029577.23 | 97.4 |
| Bi | 209 | 3 | He | 4811143.82 | 96.0 |

ICPMS207-B Analytical Data

Sample Name LCS4-163116
File Name 042LCS4.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 20:18:08
Sample Type LCS4
Total Dilution 1.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 71.846 | ug/l | 583891.60 |
| Be | 9 | 45 | 1 | No Gas | 37.565 | ug/l | 126583.30 |
| B | 11 | 45 | 1 | No Gas | 79.887 | ug/l | 170306.00 |
| Na | 23 | 45 | 3 | He | 4935.627 | ug/l | 3596573.45 |
| Mg | 24 | 45 | 3 | He | 4943.199 | ug/l | 1964285.21 |
| Al | 27 | 45 | 1 | No Gas | 402.018 | ug/l | 7711383.70 |
| Si | 28 | 45 | 2 | H2 | 1101.137 | ug/l | 1880485.00 |
| K | 39 | 72 | 3 | He | 4742.655 | ug/l | 2145684.46 |
| Ca | 40 | 72 | 2 | H2 | 5357.573 | ug/l | 38411838.82 |
| Ti | 47 | 72 | 1 | No Gas | 86.893 | ug/l | 207923.90 |
| V | 51 | 72 | 1 | No Gas | 90.063 | ug/l | 2602461.39 |
| V | 51 | 72 | 3 | He | 97.931 | ug/l | 436461.91 |
| Cr | 52 | 72 | 1 | No Gas | 89.795 | ug/l | 2542838.37 |
| Cr | 52 | 72 | 3 | He | 98.350 | ug/l | 486468.56 |
| Mn | 55 | 72 | 1 | No Gas | 472.446 | ug/l | 17271355.86 |
| Mn | 55 | 72 | 3 | He | 499.686 | ug/l | 1601375.79 |
| Fe | 56 | 72 | 2 | H2 | 557.915 | ug/l | 9154015.78 |
| Fe | 56 | 72 | 3 | He | 511.770 | ug/l | 2244785.62 |
| Co | 59 | 72 | 1 | No Gas | 92.676 | ug/l | 2856091.64 |
| Ni | 60 | 72 | 1 | No Gas | 91.749 | ug/l | 645864.21 |
| Ni | 60 | 72 | 3 | He | 101.302 | ug/l | 206159.85 |
| Cu | 63 | 72 | 1 | No Gas | 93.924 | ug/l | 1594276.04 |
| Cu | 63 | 72 | 3 | He | 104.038 | ug/l | 557299.43 |
| Cu | 65 | 72 | 1 | No Gas | 92.640 | ug/l | 773848.50 |
| Zn | 66 | 72 | 1 | No Gas | 89.124 | ug/l | 515242.98 |
| Zn | 66 | 72 | 3 | He | 99.547 | ug/l | 111951.78 |
| As | 75 | 72 | 1 | No Gas | 92.798 | ug/l | 648793.98 |
| As | 75 | 72 | 3 | He | 100.713 | ug/l | 97855.04 |
| Se | 78 | 72 | 2 | H2 | 109.484 | ug/l | 64780.28 |
| Br | 79 | 72 | 1 | No Gas | 3.701 | ug/l | 118863.65 |
| Br | 79 | 72 | 2 | H2 | 3.625 | ug/l | 55866.89 |
| Se | 82 | 72 | 1 | No Gas | 94.726 | ug/l | 37924.79 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 51840.24 |
| Sr | 88 | 72 | 1 | No Gas | 99.113 | ug/l | 4874962.13 |
| Sr | 88 | 72 | 3 | He | 106.001 | ug/l | 533408.68 |
| Mo | 95 | 115 | 1 | No Gas | 93.423 | ug/l | 970341.31 |
| Mo | 95 | 115 | 3 | He | 99.549 | ug/l | 345671.51 |
| Mo | 98 | 115 | 1 | No Gas | 93.303 | ug/l | 1579452.86 |
| Ag | 107 | 115 | 1 | No Gas | 9.573 | ug/l | 256871.25 |
| Ag | 109 | 115 | 1 | No Gas | 9.428 | ug/l | 245669.03 |
| Cd | 111 | 115 | 1 | No Gas | 47.443 | ug/l | 285025.78 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|------------|
| Cd | 111 | 115 | 3 | He | 51.369 | ug/l | 94174.24 |
| Cd | 114 | 115 | 1 | No Gas | 48.498 | ug/l | 644783.60 |
| Cd | 114 | 115 | 3 | He | 51.536 | ug/l | 231974.20 |
| Sn | 118 | 115 | 1 | No Gas | 99.520 | ug/l | 1698052.13 |
| Sn | 118 | 115 | 3 | He | 104.805 | ug/l | 447010.33 |
| Sb | 121 | 115 | 1 | No Gas | 97.650 | ug/l | 2625462.92 |
| Sb | 121 | 115 | 3 | He | 102.411 | ug/l | 678262.38 |
| Sb | 123 | 115 | 1 | No Gas | 98.559 | ug/l | 2038517.03 |
| Sb | 123 | 115 | 3 | He | 104.202 | ug/l | 545177.64 |
| Ba | 135 | 115 | 1 | No Gas | 92.296 | ug/l | 485125.39 |
| Ba | 137 | 115 | 1 | No Gas | 92.062 | ug/l | 860853.19 |
| La | 139 | 115 | 3 | He | 109.458 | ug/l | 2636276.26 |
| Ce | 140 | 115 | 3 | He | 110.711 | ug/l | 2914942.21 |
| Hg | 201 | 209 | 1 | No Gas | 0.014 | ug/l | 85.31 |
| Hg | 202 | 209 | 1 | No Gas | 0.019 | ug/l | 269.62 |
| Hg | 202 | 209 | 3 | He | 0.020 | ug/l | 111.31 |
| Tl | 203 | 209 | 3 | He | 103.513 | ug/l | 1078199.77 |
| Tl | 205 | 209 | 1 | No Gas | 99.942 | ug/l | 5345767.66 |
| Tl | 205 | 209 | 3 | He | 105.889 | ug/l | 2613125.46 |
| [Pb] | 206 | 209 | 1 | No Gas | 98.894 | ug/l | 1855411.09 |
| [Pb] | 207 | 209 | 1 | No Gas | 97.669 | ug/l | 1601394.25 |
| Pb | 208 | 209 | 1 | No Gas | 98.164 | ug/l | 7430590.66 |
| Th | 232 | 209 | 3 | He | 104.948 | ug/l | 3645973.22 |
| U | 238 | 209 | 1 | No Gas | 99.559 | ug/l | 7497175.40 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5234774.34 | 92.8 |
| Sc | 45 | 2 | H2 | 2270213.22 | 82.7 |
| Sc | 45 | 3 | He | 267071.02 | 83.9 |
| Ge | 72 | 1 | No Gas | 1464316.48 | 96.9 |
| Ge | 72 | 2 | H2 | 911878.09 | 91.9 |
| Ge | 72 | 3 | He | 199451.42 | 89.6 |
| In | 115 | 1 | No Gas | 12173196.58 | 100.0 |
| In | 115 | 3 | He | 2343445.42 | 88.9 |
| Tb | 159 | 1 | No Gas | 17594115.47 | 107.7 |
| Tb | 159 | 3 | He | 6505802.45 | 95.2 |
| Ho | 165 | 1 | No Gas | 16392392.76 | 107.5 |
| Ho | 165 | 3 | He | 6200739.06 | 93.7 |
| Lu | 175 | 1 | No Gas | 16496033.68 | 106.0 |
| Lu | 175 | 3 | He | 5094859.73 | 95.1 |
| Bi | 209 | 1 | No Gas | 11658967.51 | 103.0 |
| Bi | 209 | 3 | He | 4722757.46 | 94.2 |

ICPMS207-B Analytical Data

Sample Name Rinse
File Name 043BLKV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 20:24:22
Sample Type BIKVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | -0.204 | ug/l | 13839.17 |
| Be | 9 | 45 | 1 | No Gas | -0.040 | ug/l | 87.32 |
| B | 11 | 45 | 1 | No Gas | 0.117 | ug/l | 5656.00 |
| Na | 23 | 45 | 3 | He | 3.119 | ug/l | 47266.30 |
| Mg | 24 | 45 | 3 | He | -0.156 | ug/l | 1653.49 |
| Al | 27 | 45 | 1 | No Gas | 0.030 | ug/l | 16800.58 |
| Si | 28 | 45 | 2 | H2 | 0.576 | ug/l | 8339.65 |
| K | 39 | 72 | 3 | He | -16.434 | ug/l | 72839.72 |
| Ca | 40 | 72 | 2 | H2 | -0.654 | ug/l | 95894.82 |
| Ti | 47 | 72 | 1 | No Gas | 0.012 | ug/l | 248.59 |
| V | 51 | 72 | 1 | No Gas | 1.569 | ug/l | -10290.30 |
| V | 51 | 72 | 3 | He | -2.121 | ug/l | 5295.43 |
| Cr | 52 | 72 | 1 | No Gas | -1.732 | ug/l | 48350.56 |
| Cr | 52 | 72 | 3 | He | -0.010 | ug/l | 794.47 |
| Mn | 55 | 72 | 1 | No Gas | 0.166 | ug/l | 17209.30 |
| Mn | 55 | 72 | 3 | He | 0.141 | ug/l | 638.22 |
| Fe | 56 | 72 | 2 | H2 | 0.171 | ug/l | 13282.77 |
| Fe | 56 | 72 | 3 | He | 0.017 | ug/l | 5750.27 |
| Co | 59 | 72 | 1 | No Gas | 0.001 | ug/l | 582.19 |
| Ni | 60 | 72 | 1 | No Gas | 0.004 | ug/l | 525.63 |
| Ni | 60 | 72 | 3 | He | 0.004 | ug/l | 104.44 |
| Cu | 63 | 72 | 1 | No Gas | -0.001 | ug/l | 2021.62 |
| Cu | 63 | 72 | 3 | He | -0.008 | ug/l | 613.56 |
| Cu | 65 | 72 | 1 | No Gas | -0.012 | ug/l | 863.71 |
| Zn | 66 | 72 | 1 | No Gas | 0.089 | ug/l | 1563.11 |
| Zn | 66 | 72 | 3 | He | 0.069 | ug/l | 303.34 |
| As | 75 | 72 | 1 | No Gas | -0.632 | ug/l | 9790.47 |
| As | 75 | 72 | 3 | He | -0.095 | ug/l | 174.20 |
| Se | 78 | 72 | 2 | H2 | 0.000 | ug/l | 33.89 |
| Br | 79 | 72 | 1 | No Gas | 23.041 | ug/l | 392709.13 |
| Br | 79 | 72 | 2 | H2 | 23.669 | ug/l | 212111.36 |
| Se | 82 | 72 | 1 | No Gas | 0.060 | ug/l | 770.35 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 20990.33 |
| Sr | 88 | 72 | 1 | No Gas | 0.001 | ug/l | 845.02 |
| Sr | 88 | 72 | 3 | He | -0.001 | ug/l | 277.78 |
| Mo | 95 | 115 | 1 | No Gas | 0.017 | ug/l | 253.34 |
| Mo | 95 | 115 | 3 | He | 0.011 | ug/l | 64.45 |
| Mo | 98 | 115 | 1 | No Gas | 0.017 | ug/l | 415.92 |
| Ag | 107 | 115 | 1 | No Gas | -0.001 | ug/l | 1924.91 |
| Ag | 109 | 115 | 1 | No Gas | 0.002 | ug/l | 1891.56 |
| Cd | 111 | 115 | 1 | No Gas | 0.004 | ug/l | 23.03 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.006 | ug/l | 19.00 |
| Cd | 114 | 115 | 1 | No Gas | 0.007 | ug/l | -74.23 |
| Cd | 114 | 115 | 3 | He | 0.006 | ug/l | 42.21 |
| Sn | 118 | 115 | 1 | No Gas | 0.026 | ug/l | 3796.34 |
| Sn | 118 | 115 | 3 | He | 0.005 | ug/l | 897.81 |
| Sb | 121 | 115 | 1 | No Gas | 0.151 | ug/l | 5332.91 |
| Sb | 121 | 115 | 3 | He | 0.111 | ug/l | 1019.14 |
| Sb | 123 | 115 | 1 | No Gas | 0.154 | ug/l | 4161.06 |
| Sb | 123 | 115 | 3 | He | 0.114 | ug/l | 815.77 |
| Ba | 135 | 115 | 1 | No Gas | 0.002 | ug/l | 83.17 |
| Ba | 137 | 115 | 1 | No Gas | 0.003 | ug/l | 129.74 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 35.56 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 34.44 |
| Hg | 201 | 209 | 1 | No Gas | 0.002 | ug/l | 37.99 |
| Hg | 202 | 209 | 1 | No Gas | 0.001 | ug/l | 110.98 |
| Hg | 202 | 209 | 3 | He | 0.003 | ug/l | 46.66 |
| Tl | 203 | 209 | 3 | He | 0.247 | ug/l | 3532.56 |
| Tl | 205 | 209 | 1 | No Gas | 0.227 | ug/l | 15814.22 |
| Tl | 205 | 209 | 3 | He | 0.245 | ug/l | 8364.68 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.021 | ug/l | 1057.83 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.019 | ug/l | 880.04 |
| Pb | 208 | 209 | 1 | No Gas | 0.018 | ug/l | 4094.73 |
| Th | 232 | 209 | 3 | He | 0.022 | ug/l | 1446.00 |
| U | 238 | 209 | 1 | No Gas | 0.002 | ug/l | 296.95 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5444318.27 | 96.6 |
| Sc | 45 | 2 | H2 | 2669635.46 | 97.3 |
| Sc | 45 | 3 | He | 293272.38 | 92.1 |
| Ge | 72 | 1 | No Gas | 1500718.08 | 99.3 |
| Ge | 72 | 2 | H2 | 989469.31 | 99.7 |
| Ge | 72 | 3 | He | 215023.23 | 96.6 |
| In | 115 | 1 | No Gas | 12691044.46 | 104.3 |
| In | 115 | 3 | He | 2577525.22 | 97.8 |
| Tb | 159 | 1 | No Gas | 17339916.81 | 106.1 |
| Tb | 159 | 3 | He | 6971725.54 | 102.0 |
| Ho | 165 | 1 | No Gas | 16361091.56 | 107.3 |
| Ho | 165 | 3 | He | 6848434.81 | 103.5 |
| Lu | 175 | 1 | No Gas | 16490589.80 | 106.0 |
| Lu | 175 | 3 | He | 5592209.41 | 104.4 |
| Bi | 209 | 1 | No Gas | 12206490.95 | 107.8 |
| Bi | 209 | 3 | He | 5310200.10 | 105.9 |

ICPMS207-B Analytical Data

Sample Name B22011124-001A
File Name 044SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 20:30:36
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | -0.281 | ug/l | 15503.43 |
| Be | 9 | 45 | 1 | No Gas | -0.047 | ug/l | 72.32 |
| B | 11 | 45 | 1 | No Gas | 58.409 | ug/l | 157970.54 |
| Na | 23 | 45 | 3 | He | 36846.306 | ug/l | 35032850.59 |
| Mg | 24 | 45 | 3 | He | 10951.950 | ug/l | 5738201.61 |
| Al | 27 | 45 | 1 | No Gas | 1.400 | ug/l | 52657.46 |
| Si | 28 | 45 | 2 | H2 | 24608.616 | ug/l | 54495538.30 |
| K | 39 | 72 | 3 | He | 1949.312 | ug/l | 1097075.40 |
| Ca | 40 | 72 | 2 | H2 | 9723.114 | ug/l | 78665263.33 |
| Ti | 47 | 72 | 1 | No Gas | 1.801 | ug/l | 4969.19 |
| V | 51 | 72 | 1 | No Gas | 21.307 | ug/l | 631136.73 |
| V | 51 | 72 | 3 | He | 17.258 | ug/l | 104843.37 |
| Cr | 52 | 72 | 1 | No Gas | -0.367 | ug/l | 92227.98 |
| Cr | 52 | 72 | 3 | He | 1.809 | ug/l | 11511.22 |
| Mn | 55 | 72 | 1 | No Gas | 0.410 | ug/l | 28074.48 |
| Mn | 55 | 72 | 3 | He | 0.496 | ug/l | 2049.40 |
| Fe | 56 | 72 | 2 | H2 | 1.158 | ug/l | 32039.59 |
| Fe | 56 | 72 | 3 | He | 1.015 | ug/l | 11491.13 |
| Co | 59 | 72 | 1 | No Gas | 0.031 | ug/l | 1653.49 |
| Ni | 60 | 72 | 1 | No Gas | 1.748 | ug/l | 14082.24 |
| Ni | 60 | 72 | 3 | He | 1.756 | ug/l | 4338.45 |
| Cu | 63 | 72 | 1 | No Gas | 0.491 | ug/l | 11328.28 |
| Cu | 63 | 72 | 3 | He | 0.298 | ug/l | 2615.05 |
| Cu | 65 | 72 | 1 | No Gas | 0.336 | ug/l | 4116.25 |
| Zn | 66 | 72 | 1 | No Gas | 4.427 | ug/l | 29221.46 |
| Zn | 66 | 72 | 3 | He | 4.587 | ug/l | 6341.41 |
| As | 75 | 72 | 1 | No Gas | -0.177 | ug/l | 13800.55 |
| As | 75 | 72 | 3 | He | -0.119 | ug/l | 163.20 |
| Se | 78 | 72 | 2 | H2 | 0.144 | ug/l | 131.67 |
| Br | 79 | 72 | 1 | No Gas | 20.710 | ug/l | 381327.42 |
| Br | 79 | 72 | 2 | H2 | 21.140 | ug/l | 199970.47 |
| Se | 82 | 72 | 1 | No Gas | 0.628 | ug/l | 1061.18 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 42782.06 |
| Sr | 88 | 72 | 1 | No Gas | 64.259 | ug/l | 3481012.54 |
| Sr | 88 | 72 | 3 | He | 65.719 | ug/l | 392011.01 |
| Mo | 95 | 115 | 1 | No Gas | 0.495 | ug/l | 5601.15 |
| Mo | 95 | 115 | 3 | He | 0.472 | ug/l | 1942.37 |
| Mo | 98 | 115 | 1 | No Gas | 0.468 | ug/l | 8612.30 |
| Ag | 107 | 115 | 1 | No Gas | -0.062 | ug/l | 163.40 |
| Ag | 109 | 115 | 1 | No Gas | -0.059 | ug/l | 181.41 |
| Cd | 111 | 115 | 1 | No Gas | 0.026 | ug/l | 162.11 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.026 | ug/l | 62.44 |
| Cd | 114 | 115 | 1 | No Gas | 0.038 | ug/l | 369.65 |
| Cd | 114 | 115 | 3 | He | 0.025 | ug/l | 148.51 |
| Sn | 118 | 115 | 1 | No Gas | -0.078 | ug/l | 1893.07 |
| Sn | 118 | 115 | 3 | He | -0.095 | ug/l | 454.46 |
| Sb | 121 | 115 | 1 | No Gas | 0.024 | ug/l | 1630.93 |
| Sb | 121 | 115 | 3 | He | 0.022 | ug/l | 393.05 |
| Sb | 123 | 115 | 1 | No Gas | 0.023 | ug/l | 1224.51 |
| Sb | 123 | 115 | 3 | He | 0.020 | ug/l | 292.70 |
| Ba | 135 | 115 | 1 | No Gas | 3.139 | ug/l | 17809.49 |
| Ba | 137 | 115 | 1 | No Gas | 3.061 | ug/l | 30886.47 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 20.00 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 33.33 |
| Hg | 201 | 209 | 1 | No Gas | 0.002 | ug/l | 35.99 |
| Hg | 202 | 209 | 1 | No Gas | 0.005 | ug/l | 139.64 |
| Hg | 202 | 209 | 3 | He | 0.006 | ug/l | 59.99 |
| Tl | 203 | 209 | 3 | He | 0.125 | ug/l | 1993.62 |
| Tl | 205 | 209 | 1 | No Gas | 0.093 | ug/l | 7645.65 |
| Tl | 205 | 209 | 3 | He | 0.120 | ug/l | 4663.36 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.013 | ug/l | 837.81 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.013 | ug/l | 734.47 |
| Pb | 208 | 209 | 1 | No Gas | 0.011 | ug/l | 3299.06 |
| Th | 232 | 209 | 3 | He | -0.002 | ug/l | 487.55 |
| U | 238 | 209 | 1 | No Gas | 0.010 | ug/l | 832.53 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 6402621.54 | 113.5 |
| Sc | 45 | 2 | H2 | 2930010.79 | 106.7 |
| Sc | 45 | 3 | He | 351162.29 | 110.3 |
| Ge | 72 | 1 | No Gas | 1588725.13 | 105.1 |
| Ge | 72 | 2 | H2 | 1025232.83 | 103.3 |
| Ge | 72 | 3 | He | 236224.69 | 106.1 |
| In | 115 | 1 | No Gas | 12636634.31 | 103.8 |
| In | 115 | 3 | He | 2734910.94 | 103.8 |
| Tb | 159 | 1 | No Gas | 17065177.28 | 104.4 |
| Tb | 159 | 3 | He | 7203874.40 | 105.4 |
| Ho | 165 | 1 | No Gas | 16100397.23 | 105.6 |
| Ho | 165 | 3 | He | 6861224.79 | 103.7 |
| Lu | 175 | 1 | No Gas | 16587333.83 | 106.6 |
| Lu | 175 | 3 | He | 5642538.07 | 105.4 |
| Bi | 209 | 1 | No Gas | 11523317.20 | 101.8 |
| Bi | 209 | 3 | He | 5045920.27 | 100.7 |

ICPMS207-B Analytical Data

Sample Name B22011124-001ADIL
File Name 045ARef.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 20:36:50
Sample Type AIRRef
Total Dilution 5.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|------------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | -0.401 | ug/l | 17250.68 |
| Be | 9 | 45 | 1 | No Gas | -0.182 | ug/l | 115.99 |
| B | 11 | 45 | 1 | No Gas | 296.506 | ug/l | 158000.47 |
| Na | 23 | 45 | 3 | He | 181800.160 | ug/l | 33855176.72 |
| Mg | 24 | 45 | 3 | He | 52834.244 | ug/l | 5422491.61 |
| Al | 27 | 45 | 1 | No Gas | 7.206 | ug/l | 52884.46 |
| Si | 28 | 45 | 2 | H2 | 124048.592 | ug/l | 54336827.48 |
| K | 39 | 72 | 3 | He | 9482.991 | ug/l | 1079700.92 |
| Ca | 40 | 72 | 2 | H2 | 49241.258 | ug/l | 78162846.76 |
| Ti | 47 | 72 | 1 | No Gas | 9.216 | ug/l | 4972.53 |
| V | 51 | 72 | 1 | No Gas | 107.830 | ug/l | 626099.47 |
| V | 51 | 72 | 3 | He | 85.577 | ug/l | 105061.52 |
| Cr | 52 | 72 | 1 | No Gas | -0.851 | ug/l | 96051.92 |
| Cr | 52 | 72 | 3 | He | 8.634 | ug/l | 11137.60 |
| Mn | 55 | 72 | 1 | No Gas | 2.058 | ug/l | 27521.21 |
| Mn | 55 | 72 | 3 | He | 2.387 | ug/l | 1997.74 |
| Fe | 56 | 72 | 2 | H2 | 5.833 | ug/l | 31589.31 |
| Fe | 56 | 72 | 3 | He | 5.112 | ug/l | 11629.65 |
| Co | 59 | 72 | 1 | No Gas | 0.156 | ug/l | 1623.53 |
| Ni | 60 | 72 | 1 | No Gas | 8.933 | ug/l | 14072.31 |
| Ni | 60 | 72 | 3 | He | 8.415 | ug/l | 4198.41 |
| Cu | 63 | 72 | 1 | No Gas | 2.576 | ug/l | 11529.86 |
| Cu | 63 | 72 | 3 | He | 1.549 | ug/l | 2715.05 |
| Cu | 65 | 72 | 1 | No Gas | 1.780 | ug/l | 4207.64 |
| Zn | 66 | 72 | 1 | No Gas | 22.460 | ug/l | 28997.98 |
| Zn | 66 | 72 | 3 | He | 22.900 | ug/l | 6388.10 |
| As | 75 | 72 | 1 | No Gas | -1.528 | ug/l | 12558.15 |
| As | 75 | 72 | 3 | He | -0.581 | ug/l | 168.27 |
| Se | 78 | 72 | 2 | H2 | 0.771 | ug/l | 135.55 |
| Br | 79 | 72 | 1 | No Gas | 98.250 | ug/l | 357857.84 |
| Br | 79 | 72 | 2 | H2 | 97.848 | ug/l | 184161.77 |
| Se | 82 | 72 | 1 | No Gas | 2.984 | ug/l | 1025.05 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 42474.80 |
| Sr | 88 | 72 | 1 | No Gas | 325.886 | ug/l | 3454945.67 |
| Sr | 88 | 72 | 3 | He | 323.273 | ug/l | 389260.54 |
| Mo | 95 | 115 | 1 | No Gas | 2.497 | ug/l | 5469.97 |
| Mo | 95 | 115 | 3 | He | 2.536 | ug/l | 2097.94 |
| Mo | 98 | 115 | 1 | No Gas | 2.401 | ug/l | 8565.47 |
| Ag | 107 | 115 | 1 | No Gas | -0.317 | ug/l | 119.38 |
| Ag | 109 | 115 | 1 | No Gas | -0.304 | ug/l | 128.72 |
| Cd | 111 | 115 | 1 | No Gas | 0.147 | ug/l | 180.41 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.117 | ug/l | 57.11 |
| Cd | 114 | 115 | 1 | No Gas | 0.194 | ug/l | 361.46 |
| Cd | 114 | 115 | 3 | He | 0.123 | ug/l | 144.42 |
| Sn | 118 | 115 | 1 | No Gas | -0.427 | ug/l | 1696.74 |
| Sn | 118 | 115 | 3 | He | -0.501 | ug/l | 428.90 |
| Sb | 121 | 115 | 1 | No Gas | 0.042 | ug/l | 1151.83 |
| Sb | 121 | 115 | 3 | He | 0.042 | ug/l | 286.36 |
| Sb | 123 | 115 | 1 | No Gas | 0.042 | ug/l | 867.78 |
| Sb | 123 | 115 | 3 | He | 0.042 | ug/l | 222.02 |
| Ba | 135 | 115 | 1 | No Gas | 15.502 | ug/l | 17046.69 |
| Ba | 137 | 115 | 1 | No Gas | 15.639 | ug/l | 30563.02 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 23.33 |
| Ce | 140 | 115 | 3 | He | 0.005 | ug/l | 66.67 |
| Hg | 201 | 209 | 1 | No Gas | 0.006 | ug/l | 33.66 |
| Hg | 202 | 209 | 1 | No Gas | 0.022 | ug/l | 133.31 |
| Hg | 202 | 209 | 3 | He | 0.019 | ug/l | 49.66 |
| Tl | 203 | 209 | 3 | He | 0.294 | ug/l | 1287.25 |
| Tl | 205 | 209 | 1 | No Gas | 0.185 | ug/l | 4560.84 |
| Tl | 205 | 209 | 3 | He | 0.268 | ug/l | 2975.53 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.059 | ug/l | 805.59 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.067 | ug/l | 721.14 |
| Pb | 208 | 209 | 1 | No Gas | 0.054 | ug/l | 3232.40 |
| Th | 232 | 209 | 3 | He | -0.031 | ug/l | 342.81 |
| U | 238 | 209 | 1 | No Gas | 0.046 | ug/l | 778.54 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 6307634.27 | 111.9 |
| Sc | 45 | 2 | H2 | 2897519.79 | 105.6 |
| Sc | 45 | 3 | He | 343874.68 | 108.0 |
| Ge | 72 | 1 | No Gas | 1554802.65 | 102.8 |
| Ge | 72 | 2 | H2 | 1005722.04 | 101.3 |
| Ge | 72 | 3 | He | 238487.30 | 107.1 |
| In | 115 | 1 | No Gas | 12234918.07 | 100.5 |
| In | 115 | 3 | He | 2748264.58 | 104.3 |
| Tb | 159 | 1 | No Gas | 17028967.12 | 104.2 |
| Tb | 159 | 3 | He | 7260477.72 | 106.3 |
| Ho | 165 | 1 | No Gas | 15991778.51 | 104.9 |
| Ho | 165 | 3 | He | 6923943.75 | 104.7 |
| Lu | 175 | 1 | No Gas | 16274444.70 | 104.6 |
| Lu | 175 | 3 | He | 5719935.15 | 106.8 |
| Bi | 209 | 1 | No Gas | 11308736.16 | 99.9 |
| Bi | 209 | 3 | He | 5161814.32 | 103.0 |

ICPMS207-B Analytical Data

Sample Name B22011124-001AMS
File Name 046MS.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 20:43:05
Sample Type MS
Total Dilution 1.0300
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 0.021 | ug/l | 17838.92 |
| Be | 9 | 45 | 1 | No Gas | 45.242 | ug/l | 179270.76 |
| B | 11 | 45 | 1 | No Gas | 100.694 | ug/l | 250885.13 |
| Na | 23 | 45 | 3 | He | 36791.657 | ug/l | 33261350.06 |
| Mg | 24 | 45 | 3 | He | 11044.717 | ug/l | 5502196.58 |
| Al | 27 | 45 | 1 | No Gas | 46.860 | ug/l | 1072117.22 |
| Si | 28 | 45 | 2 | H2 | 24610.779 | ug/l | 53177893.94 |
| K | 39 | 72 | 3 | He | 1965.328 | ug/l | 1073007.78 |
| Ca | 40 | 72 | 2 | H2 | 9604.639 | ug/l | 78316185.93 |
| Ti | 47 | 72 | 1 | No Gas | 48.648 | ug/l | 123563.70 |
| V | 51 | 72 | 1 | No Gas | 71.480 | ug/l | 2179065.02 |
| V | 51 | 72 | 3 | He | 68.559 | ug/l | 355869.64 |
| Cr | 52 | 72 | 1 | No Gas | 50.476 | ug/l | 1565468.67 |
| Cr | 52 | 72 | 3 | He | 51.063 | ug/l | 290214.42 |
| Mn | 55 | 72 | 1 | No Gas | 51.211 | ug/l | 1998932.94 |
| Mn | 55 | 72 | 3 | He | 51.042 | ug/l | 187831.27 |
| Fe | 56 | 72 | 2 | H2 | 53.310 | ug/l | 1005498.05 |
| Fe | 56 | 72 | 3 | He | 51.739 | ug/l | 265969.08 |
| Co | 59 | 72 | 1 | No Gas | 49.805 | ug/l | 1635079.61 |
| Ni | 60 | 72 | 1 | No Gas | 51.088 | ug/l | 382214.88 |
| Ni | 60 | 72 | 3 | He | 52.049 | ug/l | 121576.33 |
| Cu | 63 | 72 | 1 | No Gas | 52.341 | ug/l | 943808.23 |
| Cu | 63 | 72 | 3 | He | 51.766 | ug/l | 318543.94 |
| Cu | 65 | 72 | 1 | No Gas | 50.817 | ug/l | 451227.87 |
| Zn | 66 | 72 | 1 | No Gas | 54.726 | ug/l | 336232.41 |
| Zn | 66 | 72 | 3 | He | 56.738 | ug/l | 73285.62 |
| As | 75 | 72 | 1 | No Gas | 49.893 | ug/l | 378207.42 |
| As | 75 | 72 | 3 | He | 49.814 | ug/l | 55695.10 |
| Se | 78 | 72 | 2 | H2 | 51.614 | ug/l | 34775.23 |
| Br | 79 | 72 | 1 | No Gas | 20.638 | ug/l | 368563.08 |
| Br | 79 | 72 | 2 | H2 | 19.746 | ug/l | 191582.84 |
| Se | 82 | 72 | 1 | No Gas | 50.675 | ug/l | 21894.52 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 60609.93 |
| Sr | 88 | 72 | 1 | No Gas | 118.655 | ug/l | 6193354.91 |
| Sr | 88 | 72 | 3 | He | 116.879 | ug/l | 674939.21 |
| Mo | 95 | 115 | 1 | No Gas | 48.024 | ug/l | 517181.17 |
| Mo | 95 | 115 | 3 | He | 47.487 | ug/l | 183396.91 |
| Mo | 98 | 115 | 1 | No Gas | 47.494 | ug/l | 832701.91 |
| Ag | 107 | 115 | 1 | No Gas | 19.883 | ug/l | 550334.05 |
| Ag | 109 | 115 | 1 | No Gas | 19.572 | ug/l | 525843.33 |
| Cd | 111 | 115 | 1 | No Gas | 50.161 | ug/l | 311991.86 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Cd | 111 | 115 | 3 | He | 49.654 | ug/l | 101213.23 |
| Cd | 114 | 115 | 1 | No Gas | 50.891 | ug/l | 699871.13 |
| Cd | 114 | 115 | 3 | He | 49.564 | ug/l | 248043.33 |
| Sn | 118 | 115 | 1 | No Gas | 45.217 | ug/l | 800342.66 |
| Sn | 118 | 115 | 3 | He | 45.659 | ug/l | 216836.57 |
| Sb | 121 | 115 | 1 | No Gas | 49.747 | ug/l | 1384748.95 |
| Sb | 121 | 115 | 3 | He | 47.973 | ug/l | 353243.57 |
| Sb | 123 | 115 | 1 | No Gas | 49.045 | ug/l | 1050475.33 |
| Sb | 123 | 115 | 3 | He | 48.121 | ug/l | 280023.84 |
| Ba | 135 | 115 | 1 | No Gas | 53.068 | ug/l | 289070.11 |
| Ba | 137 | 115 | 1 | No Gas | 52.207 | ug/l | 505665.11 |
| La | 139 | 115 | 3 | He | 0.002 | ug/l | 72.22 |
| Ce | 140 | 115 | 3 | He | 51.149 | ug/l | 1497394.58 |
| Hg | 201 | 209 | 1 | No Gas | 0.967 | ug/l | 3695.44 |
| Hg | 202 | 209 | 1 | No Gas | 0.964 | ug/l | 8475.33 |
| Hg | 202 | 209 | 3 | He | 0.975 | ug/l | 4149.82 |
| Tl | 203 | 209 | 3 | He | 48.347 | ug/l | 525330.20 |
| Tl | 205 | 209 | 1 | No Gas | 49.537 | ug/l | 2571973.24 |
| Tl | 205 | 209 | 3 | He | 49.100 | ug/l | 1264181.46 |
| [Pb] | 206 | 209 | 1 | No Gas | 50.375 | ug/l | 918537.50 |
| [Pb] | 207 | 209 | 1 | No Gas | 50.134 | ug/l | 799100.66 |
| Pb | 208 | 209 | 1 | No Gas | 49.398 | ug/l | 3636243.96 |
| Th | 232 | 209 | 3 | He | 48.093 | ug/l | 1743713.70 |
| U | 238 | 209 | 1 | No Gas | 48.915 | ug/l | 3581807.35 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 6171347.52 | 109.4 |
| Sc | 45 | 2 | H2 | 2944507.92 | 107.3 |
| Sc | 45 | 3 | He | 343922.84 | 108.0 |
| Ge | 72 | 1 | No Gas | 1577032.38 | 104.3 |
| Ge | 72 | 2 | H2 | 1064083.19 | 107.2 |
| Ge | 72 | 3 | He | 235616.58 | 105.8 |
| In | 115 | 1 | No Gas | 12530532.12 | 102.9 |
| In | 115 | 3 | He | 2674226.24 | 101.5 |
| Tb | 159 | 1 | No Gas | 17214987.71 | 105.3 |
| Tb | 159 | 3 | He | 7179904.44 | 105.1 |
| Ho | 165 | 1 | No Gas | 16230385.23 | 106.4 |
| Ho | 165 | 3 | He | 6825146.47 | 103.2 |
| Lu | 175 | 1 | No Gas | 16680917.00 | 107.2 |
| Lu | 175 | 3 | He | 5644884.27 | 105.4 |
| Bi | 209 | 1 | No Gas | 11404210.35 | 100.7 |
| Bi | 209 | 3 | He | 5059802.25 | 100.9 |

ICPMS207-B Analytical Data

Sample Name B22011124-001AMSD
File Name 047MSD.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 20:49:19
Sample Type MSD
Total Dilution 1.0300
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 0.168 | ug/l | 18883.91 |
| Be | 9 | 45 | 1 | No Gas | 50.133 | ug/l | 195221.99 |
| B | 11 | 45 | 1 | No Gas | 110.626 | ug/l | 270189.62 |
| Na | 23 | 45 | 3 | He | 36898.931 | ug/l | 33224504.50 |
| Mg | 24 | 45 | 3 | He | 10692.799 | ug/l | 5305279.06 |
| Al | 27 | 45 | 1 | No Gas | 49.669 | ug/l | 1115845.36 |
| Si | 28 | 45 | 2 | H2 | 25206.432 | ug/l | 53380510.98 |
| K | 39 | 72 | 3 | He | 1928.071 | ug/l | 1063102.87 |
| Ca | 40 | 72 | 2 | H2 | 9522.653 | ug/l | 77467707.48 |
| Ti | 47 | 72 | 1 | No Gas | 48.592 | ug/l | 120948.55 |
| V | 51 | 72 | 1 | No Gas | 72.467 | ug/l | 2167360.80 |
| V | 51 | 72 | 3 | He | 67.306 | ug/l | 352571.87 |
| Cr | 52 | 72 | 1 | No Gas | 51.101 | ug/l | 1551779.66 |
| Cr | 52 | 72 | 3 | He | 51.298 | ug/l | 293923.99 |
| Mn | 55 | 72 | 1 | No Gas | 50.631 | ug/l | 1936577.75 |
| Mn | 55 | 72 | 3 | He | 50.034 | ug/l | 185651.21 |
| Fe | 56 | 72 | 2 | H2 | 53.093 | ug/l | 999165.12 |
| Fe | 56 | 72 | 3 | He | 52.156 | ug/l | 270298.39 |
| Co | 59 | 72 | 1 | No Gas | 50.423 | ug/l | 1622258.35 |
| Ni | 60 | 72 | 1 | No Gas | 53.069 | ug/l | 389109.24 |
| Ni | 60 | 72 | 3 | He | 51.788 | ug/l | 121963.34 |
| Cu | 63 | 72 | 1 | No Gas | 52.777 | ug/l | 932580.99 |
| Cu | 63 | 72 | 3 | He | 51.425 | ug/l | 319049.03 |
| Cu | 65 | 72 | 1 | No Gas | 51.320 | ug/l | 446646.92 |
| Zn | 66 | 72 | 1 | No Gas | 55.799 | ug/l | 335860.49 |
| Zn | 66 | 72 | 3 | He | 55.608 | ug/l | 72438.23 |
| As | 75 | 72 | 1 | No Gas | 49.823 | ug/l | 370133.24 |
| As | 75 | 72 | 3 | He | 49.615 | ug/l | 55931.88 |
| Se | 78 | 72 | 2 | H2 | 51.186 | ug/l | 34412.35 |
| Br | 79 | 72 | 1 | No Gas | 21.024 | ug/l | 366822.67 |
| Br | 79 | 72 | 2 | H2 | 19.499 | ug/l | 189226.80 |
| Se | 82 | 72 | 1 | No Gas | 51.082 | ug/l | 21625.25 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 59236.93 |
| Sr | 88 | 72 | 1 | No Gas | 115.250 | ug/l | 5895663.62 |
| Sr | 88 | 72 | 3 | He | 115.276 | ug/l | 671137.80 |
| Mo | 95 | 115 | 1 | No Gas | 48.280 | ug/l | 510854.47 |
| Mo | 95 | 115 | 3 | He | 47.647 | ug/l | 185127.04 |
| Mo | 98 | 115 | 1 | No Gas | 48.470 | ug/l | 835098.92 |
| Ag | 107 | 115 | 1 | No Gas | 19.986 | ug/l | 543659.38 |
| Ag | 109 | 115 | 1 | No Gas | 19.733 | ug/l | 520802.89 |
| Cd | 111 | 115 | 1 | No Gas | 50.296 | ug/l | 307404.39 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Cd | 111 | 115 | 3 | He | 49.787 | ug/l | 102098.77 |
| Cd | 114 | 115 | 1 | No Gas | 51.366 | ug/l | 694243.83 |
| Cd | 114 | 115 | 3 | He | 49.774 | ug/l | 250596.14 |
| Sn | 118 | 115 | 1 | No Gas | 46.801 | ug/l | 813706.64 |
| Sn | 118 | 115 | 3 | He | 44.789 | ug/l | 214000.08 |
| Sb | 121 | 115 | 1 | No Gas | 50.315 | ug/l | 1376156.30 |
| Sb | 121 | 115 | 3 | He | 48.408 | ug/l | 358613.21 |
| Sb | 123 | 115 | 1 | No Gas | 49.297 | ug/l | 1037382.51 |
| Sb | 123 | 115 | 3 | He | 48.334 | ug/l | 282970.97 |
| Ba | 135 | 115 | 1 | No Gas | 54.606 | ug/l | 292313.72 |
| Ba | 137 | 115 | 1 | No Gas | 53.944 | ug/l | 513450.95 |
| La | 139 | 115 | 3 | He | 0.001 | ug/l | 61.11 |
| Ce | 140 | 115 | 3 | He | 51.520 | ug/l | 1517311.73 |
| Hg | 201 | 209 | 1 | No Gas | 0.998 | ug/l | 3834.12 |
| Hg | 202 | 209 | 1 | No Gas | 0.972 | ug/l | 8586.38 |
| Hg | 202 | 209 | 3 | He | 0.972 | ug/l | 4233.16 |
| Tl | 203 | 209 | 3 | He | 48.382 | ug/l | 538228.29 |
| Tl | 205 | 209 | 1 | No Gas | 50.128 | ug/l | 2617746.09 |
| Tl | 205 | 209 | 3 | He | 49.194 | ug/l | 1296672.30 |
| [Pb] | 206 | 209 | 1 | No Gas | 50.239 | ug/l | 921573.28 |
| [Pb] | 207 | 209 | 1 | No Gas | 49.459 | ug/l | 792802.22 |
| Pb | 208 | 209 | 1 | No Gas | 49.554 | ug/l | 3669161.53 |
| Th | 232 | 209 | 3 | He | 47.694 | ug/l | 1770238.20 |
| U | 238 | 209 | 1 | No Gas | 49.066 | ug/l | 3613395.91 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 6069569.40 | 107.6 |
| Sc | 45 | 2 | H2 | 2886116.86 | 105.1 |
| Sc | 45 | 3 | He | 342542.80 | 107.6 |
| Ge | 72 | 1 | No Gas | 1546147.74 | 102.3 |
| Ge | 72 | 2 | H2 | 1061636.38 | 107.0 |
| Ge | 72 | 3 | He | 237542.24 | 106.7 |
| In | 115 | 1 | No Gas | 12320994.76 | 101.2 |
| In | 115 | 3 | He | 2690310.45 | 102.1 |
| Tb | 159 | 1 | No Gas | 16923399.26 | 103.6 |
| Tb | 159 | 3 | He | 7195935.84 | 105.3 |
| Ho | 165 | 1 | No Gas | 15963943.07 | 104.7 |
| Ho | 165 | 3 | He | 6818461.92 | 103.1 |
| Lu | 175 | 1 | No Gas | 16163482.39 | 103.9 |
| Lu | 175 | 3 | He | 5617130.89 | 104.9 |
| Bi | 209 | 1 | No Gas | 11475291.03 | 101.4 |
| Bi | 209 | 3 | He | 5179596.91 | 103.3 |

ICPMS207-B Analytical Data

Sample Name Rinse
File Name 048BLKV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 20:55:33
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | 0.338 | ug/l | 17280.72 |
| Be | 9 | 45 | 1 | No Gas | -0.038 | ug/l | 88.31 |
| B | 11 | 45 | 1 | No Gas | 1.256 | ug/l | 7670.37 |
| Na | 23 | 45 | 3 | He | 22.018 | ug/l | 59051.99 |
| Mg | 24 | 45 | 3 | He | 0.267 | ug/l | 1743.31 |
| Al | 27 | 45 | 1 | No Gas | -0.074 | ug/l | 13764.26 |
| Si | 28 | 45 | 2 | H2 | 1.181 | ug/l | 9214.54 |
| K | 39 | 72 | 3 | He | -16.042 | ug/l | 69372.09 |
| Ca | 40 | 72 | 2 | H2 | -0.820 | ug/l | 91782.99 |
| Ti | 47 | 72 | 1 | No Gas | 0.016 | ug/l | 236.91 |
| V | 51 | 72 | 1 | No Gas | 3.149 | ug/l | 34862.61 |
| V | 51 | 72 | 3 | He | -0.206 | ug/l | 13491.82 |
| Cr | 52 | 72 | 1 | No Gas | -0.371 | ug/l | 80293.45 |
| Cr | 52 | 72 | 3 | He | 0.025 | ug/l | 933.37 |
| Mn | 55 | 72 | 1 | No Gas | 0.196 | ug/l | 16926.17 |
| Mn | 55 | 72 | 3 | He | 0.142 | ug/l | 610.89 |
| Fe | 56 | 72 | 2 | H2 | 0.135 | ug/l | 12264.13 |
| Fe | 56 | 72 | 3 | He | 0.122 | ug/l | 5928.85 |
| Co | 59 | 72 | 1 | No Gas | 0.003 | ug/l | 615.46 |
| Ni | 60 | 72 | 1 | No Gas | 0.006 | ug/l | 499.02 |
| Ni | 60 | 72 | 3 | He | 0.001 | ug/l | 93.33 |
| Cu | 63 | 72 | 1 | No Gas | -0.008 | ug/l | 1762.15 |
| Cu | 63 | 72 | 3 | He | -0.020 | ug/l | 520.24 |
| Cu | 65 | 72 | 1 | No Gas | -0.011 | ug/l | 803.01 |
| Zn | 66 | 72 | 1 | No Gas | -0.011 | ug/l | 886.64 |
| Zn | 66 | 72 | 3 | He | 0.009 | ug/l | 218.89 |
| As | 75 | 72 | 1 | No Gas | 0.687 | ug/l | 17685.92 |
| As | 75 | 72 | 3 | He | -0.038 | ug/l | 221.47 |
| Se | 78 | 72 | 2 | H2 | 0.012 | ug/l | 40.44 |
| Br | 79 | 72 | 1 | No Gas | 19.022 | ug/l | 310923.97 |
| Br | 79 | 72 | 2 | H2 | 18.804 | ug/l | 170200.85 |
| Se | 82 | 72 | 1 | No Gas | 0.488 | ug/l | 871.96 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 20473.96 |
| Sr | 88 | 72 | 1 | No Gas | 0.002 | ug/l | 841.69 |
| Sr | 88 | 72 | 3 | He | -0.004 | ug/l | 248.89 |
| Mo | 95 | 115 | 1 | No Gas | 0.084 | ug/l | 940.04 |
| Mo | 95 | 115 | 3 | He | 0.065 | ug/l | 258.89 |
| Mo | 98 | 115 | 1 | No Gas | 0.088 | ug/l | 1593.30 |
| Ag | 107 | 115 | 1 | No Gas | 0.000 | ug/l | 1824.19 |
| Ag | 109 | 115 | 1 | No Gas | 0.002 | ug/l | 1764.82 |
| Cd | 111 | 115 | 1 | No Gas | 0.007 | ug/l | 40.00 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.003 | ug/l | 11.67 |
| Cd | 114 | 115 | 1 | No Gas | 0.008 | ug/l | -54.71 |
| Cd | 114 | 115 | 3 | He | 0.002 | ug/l | 24.21 |
| Sn | 118 | 115 | 1 | No Gas | 0.383 | ug/l | 9687.52 |
| Sn | 118 | 115 | 3 | He | 0.290 | ug/l | 2144.63 |
| Sb | 121 | 115 | 1 | No Gas | 0.125 | ug/l | 4288.78 |
| Sb | 121 | 115 | 3 | He | 0.081 | ug/l | 764.76 |
| Sb | 123 | 115 | 1 | No Gas | 0.125 | ug/l | 3275.73 |
| Sb | 123 | 115 | 3 | He | 0.084 | ug/l | 621.74 |
| Ba | 135 | 115 | 1 | No Gas | 0.007 | ug/l | 103.13 |
| Ba | 137 | 115 | 1 | No Gas | 0.002 | ug/l | 113.11 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 18.89 |
| Ce | 140 | 115 | 3 | He | 0.001 | ug/l | 50.00 |
| Hg | 201 | 209 | 1 | No Gas | 0.011 | ug/l | 75.32 |
| Hg | 202 | 209 | 1 | No Gas | 0.012 | ug/l | 205.96 |
| Hg | 202 | 209 | 3 | He | 0.010 | ug/l | 80.65 |
| Tl | 203 | 209 | 3 | He | 0.104 | ug/l | 1822.86 |
| Tl | 205 | 209 | 1 | No Gas | 0.092 | ug/l | 7766.81 |
| Tl | 205 | 209 | 3 | He | 0.102 | ug/l | 4334.46 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.011 | ug/l | 831.14 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.010 | ug/l | 692.25 |
| Pb | 208 | 209 | 1 | No Gas | 0.009 | ug/l | 3192.39 |
| Th | 232 | 209 | 3 | He | 0.063 | ug/l | 3011.56 |
| U | 238 | 209 | 1 | No Gas | 0.006 | ug/l | 537.91 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5108355.50 | 90.6 |
| Sc | 45 | 2 | H2 | 2572447.75 | 93.7 |
| Sc | 45 | 3 | He | 278205.70 | 87.4 |
| Ge | 72 | 1 | No Gas | 1386504.19 | 91.7 |
| Ge | 72 | 2 | H2 | 960075.74 | 96.7 |
| Ge | 72 | 3 | He | 204249.68 | 91.7 |
| In | 115 | 1 | No Gas | 11837862.81 | 97.2 |
| In | 115 | 3 | He | 2475544.49 | 93.9 |
| Tb | 159 | 1 | No Gas | 16586258.28 | 101.5 |
| Tb | 159 | 3 | He | 6905855.35 | 101.1 |
| Ho | 165 | 1 | No Gas | 15975114.97 | 104.8 |
| Ho | 165 | 3 | He | 6612503.57 | 100.0 |
| Lu | 175 | 1 | No Gas | 16320894.80 | 104.9 |
| Lu | 175 | 3 | He | 5456729.04 | 101.9 |
| Bi | 209 | 1 | No Gas | 11739017.61 | 103.7 |
| Bi | 209 | 3 | He | 5223494.53 | 104.2 |

ICPMS207-B Analytical Data

Sample Name B22011124-001B
File Name 049SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 21:01:46
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 1.466 | ug/l | 22445.47 |
| Be | 9 | 45 | 1 | No Gas | -0.035 | ug/l | 85.65 |
| B | 11 | 45 | 1 | No Gas | 54.817 | ug/l | 101471.31 |
| Na | 23 | 45 | 3 | He | 37987.999 | ug/l | 24189604.09 |
| Mg | 24 | 45 | 3 | He | 10492.051 | ug/l | 3681899.14 |
| Al | 27 | 45 | 1 | No Gas | 5.018 | ug/l | 95292.40 |
| Si | 28 | 45 | 2 | H2 | 23633.767 | ug/l | 41980582.60 |
| K | 39 | 72 | 3 | He | 1708.975 | ug/l | 747567.40 |
| Ca | 40 | 72 | 2 | H2 | 9449.234 | ug/l | 65209841.71 |
| Ti | 47 | 72 | 1 | No Gas | 1.994 | ug/l | 4376.75 |
| V | 51 | 72 | 1 | No Gas | 21.280 | ug/l | 505033.53 |
| V | 51 | 72 | 3 | He | 21.481 | ug/l | 97153.88 |
| Cr | 52 | 72 | 1 | No Gas | 3.416 | ug/l | 164645.96 |
| Cr | 52 | 72 | 3 | He | 2.230 | ug/l | 10742.86 |
| Mn | 55 | 72 | 1 | No Gas | 1.856 | ug/l | 68961.22 |
| Mn | 55 | 72 | 3 | He | 1.292 | ug/l | 3896.74 |
| Fe | 56 | 72 | 2 | H2 | 16.048 | ug/l | 262371.77 |
| Fe | 56 | 72 | 3 | He | 15.270 | ug/l | 65628.81 |
| Co | 59 | 72 | 1 | No Gas | 0.134 | ug/l | 4119.09 |
| Ni | 60 | 72 | 1 | No Gas | 1.943 | ug/l | 12450.74 |
| Ni | 60 | 72 | 3 | He | 1.935 | ug/l | 3663.82 |
| Cu | 63 | 72 | 1 | No Gas | 0.637 | ug/l | 11218.17 |
| Cu | 63 | 72 | 3 | He | 0.367 | ug/l | 2344.06 |
| Cu | 65 | 72 | 1 | No Gas | 0.388 | ug/l | 3663.94 |
| Zn | 66 | 72 | 1 | No Gas | 5.558 | ug/l | 29086.58 |
| Zn | 66 | 72 | 3 | He | 5.856 | ug/l | 6169.13 |
| As | 75 | 72 | 1 | No Gas | 1.032 | ug/l | 18279.66 |
| As | 75 | 72 | 3 | He | 0.182 | ug/l | 391.60 |
| Se | 78 | 72 | 2 | H2 | 0.215 | ug/l | 152.56 |
| Br | 79 | 72 | 1 | No Gas | 10.236 | ug/l | 181235.90 |
| Br | 79 | 72 | 2 | H2 | 9.013 | ug/l | 89739.22 |
| Se | 82 | 72 | 1 | No Gas | 0.155 | ug/l | 682.74 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 38074.56 |
| Sr | 88 | 72 | 1 | No Gas | 70.497 | ug/l | 3050086.31 |
| Sr | 88 | 72 | 3 | He | 68.072 | ug/l | 312032.80 |
| Mo | 95 | 115 | 1 | No Gas | 1.922 | ug/l | 17672.16 |
| Mo | 95 | 115 | 3 | He | 1.897 | ug/l | 6409.26 |
| Mo | 98 | 115 | 1 | No Gas | 1.908 | ug/l | 28553.87 |
| Ag | 107 | 115 | 1 | No Gas | -0.061 | ug/l | 150.73 |
| Ag | 109 | 115 | 1 | No Gas | -0.059 | ug/l | 154.06 |
| Cd | 111 | 115 | 1 | No Gas | 0.005 | ug/l | 24.20 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.002 | ug/l | 9.44 |
| Cd | 114 | 115 | 1 | No Gas | 0.014 | ug/l | 14.94 |
| Cd | 114 | 115 | 3 | He | -0.001 | ug/l | 6.85 |
| Sn | 118 | 115 | 1 | No Gas | 0.827 | ug/l | 15134.93 |
| Sn | 118 | 115 | 3 | He | 0.727 | ug/l | 3762.75 |
| Sb | 121 | 115 | 1 | No Gas | 0.078 | ug/l | 2635.52 |
| Sb | 121 | 115 | 3 | He | 0.066 | ug/l | 602.41 |
| Sb | 123 | 115 | 1 | No Gas | 0.078 | ug/l | 2009.68 |
| Sb | 123 | 115 | 3 | He | 0.069 | ug/l | 490.73 |
| Ba | 135 | 115 | 1 | No Gas | 3.725 | ug/l | 17313.20 |
| Ba | 137 | 115 | 1 | No Gas | 3.590 | ug/l | 29683.17 |
| La | 139 | 115 | 3 | He | 0.001 | ug/l | 41.11 |
| Ce | 140 | 115 | 3 | He | 0.004 | ug/l | 133.33 |
| Hg | 201 | 209 | 1 | No Gas | 0.025 | ug/l | 116.31 |
| Hg | 202 | 209 | 1 | No Gas | 0.039 | ug/l | 405.26 |
| Hg | 202 | 209 | 3 | He | 0.029 | ug/l | 150.97 |
| Tl | 203 | 209 | 3 | He | 0.071 | ug/l | 1320.60 |
| Tl | 205 | 209 | 1 | No Gas | 0.056 | ug/l | 5132.15 |
| Tl | 205 | 209 | 3 | He | 0.070 | ug/l | 3159.65 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.072 | ug/l | 1771.24 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.073 | ug/l | 1550.10 |
| Pb | 208 | 209 | 1 | No Gas | 0.070 | ug/l | 7083.01 |
| Th | 232 | 209 | 3 | He | 0.095 | ug/l | 3879.47 |
| U | 238 | 209 | 1 | No Gas | 0.014 | ug/l | 1050.17 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4375566.38 | 77.6 |
| Sc | 45 | 2 | H2 | 2350247.73 | 85.6 |
| Sc | 45 | 3 | He | 235198.14 | 73.8 |
| Ge | 72 | 1 | No Gas | 1270180.91 | 84.0 |
| Ge | 72 | 2 | H2 | 874440.78 | 88.1 |
| Ge | 72 | 3 | He | 181520.54 | 81.5 |
| In | 115 | 1 | No Gas | 10376290.66 | 85.2 |
| In | 115 | 3 | He | 2264327.27 | 85.9 |
| Tb | 159 | 1 | No Gas | 15087176.02 | 92.3 |
| Tb | 159 | 3 | He | 6475607.78 | 94.8 |
| Ho | 165 | 1 | No Gas | 14299233.73 | 93.8 |
| Ho | 165 | 3 | He | 6198980.17 | 93.7 |
| Lu | 175 | 1 | No Gas | 14940953.55 | 96.0 |
| Lu | 175 | 3 | He | 5027918.89 | 93.9 |
| Bi | 209 | 1 | No Gas | 10405896.04 | 91.9 |
| Bi | 209 | 3 | He | 4784220.13 | 95.4 |

ICPMS207-B Analytical Data

Sample Name B22011124-001BDIL
File Name 050ARef.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 21:08:00
Sample Type AIRRef
Total Dilution 5.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 4.557 | ug/l | 19732.66 |
| Be | 9 | 45 | 1 | No Gas | -0.211 | ug/l | 66.99 |
| B | 11 | 45 | 1 | No Gas | 52.953 | ug/l | 24376.10 |
| Na | 23 | 45 | 3 | He | 36654.394 | ug/l | 4864328.23 |
| Mg | 24 | 45 | 3 | He | 10408.135 | ug/l | 757581.44 |
| Al | 27 | 45 | 1 | No Gas | 6.890 | ug/l | 37583.98 |
| Si | 28 | 45 | 2 | H2 | 23656.085 | ug/l | 8793260.94 |
| K | 39 | 72 | 3 | He | 1599.629 | ug/l | 201368.50 |
| Ca | 40 | 72 | 2 | H2 | 9129.710 | ug/l | 13512050.43 |
| Ti | 47 | 72 | 1 | No Gas | 2.060 | ug/l | 1092.81 |
| V | 51 | 72 | 1 | No Gas | 36.921 | ug/l | 149999.39 |
| V | 51 | 72 | 3 | He | 20.333 | ug/l | 29673.34 |
| Cr | 52 | 72 | 1 | No Gas | -0.594 | ug/l | 82808.72 |
| Cr | 52 | 72 | 3 | He | 2.430 | ug/l | 2990.32 |
| Mn | 55 | 72 | 1 | No Gas | 1.978 | ug/l | 22839.17 |
| Mn | 55 | 72 | 3 | He | 1.357 | ug/l | 948.84 |
| Fe | 56 | 72 | 2 | H2 | 16.078 | ug/l | 63775.68 |
| Fe | 56 | 72 | 3 | He | 14.791 | ug/l | 17095.50 |
| Co | 59 | 72 | 1 | No Gas | 0.123 | ug/l | 1187.70 |
| Ni | 60 | 72 | 1 | No Gas | 2.125 | ug/l | 3174.07 |
| Ni | 60 | 72 | 3 | He | 2.225 | ug/l | 933.37 |
| Cu | 63 | 72 | 1 | No Gas | 1.707 | ug/l | 7086.57 |
| Cu | 63 | 72 | 3 | He | 1.530 | ug/l | 2112.07 |
| Cu | 65 | 72 | 1 | No Gas | 1.477 | ug/l | 3107.59 |
| Zn | 66 | 72 | 1 | No Gas | 8.163 | ug/l | 9515.49 |
| Zn | 66 | 72 | 3 | He | 8.468 | ug/l | 1974.59 |
| As | 75 | 72 | 1 | No Gas | -0.285 | ug/l | 12360.61 |
| As | 75 | 72 | 3 | He | -0.084 | ug/l | 222.60 |
| Se | 78 | 72 | 2 | H2 | 0.170 | ug/l | 52.67 |
| Br | 79 | 72 | 1 | No Gas | 265.100 | ug/l | 713197.90 |
| Br | 79 | 72 | 2 | H2 | 259.506 | ug/l | 400456.43 |
| Se | 82 | 72 | 1 | No Gas | 4.638 | ug/l | 987.17 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 22986.03 |
| Sr | 88 | 72 | 1 | No Gas | 69.032 | ug/l | 622206.12 |
| Sr | 88 | 72 | 3 | He | 67.491 | ug/l | 64006.60 |
| Mo | 95 | 115 | 1 | No Gas | 1.763 | ug/l | 3694.95 |
| Mo | 95 | 115 | 3 | He | 1.747 | ug/l | 1268.95 |
| Mo | 98 | 115 | 1 | No Gas | 1.815 | ug/l | 6171.11 |
| Ag | 107 | 115 | 1 | No Gas | -0.327 | ug/l | 61.36 |
| Ag | 109 | 115 | 1 | No Gas | -0.315 | ug/l | 64.69 |
| Cd | 111 | 115 | 1 | No Gas | 0.033 | ug/l | 35.88 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.009 | ug/l | 9.33 |
| Cd | 114 | 115 | 1 | No Gas | 0.084 | ug/l | 55.33 |
| Cd | 114 | 115 | 3 | He | 0.008 | ug/l | 20.23 |
| Sn | 118 | 115 | 1 | No Gas | 0.713 | ug/l | 5463.57 |
| Sn | 118 | 115 | 3 | He | 0.688 | ug/l | 1415.64 |
| Sb | 121 | 115 | 1 | No Gas | 0.063 | ug/l | 1214.18 |
| Sb | 121 | 115 | 3 | He | 0.068 | ug/l | 285.70 |
| Sb | 123 | 115 | 1 | No Gas | 0.064 | ug/l | 919.79 |
| Sb | 123 | 115 | 3 | He | 0.080 | ug/l | 235.36 |
| Ba | 135 | 115 | 1 | No Gas | 3.543 | ug/l | 3756.41 |
| Ba | 137 | 115 | 1 | No Gas | 3.270 | ug/l | 6155.86 |
| La | 139 | 115 | 3 | He | 0.001 | ug/l | 25.55 |
| Ce | 140 | 115 | 3 | He | 0.004 | ug/l | 54.44 |
| Hg | 201 | 209 | 1 | No Gas | 0.029 | ug/l | 52.66 |
| Hg | 202 | 209 | 1 | No Gas | 0.055 | ug/l | 197.63 |
| Hg | 202 | 209 | 3 | He | 0.055 | ug/l | 81.65 |
| Tl | 203 | 209 | 3 | He | 0.071 | ug/l | 779.01 |
| Tl | 205 | 209 | 1 | No Gas | 0.033 | ug/l | 3048.15 |
| Tl | 205 | 209 | 3 | He | 0.056 | ug/l | 1824.20 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.152 | ug/l | 1184.51 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.167 | ug/l | 1076.72 |
| Pb | 208 | 209 | 1 | No Gas | 0.163 | ug/l | 5002.64 |
| Th | 232 | 209 | 3 | He | 0.039 | ug/l | 876.38 |
| U | 238 | 209 | 1 | No Gas | 0.011 | ug/l | 264.62 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4619185.03 | 81.9 |
| Sc | 45 | 2 | H2 | 2457348.70 | 89.5 |
| Sc | 45 | 3 | He | 243568.40 | 76.5 |
| Ge | 72 | 1 | No Gas | 1321559.39 | 87.4 |
| Ge | 72 | 2 | H2 | 932303.42 | 93.9 |
| Ge | 72 | 3 | He | 187214.26 | 84.1 |
| In | 115 | 1 | No Gas | 11659631.68 | 95.8 |
| In | 115 | 3 | He | 2402720.14 | 91.2 |
| Tb | 159 | 1 | No Gas | 16683295.00 | 102.1 |
| Tb | 159 | 3 | He | 6781319.47 | 99.2 |
| Ho | 165 | 1 | No Gas | 15634991.94 | 102.5 |
| Ho | 165 | 3 | He | 6610665.28 | 99.9 |
| Lu | 175 | 1 | No Gas | 15921777.47 | 102.3 |
| Lu | 175 | 3 | He | 5283651.75 | 98.7 |
| Bi | 209 | 1 | No Gas | 11629129.72 | 102.7 |
| Bi | 209 | 3 | He | 5152721.33 | 102.8 |

ICPMS207-B Analytical Data

Sample Name CCV
File Name 051_CCV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 21:14:14
Sample Type CCV
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 409.239 | ug/l | 2932840.96 |
| Be | 9 | 45 | 1 | No Gas | 37.819 | ug/l | 114820.72 |
| B | 11 | 45 | 1 | No Gas | 38.880 | ug/l | 76939.21 |
| Na | 23 | 45 | 3 | He | 11829.349 | ug/l | 8316440.01 |
| Mg | 24 | 45 | 3 | He | 11356.659 | ug/l | 4384914.71 |
| Al | 27 | 45 | 1 | No Gas | 51.646 | ug/l | 903552.22 |
| Si | 28 | 45 | 2 | H2 | 214.476 | ug/l | 410507.64 |
| K | 39 | 72 | 3 | He | 11046.482 | ug/l | 4799511.21 |
| Ca | 40 | 72 | 2 | H2 | 11633.007 | ug/l | 90173634.63 |
| Ti | 47 | 72 | 1 | No Gas | 45.868 | ug/l | 103048.29 |
| V | 51 | 72 | 1 | No Gas | 48.420 | ug/l | 1291680.58 |
| V | 51 | 72 | 3 | He | 48.440 | ug/l | 218437.24 |
| Cr | 52 | 72 | 1 | No Gas | 47.301 | ug/l | 1300638.95 |
| Cr | 52 | 72 | 3 | He | 48.248 | ug/l | 234189.93 |
| Mn | 55 | 72 | 1 | No Gas | 49.360 | ug/l | 1703255.07 |
| Mn | 55 | 72 | 3 | He | 49.416 | ug/l | 155274.91 |
| Fe | 56 | 72 | 2 | H2 | 1297.829 | ug/l | 23024193.80 |
| Fe | 56 | 72 | 3 | He | 1244.679 | ug/l | 5341981.27 |
| Co | 59 | 72 | 1 | No Gas | 48.194 | ug/l | 1399130.45 |
| Ni | 60 | 72 | 1 | No Gas | 47.211 | ug/l | 312550.23 |
| Ni | 60 | 72 | 3 | He | 50.811 | ug/l | 101324.70 |
| Cu | 63 | 72 | 1 | No Gas | 49.334 | ug/l | 786949.61 |
| Cu | 63 | 72 | 3 | He | 52.550 | ug/l | 276073.84 |
| Cu | 65 | 72 | 1 | No Gas | 49.541 | ug/l | 388983.34 |
| Zn | 66 | 72 | 1 | No Gas | 50.141 | ug/l | 272338.38 |
| Zn | 66 | 72 | 3 | He | 52.469 | ug/l | 57889.27 |
| As | 75 | 72 | 1 | No Gas | 49.471 | ug/l | 331230.23 |
| As | 75 | 72 | 3 | He | 50.631 | ug/l | 48323.25 |
| Se | 78 | 72 | 2 | H2 | 51.083 | ug/l | 32724.70 |
| Br | 79 | 72 | 1 | No Gas | 16.290 | ug/l | 269168.96 |
| Br | 79 | 72 | 2 | H2 | 14.996 | ug/l | 145584.17 |
| Se | 82 | 72 | 1 | No Gas | 51.391 | ug/l | 19604.92 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 34996.19 |
| Sr | 88 | 72 | 1 | No Gas | 52.752 | ug/l | 2435708.62 |
| Sr | 88 | 72 | 3 | He | 52.483 | ug/l | 258886.99 |
| Mo | 95 | 115 | 1 | No Gas | 51.132 | ug/l | 522460.16 |
| Mo | 95 | 115 | 3 | He | 52.786 | ug/l | 187590.86 |
| Mo | 98 | 115 | 1 | No Gas | 51.594 | ug/l | 858384.41 |
| Ag | 107 | 115 | 1 | No Gas | 20.278 | ug/l | 532306.10 |
| Ag | 109 | 115 | 1 | No Gas | 20.178 | ug/l | 514158.11 |
| Cd | 111 | 115 | 1 | No Gas | 51.166 | ug/l | 301936.09 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Cd | 111 | 115 | 3 | He | 51.636 | ug/l | 96852.13 |
| Cd | 114 | 115 | 1 | No Gas | 52.141 | ug/l | 680251.49 |
| Cd | 114 | 115 | 3 | He | 51.734 | ug/l | 238226.80 |
| Sn | 118 | 115 | 1 | No Gas | 53.506 | ug/l | 898246.92 |
| Sn | 118 | 115 | 3 | He | 53.945 | ug/l | 235550.26 |
| Sb | 121 | 115 | 1 | No Gas | 54.454 | ug/l | 1438077.14 |
| Sb | 121 | 115 | 3 | He | 53.142 | ug/l | 360035.80 |
| Sb | 123 | 115 | 1 | No Gas | 54.633 | ug/l | 1109998.80 |
| Sb | 123 | 115 | 3 | He | 53.200 | ug/l | 284842.61 |
| Ba | 135 | 115 | 1 | No Gas | 52.141 | ug/l | 269446.34 |
| Ba | 137 | 115 | 1 | No Gas | 51.922 | ug/l | 477152.22 |
| La | 139 | 115 | 3 | He | 52.385 | ug/l | 1289970.58 |
| Ce | 140 | 115 | 3 | He | 53.107 | ug/l | 1430508.90 |
| Hg | 201 | 209 | 1 | No Gas | 0.996 | ug/l | 4031.14 |
| Hg | 202 | 209 | 1 | No Gas | 0.979 | ug/l | 9110.95 |
| Hg | 202 | 209 | 3 | He | 1.018 | ug/l | 4451.86 |
| Tl | 203 | 209 | 3 | He | 49.281 | ug/l | 550573.23 |
| Tl | 205 | 209 | 1 | No Gas | 50.808 | ug/l | 2796157.46 |
| Tl | 205 | 209 | 3 | He | 50.405 | ug/l | 1334960.37 |
| [Pb] | 206 | 209 | 1 | No Gas | 51.084 | ug/l | 987490.70 |
| [Pb] | 207 | 209 | 1 | No Gas | 50.744 | ug/l | 857437.83 |
| Pb | 208 | 209 | 1 | No Gas | 50.763 | ug/l | 3961123.51 |
| Th | 232 | 209 | 3 | He | 50.428 | ug/l | 1880351.16 |
| U | 238 | 209 | 1 | No Gas | 51.758 | ug/l | 4017757.53 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4590134.69 | 81.4 |
| Sc | 45 | 2 | H2 | 2491344.73 | 90.8 |
| Sc | 45 | 3 | He | 258822.79 | 81.3 |
| Ge | 72 | 1 | No Gas | 1354682.56 | 89.6 |
| Ge | 72 | 2 | H2 | 982458.23 | 99.0 |
| Ge | 72 | 3 | He | 195313.57 | 87.7 |
| In | 115 | 1 | No Gas | 11547446.69 | 94.9 |
| In | 115 | 3 | He | 2388958.87 | 90.6 |
| Tb | 159 | 1 | No Gas | 16699745.10 | 102.2 |
| Tb | 159 | 3 | He | 6962652.82 | 101.9 |
| Ho | 165 | 1 | No Gas | 16088830.45 | 105.5 |
| Ho | 165 | 3 | He | 6630051.07 | 100.2 |
| Lu | 175 | 1 | No Gas | 16355228.92 | 105.1 |
| Lu | 175 | 3 | He | 5347330.21 | 99.8 |
| Bi | 209 | 1 | No Gas | 11737790.93 | 103.7 |
| Bi | 209 | 3 | He | 5053982.94 | 100.8 |

ICPMS207-B Analytical Data

Sample Name CCB
File Name 052_CCB.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 21:20:28
Sample Type CCB
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|----------|
| Li | 7 | 45 | 1 | No Gas | 1.062 | ug/l | 21041.60 |
| Be | 9 | 45 | 1 | No Gas | -0.039 | ug/l | 76.65 |
| B | 11 | 45 | 1 | No Gas | -0.041 | ug/l | 4549.86 |
| Na | 23 | 45 | 3 | He | 26.854 | ug/l | 56544.74 |
| Mg | 24 | 45 | 3 | He | 0.975 | ug/l | 1836.48 |
| Al | 27 | 45 | 1 | No Gas | -0.072 | ug/l | 12618.68 |
| Si | 28 | 45 | 2 | H2 | 1.196 | ug/l | 8635.37 |
| K | 39 | 72 | 3 | He | -25.097 | ug/l | 60500.53 |
| Ca | 40 | 72 | 2 | H2 | -1.107 | ug/l | 85984.89 |
| Ti | 47 | 72 | 1 | No Gas | 0.017 | ug/l | 238.58 |
| V | 51 | 72 | 1 | No Gas | 2.736 | ug/l | 23549.92 |
| V | 51 | 72 | 3 | He | 0.820 | ug/l | 16696.24 |
| Cr | 52 | 72 | 1 | No Gas | -0.461 | ug/l | 76918.66 |
| Cr | 52 | 72 | 3 | He | 0.026 | ug/l | 866.70 |
| Mn | 55 | 72 | 1 | No Gas | 0.013 | ug/l | 10389.72 |
| Mn | 55 | 72 | 3 | He | 0.005 | ug/l | 148.30 |
| Fe | 56 | 72 | 2 | H2 | 0.102 | ug/l | 11247.30 |
| Fe | 56 | 72 | 3 | He | 0.133 | ug/l | 5539.98 |
| Co | 59 | 72 | 1 | No Gas | -0.002 | ug/l | 465.75 |
| Ni | 60 | 72 | 1 | No Gas | -0.010 | ug/l | 385.91 |
| Ni | 60 | 72 | 3 | He | -0.010 | ug/l | 65.56 |
| Cu | 63 | 72 | 1 | No Gas | -0.014 | ug/l | 1642.09 |
| Cu | 63 | 72 | 3 | He | -0.006 | ug/l | 550.57 |
| Cu | 65 | 72 | 1 | No Gas | -0.023 | ug/l | 704.30 |
| Zn | 66 | 72 | 1 | No Gas | 0.004 | ug/l | 962.41 |
| Zn | 66 | 72 | 3 | He | 0.076 | ug/l | 274.45 |
| As | 75 | 72 | 1 | No Gas | 0.182 | ug/l | 14215.82 |
| As | 75 | 72 | 3 | He | -0.029 | ug/l | 213.60 |
| Se | 78 | 72 | 2 | H2 | 0.001 | ug/l | 32.45 |
| Br | 79 | 72 | 1 | No Gas | 0.772 | ug/l | 74811.30 |
| Br | 79 | 72 | 2 | H2 | 0.790 | ug/l | 36797.11 |
| Se | 82 | 72 | 1 | No Gas | -0.305 | ug/l | 564.87 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 19577.81 |
| Sr | 88 | 72 | 1 | No Gas | -0.001 | ug/l | 685.33 |
| Sr | 88 | 72 | 3 | He | -0.008 | ug/l | 214.45 |
| Mo | 95 | 115 | 1 | No Gas | 0.024 | ug/l | 303.34 |
| Mo | 95 | 115 | 3 | He | 0.015 | ug/l | 74.45 |
| Mo | 98 | 115 | 1 | No Gas | 0.025 | ug/l | 510.77 |
| Ag | 107 | 115 | 1 | No Gas | -0.001 | ug/l | 1769.49 |
| Ag | 109 | 115 | 1 | No Gas | 0.001 | ug/l | 1704.79 |
| Cd | 111 | 115 | 1 | No Gas | -0.001 | ug/l | -7.44 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.002 | ug/l | 10.00 |
| Cd | 114 | 115 | 1 | No Gas | 0.002 | ug/l | -139.64 |
| Cd | 114 | 115 | 3 | He | 0.003 | ug/l | 24.58 |
| Sn | 118 | 115 | 1 | No Gas | 0.036 | ug/l | 3686.52 |
| Sn | 118 | 115 | 3 | He | 0.025 | ug/l | 916.70 |
| Sb | 121 | 115 | 1 | No Gas | 0.087 | ug/l | 3205.70 |
| Sb | 121 | 115 | 3 | He | 0.053 | ug/l | 551.74 |
| Sb | 123 | 115 | 1 | No Gas | 0.086 | ug/l | 2427.80 |
| Sb | 123 | 115 | 3 | He | 0.053 | ug/l | 434.38 |
| Ba | 135 | 115 | 1 | No Gas | -0.001 | ug/l | 56.55 |
| Ba | 137 | 115 | 1 | No Gas | 0.001 | ug/l | 103.13 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 16.67 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 37.78 |
| Hg | 201 | 209 | 1 | No Gas | 0.005 | ug/l | 51.66 |
| Hg | 202 | 209 | 1 | No Gas | 0.007 | ug/l | 168.97 |
| Hg | 202 | 209 | 3 | He | 0.006 | ug/l | 60.99 |
| Tl | 203 | 209 | 3 | He | 0.155 | ug/l | 2411.20 |
| Tl | 205 | 209 | 1 | No Gas | 0.135 | ug/l | 10429.88 |
| Tl | 205 | 209 | 3 | He | 0.153 | ug/l | 5705.52 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.005 | ug/l | 716.69 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.008 | ug/l | 670.02 |
| Pb | 208 | 209 | 1 | No Gas | 0.005 | ug/l | 2950.15 |
| Th | 232 | 209 | 3 | He | 0.014 | ug/l | 1141.18 |
| U | 238 | 209 | 1 | No Gas | 0.003 | ug/l | 300.28 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4665197.54 | 82.7 |
| Sc | 45 | 2 | H2 | 2434998.57 | 88.7 |
| Sc | 45 | 3 | He | 250995.72 | 78.8 |
| Ge | 72 | 1 | No Gas | 1366874.74 | 90.4 |
| Ge | 72 | 2 | H2 | 923588.79 | 93.1 |
| Ge | 72 | 3 | He | 189213.69 | 85.0 |
| In | 115 | 1 | No Gas | 11716728.16 | 96.3 |
| In | 115 | 3 | He | 2388776.29 | 90.6 |
| Tb | 159 | 1 | No Gas | 17259010.07 | 105.6 |
| Tb | 159 | 3 | He | 6800836.48 | 99.5 |
| Ho | 165 | 1 | No Gas | 16007446.15 | 105.0 |
| Ho | 165 | 3 | He | 6477370.95 | 97.9 |
| Lu | 175 | 1 | No Gas | 16469448.45 | 105.8 |
| Lu | 175 | 3 | He | 5193680.94 | 97.0 |
| Bi | 209 | 1 | No Gas | 12087990.69 | 106.8 |
| Bi | 209 | 3 | He | 5205798.22 | 103.9 |

ICPMS207-B Analytical Data

Sample Name B22011124-001BPDS1
File Name 053SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 21:26:42
Sample Type Sample
Total Dilution 1.0300
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 2.125 | ug/l | 24041.23 |
| Be | 9 | 45 | 1 | No Gas | 37.426 | ug/l | 95033.18 |
| B | 11 | 45 | 1 | No Gas | 94.645 | ug/l | 151291.15 |
| Na | 23 | 45 | 3 | He | 35840.189 | ug/l | 21390919.54 |
| Mg | 24 | 45 | 3 | He | 10354.277 | ug/l | 3404654.42 |
| Al | 27 | 45 | 1 | No Gas | 47.479 | ug/l | 695373.42 |
| Si | 28 | 45 | 2 | H2 | 23741.095 | ug/l | 39450752.73 |
| K | 39 | 72 | 3 | He | 1663.552 | ug/l | 687090.12 |
| Ca | 40 | 72 | 2 | H2 | 8813.212 | ug/l | 59711932.75 |
| Ti | 47 | 72 | 1 | No Gas | 43.293 | ug/l | 84560.37 |
| V | 51 | 72 | 1 | No Gas | 64.986 | ug/l | 1524957.53 |
| V | 51 | 72 | 3 | He | 68.706 | ug/l | 265861.66 |
| Cr | 52 | 72 | 1 | No Gas | 49.350 | ug/l | 1178645.23 |
| Cr | 52 | 72 | 3 | He | 48.687 | ug/l | 206283.97 |
| Mn | 55 | 72 | 1 | No Gas | 49.998 | ug/l | 1501157.49 |
| Mn | 55 | 72 | 3 | He | 49.184 | ug/l | 134951.46 |
| Fe | 56 | 72 | 2 | H2 | 66.316 | ug/l | 1036814.04 |
| Fe | 56 | 72 | 3 | He | 65.767 | ug/l | 250766.87 |
| Co | 59 | 72 | 1 | No Gas | 48.307 | ug/l | 1217904.49 |
| Ni | 60 | 72 | 1 | No Gas | 48.702 | ug/l | 280225.78 |
| Ni | 60 | 72 | 3 | He | 50.525 | ug/l | 87989.37 |
| Cu | 63 | 72 | 1 | No Gas | 49.045 | ug/l | 679653.40 |
| Cu | 63 | 72 | 3 | He | 51.008 | ug/l | 234000.73 |
| Cu | 65 | 72 | 1 | No Gas | 47.290 | ug/l | 322899.00 |
| Zn | 66 | 72 | 1 | No Gas | 54.095 | ug/l | 255134.79 |
| Zn | 66 | 72 | 3 | He | 55.875 | ug/l | 53816.79 |
| As | 75 | 72 | 1 | No Gas | 50.292 | ug/l | 292849.13 |
| As | 75 | 72 | 3 | He | 49.570 | ug/l | 41324.46 |
| Se | 78 | 72 | 2 | H2 | 51.338 | ug/l | 28739.20 |
| Br | 79 | 72 | 1 | No Gas | 12.984 | ug/l | 200191.96 |
| Br | 79 | 72 | 2 | H2 | 11.043 | ug/l | 102246.74 |
| Se | 82 | 72 | 1 | No Gas | 51.139 | ug/l | 16961.76 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 50074.04 |
| Sr | 88 | 72 | 1 | No Gas | 125.059 | ug/l | 5018330.08 |
| Sr | 88 | 72 | 3 | He | 119.217 | ug/l | 513206.10 |
| Mo | 95 | 115 | 1 | No Gas | 50.093 | ug/l | 440073.43 |
| Mo | 95 | 115 | 3 | He | 51.602 | ug/l | 158375.57 |
| Mo | 98 | 115 | 1 | No Gas | 51.100 | ug/l | 730182.14 |
| Ag | 107 | 115 | 1 | No Gas | 19.901 | ug/l | 448474.16 |
| Ag | 109 | 115 | 1 | No Gas | 19.548 | ug/l | 428128.89 |
| Cd | 111 | 115 | 1 | No Gas | 50.653 | ug/l | 256640.86 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Cd | 111 | 115 | 3 | He | 51.661 | ug/l | 83672.02 |
| Cd | 114 | 115 | 1 | No Gas | 52.041 | ug/l | 582901.94 |
| Cd | 114 | 115 | 3 | He | 51.524 | ug/l | 204880.54 |
| Sn | 118 | 115 | 1 | No Gas | 53.817 | ug/l | 776185.95 |
| Sn | 118 | 115 | 3 | He | 52.662 | ug/l | 198584.83 |
| Sb | 121 | 115 | 1 | No Gas | 52.630 | ug/l | 1193167.47 |
| Sb | 121 | 115 | 3 | He | 50.517 | ug/l | 295571.28 |
| Sb | 123 | 115 | 1 | No Gas | 51.911 | ug/l | 905010.11 |
| Sb | 123 | 115 | 3 | He | 50.424 | ug/l | 233136.47 |
| Ba | 135 | 115 | 1 | No Gas | 56.642 | ug/l | 251070.89 |
| Ba | 137 | 115 | 1 | No Gas | 54.395 | ug/l | 429027.12 |
| La | 139 | 115 | 3 | He | 0.003 | ug/l | 86.67 |
| Ce | 140 | 115 | 3 | He | 54.335 | ug/l | 1264007.24 |
| Hg | 201 | 209 | 1 | No Gas | 1.023 | ug/l | 3497.10 |
| Hg | 202 | 209 | 1 | No Gas | 1.039 | ug/l | 8153.54 |
| Hg | 202 | 209 | 3 | He | 1.066 | ug/l | 4121.48 |
| Tl | 203 | 209 | 3 | He | 49.719 | ug/l | 491454.17 |
| Tl | 205 | 209 | 1 | No Gas | 52.772 | ug/l | 2450582.48 |
| Tl | 205 | 209 | 3 | He | 50.928 | ug/l | 1192735.08 |
| [Pb] | 206 | 209 | 1 | No Gas | 52.568 | ug/l | 857627.54 |
| [Pb] | 207 | 209 | 1 | No Gas | 51.819 | ug/l | 739048.00 |
| Pb | 208 | 209 | 1 | No Gas | 51.943 | ug/l | 3419458.52 |
| Th | 232 | 209 | 3 | He | 51.415 | ug/l | 1695746.95 |
| U | 238 | 209 | 1 | No Gas | 53.484 | ug/l | 3503138.26 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4000670.95 | 71.0 |
| Sc | 45 | 2 | H2 | 2265003.18 | 82.5 |
| Sc | 45 | 3 | He | 227017.35 | 71.3 |
| Ge | 72 | 1 | No Gas | 1218342.76 | 80.6 |
| Ge | 72 | 2 | H2 | 884002.64 | 89.1 |
| Ge | 72 | 3 | He | 175692.08 | 78.9 |
| In | 115 | 1 | No Gas | 10299424.79 | 84.6 |
| In | 115 | 3 | He | 2125012.19 | 80.6 |
| Tb | 159 | 1 | No Gas | 14345317.11 | 87.8 |
| Tb | 159 | 3 | He | 6206596.54 | 90.8 |
| Ho | 165 | 1 | No Gas | 13753076.65 | 90.2 |
| Ho | 165 | 3 | He | 5997023.12 | 90.7 |
| Lu | 175 | 1 | No Gas | 14359587.31 | 92.3 |
| Lu | 175 | 3 | He | 4952137.74 | 92.5 |
| Bi | 209 | 1 | No Gas | 10287322.16 | 90.9 |
| Bi | 209 | 3 | He | 4602794.58 | 91.8 |

ICPMS207-B Analytical Data

Sample Name B22011124-001BMS4
File Name 054MS4.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 21:32:56
Sample Type MS4
Total Dilution 1.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 65.212 | ug/l | 433925.10 |
| Be | 9 | 45 | 1 | No Gas | 36.298 | ug/l | 99975.30 |
| B | 11 | 45 | 1 | No Gas | 126.766 | ug/l | 218157.84 |
| Na | 23 | 45 | 3 | He | 38954.212 | ug/l | 23566370.76 |
| Mg | 24 | 45 | 3 | He | 14693.934 | ug/l | 4897577.63 |
| Al | 27 | 45 | 1 | No Gas | 401.417 | ug/l | 6289638.45 |
| Si | 28 | 45 | 2 | H2 | 23171.756 | ug/l | 39577790.87 |
| K | 39 | 72 | 3 | He | 5989.164 | ug/l | 2333499.05 |
| Ca | 40 | 72 | 2 | H2 | 13706.775 | ug/l | 93513178.22 |
| Ti | 47 | 72 | 1 | No Gas | 84.623 | ug/l | 173066.18 |
| V | 51 | 72 | 1 | No Gas | 112.234 | ug/l | 2786776.06 |
| V | 51 | 72 | 3 | He | 112.034 | ug/l | 431341.95 |
| Cr | 52 | 72 | 1 | No Gas | 91.356 | ug/l | 2217053.76 |
| Cr | 52 | 72 | 3 | He | 95.950 | ug/l | 411630.62 |
| Mn | 55 | 72 | 1 | No Gas | 477.938 | ug/l | 14962215.64 |
| Mn | 55 | 72 | 3 | He | 480.188 | ug/l | 1334972.29 |
| Fe | 56 | 72 | 2 | H2 | 521.533 | ug/l | 8152385.22 |
| Fe | 56 | 72 | 3 | He | 489.944 | ug/l | 1864412.37 |
| Co | 59 | 72 | 1 | No Gas | 92.391 | ug/l | 2445957.86 |
| Ni | 60 | 72 | 1 | No Gas | 92.260 | ug/l | 556431.05 |
| Ni | 60 | 72 | 3 | He | 100.316 | ug/l | 177078.27 |
| Cu | 63 | 72 | 1 | No Gas | 93.297 | ug/l | 1355604.47 |
| Cu | 63 | 72 | 3 | He | 100.721 | ug/l | 468016.39 |
| Cu | 65 | 72 | 1 | No Gas | 92.764 | ug/l | 663413.69 |
| Zn | 66 | 72 | 1 | No Gas | 100.737 | ug/l | 498491.54 |
| Zn | 66 | 72 | 3 | He | 104.423 | ug/l | 101833.74 |
| As | 75 | 72 | 1 | No Gas | 96.887 | ug/l | 580826.08 |
| As | 75 | 72 | 3 | He | 98.999 | ug/l | 83449.28 |
| Se | 78 | 72 | 2 | H2 | 103.110 | ug/l | 58125.53 |
| Br | 79 | 72 | 1 | No Gas | 8.038 | ug/l | 151056.78 |
| Br | 79 | 72 | 2 | H2 | 7.089 | ug/l | 76075.22 |
| Se | 82 | 72 | 1 | No Gas | 97.893 | ug/l | 33514.47 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 63881.10 |
| Sr | 88 | 72 | 1 | No Gas | 170.917 | ug/l | 7194437.98 |
| Sr | 88 | 72 | 3 | He | 170.532 | ug/l | 744295.54 |
| Mo | 95 | 115 | 1 | No Gas | 96.760 | ug/l | 883536.75 |
| Mo | 95 | 115 | 3 | He | 98.054 | ug/l | 312254.55 |
| Mo | 98 | 115 | 1 | No Gas | 96.598 | ug/l | 1437441.84 |
| Ag | 107 | 115 | 1 | No Gas | 9.614 | ug/l | 226439.75 |
| Ag | 109 | 115 | 1 | No Gas | 9.602 | ug/l | 219335.78 |
| Cd | 111 | 115 | 1 | No Gas | 50.305 | ug/l | 265268.23 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|------------|
| Cd | 111 | 115 | 3 | He | 49.631 | ug/l | 83419.90 |
| Cd | 114 | 115 | 1 | No Gas | 51.131 | ug/l | 595948.22 |
| Cd | 114 | 115 | 3 | He | 50.002 | ug/l | 206340.29 |
| Sn | 118 | 115 | 1 | No Gas | 104.434 | ug/l | 1560663.01 |
| Sn | 118 | 115 | 3 | He | 101.097 | ug/l | 394951.64 |
| Sb | 121 | 115 | 1 | No Gas | 103.492 | ug/l | 2440674.46 |
| Sb | 121 | 115 | 3 | He | 98.836 | ug/l | 599883.59 |
| Sb | 123 | 115 | 1 | No Gas | 104.517 | ug/l | 1895451.81 |
| Sb | 123 | 115 | 3 | He | 100.435 | ug/l | 481753.09 |
| Ba | 135 | 115 | 1 | No Gas | 101.420 | ug/l | 468840.81 |
| Ba | 137 | 115 | 1 | No Gas | 100.442 | ug/l | 823847.09 |
| La | 139 | 115 | 3 | He | 106.086 | ug/l | 2340904.49 |
| Ce | 140 | 115 | 3 | He | 107.216 | ug/l | 2588243.14 |
| Hg | 201 | 209 | 1 | No Gas | 0.030 | ug/l | 132.31 |
| Hg | 202 | 209 | 1 | No Gas | 0.039 | ug/l | 403.92 |
| Hg | 202 | 209 | 3 | He | 0.038 | ug/l | 179.97 |
| Tl | 203 | 209 | 3 | He | 98.540 | ug/l | 999736.72 |
| Tl | 205 | 209 | 1 | No Gas | 102.860 | ug/l | 4985629.65 |
| Tl | 205 | 209 | 3 | He | 100.054 | ug/l | 2405339.69 |
| [Pb] | 206 | 209 | 1 | No Gas | 103.081 | ug/l | 1756496.02 |
| [Pb] | 207 | 209 | 1 | No Gas | 104.749 | ug/l | 1558613.15 |
| Pb | 208 | 209 | 1 | No Gas | 103.322 | ug/l | 7103428.07 |
| Th | 232 | 209 | 3 | He | 102.533 | ug/l | 3472509.05 |
| U | 238 | 209 | 1 | No Gas | 107.042 | ug/l | 7314645.41 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4175836.07 | 74.1 |
| Sc | 45 | 2 | H2 | 2259753.37 | 82.3 |
| Sc | 45 | 3 | He | 223473.73 | 70.2 |
| Ge | 72 | 1 | No Gas | 1236541.92 | 81.8 |
| Ge | 72 | 2 | H2 | 864738.54 | 87.1 |
| Ge | 72 | 3 | He | 172942.89 | 77.7 |
| In | 115 | 1 | No Gas | 10393746.39 | 85.4 |
| In | 115 | 3 | He | 2140960.95 | 81.2 |
| Tb | 159 | 1 | No Gas | 14981292.85 | 91.7 |
| Tb | 159 | 3 | He | 6302402.65 | 92.2 |
| Ho | 165 | 1 | No Gas | 14348112.61 | 94.1 |
| Ho | 165 | 3 | He | 6154864.33 | 93.1 |
| Lu | 175 | 1 | No Gas | 14993965.73 | 96.3 |
| Lu | 175 | 3 | He | 4792476.84 | 89.5 |
| Bi | 209 | 1 | No Gas | 10519648.03 | 92.9 |
| Bi | 209 | 3 | He | 4589039.72 | 91.6 |

ICPMS207-B Analytical Data

Sample Name B22011124-001BMSD4
File Name 055MSD4.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 21:39:10
Sample Type MSD4
Total Dilution 1.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 67.984 | ug/l | 438737.89 |
| Be | 9 | 45 | 1 | No Gas | 38.342 | ug/l | 102471.83 |
| B | 11 | 45 | 1 | No Gas | 136.201 | ug/l | 227544.34 |
| Na | 23 | 45 | 3 | He | 40367.961 | ug/l | 24149538.53 |
| Mg | 24 | 45 | 3 | He | 14896.411 | ug/l | 4910054.65 |
| Al | 27 | 45 | 1 | No Gas | 408.326 | ug/l | 6212014.91 |
| Si | 28 | 45 | 2 | H2 | 24252.264 | ug/l | 40704535.88 |
| K | 39 | 72 | 3 | He | 5913.573 | ug/l | 2293093.32 |
| Ca | 40 | 72 | 2 | H2 | 13557.687 | ug/l | 91622409.18 |
| Ti | 47 | 72 | 1 | No Gas | 85.184 | ug/l | 175127.61 |
| V | 51 | 72 | 1 | No Gas | 106.565 | ug/l | 2660213.50 |
| V | 51 | 72 | 3 | He | 113.783 | ug/l | 435630.85 |
| Cr | 52 | 72 | 1 | No Gas | 89.242 | ug/l | 2174015.20 |
| Cr | 52 | 72 | 3 | He | 96.176 | ug/l | 410551.89 |
| Mn | 55 | 72 | 1 | No Gas | 472.872 | ug/l | 14863562.01 |
| Mn | 55 | 72 | 3 | He | 477.076 | ug/l | 1319697.84 |
| Fe | 56 | 72 | 2 | H2 | 530.570 | ug/l | 8214746.23 |
| Fe | 56 | 72 | 3 | He | 505.927 | ug/l | 1915666.82 |
| Co | 59 | 72 | 1 | No Gas | 93.135 | ug/l | 2474210.50 |
| Ni | 60 | 72 | 1 | No Gas | 90.390 | ug/l | 546989.43 |
| Ni | 60 | 72 | 3 | He | 99.790 | ug/l | 175353.27 |
| Cu | 63 | 72 | 1 | No Gas | 92.879 | ug/l | 1352868.07 |
| Cu | 63 | 72 | 3 | He | 100.794 | ug/l | 466300.76 |
| Cu | 65 | 72 | 1 | No Gas | 89.852 | ug/l | 645209.33 |
| Zn | 66 | 72 | 1 | No Gas | 96.677 | ug/l | 480861.58 |
| Zn | 66 | 72 | 3 | He | 104.620 | ug/l | 101513.96 |
| As | 75 | 72 | 1 | No Gas | 93.782 | ug/l | 564842.67 |
| As | 75 | 72 | 3 | He | 98.916 | ug/l | 82980.01 |
| Se | 78 | 72 | 2 | H2 | 103.569 | ug/l | 57837.40 |
| Br | 79 | 72 | 1 | No Gas | 8.464 | ug/l | 157005.93 |
| Br | 79 | 72 | 2 | H2 | 7.616 | ug/l | 78800.86 |
| Se | 82 | 72 | 1 | No Gas | 97.547 | ug/l | 33515.77 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 62942.29 |
| Sr | 88 | 72 | 1 | No Gas | 169.468 | ug/l | 7167517.44 |
| Sr | 88 | 72 | 3 | He | 168.805 | ug/l | 733446.64 |
| Mo | 95 | 115 | 1 | No Gas | 93.604 | ug/l | 864989.13 |
| Mo | 95 | 115 | 3 | He | 99.835 | ug/l | 309085.91 |
| Mo | 98 | 115 | 1 | No Gas | 94.154 | ug/l | 1414672.35 |
| Ag | 107 | 115 | 1 | No Gas | 9.406 | ug/l | 223717.92 |
| Ag | 109 | 115 | 1 | No Gas | 9.381 | ug/l | 217039.32 |
| Cd | 111 | 115 | 1 | No Gas | 49.028 | ug/l | 261409.20 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|------------|
| Cd | 111 | 115 | 3 | He | 51.083 | ug/l | 83536.92 |
| Cd | 114 | 115 | 1 | No Gas | 50.312 | ug/l | 593161.73 |
| Cd | 114 | 115 | 3 | He | 51.628 | ug/l | 207255.95 |
| Sn | 118 | 115 | 1 | No Gas | 100.523 | ug/l | 1524595.93 |
| Sn | 118 | 115 | 3 | He | 103.475 | ug/l | 393480.20 |
| Sb | 121 | 115 | 1 | No Gas | 102.227 | ug/l | 2438378.38 |
| Sb | 121 | 115 | 3 | He | 102.611 | ug/l | 605786.36 |
| Sb | 123 | 115 | 1 | No Gas | 102.757 | ug/l | 1885390.90 |
| Sb | 123 | 115 | 3 | He | 103.677 | ug/l | 483669.25 |
| Ba | 135 | 115 | 1 | No Gas | 96.592 | ug/l | 451953.22 |
| Ba | 137 | 115 | 1 | No Gas | 96.390 | ug/l | 800650.11 |
| La | 139 | 115 | 3 | He | 108.732 | ug/l | 2334271.56 |
| Ce | 140 | 115 | 3 | He | 110.929 | ug/l | 2605964.18 |
| Hg | 201 | 209 | 1 | No Gas | 0.026 | ug/l | 117.31 |
| Hg | 202 | 209 | 1 | No Gas | 0.033 | ug/l | 354.60 |
| Hg | 202 | 209 | 3 | He | 0.030 | ug/l | 151.97 |
| Tl | 203 | 209 | 3 | He | 97.358 | ug/l | 1003099.48 |
| Tl | 205 | 209 | 1 | No Gas | 104.195 | ug/l | 5068800.03 |
| Tl | 205 | 209 | 3 | He | 100.923 | ug/l | 2460779.75 |
| [Pb] | 206 | 209 | 1 | No Gas | 102.329 | ug/l | 1747365.01 |
| [Pb] | 207 | 209 | 1 | No Gas | 104.585 | ug/l | 1559401.83 |
| Pb | 208 | 209 | 1 | No Gas | 102.987 | ug/l | 7098047.79 |
| Th | 232 | 209 | 3 | He | 102.474 | ug/l | 3519670.33 |
| U | 238 | 209 | 1 | No Gas | 107.697 | ug/l | 7389088.44 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4124857.78 | 73.2 |
| Sc | 45 | 2 | H2 | 2220539.83 | 80.9 |
| Sc | 45 | 3 | He | 221050.86 | 69.4 |
| Ge | 72 | 1 | No Gas | 1248479.31 | 82.6 |
| Ge | 72 | 2 | H2 | 856674.00 | 86.3 |
| Ge | 72 | 3 | He | 172379.32 | 77.4 |
| In | 115 | 1 | No Gas | 10591877.63 | 87.0 |
| In | 115 | 3 | He | 2090747.84 | 79.3 |
| Tb | 159 | 1 | No Gas | 15237387.90 | 93.2 |
| Tb | 159 | 3 | He | 6161562.80 | 90.2 |
| Ho | 165 | 1 | No Gas | 14629124.86 | 95.9 |
| Ho | 165 | 3 | He | 6052515.79 | 91.5 |
| Lu | 175 | 1 | No Gas | 14996369.49 | 96.4 |
| Lu | 175 | 3 | He | 4886340.96 | 91.2 |
| Bi | 209 | 1 | No Gas | 10543489.75 | 93.1 |
| Bi | 209 | 3 | He | 4682709.92 | 93.4 |

ICPMS207-B Analytical Data

Sample Name Rinse
File Name 056BLKV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 21:45:24
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | 1.083 | ug/l | 20792.48 |
| Be | 9 | 45 | 1 | No Gas | -0.036 | ug/l | 86.65 |
| B | 11 | 45 | 1 | No Gas | 0.779 | ug/l | 5987.61 |
| Na | 23 | 45 | 3 | He | 44.620 | ug/l | 66544.06 |
| Mg | 24 | 45 | 3 | He | 1.070 | ug/l | 1816.52 |
| Al | 27 | 45 | 1 | No Gas | -0.069 | ug/l | 12420.77 |
| Si | 28 | 45 | 2 | H2 | 7.756 | ug/l | 20540.35 |
| K | 39 | 72 | 3 | He | -24.928 | ug/l | 58528.07 |
| Ca | 40 | 72 | 2 | H2 | -1.546 | ug/l | 82030.32 |
| Ti | 47 | 72 | 1 | No Gas | 0.009 | ug/l | 210.21 |
| V | 51 | 72 | 1 | No Gas | 3.170 | ug/l | 34835.11 |
| V | 51 | 72 | 3 | He | 0.457 | ug/l | 14695.22 |
| Cr | 52 | 72 | 1 | No Gas | -0.732 | ug/l | 66716.12 |
| Cr | 52 | 72 | 3 | He | 0.035 | ug/l | 881.14 |
| Mn | 55 | 72 | 1 | No Gas | 0.158 | ug/l | 14688.26 |
| Mn | 55 | 72 | 3 | He | 0.151 | ug/l | 573.57 |
| Fe | 56 | 72 | 2 | H2 | 0.159 | ug/l | 12050.44 |
| Fe | 56 | 72 | 3 | He | 0.166 | ug/l | 5484.88 |
| Co | 59 | 72 | 1 | No Gas | 0.009 | ug/l | 741.89 |
| Ni | 60 | 72 | 1 | No Gas | 0.004 | ug/l | 455.77 |
| Ni | 60 | 72 | 3 | He | 0.010 | ug/l | 100.00 |
| Cu | 63 | 72 | 1 | No Gas | 0.006 | ug/l | 1870.21 |
| Cu | 63 | 72 | 3 | He | 0.010 | ug/l | 611.89 |
| Cu | 65 | 72 | 1 | No Gas | 0.001 | ug/l | 847.03 |
| Zn | 66 | 72 | 1 | No Gas | 0.086 | ug/l | 1342.34 |
| Zn | 66 | 72 | 3 | He | 0.094 | ug/l | 283.34 |
| As | 75 | 72 | 1 | No Gas | 0.466 | ug/l | 15352.80 |
| As | 75 | 72 | 3 | He | -0.012 | ug/l | 221.60 |
| Se | 78 | 72 | 2 | H2 | 0.000 | ug/l | 31.11 |
| Br | 79 | 72 | 1 | No Gas | 23.320 | ug/l | 344804.73 |
| Br | 79 | 72 | 2 | H2 | 22.440 | ug/l | 187181.10 |
| Se | 82 | 72 | 1 | No Gas | 0.488 | ug/l | 820.89 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 18611.73 |
| Sr | 88 | 72 | 1 | No Gas | 0.000 | ug/l | 688.65 |
| Sr | 88 | 72 | 3 | He | -0.007 | ug/l | 210.00 |
| Mo | 95 | 115 | 1 | No Gas | 0.018 | ug/l | 236.67 |
| Mo | 95 | 115 | 3 | He | 0.009 | ug/l | 51.11 |
| Mo | 98 | 115 | 1 | No Gas | 0.016 | ug/l | 358.14 |
| Ag | 107 | 115 | 1 | No Gas | -0.002 | ug/l | 1712.13 |
| Ag | 109 | 115 | 1 | No Gas | 0.001 | ug/l | 1678.11 |
| Cd | 111 | 115 | 1 | No Gas | 0.007 | ug/l | 38.77 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.010 | ug/l | 23.00 |
| Cd | 114 | 115 | 1 | No Gas | 0.011 | ug/l | -23.01 |
| Cd | 114 | 115 | 3 | He | 0.009 | ug/l | 51.27 |
| Sn | 118 | 115 | 1 | No Gas | 0.034 | ug/l | 3593.36 |
| Sn | 118 | 115 | 3 | He | 0.021 | ug/l | 866.70 |
| Sb | 121 | 115 | 1 | No Gas | 0.125 | ug/l | 4145.73 |
| Sb | 121 | 115 | 3 | He | 0.089 | ug/l | 765.10 |
| Sb | 123 | 115 | 1 | No Gas | 0.128 | ug/l | 3249.06 |
| Sb | 123 | 115 | 3 | He | 0.081 | ug/l | 558.40 |
| Ba | 135 | 115 | 1 | No Gas | 0.006 | ug/l | 93.15 |
| Ba | 137 | 115 | 1 | No Gas | 0.002 | ug/l | 109.78 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 23.33 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 34.44 |
| Hg | 201 | 209 | 1 | No Gas | 0.005 | ug/l | 51.32 |
| Hg | 202 | 209 | 1 | No Gas | 0.004 | ug/l | 134.31 |
| Hg | 202 | 209 | 3 | He | 0.005 | ug/l | 56.32 |
| Tl | 203 | 209 | 3 | He | 0.247 | ug/l | 3415.16 |
| Tl | 205 | 209 | 1 | No Gas | 0.240 | ug/l | 16016.79 |
| Tl | 205 | 209 | 3 | He | 0.246 | ug/l | 8144.44 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.022 | ug/l | 1047.83 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.023 | ug/l | 926.71 |
| Pb | 208 | 209 | 1 | No Gas | 0.022 | ug/l | 4231.41 |
| Th | 232 | 209 | 3 | He | 0.021 | ug/l | 1395.31 |
| U | 238 | 209 | 1 | No Gas | 0.003 | ug/l | 302.61 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4577789.28 | 81.2 |
| Sc | 45 | 2 | H2 | 2404404.83 | 87.6 |
| Sc | 45 | 3 | He | 243490.13 | 76.5 |
| Ge | 72 | 1 | No Gas | 1305415.35 | 86.3 |
| Ge | 72 | 2 | H2 | 913118.50 | 92.0 |
| Ge | 72 | 3 | He | 182788.08 | 82.1 |
| In | 115 | 1 | No Gas | 11504793.93 | 94.5 |
| In | 115 | 3 | He | 2297747.73 | 87.2 |
| Tb | 159 | 1 | No Gas | 16166763.90 | 98.9 |
| Tb | 159 | 3 | He | 6628575.37 | 97.0 |
| Ho | 165 | 1 | No Gas | 15750868.86 | 103.3 |
| Ho | 165 | 3 | He | 6479834.82 | 98.0 |
| Lu | 175 | 1 | No Gas | 16279961.26 | 104.6 |
| Lu | 175 | 3 | He | 5247954.12 | 98.0 |
| Bi | 209 | 1 | No Gas | 11848545.09 | 104.6 |
| Bi | 209 | 3 | He | 5144382.66 | 102.6 |

ICPMS207-B Analytical Data

Sample Name B22011125-001A
File Name 057SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 21:51:37
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|--------------|
| Li | 7 | 45 | 1 | No Gas | 0.336 | ug/l | 18847.85 |
| Be | 9 | 45 | 1 | No Gas | -0.048 | ug/l | 60.99 |
| B | 11 | 45 | 1 | No Gas | 31.952 | ug/l | 77799.01 |
| Na | 23 | 45 | 3 | He | 32126.916 | ug/l | 27127814.32 |
| Mg | 24 | 45 | 3 | He | 15111.242 | ug/l | 7028956.54 |
| Al | 27 | 45 | 1 | No Gas | 4.066 | ug/l | 101682.39 |
| Si | 28 | 45 | 2 | H2 | 23744.232 | ug/l | 50271414.41 |
| K | 39 | 72 | 3 | He | 1847.569 | ug/l | 986785.45 |
| Ca | 40 | 72 | 2 | H2 | 15149.724 | ug/l | 121155232.63 |
| Ti | 47 | 72 | 1 | No Gas | 1.742 | ug/l | 4475.22 |
| V | 51 | 72 | 1 | No Gas | 20.023 | ug/l | 547809.52 |
| V | 51 | 72 | 3 | He | 15.395 | ug/l | 90050.73 |
| Cr | 52 | 72 | 1 | No Gas | 0.350 | ug/l | 105790.02 |
| Cr | 52 | 72 | 3 | He | 2.359 | ug/l | 13918.87 |
| Mn | 55 | 72 | 1 | No Gas | 2.721 | ug/l | 112629.70 |
| Mn | 55 | 72 | 3 | He | 2.899 | ug/l | 10556.68 |
| Fe | 56 | 72 | 2 | H2 | 8.715 | ug/l | 170069.23 |
| Fe | 56 | 72 | 3 | He | 8.091 | ug/l | 45507.12 |
| Co | 59 | 72 | 1 | No Gas | 0.041 | ug/l | 1859.78 |
| Ni | 60 | 72 | 1 | No Gas | 0.571 | ug/l | 4601.62 |
| Ni | 60 | 72 | 3 | He | 0.479 | ug/l | 1190.06 |
| Cu | 63 | 72 | 1 | No Gas | 0.685 | ug/l | 13891.53 |
| Cu | 63 | 72 | 3 | He | 0.491 | ug/l | 3622.73 |
| Cu | 65 | 72 | 1 | No Gas | 0.544 | ug/l | 5605.34 |
| Zn | 66 | 72 | 1 | No Gas | 7.363 | ug/l | 44516.46 |
| Zn | 66 | 72 | 3 | He | 7.734 | ug/l | 9942.33 |
| As | 75 | 72 | 1 | No Gas | -0.075 | ug/l | 13536.29 |
| As | 75 | 72 | 3 | He | -0.103 | ug/l | 171.73 |
| Se | 78 | 72 | 2 | H2 | 0.155 | ug/l | 137.45 |
| Br | 79 | 72 | 1 | No Gas | 15.175 | ug/l | 278559.24 |
| Br | 79 | 72 | 2 | H2 | 14.579 | ug/l | 147044.03 |
| Se | 82 | 72 | 1 | No Gas | 0.422 | ug/l | 902.63 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 51068.70 |
| Sr | 88 | 72 | 1 | No Gas | 100.440 | ug/l | 5057125.46 |
| Sr | 88 | 72 | 3 | He | 96.120 | ug/l | 541463.28 |
| Mo | 95 | 115 | 1 | No Gas | 0.114 | ug/l | 1306.74 |
| Mo | 95 | 115 | 3 | He | 0.117 | ug/l | 483.35 |
| Mo | 98 | 115 | 1 | No Gas | 0.115 | ug/l | 2141.91 |
| Ag | 107 | 115 | 1 | No Gas | -0.055 | ug/l | 359.48 |
| Ag | 109 | 115 | 1 | No Gas | -0.054 | ug/l | 312.13 |
| Cd | 111 | 115 | 1 | No Gas | 0.026 | ug/l | 160.97 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.027 | ug/l | 61.89 |
| Cd | 114 | 115 | 1 | No Gas | 0.037 | ug/l | 342.97 |
| Cd | 114 | 115 | 3 | He | 0.030 | ug/l | 165.22 |
| Sn | 118 | 115 | 1 | No Gas | -0.055 | ug/l | 2252.39 |
| Sn | 118 | 115 | 3 | He | -0.059 | ug/l | 613.35 |
| Sb | 121 | 115 | 1 | No Gas | 0.213 | ug/l | 6951.75 |
| Sb | 121 | 115 | 3 | He | 0.213 | ug/l | 1815.97 |
| Sb | 123 | 115 | 1 | No Gas | 0.214 | ug/l | 5338.55 |
| Sb | 123 | 115 | 3 | He | 0.210 | ug/l | 1413.55 |
| Ba | 135 | 115 | 1 | No Gas | 3.793 | ug/l | 21037.57 |
| Ba | 137 | 115 | 1 | No Gas | 3.792 | ug/l | 37379.30 |
| La | 139 | 115 | 3 | He | 0.005 | ug/l | 157.78 |
| Ce | 140 | 115 | 3 | He | 0.014 | ug/l | 438.90 |
| Hg | 201 | 209 | 1 | No Gas | 0.001 | ug/l | 34.66 |
| Hg | 202 | 209 | 1 | No Gas | -0.001 | ug/l | 87.65 |
| Hg | 202 | 209 | 3 | He | 0.003 | ug/l | 44.32 |
| Tl | 203 | 209 | 3 | He | 0.130 | ug/l | 2089.67 |
| Tl | 205 | 209 | 1 | No Gas | 0.093 | ug/l | 7882.50 |
| Tl | 205 | 209 | 3 | He | 0.125 | ug/l | 4875.52 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.058 | ug/l | 1745.68 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.054 | ug/l | 1444.53 |
| Pb | 208 | 209 | 1 | No Gas | 0.054 | ug/l | 6744.04 |
| Th | 232 | 209 | 3 | He | -0.002 | ug/l | 508.22 |
| U | 238 | 209 | 1 | No Gas | 0.009 | ug/l | 831.19 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5574866.61 | 98.9 |
| Sc | 45 | 2 | H2 | 2801219.30 | 102.1 |
| Sc | 45 | 3 | He | 311817.75 | 97.9 |
| Ge | 72 | 1 | No Gas | 1477059.54 | 97.7 |
| Ge | 72 | 2 | H2 | 1013726.98 | 102.2 |
| Ge | 72 | 3 | He | 223170.62 | 100.2 |
| In | 115 | 1 | No Gas | 12349611.76 | 101.5 |
| In | 115 | 3 | He | 2657651.62 | 100.8 |
| Tb | 159 | 1 | No Gas | 17088490.60 | 104.6 |
| Tb | 159 | 3 | He | 7130647.27 | 104.4 |
| Ho | 165 | 1 | No Gas | 15931645.77 | 104.5 |
| Ho | 165 | 3 | He | 6841193.92 | 103.4 |
| Lu | 175 | 1 | No Gas | 16606136.49 | 106.7 |
| Lu | 175 | 3 | He | 5703923.57 | 106.5 |
| Bi | 209 | 1 | No Gas | 11790008.03 | 104.1 |
| Bi | 209 | 3 | He | 5135327.75 | 102.5 |

ICPMS207-B Analytical Data

Sample Name B22011125-001B
File Name 058SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 21:57:52
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 1.916 | ug/l | 23686.52 |
| Be | 9 | 45 | 1 | No Gas | -0.035 | ug/l | 77.98 |
| B | 11 | 45 | 1 | No Gas | 35.031 | ug/l | 61686.17 |
| Na | 23 | 45 | 3 | He | 32179.228 | ug/l | 18320650.00 |
| Mg | 24 | 45 | 3 | He | 15405.271 | ug/l | 4839324.03 |
| Al | 27 | 45 | 1 | No Gas | 114.071 | ug/l | 1749596.48 |
| Si | 28 | 45 | 2 | H2 | 23867.963 | ug/l | 39392452.07 |
| K | 39 | 72 | 3 | He | 1683.632 | ug/l | 669163.33 |
| Ca | 40 | 72 | 2 | H2 | 14597.647 | ug/l | 94323547.73 |
| Ti | 47 | 72 | 1 | No Gas | 9.402 | ug/l | 18640.69 |
| V | 51 | 72 | 1 | No Gas | 19.427 | ug/l | 424727.45 |
| V | 51 | 72 | 3 | He | 20.213 | ug/l | 83595.96 |
| Cr | 52 | 72 | 1 | No Gas | 4.064 | ug/l | 168299.96 |
| Cr | 52 | 72 | 3 | He | 2.870 | ug/l | 12347.50 |
| Mn | 55 | 72 | 1 | No Gas | 19.203 | ug/l | 586148.62 |
| Mn | 55 | 72 | 3 | He | 19.028 | ug/l | 50479.66 |
| Fe | 56 | 72 | 2 | H2 | 148.910 | ug/l | 2210885.55 |
| Fe | 56 | 72 | 3 | He | 139.455 | ug/l | 508404.43 |
| Co | 59 | 72 | 1 | No Gas | 0.231 | ug/l | 6322.22 |
| Ni | 60 | 72 | 1 | No Gas | 1.306 | ug/l | 7949.76 |
| Ni | 60 | 72 | 3 | He | 1.240 | ug/l | 2155.73 |
| Cu | 63 | 72 | 1 | No Gas | 1.409 | ug/l | 21249.98 |
| Cu | 63 | 72 | 3 | He | 1.253 | ug/l | 6044.05 |
| Cu | 65 | 72 | 1 | No Gas | 1.204 | ug/l | 9030.43 |
| Zn | 66 | 72 | 1 | No Gas | 15.075 | ug/l | 72356.10 |
| Zn | 66 | 72 | 3 | He | 15.706 | ug/l | 14739.77 |
| As | 75 | 72 | 1 | No Gas | 1.283 | ug/l | 18551.76 |
| As | 75 | 72 | 3 | He | 0.230 | ug/l | 393.40 |
| Se | 78 | 72 | 2 | H2 | 0.204 | ug/l | 137.22 |
| Br | 79 | 72 | 1 | No Gas | 9.510 | ug/l | 161268.14 |
| Br | 79 | 72 | 2 | H2 | 8.519 | ug/l | 80988.63 |
| Se | 82 | 72 | 1 | No Gas | 0.154 | ug/l | 639.27 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 42037.67 |
| Sr | 88 | 72 | 1 | No Gas | 100.043 | ug/l | 4045487.73 |
| Sr | 88 | 72 | 3 | He | 97.585 | ug/l | 405796.30 |
| Mo | 95 | 115 | 1 | No Gas | 0.205 | ug/l | 1935.70 |
| Mo | 95 | 115 | 3 | He | 0.218 | ug/l | 690.02 |
| Mo | 98 | 115 | 1 | No Gas | 0.214 | ug/l | 3286.72 |
| Ag | 107 | 115 | 1 | No Gas | 0.541 | ug/l | 14315.64 |
| Ag | 109 | 115 | 1 | No Gas | 0.533 | ug/l | 13664.74 |
| Cd | 111 | 115 | 1 | No Gas | 0.009 | ug/l | 42.52 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.006 | ug/l | 15.45 |
| Cd | 114 | 115 | 1 | No Gas | 0.014 | ug/l | 11.53 |
| Cd | 114 | 115 | 3 | He | 0.004 | ug/l | 25.61 |
| Sn | 118 | 115 | 1 | No Gas | 0.590 | ug/l | 11598.49 |
| Sn | 118 | 115 | 3 | He | 0.687 | ug/l | 3285.96 |
| Sb | 121 | 115 | 1 | No Gas | 0.241 | ug/l | 6497.15 |
| Sb | 121 | 115 | 3 | He | 0.249 | ug/l | 1626.26 |
| Sb | 123 | 115 | 1 | No Gas | 0.244 | ug/l | 5033.75 |
| Sb | 123 | 115 | 3 | He | 0.241 | ug/l | 1242.85 |
| Ba | 135 | 115 | 1 | No Gas | 4.461 | ug/l | 20777.73 |
| Ba | 137 | 115 | 1 | No Gas | 4.502 | ug/l | 37266.07 |
| La | 139 | 115 | 3 | He | 0.051 | ug/l | 1100.05 |
| Ce | 140 | 115 | 3 | He | 0.132 | ug/l | 3089.26 |
| Hg | 201 | 209 | 1 | No Gas | 0.012 | ug/l | 70.32 |
| Hg | 202 | 209 | 1 | No Gas | 0.017 | ug/l | 223.62 |
| Hg | 202 | 209 | 3 | He | 0.018 | ug/l | 99.98 |
| Tl | 203 | 209 | 3 | He | 0.092 | ug/l | 1484.02 |
| Tl | 205 | 209 | 1 | No Gas | 0.071 | ug/l | 5878.04 |
| Tl | 205 | 209 | 3 | He | 0.093 | ug/l | 3602.61 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.264 | ug/l | 5084.34 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.257 | ug/l | 4336.29 |
| Pb | 208 | 209 | 1 | No Gas | 0.258 | ug/l | 20180.60 |
| Th | 232 | 209 | 3 | He | 0.051 | ug/l | 2247.77 |
| U | 238 | 209 | 1 | No Gas | 0.013 | ug/l | 949.86 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4061565.41 | 72.0 |
| Sc | 45 | 2 | H2 | 2183677.88 | 79.6 |
| Sc | 45 | 3 | He | 211026.63 | 66.3 |
| Ge | 72 | 1 | No Gas | 1186301.07 | 78.5 |
| Ge | 72 | 2 | H2 | 819077.57 | 82.5 |
| Ge | 72 | 3 | He | 165082.31 | 74.1 |
| In | 115 | 1 | No Gas | 10379466.85 | 85.3 |
| In | 115 | 3 | He | 2077911.76 | 78.8 |
| Tb | 159 | 1 | No Gas | 15202650.55 | 93.0 |
| Tb | 159 | 3 | He | 6299806.98 | 92.2 |
| Ho | 165 | 1 | No Gas | 14872929.18 | 97.5 |
| Ho | 165 | 3 | He | 6093091.21 | 92.1 |
| Lu | 175 | 1 | No Gas | 15056757.79 | 96.7 |
| Lu | 175 | 3 | He | 4933698.63 | 92.1 |
| Bi | 209 | 1 | No Gas | 10457794.67 | 92.4 |
| Bi | 209 | 3 | He | 4596902.26 | 91.7 |

ICPMS207-B Analytical Data

Sample Name B22011126-001A
File Name 059SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 22:04:07
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|--------------|
| Li | 7 | 45 | 1 | No Gas | 0.104 | ug/l | 16897.46 |
| Be | 9 | 45 | 1 | No Gas | -0.046 | ug/l | 67.65 |
| B | 11 | 45 | 1 | No Gas | 74.442 | ug/l | 174528.89 |
| Na | 23 | 45 | 3 | He | 56307.099 | ug/l | 46390304.31 |
| Mg | 24 | 45 | 3 | He | 30976.162 | ug/l | 14067802.16 |
| Al | 27 | 45 | 1 | No Gas | 2.161 | ug/l | 62005.33 |
| Si | 28 | 45 | 2 | H2 | 19214.308 | ug/l | 38670189.18 |
| K | 39 | 72 | 3 | He | 2843.332 | ug/l | 1430090.81 |
| Ca | 40 | 72 | 2 | H2 | 29674.400 | ug/l | 225163262.00 |
| Ti | 47 | 72 | 1 | No Gas | 1.181 | ug/l | 3130.16 |
| V | 51 | 72 | 1 | No Gas | 10.106 | ug/l | 250015.12 |
| V | 51 | 72 | 3 | He | 6.104 | ug/l | 43875.21 |
| Cr | 52 | 72 | 1 | No Gas | -1.699 | ug/l | 48923.96 |
| Cr | 52 | 72 | 3 | He | 0.131 | ug/l | 1556.76 |
| Mn | 55 | 72 | 1 | No Gas | 185.210 | ug/l | 7002332.81 |
| Mn | 55 | 72 | 3 | He | 187.306 | ug/l | 652263.73 |
| Fe | 56 | 72 | 2 | H2 | 0.980 | ug/l | 26978.22 |
| Fe | 56 | 72 | 3 | He | 0.719 | ug/l | 9125.37 |
| Co | 59 | 72 | 1 | No Gas | 0.313 | ug/l | 10552.93 |
| Ni | 60 | 72 | 1 | No Gas | 2.070 | ug/l | 15540.91 |
| Ni | 60 | 72 | 3 | He | 2.021 | ug/l | 4560.74 |
| Cu | 63 | 72 | 1 | No Gas | 0.881 | ug/l | 17448.76 |
| Cu | 63 | 72 | 3 | He | 0.630 | ug/l | 4325.45 |
| Cu | 65 | 72 | 1 | No Gas | 0.646 | ug/l | 6532.09 |
| Zn | 66 | 72 | 1 | No Gas | 2.047 | ug/l | 13216.24 |
| Zn | 66 | 72 | 3 | He | 2.205 | ug/l | 2910.31 |
| As | 75 | 72 | 1 | No Gas | 0.170 | ug/l | 15392.68 |
| As | 75 | 72 | 3 | He | 0.470 | ug/l | 769.81 |
| Se | 78 | 72 | 2 | H2 | 0.106 | ug/l | 99.78 |
| Br | 79 | 72 | 1 | No Gas | 39.304 | ug/l | 614729.21 |
| Br | 79 | 72 | 2 | H2 | 40.493 | ug/l | 329686.65 |
| Se | 82 | 72 | 1 | No Gas | 0.557 | ug/l | 965.57 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 89392.13 |
| Sr | 88 | 72 | 1 | No Gas | 221.815 | ug/l | 11261667.06 |
| Sr | 88 | 72 | 3 | He | 224.305 | ug/l | 1226115.01 |
| Mo | 95 | 115 | 1 | No Gas | 10.356 | ug/l | 110302.57 |
| Mo | 95 | 115 | 3 | He | 10.600 | ug/l | 40206.52 |
| Mo | 98 | 115 | 1 | No Gas | 10.142 | ug/l | 175921.50 |
| Ag | 107 | 115 | 1 | No Gas | -0.064 | ug/l | 108.71 |
| Ag | 109 | 115 | 1 | No Gas | -0.061 | ug/l | 116.05 |
| Cd | 111 | 115 | 1 | No Gas | 0.030 | ug/l | 182.76 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.028 | ug/l | 63.22 |
| Cd | 114 | 115 | 1 | No Gas | 0.043 | ug/l | 420.39 |
| Cd | 114 | 115 | 3 | He | 0.028 | ug/l | 152.61 |
| Sn | 118 | 115 | 1 | No Gas | -0.027 | ug/l | 2691.61 |
| Sn | 118 | 115 | 3 | He | -0.051 | ug/l | 627.80 |
| Sb | 121 | 115 | 1 | No Gas | 0.374 | ug/l | 11201.24 |
| Sb | 121 | 115 | 3 | He | 0.376 | ug/l | 2919.60 |
| Sb | 123 | 115 | 1 | No Gas | 0.370 | ug/l | 8503.77 |
| Sb | 123 | 115 | 3 | He | 0.366 | ug/l | 2250.74 |
| Ba | 135 | 115 | 1 | No Gas | 4.063 | ug/l | 21940.62 |
| Ba | 137 | 115 | 1 | No Gas | 4.042 | ug/l | 38800.60 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 27.78 |
| Ce | 140 | 115 | 3 | He | 0.001 | ug/l | 66.67 |
| Hg | 201 | 209 | 1 | No Gas | 0.006 | ug/l | 54.99 |
| Hg | 202 | 209 | 1 | No Gas | 0.051 | ug/l | 561.24 |
| Hg | 202 | 209 | 3 | He | 0.044 | ug/l | 224.29 |
| Tl | 203 | 209 | 3 | He | 0.042 | ug/l | 1075.81 |
| Tl | 205 | 209 | 1 | No Gas | 0.033 | ug/l | 4444.12 |
| Tl | 205 | 209 | 3 | He | 0.043 | ug/l | 2638.66 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.010 | ug/l | 794.47 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.013 | ug/l | 732.25 |
| Pb | 208 | 209 | 1 | No Gas | 0.010 | ug/l | 3276.85 |
| Th | 232 | 209 | 3 | He | -0.007 | ug/l | 312.13 |
| U | 238 | 209 | 1 | No Gas | 0.076 | ug/l | 5934.83 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5594715.92 | 99.2 |
| Sc | 45 | 2 | H2 | 2662787.26 | 97.0 |
| Sc | 45 | 3 | He | 304456.94 | 95.6 |
| Ge | 72 | 1 | No Gas | 1489288.49 | 98.5 |
| Ge | 72 | 2 | H2 | 962337.98 | 97.0 |
| Ge | 72 | 3 | He | 216601.79 | 97.3 |
| In | 115 | 1 | No Gas | 12029864.31 | 98.8 |
| In | 115 | 3 | He | 2549049.65 | 96.7 |
| Tb | 159 | 1 | No Gas | 17190333.89 | 105.2 |
| Tb | 159 | 3 | He | 7033946.77 | 102.9 |
| Ho | 165 | 1 | No Gas | 16330875.51 | 107.1 |
| Ho | 165 | 3 | He | 6796263.99 | 102.8 |
| Lu | 175 | 1 | No Gas | 17166180.16 | 110.3 |
| Lu | 175 | 3 | He | 5621643.48 | 105.0 |
| Bi | 209 | 1 | No Gas | 11607547.98 | 102.5 |
| Bi | 209 | 3 | He | 5060523.74 | 101.0 |

ICPMS207-B Analytical Data

Sample Name B22011126-001B
File Name 060SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 22:10:23
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|--------------|
| Li | 7 | 45 | 1 | No Gas | 1.482 | ug/l | 19854.86 |
| Be | 9 | 45 | 1 | No Gas | -0.035 | ug/l | 74.32 |
| B | 11 | 45 | 1 | No Gas | 73.919 | ug/l | 119190.86 |
| Na | 23 | 45 | 3 | He | 54737.053 | ug/l | 31060844.81 |
| Mg | 24 | 45 | 3 | He | 29563.527 | ug/l | 9245896.05 |
| Al | 27 | 45 | 1 | No Gas | 9.249 | ug/l | 144682.94 |
| Si | 28 | 45 | 2 | H2 | 18311.460 | ug/l | 30004269.02 |
| K | 39 | 72 | 3 | He | 2490.263 | ug/l | 960392.18 |
| Ca | 40 | 72 | 2 | H2 | 27784.836 | ug/l | 181588628.90 |
| Ti | 47 | 72 | 1 | No Gas | 1.805 | ug/l | 3625.78 |
| V | 51 | 72 | 1 | No Gas | 2.836 | ug/l | 21739.17 |
| V | 51 | 72 | 3 | He | 10.524 | ug/l | 49117.71 |
| Cr | 52 | 72 | 1 | No Gas | 1.482 | ug/l | 107679.51 |
| Cr | 52 | 72 | 3 | He | 0.355 | ug/l | 2100.17 |
| Mn | 55 | 72 | 1 | No Gas | 195.180 | ug/l | 5733635.79 |
| Mn | 55 | 72 | 3 | He | 184.985 | ug/l | 489919.78 |
| Fe | 56 | 72 | 2 | H2 | 11.497 | ug/l | 180640.47 |
| Fe | 56 | 72 | 3 | He | 11.211 | ug/l | 44880.00 |
| Co | 59 | 72 | 1 | No Gas | 0.437 | ug/l | 11301.96 |
| Ni | 60 | 72 | 1 | No Gas | 2.161 | ug/l | 12607.18 |
| Ni | 60 | 72 | 3 | He | 2.230 | ug/l | 3819.42 |
| Cu | 63 | 72 | 1 | No Gas | 1.277 | ug/l | 18939.25 |
| Cu | 63 | 72 | 3 | He | 0.967 | ug/l | 4779.83 |
| Cu | 65 | 72 | 1 | No Gas | 0.996 | ug/l | 7417.54 |
| Zn | 66 | 72 | 1 | No Gas | 1.756 | ug/l | 8906.43 |
| Zn | 66 | 72 | 3 | He | 1.796 | ug/l | 1833.46 |
| As | 75 | 72 | 1 | No Gas | 3.340 | ug/l | 29279.64 |
| As | 75 | 72 | 3 | He | 0.783 | ug/l | 836.81 |
| Se | 78 | 72 | 2 | H2 | 0.156 | ug/l | 112.56 |
| Br | 79 | 72 | 1 | No Gas | 14.815 | ug/l | 214692.82 |
| Br | 79 | 72 | 2 | H2 | 13.195 | ug/l | 111496.52 |
| Se | 82 | 72 | 1 | No Gas | 0.504 | ug/l | 732.34 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 77346.68 |
| Sr | 88 | 72 | 1 | No Gas | 250.312 | ug/l | 9879785.58 |
| Sr | 88 | 72 | 3 | He | 231.386 | ug/l | 961976.35 |
| Mo | 95 | 115 | 1 | No Gas | 11.260 | ug/l | 97144.76 |
| Mo | 95 | 115 | 3 | He | 11.666 | ug/l | 35954.26 |
| Mo | 98 | 115 | 1 | No Gas | 11.515 | ug/l | 161776.90 |
| Ag | 107 | 115 | 1 | No Gas | -0.064 | ug/l | 80.03 |
| Ag | 109 | 115 | 1 | No Gas | -0.061 | ug/l | 89.37 |
| Cd | 111 | 115 | 1 | No Gas | 0.012 | ug/l | 60.34 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.008 | ug/l | 18.78 |
| Cd | 114 | 115 | 1 | No Gas | 0.019 | ug/l | 71.72 |
| Cd | 114 | 115 | 3 | He | 0.007 | ug/l | 38.38 |
| Sn | 118 | 115 | 1 | No Gas | 0.536 | ug/l | 10150.23 |
| Sn | 118 | 115 | 3 | He | 0.562 | ug/l | 2821.41 |
| Sb | 121 | 115 | 1 | No Gas | 0.445 | ug/l | 10630.43 |
| Sb | 121 | 115 | 3 | He | 0.421 | ug/l | 2640.18 |
| Sb | 123 | 115 | 1 | No Gas | 0.452 | ug/l | 8300.29 |
| Sb | 123 | 115 | 3 | He | 0.433 | ug/l | 2139.05 |
| Ba | 135 | 115 | 1 | No Gas | 4.555 | ug/l | 19871.55 |
| Ba | 137 | 115 | 1 | No Gas | 4.579 | ug/l | 35538.43 |
| La | 139 | 115 | 3 | He | 0.007 | ug/l | 160.00 |
| Ce | 140 | 115 | 3 | He | 0.017 | ug/l | 432.23 |
| Hg | 201 | 209 | 1 | No Gas | 0.013 | ug/l | 67.99 |
| Hg | 202 | 209 | 1 | No Gas | 0.079 | ug/l | 687.21 |
| Hg | 202 | 209 | 3 | He | 0.058 | ug/l | 259.95 |
| Tl | 203 | 209 | 3 | He | 0.054 | ug/l | 1097.82 |
| Tl | 205 | 209 | 1 | No Gas | 0.045 | ug/l | 4295.18 |
| Tl | 205 | 209 | 3 | He | 0.055 | ug/l | 2688.03 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.037 | ug/l | 1100.05 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.036 | ug/l | 937.82 |
| Pb | 208 | 209 | 1 | No Gas | 0.035 | ug/l | 4328.08 |
| Th | 232 | 209 | 3 | He | 0.023 | ug/l | 1299.92 |
| U | 238 | 209 | 1 | No Gas | 0.089 | ug/l | 5835.81 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 3864332.34 | 68.5 |
| Sc | 45 | 2 | H2 | 2167963.28 | 79.0 |
| Sc | 45 | 3 | He | 209705.28 | 65.8 |
| Ge | 72 | 1 | No Gas | 1159913.27 | 76.7 |
| Ge | 72 | 2 | H2 | 828820.67 | 83.5 |
| Ge | 72 | 3 | He | 164729.06 | 74.0 |
| In | 115 | 1 | No Gas | 9811687.27 | 80.6 |
| In | 115 | 3 | He | 2070672.03 | 78.6 |
| Tb | 159 | 1 | No Gas | 14228263.08 | 87.1 |
| Tb | 159 | 3 | He | 6324213.31 | 92.5 |
| Ho | 165 | 1 | No Gas | 13563317.74 | 88.9 |
| Ho | 165 | 3 | He | 6058841.13 | 91.6 |
| Lu | 175 | 1 | No Gas | 14013527.82 | 90.0 |
| Lu | 175 | 3 | He | 4919405.53 | 91.9 |
| Bi | 209 | 1 | No Gas | 9831235.20 | 86.8 |
| Bi | 209 | 3 | He | 4603465.76 | 91.8 |

ICPMS207-B Analytical Data

Sample Name B22011127-001A
File Name 061SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 22:16:39
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|--------------|
| Li | 7 | 45 | 1 | No Gas | 0.884 | ug/l | 23559.67 |
| Be | 9 | 45 | 1 | No Gas | -0.049 | ug/l | 56.32 |
| B | 11 | 45 | 1 | No Gas | 67.560 | ug/l | 158225.49 |
| Na | 23 | 45 | 3 | He | 90915.508 | ug/l | 76830709.41 |
| Mg | 24 | 45 | 3 | He | 34748.934 | ug/l | 16193437.09 |
| Al | 27 | 45 | 1 | No Gas | 13.923 | ug/l | 307447.12 |
| Si | 28 | 45 | 2 | H2 | 23119.256 | ug/l | 48323213.51 |
| K | 39 | 72 | 3 | He | 3304.363 | ug/l | 1708308.41 |
| Ca | 40 | 72 | 2 | H2 | 41733.553 | ug/l | 330958516.86 |
| Ti | 47 | 72 | 1 | No Gas | 2.499 | ug/l | 6264.55 |
| V | 51 | 72 | 1 | No Gas | 16.519 | ug/l | 437083.96 |
| V | 51 | 72 | 3 | He | 12.096 | ug/l | 74528.83 |
| Cr | 52 | 72 | 1 | No Gas | -0.648 | ug/l | 77028.15 |
| Cr | 52 | 72 | 3 | He | 1.127 | ug/l | 7146.22 |
| Mn | 55 | 72 | 1 | No Gas | 4.886 | ug/l | 191434.67 |
| Mn | 55 | 72 | 3 | He | 4.952 | ug/l | 18019.75 |
| Fe | 56 | 72 | 2 | H2 | 60.208 | ug/l | 1103312.05 |
| Fe | 56 | 72 | 3 | He | 57.807 | ug/l | 290642.92 |
| Co | 59 | 72 | 1 | No Gas | 0.131 | ug/l | 4641.55 |
| Ni | 60 | 72 | 1 | No Gas | 1.019 | ug/l | 7746.73 |
| Ni | 60 | 72 | 3 | He | 0.793 | ug/l | 1914.58 |
| Cu | 63 | 72 | 1 | No Gas | 1.707 | ug/l | 31287.31 |
| Cu | 63 | 72 | 3 | He | 1.200 | ug/l | 7912.56 |
| Cu | 65 | 72 | 1 | No Gas | 1.290 | ug/l | 11846.25 |
| Zn | 66 | 72 | 1 | No Gas | 3.610 | ug/l | 22102.36 |
| Zn | 66 | 72 | 3 | He | 3.540 | ug/l | 4699.67 |
| As | 75 | 72 | 1 | No Gas | 1.444 | ug/l | 23949.99 |
| As | 75 | 72 | 3 | He | 1.650 | ug/l | 2085.31 |
| Se | 78 | 72 | 2 | H2 | 0.392 | ug/l | 291.45 |
| Br | 79 | 72 | 1 | No Gas | 62.317 | ug/l | 915263.52 |
| Br | 79 | 72 | 2 | H2 | 61.383 | ug/l | 504796.08 |
| Se | 82 | 72 | 1 | No Gas | 1.556 | ug/l | 1344.68 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 112429.68 |
| Sr | 88 | 72 | 1 | No Gas | 299.429 | ug/l | 14908842.90 |
| Sr | 88 | 72 | 3 | He | 305.192 | ug/l | 1728230.22 |
| Mo | 95 | 115 | 1 | No Gas | 3.684 | ug/l | 40158.69 |
| Mo | 95 | 115 | 3 | He | 3.823 | ug/l | 15066.90 |
| Mo | 98 | 115 | 1 | No Gas | 3.770 | ug/l | 66911.45 |
| Ag | 107 | 115 | 1 | No Gas | -0.052 | ug/l | 439.52 |
| Ag | 109 | 115 | 1 | No Gas | -0.050 | ug/l | 422.18 |
| Cd | 111 | 115 | 1 | No Gas | 0.028 | ug/l | 174.50 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.023 | ug/l | 53.67 |
| Cd | 114 | 115 | 1 | No Gas | 0.039 | ug/l | 369.27 |
| Cd | 114 | 115 | 3 | He | 0.025 | ug/l | 143.74 |
| Sn | 118 | 115 | 1 | No Gas | -0.004 | ug/l | 3150.79 |
| Sn | 118 | 115 | 3 | He | -0.023 | ug/l | 783.36 |
| Sb | 121 | 115 | 1 | No Gas | 0.079 | ug/l | 3158.01 |
| Sb | 121 | 115 | 3 | He | 0.076 | ug/l | 784.43 |
| Sb | 123 | 115 | 1 | No Gas | 0.082 | ug/l | 2472.80 |
| Sb | 123 | 115 | 3 | He | 0.086 | ug/l | 672.42 |
| Ba | 135 | 115 | 1 | No Gas | 10.073 | ug/l | 55513.60 |
| Ba | 137 | 115 | 1 | No Gas | 9.899 | ug/l | 96988.26 |
| La | 139 | 115 | 3 | He | 0.042 | ug/l | 1173.39 |
| Ce | 140 | 115 | 3 | He | 0.093 | ug/l | 2808.08 |
| Hg | 201 | 209 | 1 | No Gas | 0.115 | ug/l | 484.25 |
| Hg | 202 | 209 | 1 | No Gas | 2.249 | ug/l | 20509.32 |
| Hg | 202 | 209 | 3 | He | 1.813 | ug/l | 7892.10 |
| Tl | 203 | 209 | 3 | He | 0.031 | ug/l | 947.75 |
| Tl | 205 | 209 | 1 | No Gas | 0.013 | ug/l | 3359.35 |
| Tl | 205 | 209 | 3 | He | 0.015 | ug/l | 1881.56 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.172 | ug/l | 3863.92 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.171 | ug/l | 3367.11 |
| Pb | 208 | 209 | 1 | No Gas | 0.169 | ug/l | 15425.82 |
| Th | 232 | 209 | 3 | He | -0.008 | ug/l | 270.78 |
| U | 238 | 209 | 1 | No Gas | 0.180 | ug/l | 13858.22 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5572867.07 | 98.8 |
| Sc | 45 | 2 | H2 | 2770139.68 | 100.9 |
| Sc | 45 | 3 | He | 312411.29 | 98.1 |
| Ge | 72 | 1 | No Gas | 1460507.82 | 96.6 |
| Ge | 72 | 2 | H2 | 1006254.73 | 101.4 |
| Ge | 72 | 3 | He | 224381.03 | 100.8 |
| In | 115 | 1 | No Gas | 12295953.42 | 101.0 |
| In | 115 | 3 | He | 2645762.18 | 100.4 |
| Tb | 159 | 1 | No Gas | 17304658.01 | 105.9 |
| Tb | 159 | 3 | He | 7229412.54 | 105.8 |
| Ho | 165 | 1 | No Gas | 16470722.85 | 108.0 |
| Ho | 165 | 3 | He | 6857218.49 | 103.7 |
| Lu | 175 | 1 | No Gas | 16941673.99 | 108.9 |
| Lu | 175 | 3 | He | 5637814.23 | 105.3 |
| Bi | 209 | 1 | No Gas | 11560865.31 | 102.1 |
| Bi | 209 | 3 | He | 5042463.00 | 100.6 |

ICPMS207-B Analytical Data

Sample Name B22011127-001B
File Name 062SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 22:22:54
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|--------------|
| Li | 7 | 45 | 1 | No Gas | 1.884 | ug/l | 22162.30 |
| Be | 9 | 45 | 1 | No Gas | -0.038 | ug/l | 65.66 |
| B | 11 | 45 | 1 | No Gas | 70.808 | ug/l | 113833.04 |
| Na | 23 | 45 | 3 | He | 92709.797 | ug/l | 55649263.61 |
| Mg | 24 | 45 | 3 | He | 34290.368 | ug/l | 11352574.94 |
| Al | 27 | 45 | 1 | No Gas | 57.808 | ug/l | 843110.37 |
| Si | 28 | 45 | 2 | H2 | 22299.983 | ug/l | 37595091.50 |
| K | 39 | 72 | 3 | He | 2985.047 | ug/l | 1174383.15 |
| Ca | 40 | 72 | 2 | H2 | 39984.267 | ug/l | 264424992.34 |
| Ti | 47 | 72 | 1 | No Gas | 5.825 | ug/l | 11262.40 |
| V | 51 | 72 | 1 | No Gas | 18.740 | ug/l | 396603.56 |
| V | 51 | 72 | 3 | He | 16.936 | ug/l | 74191.16 |
| Cr | 52 | 72 | 1 | No Gas | 2.958 | ug/l | 139086.98 |
| Cr | 52 | 72 | 3 | He | 1.543 | ug/l | 7157.34 |
| Mn | 55 | 72 | 1 | No Gas | 6.733 | ug/l | 204784.30 |
| Mn | 55 | 72 | 3 | He | 6.022 | ug/l | 16557.67 |
| Fe | 56 | 72 | 2 | H2 | 151.812 | ug/l | 2307767.37 |
| Fe | 56 | 72 | 3 | He | 140.264 | ug/l | 527432.75 |
| Co | 59 | 72 | 1 | No Gas | 0.281 | ug/l | 7353.95 |
| Ni | 60 | 72 | 1 | No Gas | 1.002 | ug/l | 6006.02 |
| Ni | 60 | 72 | 3 | He | 0.784 | ug/l | 1434.53 |
| Cu | 63 | 72 | 1 | No Gas | 1.864 | ug/l | 26751.27 |
| Cu | 63 | 72 | 3 | He | 1.255 | ug/l | 6244.43 |
| Cu | 65 | 72 | 1 | No Gas | 1.354 | ug/l | 9761.87 |
| Zn | 66 | 72 | 1 | No Gas | 3.849 | ug/l | 18480.00 |
| Zn | 66 | 72 | 3 | He | 3.933 | ug/l | 3935.00 |
| As | 75 | 72 | 1 | No Gas | 4.834 | ug/l | 37514.55 |
| As | 75 | 72 | 3 | He | 2.082 | ug/l | 1934.56 |
| Se | 78 | 72 | 2 | H2 | 0.462 | ug/l | 281.45 |
| Br | 79 | 72 | 1 | No Gas | 21.767 | ug/l | 287018.26 |
| Br | 79 | 72 | 2 | H2 | 18.798 | ug/l | 148641.03 |
| Se | 82 | 72 | 1 | No Gas | 0.867 | ug/l | 840.49 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 94411.66 |
| Sr | 88 | 72 | 1 | No Gas | 331.752 | ug/l | 13006313.64 |
| Sr | 88 | 72 | 3 | He | 315.944 | ug/l | 1353789.41 |
| Mo | 95 | 115 | 1 | No Gas | 4.159 | ug/l | 36721.90 |
| Mo | 95 | 115 | 3 | He | 4.264 | ug/l | 13369.65 |
| Mo | 98 | 115 | 1 | No Gas | 4.257 | ug/l | 61153.03 |
| Ag | 107 | 115 | 1 | No Gas | -0.049 | ug/l | 429.51 |
| Ag | 109 | 115 | 1 | No Gas | -0.046 | ug/l | 435.52 |
| Cd | 111 | 115 | 1 | No Gas | 0.014 | ug/l | 67.05 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.008 | ug/l | 18.33 |
| Cd | 114 | 115 | 1 | No Gas | 0.020 | ug/l | 77.87 |
| Cd | 114 | 115 | 3 | He | 0.004 | ug/l | 28.58 |
| Sn | 118 | 115 | 1 | No Gas | 0.570 | ug/l | 10849.40 |
| Sn | 118 | 115 | 3 | He | 0.632 | ug/l | 3134.81 |
| Sb | 121 | 115 | 1 | No Gas | 0.111 | ug/l | 3271.05 |
| Sb | 121 | 115 | 3 | He | 0.104 | ug/l | 791.77 |
| Sb | 123 | 115 | 1 | No Gas | 0.121 | ug/l | 2675.20 |
| Sb | 123 | 115 | 3 | He | 0.108 | ug/l | 639.41 |
| Ba | 135 | 115 | 1 | No Gas | 10.922 | ug/l | 48742.62 |
| Ba | 137 | 115 | 1 | No Gas | 11.126 | ug/l | 88242.01 |
| La | 139 | 115 | 3 | He | 0.077 | ug/l | 1690.11 |
| Ce | 140 | 115 | 3 | He | 0.182 | ug/l | 4357.39 |
| Hg | 201 | 209 | 1 | No Gas | 0.154 | ug/l | 535.57 |
| Hg | 202 | 209 | 1 | No Gas | 2.963 | ug/l | 22603.64 |
| Hg | 202 | 209 | 3 | He | 2.004 | ug/l | 7955.46 |
| Tl | 203 | 209 | 3 | He | 0.054 | ug/l | 1103.16 |
| Tl | 205 | 209 | 1 | No Gas | 0.032 | ug/l | 3681.65 |
| Tl | 205 | 209 | 3 | He | 0.041 | ug/l | 2349.16 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.305 | ug/l | 5362.22 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.300 | ug/l | 4618.61 |
| Pb | 208 | 209 | 1 | No Gas | 0.292 | ug/l | 20835.32 |
| Th | 232 | 209 | 3 | He | 0.013 | ug/l | 971.09 |
| U | 238 | 209 | 1 | No Gas | 0.207 | ug/l | 13347.81 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 3845454.61 | 68.2 |
| Sc | 45 | 2 | H2 | 2230247.69 | 81.2 |
| Sc | 45 | 3 | He | 221949.58 | 69.7 |
| Ge | 72 | 1 | No Gas | 1151621.25 | 76.2 |
| Ge | 72 | 2 | H2 | 838778.02 | 84.5 |
| Ge | 72 | 3 | He | 169845.04 | 76.3 |
| In | 115 | 1 | No Gas | 9961606.34 | 81.8 |
| In | 115 | 3 | He | 2105280.20 | 79.9 |
| Tb | 159 | 1 | No Gas | 14174998.14 | 86.7 |
| Tb | 159 | 3 | He | 6180732.75 | 90.4 |
| Ho | 165 | 1 | No Gas | 13440607.01 | 88.1 |
| Ho | 165 | 3 | He | 6104789.26 | 92.3 |
| Lu | 175 | 1 | No Gas | 14082079.71 | 90.5 |
| Lu | 175 | 3 | He | 4965584.16 | 92.7 |
| Bi | 209 | 1 | No Gas | 9711715.55 | 85.8 |
| Bi | 209 | 3 | He | 4601095.29 | 91.8 |

ICPMS207-B Analytical Data

Sample Name B22011128-001A
File Name 063SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 22:29:09
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|------------|-------|--------------|
| Li | 7 | 45 | 1 | No Gas | 5.034 | ug/l | 60480.07 |
| Be | 9 | 45 | 1 | No Gas | -0.051 | ug/l | 48.66 |
| B | 11 | 45 | 1 | No Gas | 89.962 | ug/l | 212189.38 |
| Na | 23 | 45 | 3 | He | 105899.635 | ug/l | 90495321.98 |
| Mg | 24 | 45 | 3 | He | 27452.362 | ug/l | 12936890.72 |
| Al | 27 | 45 | 1 | No Gas | 0.696 | ug/l | 31617.93 |
| Si | 28 | 45 | 2 | H2 | 24386.583 | ug/l | 51599622.00 |
| K | 39 | 72 | 3 | He | 7103.350 | ug/l | 3563044.57 |
| Ca | 40 | 72 | 2 | H2 | 25973.575 | ug/l | 202486486.02 |
| Ti | 47 | 72 | 1 | No Gas | 1.655 | ug/l | 4286.62 |
| V | 51 | 72 | 1 | No Gas | 14.236 | ug/l | 374840.12 |
| V | 51 | 72 | 3 | He | 10.458 | ug/l | 66362.26 |
| Cr | 52 | 72 | 1 | No Gas | -0.603 | ug/l | 79557.13 |
| Cr | 52 | 72 | 3 | He | 1.325 | ug/l | 8222.35 |
| Mn | 55 | 72 | 1 | No Gas | 0.125 | ug/l | 15484.14 |
| Mn | 55 | 72 | 3 | He | 0.221 | ug/l | 952.18 |
| Fe | 56 | 72 | 2 | H2 | 0.430 | ug/l | 17898.89 |
| Fe | 56 | 72 | 3 | He | 0.314 | ug/l | 7432.71 |
| Co | 59 | 72 | 1 | No Gas | 0.038 | ug/l | 1773.26 |
| Ni | 60 | 72 | 1 | No Gas | 0.968 | ug/l | 7503.76 |
| Ni | 60 | 72 | 3 | He | 0.818 | ug/l | 1965.70 |
| Cu | 63 | 72 | 1 | No Gas | 1.049 | ug/l | 20314.92 |
| Cu | 63 | 72 | 3 | He | 0.489 | ug/l | 3624.73 |
| Cu | 65 | 72 | 1 | No Gas | 0.573 | ug/l | 5882.23 |
| Zn | 66 | 72 | 1 | No Gas | 0.542 | ug/l | 4238.64 |
| Zn | 66 | 72 | 3 | He | 0.575 | ug/l | 953.37 |
| As | 75 | 72 | 1 | No Gas | 3.230 | ug/l | 36936.67 |
| As | 75 | 72 | 3 | He | 3.308 | ug/l | 3880.77 |
| Se | 78 | 72 | 2 | H2 | 0.714 | ug/l | 494.12 |
| Br | 79 | 72 | 1 | No Gas | 38.244 | ug/l | 598258.03 |
| Br | 79 | 72 | 2 | H2 | 37.029 | ug/l | 312464.03 |
| Se | 82 | 72 | 1 | No Gas | 1.536 | ug/l | 1357.75 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 105632.53 |
| Sr | 88 | 72 | 1 | No Gas | 279.107 | ug/l | 14128070.06 |
| Sr | 88 | 72 | 3 | He | 284.410 | ug/l | 1605471.28 |
| Mo | 95 | 115 | 1 | No Gas | 9.835 | ug/l | 106294.98 |
| Mo | 95 | 115 | 3 | He | 10.024 | ug/l | 38902.98 |
| Mo | 98 | 115 | 1 | No Gas | 9.814 | ug/l | 172700.19 |
| Ag | 107 | 115 | 1 | No Gas | -0.062 | ug/l | 166.74 |
| Ag | 109 | 115 | 1 | No Gas | -0.059 | ug/l | 174.74 |
| Cd | 111 | 115 | 1 | No Gas | 0.032 | ug/l | 197.19 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Cd | 111 | 115 | 3 | He | 0.026 | ug/l | 60.44 |
| Cd | 114 | 115 | 1 | No Gas | 0.039 | ug/l | 369.68 |
| Cd | 114 | 115 | 3 | He | 0.024 | ug/l | 135.76 |
| Sn | 118 | 115 | 1 | No Gas | 0.155 | ug/l | 5942.81 |
| Sn | 118 | 115 | 3 | He | 0.146 | ug/l | 1576.76 |
| Sb | 121 | 115 | 1 | No Gas | 0.306 | ug/l | 9442.44 |
| Sb | 121 | 115 | 3 | He | 0.298 | ug/l | 2413.45 |
| Sb | 123 | 115 | 1 | No Gas | 0.304 | ug/l | 7220.59 |
| Sb | 123 | 115 | 3 | He | 0.303 | ug/l | 1929.66 |
| Ba | 135 | 115 | 1 | No Gas | 26.078 | ug/l | 142520.03 |
| Ba | 137 | 115 | 1 | No Gas | 25.134 | ug/l | 244240.91 |
| La | 139 | 115 | 3 | He | 0.002 | ug/l | 81.11 |
| Ce | 140 | 115 | 3 | He | 0.023 | ug/l | 719.14 |
| Hg | 201 | 209 | 1 | No Gas | 0.061 | ug/l | 266.95 |
| Hg | 202 | 209 | 1 | No Gas | 1.158 | ug/l | 10501.05 |
| Hg | 202 | 209 | 3 | He | 0.933 | ug/l | 4046.81 |
| Tl | 203 | 209 | 3 | He | 0.019 | ug/l | 813.02 |
| Tl | 205 | 209 | 1 | No Gas | 0.008 | ug/l | 3067.04 |
| Tl | 205 | 209 | 3 | He | 0.009 | ug/l | 1726.14 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.019 | ug/l | 954.49 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.017 | ug/l | 794.47 |
| Pb | 208 | 209 | 1 | No Gas | 0.016 | ug/l | 3679.11 |
| Th | 232 | 209 | 3 | He | -0.006 | ug/l | 328.14 |
| U | 238 | 209 | 1 | No Gas | 0.377 | ug/l | 28649.53 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5664158.55 | 100.5 |
| Sc | 45 | 2 | H2 | 2799439.34 | 102.0 |
| Sc | 45 | 3 | He | 315929.13 | 99.2 |
| Ge | 72 | 1 | No Gas | 1484896.28 | 98.2 |
| Ge | 72 | 2 | H2 | 988702.16 | 99.6 |
| Ge | 72 | 3 | He | 223661.71 | 100.4 |
| In | 115 | 1 | No Gas | 12201336.12 | 100.2 |
| In | 115 | 3 | He | 2607515.88 | 98.9 |
| Tb | 159 | 1 | No Gas | 16921160.15 | 103.5 |
| Tb | 159 | 3 | He | 6974848.09 | 102.1 |
| Ho | 165 | 1 | No Gas | 15977324.47 | 104.8 |
| Ho | 165 | 3 | He | 6766035.17 | 102.3 |
| Lu | 175 | 1 | No Gas | 16484312.48 | 105.9 |
| Lu | 175 | 3 | He | 5595726.62 | 104.5 |
| Bi | 209 | 1 | No Gas | 11447284.42 | 101.1 |
| Bi | 209 | 3 | He | 5008749.14 | 99.9 |

ICPMS207-B Analytical Data

Sample Name CCV
File Name 064_CCV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 22:35:25
Sample Type CCV
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 492.159 | ug/l | 3659185.96 |
| Be | 9 | 45 | 1 | No Gas | 43.360 | ug/l | 136743.77 |
| B | 11 | 45 | 1 | No Gas | 45.675 | ug/l | 93069.81 |
| Na | 23 | 45 | 3 | He | 12416.311 | ug/l | 8943432.02 |
| Mg | 24 | 45 | 3 | He | 12182.191 | ug/l | 4817689.64 |
| Al | 27 | 45 | 1 | No Gas | 53.593 | ug/l | 973035.19 |
| Si | 28 | 45 | 2 | H2 | 225.209 | ug/l | 424904.81 |
| K | 39 | 72 | 3 | He | 11290.203 | ug/l | 4990926.59 |
| Ca | 40 | 72 | 2 | H2 | 12075.549 | ug/l | 89599915.09 |
| Ti | 47 | 72 | 1 | No Gas | 47.168 | ug/l | 105677.55 |
| V | 51 | 72 | 1 | No Gas | 53.313 | ug/l | 1420655.67 |
| V | 51 | 72 | 3 | He | 49.456 | ug/l | 226714.85 |
| Cr | 52 | 72 | 1 | No Gas | 48.220 | ug/l | 1320106.11 |
| Cr | 52 | 72 | 3 | He | 47.696 | ug/l | 235625.58 |
| Mn | 55 | 72 | 1 | No Gas | 49.342 | ug/l | 1698840.63 |
| Mn | 55 | 72 | 3 | He | 48.611 | ug/l | 155469.47 |
| Fe | 56 | 72 | 2 | H2 | 1296.894 | ug/l | 22033849.74 |
| Fe | 56 | 72 | 3 | He | 1254.405 | ug/l | 5479691.79 |
| Co | 59 | 72 | 1 | No Gas | 49.164 | ug/l | 1423643.16 |
| Ni | 60 | 72 | 1 | No Gas | 48.602 | ug/l | 320722.26 |
| Ni | 60 | 72 | 3 | He | 49.905 | ug/l | 101305.19 |
| Cu | 63 | 72 | 1 | No Gas | 48.653 | ug/l | 773863.28 |
| Cu | 63 | 72 | 3 | He | 50.925 | ug/l | 272334.23 |
| Cu | 65 | 72 | 1 | No Gas | 48.592 | ug/l | 380573.47 |
| Zn | 66 | 72 | 1 | No Gas | 49.777 | ug/l | 269730.48 |
| Zn | 66 | 72 | 3 | He | 51.498 | ug/l | 57836.74 |
| As | 75 | 72 | 1 | No Gas | 49.766 | ug/l | 332445.56 |
| As | 75 | 72 | 3 | He | 50.365 | ug/l | 48930.00 |
| Se | 78 | 72 | 2 | H2 | 51.853 | ug/l | 31805.10 |
| Br | 79 | 72 | 1 | No Gas | 16.895 | ug/l | 276213.90 |
| Br | 79 | 72 | 2 | H2 | 16.030 | ug/l | 146847.35 |
| Se | 82 | 72 | 1 | No Gas | 49.430 | ug/l | 18831.56 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 34126.00 |
| Sr | 88 | 72 | 1 | No Gas | 52.457 | ug/l | 2415659.84 |
| Sr | 88 | 72 | 3 | He | 50.754 | ug/l | 254849.57 |
| Mo | 95 | 115 | 1 | No Gas | 49.346 | ug/l | 501945.83 |
| Mo | 95 | 115 | 3 | He | 51.259 | ug/l | 178141.62 |
| Mo | 98 | 115 | 1 | No Gas | 49.586 | ug/l | 821262.92 |
| Ag | 107 | 115 | 1 | No Gas | 19.666 | ug/l | 514051.60 |
| Ag | 109 | 115 | 1 | No Gas | 19.381 | ug/l | 491762.04 |
| Cd | 111 | 115 | 1 | No Gas | 49.263 | ug/l | 289386.96 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Cd | 111 | 115 | 3 | He | 51.281 | ug/l | 94045.92 |
| Cd | 114 | 115 | 1 | No Gas | 50.575 | ug/l | 656913.75 |
| Cd | 114 | 115 | 3 | He | 51.534 | ug/l | 232030.40 |
| Sn | 118 | 115 | 1 | No Gas | 51.236 | ug/l | 856122.98 |
| Sn | 118 | 115 | 3 | He | 53.215 | ug/l | 227189.56 |
| Sb | 121 | 115 | 1 | No Gas | 52.957 | ug/l | 1392178.51 |
| Sb | 121 | 115 | 3 | He | 53.447 | ug/l | 354046.70 |
| Sb | 123 | 115 | 1 | No Gas | 52.827 | ug/l | 1068615.77 |
| Sb | 123 | 115 | 3 | He | 53.582 | ug/l | 280488.64 |
| Ba | 135 | 115 | 1 | No Gas | 51.057 | ug/l | 262654.72 |
| Ba | 137 | 115 | 1 | No Gas | 49.351 | ug/l | 451456.22 |
| La | 139 | 115 | 3 | He | 51.379 | ug/l | 1237116.36 |
| Ce | 140 | 115 | 3 | He | 52.473 | ug/l | 1381908.35 |
| Hg | 201 | 209 | 1 | No Gas | 0.959 | ug/l | 3800.79 |
| Hg | 202 | 209 | 1 | No Gas | 0.984 | ug/l | 8958.22 |
| Hg | 202 | 209 | 3 | He | 1.019 | ug/l | 4353.18 |
| Tl | 203 | 209 | 3 | He | 48.832 | ug/l | 533180.73 |
| Tl | 205 | 209 | 1 | No Gas | 49.631 | ug/l | 2671760.58 |
| Tl | 205 | 209 | 3 | He | 49.843 | ug/l | 1289577.94 |
| [Pb] | 206 | 209 | 1 | No Gas | 50.739 | ug/l | 959388.32 |
| [Pb] | 207 | 209 | 1 | No Gas | 49.628 | ug/l | 820233.22 |
| Pb | 208 | 209 | 1 | No Gas | 49.912 | ug/l | 3809936.03 |
| Th | 232 | 209 | 3 | He | 50.804 | ug/l | 1850891.79 |
| U | 238 | 209 | 1 | No Gas | 50.885 | ug/l | 3864083.39 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4771663.41 | 84.6 |
| Sc | 45 | 2 | H2 | 2457682.12 | 89.5 |
| Sc | 45 | 3 | He | 265195.57 | 83.3 |
| Ge | 72 | 1 | No Gas | 1350479.06 | 89.3 |
| Ge | 72 | 2 | H2 | 940663.35 | 94.8 |
| Ge | 72 | 3 | He | 198802.64 | 89.3 |
| In | 115 | 1 | No Gas | 11489393.23 | 94.4 |
| In | 115 | 3 | He | 2335931.40 | 88.6 |
| Tb | 159 | 1 | No Gas | 16011411.58 | 98.0 |
| Tb | 159 | 3 | He | 6666236.32 | 97.6 |
| Ho | 165 | 1 | No Gas | 15412547.42 | 101.1 |
| Ho | 165 | 3 | He | 6433912.75 | 97.3 |
| Lu | 175 | 1 | No Gas | 16136542.33 | 103.7 |
| Lu | 175 | 3 | He | 5234309.65 | 97.7 |
| Bi | 209 | 1 | No Gas | 11484303.64 | 101.4 |
| Bi | 209 | 3 | He | 4935353.05 | 98.5 |

ICPMS207-B Analytical Data

Sample Name CCB
File Name 065_CCB.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 22:41:39
Sample Type CCB
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|----------|
| Li | 7 | 45 | 1 | No Gas | 0.488 | ug/l | 16524.91 |
| Be | 9 | 45 | 1 | No Gas | -0.049 | ug/l | 47.32 |
| B | 11 | 45 | 1 | No Gas | 0.687 | ug/l | 5802.13 |
| Na | 23 | 45 | 3 | He | 46.382 | ug/l | 66197.04 |
| Mg | 24 | 45 | 3 | He | 0.668 | ug/l | 1633.53 |
| Al | 27 | 45 | 1 | No Gas | -0.234 | ug/l | 9570.90 |
| Si | 28 | 45 | 2 | H2 | 4.356 | ug/l | 14228.50 |
| K | 39 | 72 | 3 | He | -23.051 | ug/l | 59993.80 |
| Ca | 40 | 72 | 2 | H2 | -0.987 | ug/l | 84726.32 |
| Ti | 47 | 72 | 1 | No Gas | 0.019 | ug/l | 235.24 |
| V | 51 | 72 | 1 | No Gas | 4.905 | ug/l | 81741.24 |
| V | 51 | 72 | 3 | He | 1.181 | ug/l | 17774.16 |
| Cr | 52 | 72 | 1 | No Gas | -0.299 | ug/l | 79016.17 |
| Cr | 52 | 72 | 3 | He | 0.037 | ug/l | 900.03 |
| Mn | 55 | 72 | 1 | No Gas | 0.037 | ug/l | 10935.69 |
| Mn | 55 | 72 | 3 | He | 0.004 | ug/l | 141.64 |
| Fe | 56 | 72 | 2 | H2 | 0.036 | ug/l | 9886.63 |
| Fe | 56 | 72 | 3 | He | 0.044 | ug/l | 5054.32 |
| Co | 59 | 72 | 1 | No Gas | 0.001 | ug/l | 515.65 |
| Ni | 60 | 72 | 1 | No Gas | -0.003 | ug/l | 422.50 |
| Ni | 60 | 72 | 3 | He | 0.007 | ug/l | 94.44 |
| Cu | 63 | 72 | 1 | No Gas | -0.009 | ug/l | 1669.44 |
| Cu | 63 | 72 | 3 | He | -0.002 | ug/l | 560.57 |
| Cu | 65 | 72 | 1 | No Gas | -0.004 | ug/l | 830.36 |
| Zn | 66 | 72 | 1 | No Gas | -0.006 | ug/l | 882.52 |
| Zn | 66 | 72 | 3 | He | 0.025 | ug/l | 215.56 |
| As | 75 | 72 | 1 | No Gas | 0.369 | ug/l | 15011.59 |
| As | 75 | 72 | 3 | He | -0.006 | ug/l | 229.27 |
| Se | 78 | 72 | 2 | H2 | 0.000 | ug/l | 30.89 |
| Br | 79 | 72 | 1 | No Gas | 0.894 | ug/l | 74401.00 |
| Br | 79 | 72 | 2 | H2 | 0.763 | ug/l | 35723.17 |
| Se | 82 | 72 | 1 | No Gas | -0.122 | ug/l | 617.41 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 18711.81 |
| Sr | 88 | 72 | 1 | No Gas | 0.000 | ug/l | 728.58 |
| Sr | 88 | 72 | 3 | He | -0.006 | ug/l | 218.89 |
| Mo | 95 | 115 | 1 | No Gas | 0.019 | ug/l | 256.67 |
| Mo | 95 | 115 | 3 | He | 0.012 | ug/l | 61.11 |
| Mo | 98 | 115 | 1 | No Gas | 0.018 | ug/l | 396.81 |
| Ag | 107 | 115 | 1 | No Gas | -0.004 | ug/l | 1672.77 |
| Ag | 109 | 115 | 1 | No Gas | -0.002 | ug/l | 1622.08 |
| Cd | 111 | 115 | 1 | No Gas | -0.001 | ug/l | -6.52 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.003 | ug/l | 10.89 |
| Cd | 114 | 115 | 1 | No Gas | 0.005 | ug/l | -93.58 |
| Cd | 114 | 115 | 3 | He | 0.003 | ug/l | 27.39 |
| Sn | 118 | 115 | 1 | No Gas | 0.030 | ug/l | 3546.75 |
| Sn | 118 | 115 | 3 | He | 0.010 | ug/l | 833.36 |
| Sb | 121 | 115 | 1 | No Gas | 0.073 | ug/l | 2797.57 |
| Sb | 121 | 115 | 3 | He | 0.045 | ug/l | 487.39 |
| Sb | 123 | 115 | 1 | No Gas | 0.073 | ug/l | 2147.72 |
| Sb | 123 | 115 | 3 | He | 0.049 | ug/l | 401.38 |
| Ba | 135 | 115 | 1 | No Gas | -0.001 | ug/l | 56.55 |
| Ba | 137 | 115 | 1 | No Gas | 0.003 | ug/l | 123.09 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 17.78 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 21.11 |
| Hg | 201 | 209 | 1 | No Gas | 0.004 | ug/l | 44.99 |
| Hg | 202 | 209 | 1 | No Gas | 0.009 | ug/l | 183.30 |
| Hg | 202 | 209 | 3 | He | 0.009 | ug/l | 68.65 |
| Tl | 203 | 209 | 3 | He | 0.126 | ug/l | 1990.95 |
| Tl | 205 | 209 | 1 | No Gas | 0.108 | ug/l | 8679.61 |
| Tl | 205 | 209 | 3 | He | 0.126 | ug/l | 4778.78 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.007 | ug/l | 740.03 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.007 | ug/l | 648.91 |
| Pb | 208 | 209 | 1 | No Gas | 0.006 | ug/l | 2953.48 |
| Th | 232 | 209 | 3 | He | 0.013 | ug/l | 1033.13 |
| U | 238 | 209 | 1 | No Gas | 0.002 | ug/l | 266.28 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4567984.25 | 81.0 |
| Sc | 45 | 2 | H2 | 2378675.98 | 86.7 |
| Sc | 45 | 3 | He | 238030.62 | 74.7 |
| Ge | 72 | 1 | No Gas | 1331299.29 | 88.1 |
| Ge | 72 | 2 | H2 | 898642.69 | 90.6 |
| Ge | 72 | 3 | He | 185005.99 | 83.1 |
| In | 115 | 1 | No Gas | 11574531.56 | 95.1 |
| In | 115 | 3 | He | 2332540.03 | 88.5 |
| Tb | 159 | 1 | No Gas | 16815945.77 | 102.9 |
| Tb | 159 | 3 | He | 6631139.34 | 97.0 |
| Ho | 165 | 1 | No Gas | 15804883.49 | 103.6 |
| Ho | 165 | 3 | He | 6321499.72 | 95.6 |
| Lu | 175 | 1 | No Gas | 15965056.47 | 102.6 |
| Lu | 175 | 3 | He | 5091315.41 | 95.1 |
| Bi | 209 | 1 | No Gas | 11775585.02 | 104.0 |
| Bi | 209 | 3 | He | 5000545.96 | 99.8 |

ICPMS207-B Analytical Data

Sample Name B22011128-001B
File Name 066SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 22:47:53
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|------------|-------|--------------|
| Li | 7 | 45 | 1 | No Gas | 4.947 | ug/l | 41277.98 |
| Be | 9 | 45 | 1 | No Gas | -0.041 | ug/l | 60.66 |
| B | 11 | 45 | 1 | No Gas | 82.537 | ug/l | 134629.23 |
| Na | 23 | 45 | 3 | He | 101004.131 | ug/l | 55974485.28 |
| Mg | 24 | 45 | 3 | He | 25856.543 | ug/l | 7901550.95 |
| Al | 27 | 45 | 1 | No Gas | 4.466 | ug/l | 77048.77 |
| Si | 28 | 45 | 2 | H2 | 22325.048 | ug/l | 36353548.25 |
| K | 39 | 72 | 3 | He | 6077.331 | ug/l | 2250781.48 |
| Ca | 40 | 72 | 2 | H2 | 24705.489 | ug/l | 159277263.32 |
| Ti | 47 | 72 | 1 | No Gas | 1.805 | ug/l | 3682.52 |
| V | 51 | 72 | 1 | No Gas | 7.822 | ug/l | 144860.09 |
| V | 51 | 72 | 3 | He | 14.811 | ug/l | 64307.22 |
| Cr | 52 | 72 | 1 | No Gas | 2.542 | ug/l | 132623.63 |
| Cr | 52 | 72 | 3 | He | 1.512 | ug/l | 6808.27 |
| Mn | 55 | 72 | 1 | No Gas | 2.104 | ug/l | 71078.03 |
| Mn | 55 | 72 | 3 | He | 1.683 | ug/l | 4566.80 |
| Fe | 56 | 72 | 2 | H2 | 3.754 | ug/l | 63892.94 |
| Fe | 56 | 72 | 3 | He | 3.465 | ug/l | 16845.01 |
| Co | 59 | 72 | 1 | No Gas | 0.142 | ug/l | 4025.91 |
| Ni | 60 | 72 | 1 | No Gas | 1.011 | ug/l | 6179.07 |
| Ni | 60 | 72 | 3 | He | 0.963 | ug/l | 1690.11 |
| Cu | 63 | 72 | 1 | No Gas | 1.408 | ug/l | 20982.23 |
| Cu | 63 | 72 | 3 | He | 0.798 | ug/l | 4026.76 |
| Cu | 65 | 72 | 1 | No Gas | 0.846 | ug/l | 6496.74 |
| Zn | 66 | 72 | 1 | No Gas | 0.605 | ug/l | 3645.53 |
| Zn | 66 | 72 | 3 | He | 0.614 | ug/l | 736.69 |
| As | 75 | 72 | 1 | No Gas | 4.291 | ug/l | 34950.43 |
| As | 75 | 72 | 3 | He | 3.608 | ug/l | 3094.34 |
| Se | 78 | 72 | 2 | H2 | 0.800 | ug/l | 454.12 |
| Br | 79 | 72 | 1 | No Gas | 12.717 | ug/l | 195107.34 |
| Br | 79 | 72 | 2 | H2 | 10.825 | ug/l | 95226.80 |
| Se | 82 | 72 | 1 | No Gas | 0.907 | ug/l | 870.76 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 88421.93 |
| Sr | 88 | 72 | 1 | No Gas | 296.054 | ug/l | 11829045.86 |
| Sr | 88 | 72 | 3 | He | 284.884 | ug/l | 1182825.51 |
| Mo | 95 | 115 | 1 | No Gas | 10.202 | ug/l | 91115.04 |
| Mo | 95 | 115 | 3 | He | 10.580 | ug/l | 32059.43 |
| Mo | 98 | 115 | 1 | No Gas | 10.338 | ug/l | 150439.08 |
| Ag | 107 | 115 | 1 | No Gas | -0.056 | ug/l | 264.11 |
| Ag | 109 | 115 | 1 | No Gas | -0.055 | ug/l | 236.77 |
| Cd | 111 | 115 | 1 | No Gas | 0.010 | ug/l | 48.85 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Cd | 111 | 115 | 3 | He | 0.004 | ug/l | 11.22 |
| Cd | 114 | 115 | 1 | No Gas | 0.017 | ug/l | 51.13 |
| Cd | 114 | 115 | 3 | He | 0.001 | ug/l | 13.67 |
| Sn | 118 | 115 | 1 | No Gas | 0.701 | ug/l | 12847.15 |
| Sn | 118 | 115 | 3 | He | 0.715 | ug/l | 3341.53 |
| Sb | 121 | 115 | 1 | No Gas | 0.377 | ug/l | 9456.80 |
| Sb | 121 | 115 | 3 | He | 0.381 | ug/l | 2360.44 |
| Sb | 123 | 115 | 1 | No Gas | 0.376 | ug/l | 7239.27 |
| Sb | 123 | 115 | 3 | He | 0.384 | ug/l | 1878.98 |
| Ba | 135 | 115 | 1 | No Gas | 26.992 | ug/l | 121847.16 |
| Ba | 137 | 115 | 1 | No Gas | 26.798 | ug/l | 214852.35 |
| La | 139 | 115 | 3 | He | 0.004 | ug/l | 96.66 |
| Ce | 140 | 115 | 3 | He | 0.007 | ug/l | 191.11 |
| Hg | 201 | 209 | 1 | No Gas | 0.080 | ug/l | 312.61 |
| Hg | 202 | 209 | 1 | No Gas | 1.373 | ug/l | 11388.94 |
| Hg | 202 | 209 | 3 | He | 1.054 | ug/l | 4070.48 |
| Tl | 203 | 209 | 3 | He | 0.077 | ug/l | 1296.59 |
| Tl | 205 | 209 | 1 | No Gas | 0.054 | ug/l | 5093.25 |
| Tl | 205 | 209 | 3 | He | 0.070 | ug/l | 2960.86 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.039 | ug/l | 1225.62 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.037 | ug/l | 1041.16 |
| Pb | 208 | 209 | 1 | No Gas | 0.038 | ug/l | 4918.17 |
| Th | 232 | 209 | 3 | He | 0.041 | ug/l | 1858.88 |
| U | 238 | 209 | 1 | No Gas | 0.393 | ug/l | 27366.84 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 3975799.72 | 70.5 |
| Sc | 45 | 2 | H2 | 2154322.20 | 78.5 |
| Sc | 45 | 3 | He | 204881.04 | 64.3 |
| Ge | 72 | 1 | No Gas | 1180457.36 | 78.1 |
| Ge | 72 | 2 | H2 | 817590.39 | 82.4 |
| Ge | 72 | 3 | He | 164541.55 | 73.9 |
| In | 115 | 1 | No Gas | 10250827.95 | 84.2 |
| In | 115 | 3 | He | 2036203.69 | 77.3 |
| Tb | 159 | 1 | No Gas | 15128606.41 | 92.6 |
| Tb | 159 | 3 | He | 6117916.50 | 89.5 |
| Ho | 165 | 1 | No Gas | 14496861.14 | 95.1 |
| Ho | 165 | 3 | He | 5929349.72 | 89.6 |
| Lu | 175 | 1 | No Gas | 15065764.29 | 96.8 |
| Lu | 175 | 3 | He | 4807679.02 | 89.8 |
| Bi | 209 | 1 | No Gas | 10663395.52 | 94.2 |
| Bi | 209 | 3 | He | 4465409.41 | 89.1 |

ICPMS207-B Analytical Data

Sample Name B22011129-001A
File Name 067SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 22:54:08
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|--------------|
| Li | 7 | 45 | 1 | No Gas | -0.077 | ug/l | 14777.08 |
| Be | 9 | 45 | 1 | No Gas | -0.027 | ug/l | 131.34 |
| B | 11 | 45 | 1 | No Gas | 30.272 | ug/l | 71592.40 |
| Na | 23 | 45 | 3 | He | 33228.732 | ug/l | 26379883.22 |
| Mg | 24 | 45 | 3 | He | 15641.136 | ug/l | 6841108.90 |
| Al | 27 | 45 | 1 | No Gas | 1.307 | ug/l | 42498.34 |
| Si | 28 | 45 | 2 | H2 | 23746.822 | ug/l | 48986511.14 |
| K | 39 | 72 | 3 | He | 1815.266 | ug/l | 940772.63 |
| Ca | 40 | 72 | 2 | H2 | 14829.379 | ug/l | 115768439.36 |
| Ti | 47 | 72 | 1 | No Gas | 1.382 | ug/l | 3585.73 |
| V | 51 | 72 | 1 | No Gas | 18.274 | ug/l | 494161.95 |
| V | 51 | 72 | 3 | He | 14.667 | ug/l | 83864.43 |
| Cr | 52 | 72 | 1 | No Gas | -0.106 | ug/l | 92868.33 |
| Cr | 52 | 72 | 3 | He | 2.164 | ug/l | 12442.01 |
| Mn | 55 | 72 | 1 | No Gas | 11.091 | ug/l | 425126.13 |
| Mn | 55 | 72 | 3 | He | 11.761 | ug/l | 41032.11 |
| Fe | 56 | 72 | 2 | H2 | 18.505 | ug/l | 340937.63 |
| Fe | 56 | 72 | 3 | He | 18.130 | ug/l | 91742.14 |
| Co | 59 | 72 | 1 | No Gas | 0.044 | ug/l | 1939.62 |
| Ni | 60 | 72 | 1 | No Gas | 0.739 | ug/l | 5806.33 |
| Ni | 60 | 72 | 3 | He | 0.718 | ug/l | 1680.11 |
| Cu | 63 | 72 | 1 | No Gas | 0.314 | ug/l | 7444.91 |
| Cu | 63 | 72 | 3 | He | 0.116 | ug/l | 1335.79 |
| Cu | 65 | 72 | 1 | No Gas | 0.156 | ug/l | 2284.44 |
| Zn | 66 | 72 | 1 | No Gas | 1.466 | ug/l | 9650.97 |
| Zn | 66 | 72 | 3 | He | 1.553 | ug/l | 2110.17 |
| As | 75 | 72 | 1 | No Gas | -0.094 | ug/l | 13375.10 |
| As | 75 | 72 | 3 | He | -0.127 | ug/l | 141.53 |
| Se | 78 | 72 | 2 | H2 | 0.164 | ug/l | 140.00 |
| Br | 79 | 72 | 1 | No Gas | 15.271 | ug/l | 279311.48 |
| Br | 79 | 72 | 2 | H2 | 15.183 | ug/l | 148119.33 |
| Se | 82 | 72 | 1 | No Gas | 0.081 | ug/l | 765.42 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 49963.92 |
| Sr | 88 | 72 | 1 | No Gas | 97.342 | ug/l | 4891666.48 |
| Sr | 88 | 72 | 3 | He | 94.826 | ug/l | 517648.42 |
| Mo | 95 | 115 | 1 | No Gas | 0.115 | ug/l | 1324.52 |
| Mo | 95 | 115 | 3 | He | 0.116 | ug/l | 475.56 |
| Mo | 98 | 115 | 1 | No Gas | 0.110 | ug/l | 2073.64 |
| Ag | 107 | 115 | 1 | No Gas | -0.063 | ug/l | 131.39 |
| Ag | 109 | 115 | 1 | No Gas | -0.060 | ug/l | 143.39 |
| Cd | 111 | 115 | 1 | No Gas | 0.025 | ug/l | 152.75 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.019 | ug/l | 46.00 |
| Cd | 114 | 115 | 1 | No Gas | 0.034 | ug/l | 301.77 |
| Cd | 114 | 115 | 3 | He | 0.021 | ug/l | 122.05 |
| Sn | 118 | 115 | 1 | No Gas | -0.065 | ug/l | 2096.01 |
| Sn | 118 | 115 | 3 | He | -0.069 | ug/l | 557.79 |
| Sb | 121 | 115 | 1 | No Gas | 0.307 | ug/l | 9654.95 |
| Sb | 121 | 115 | 3 | He | 0.307 | ug/l | 2487.80 |
| Sb | 123 | 115 | 1 | No Gas | 0.304 | ug/l | 7333.99 |
| Sb | 123 | 115 | 3 | He | 0.294 | ug/l | 1889.32 |
| Ba | 135 | 115 | 1 | No Gas | 3.848 | ug/l | 21474.09 |
| Ba | 137 | 115 | 1 | No Gas | 3.714 | ug/l | 36839.31 |
| La | 139 | 115 | 3 | He | 0.002 | ug/l | 73.33 |
| Ce | 140 | 115 | 3 | He | 0.006 | ug/l | 217.78 |
| Hg | 201 | 209 | 1 | No Gas | 0.002 | ug/l | 37.66 |
| Hg | 202 | 209 | 1 | No Gas | 0.003 | ug/l | 126.98 |
| Hg | 202 | 209 | 3 | He | 0.004 | ug/l | 52.66 |
| Tl | 203 | 209 | 3 | He | 0.029 | ug/l | 964.42 |
| Tl | 205 | 209 | 1 | No Gas | 0.021 | ug/l | 3969.51 |
| Tl | 205 | 209 | 3 | He | 0.027 | ug/l | 2293.79 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.017 | ug/l | 954.49 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.018 | ug/l | 844.48 |
| Pb | 208 | 209 | 1 | No Gas | 0.016 | ug/l | 3870.25 |
| Th | 232 | 209 | 3 | He | -0.009 | ug/l | 235.43 |
| U | 238 | 209 | 1 | No Gas | 0.010 | ug/l | 877.19 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5395741.83 | 95.7 |
| Sc | 45 | 2 | H2 | 2729192.72 | 99.4 |
| Sc | 45 | 3 | He | 293169.45 | 92.1 |
| Ge | 72 | 1 | No Gas | 1474079.52 | 97.5 |
| Ge | 72 | 2 | H2 | 989810.00 | 99.7 |
| Ge | 72 | 3 | He | 216243.08 | 97.1 |
| In | 115 | 1 | No Gas | 12428640.17 | 102.1 |
| In | 115 | 3 | He | 2619161.28 | 99.4 |
| Tb | 159 | 1 | No Gas | 17534333.51 | 107.3 |
| Tb | 159 | 3 | He | 7205687.41 | 105.4 |
| Ho | 165 | 1 | No Gas | 16698543.16 | 109.5 |
| Ho | 165 | 3 | He | 6979843.40 | 105.5 |
| Lu | 175 | 1 | No Gas | 17311446.88 | 111.2 |
| Lu | 175 | 3 | He | 5593254.62 | 104.4 |
| Bi | 209 | 1 | No Gas | 12067213.94 | 106.6 |
| Bi | 209 | 3 | He | 5230310.39 | 104.3 |

ICPMS207-B Analytical Data

Sample Name B22011129-001B
File Name 068SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 23:00:24
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 1.356 | ug/l | 18797.12 |
| Be | 9 | 45 | 1 | No Gas | -0.043 | ug/l | 53.99 |
| B | 11 | 45 | 1 | No Gas | 28.503 | ug/l | 47504.54 |
| Na | 23 | 45 | 3 | He | 31145.417 | ug/l | 16195518.65 |
| Mg | 24 | 45 | 3 | He | 14553.392 | ug/l | 4169283.11 |
| Al | 27 | 45 | 1 | No Gas | 311.029 | ug/l | 4428156.25 |
| Si | 28 | 45 | 2 | H2 | 19119.284 | ug/l | 30070290.43 |
| K | 39 | 72 | 3 | He | 1649.989 | ug/l | 612972.75 |
| Ca | 40 | 72 | 2 | H2 | 14506.399 | ug/l | 92379351.10 |
| Ti | 47 | 72 | 1 | No Gas | 26.328 | ug/l | 51645.63 |
| V | 51 | 72 | 1 | No Gas | 14.569 | ug/l | 305986.54 |
| V | 51 | 72 | 3 | He | 19.370 | ug/l | 75222.72 |
| Cr | 52 | 72 | 1 | No Gas | 3.283 | ug/l | 150130.59 |
| Cr | 52 | 72 | 3 | He | 3.322 | ug/l | 13254.95 |
| Mn | 55 | 72 | 1 | No Gas | 37.208 | ug/l | 1122155.47 |
| Mn | 55 | 72 | 3 | He | 37.474 | ug/l | 92652.38 |
| Fe | 56 | 72 | 2 | H2 | 477.616 | ug/l | 6967872.42 |
| Fe | 56 | 72 | 3 | He | 443.384 | ug/l | 1499466.59 |
| Co | 59 | 72 | 1 | No Gas | 0.382 | ug/l | 10116.83 |
| Ni | 60 | 72 | 1 | No Gas | 2.965 | ug/l | 17475.82 |
| Ni | 60 | 72 | 3 | He | 3.188 | ug/l | 5064.24 |
| Cu | 63 | 72 | 1 | No Gas | 2.126 | ug/l | 31100.24 |
| Cu | 63 | 72 | 3 | He | 2.172 | ug/l | 9429.16 |
| Cu | 65 | 72 | 1 | No Gas | 1.938 | ug/l | 14005.03 |
| Zn | 66 | 72 | 1 | No Gas | 12.198 | ug/l | 58413.72 |
| Zn | 66 | 72 | 3 | He | 13.699 | ug/l | 12006.11 |
| As | 75 | 72 | 1 | No Gas | 1.698 | ug/l | 20840.31 |
| As | 75 | 72 | 3 | He | 0.182 | ug/l | 331.00 |
| Se | 78 | 72 | 2 | H2 | 0.210 | ug/l | 138.11 |
| Br | 79 | 72 | 1 | No Gas | 9.269 | ug/l | 157894.20 |
| Br | 79 | 72 | 2 | H2 | 8.603 | ug/l | 80314.08 |
| Se | 82 | 72 | 1 | No Gas | 0.336 | ug/l | 694.35 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 42325.13 |
| Sr | 88 | 72 | 1 | No Gas | 104.245 | ug/l | 4196118.39 |
| Sr | 88 | 72 | 3 | He | 102.502 | ug/l | 397661.92 |
| Mo | 95 | 115 | 1 | No Gas | 0.525 | ug/l | 4815.29 |
| Mo | 95 | 115 | 3 | He | 0.541 | ug/l | 1660.11 |
| Mo | 98 | 115 | 1 | No Gas | 0.556 | ug/l | 8292.60 |
| Ag | 107 | 115 | 1 | No Gas | -0.029 | ug/l | 902.40 |
| Ag | 109 | 115 | 1 | No Gas | -0.028 | ug/l | 838.36 |
| Cd | 111 | 115 | 1 | No Gas | 0.022 | ug/l | 111.80 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.008 | ug/l | 18.33 |
| Cd | 114 | 115 | 1 | No Gas | 0.011 | ug/l | -18.58 |
| Cd | 114 | 115 | 3 | He | 0.007 | ug/l | 37.30 |
| Sn | 118 | 115 | 1 | No Gas | 0.624 | ug/l | 11958.05 |
| Sn | 118 | 115 | 3 | He | 0.696 | ug/l | 3277.07 |
| Sb | 121 | 115 | 1 | No Gas | 0.815 | ug/l | 19872.99 |
| Sb | 121 | 115 | 3 | He | 0.807 | ug/l | 4832.32 |
| Sb | 123 | 115 | 1 | No Gas | 0.812 | ug/l | 15207.75 |
| Sb | 123 | 115 | 3 | He | 0.815 | ug/l | 3854.92 |
| Ba | 135 | 115 | 1 | No Gas | 5.137 | ug/l | 23619.83 |
| Ba | 137 | 115 | 1 | No Gas | 4.978 | ug/l | 40692.27 |
| La | 139 | 115 | 3 | He | 0.139 | ug/l | 2948.12 |
| Ce | 140 | 115 | 3 | He | 0.368 | ug/l | 8503.77 |
| Hg | 201 | 209 | 1 | No Gas | 0.010 | ug/l | 62.66 |
| Hg | 202 | 209 | 1 | No Gas | 0.017 | ug/l | 229.29 |
| Hg | 202 | 209 | 3 | He | 0.016 | ug/l | 93.31 |
| Tl | 203 | 209 | 3 | He | 0.039 | ug/l | 942.41 |
| Tl | 205 | 209 | 1 | No Gas | 0.029 | ug/l | 3806.13 |
| Tl | 205 | 209 | 3 | He | 0.037 | ug/l | 2257.11 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.408 | ug/l | 7554.40 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.402 | ug/l | 6501.63 |
| Pb | 208 | 209 | 1 | No Gas | 0.400 | ug/l | 29942.27 |
| Th | 232 | 209 | 3 | He | 0.022 | ug/l | 1260.58 |
| U | 238 | 209 | 1 | No Gas | 0.017 | ug/l | 1234.15 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 3784283.48 | 67.1 |
| Sc | 45 | 2 | H2 | 2080918.72 | 75.8 |
| Sc | 45 | 3 | He | 192049.12 | 60.3 |
| Ge | 72 | 1 | No Gas | 1180918.91 | 78.1 |
| Ge | 72 | 2 | H2 | 807159.16 | 81.3 |
| Ge | 72 | 3 | He | 153700.70 | 69.0 |
| In | 115 | 1 | No Gas | 10247482.65 | 84.2 |
| In | 115 | 3 | He | 2040982.19 | 77.4 |
| Tb | 159 | 1 | No Gas | 14986640.18 | 91.7 |
| Tb | 159 | 3 | He | 6148296.88 | 90.0 |
| Ho | 165 | 1 | No Gas | 14593264.94 | 95.7 |
| Ho | 165 | 3 | He | 6016831.52 | 91.0 |
| Lu | 175 | 1 | No Gas | 15086104.32 | 96.9 |
| Lu | 175 | 3 | He | 4853749.26 | 90.6 |
| Bi | 209 | 1 | No Gas | 10432114.56 | 92.1 |
| Bi | 209 | 3 | He | 4597548.81 | 91.7 |

ICPMS207-B Analytical Data

Sample Name B22011130-001A
File Name 069SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 23:06:38
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|--------------|
| Li | 7 | 45 | 1 | No Gas | 0.239 | ug/l | 16583.65 |
| Be | 9 | 45 | 1 | No Gas | -0.052 | ug/l | 40.32 |
| B | 11 | 45 | 1 | No Gas | 21.477 | ug/l | 49836.84 |
| Na | 23 | 45 | 3 | He | 36410.489 | ug/l | 27675397.64 |
| Mg | 24 | 45 | 3 | He | 15489.145 | ug/l | 6485851.85 |
| Al | 27 | 45 | 1 | No Gas | 3.610 | ug/l | 84819.77 |
| Si | 28 | 45 | 2 | H2 | 18537.189 | ug/l | 37235280.92 |
| K | 39 | 72 | 3 | He | 2340.671 | ug/l | 1161964.87 |
| Ca | 40 | 72 | 2 | H2 | 17322.120 | ug/l | 135160767.67 |
| Ti | 47 | 72 | 1 | No Gas | 1.035 | ug/l | 2629.56 |
| V | 51 | 72 | 1 | No Gas | 11.907 | ug/l | 289442.80 |
| V | 51 | 72 | 3 | He | 6.921 | ug/l | 46516.71 |
| Cr | 52 | 72 | 1 | No Gas | -0.576 | ug/l | 76466.44 |
| Cr | 52 | 72 | 3 | He | 1.630 | ug/l | 9359.69 |
| Mn | 55 | 72 | 1 | No Gas | -0.038 | ug/l | 8898.40 |
| Mn | 55 | 72 | 3 | He | 0.076 | ug/l | 408.92 |
| Fe | 56 | 72 | 2 | H2 | 1.948 | ug/l | 45152.21 |
| Fe | 56 | 72 | 3 | He | 0.313 | ug/l | 7020.43 |
| Co | 59 | 72 | 1 | No Gas | 0.018 | ug/l | 1074.58 |
| Ni | 60 | 72 | 1 | No Gas | 0.268 | ug/l | 2318.93 |
| Ni | 60 | 72 | 3 | He | 0.208 | ug/l | 542.24 |
| Cu | 63 | 72 | 1 | No Gas | 0.407 | ug/l | 8692.09 |
| Cu | 63 | 72 | 3 | He | 0.196 | ug/l | 1757.76 |
| Cu | 65 | 72 | 1 | No Gas | 0.220 | ug/l | 2711.35 |
| Zn | 66 | 72 | 1 | No Gas | 3.041 | ug/l | 18167.63 |
| Zn | 66 | 72 | 3 | He | 3.024 | ug/l | 3811.64 |
| As | 75 | 72 | 1 | No Gas | 0.110 | ug/l | 14203.42 |
| As | 75 | 72 | 3 | He | 0.298 | ug/l | 574.60 |
| Se | 78 | 72 | 2 | H2 | 0.053 | ug/l | 68.33 |
| Br | 79 | 72 | 1 | No Gas | 33.859 | ug/l | 512211.07 |
| Br | 79 | 72 | 2 | H2 | 34.532 | ug/l | 293957.39 |
| Se | 82 | 72 | 1 | No Gas | 0.285 | ug/l | 812.76 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 55680.23 |
| Sr | 88 | 72 | 1 | No Gas | 121.696 | ug/l | 5865157.54 |
| Sr | 88 | 72 | 3 | He | 116.447 | ug/l | 620912.68 |
| Mo | 95 | 115 | 1 | No Gas | 0.727 | ug/l | 7926.70 |
| Mo | 95 | 115 | 3 | He | 0.749 | ug/l | 2848.08 |
| Mo | 98 | 115 | 1 | No Gas | 0.734 | ug/l | 13026.29 |
| Ag | 107 | 115 | 1 | No Gas | -0.058 | ug/l | 276.78 |
| Ag | 109 | 115 | 1 | No Gas | -0.054 | ug/l | 306.13 |
| Cd | 111 | 115 | 1 | No Gas | 0.027 | ug/l | 165.33 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.024 | ug/l | 53.89 |
| Cd | 114 | 115 | 1 | No Gas | 0.036 | ug/l | 329.34 |
| Cd | 114 | 115 | 3 | He | 0.022 | ug/l | 118.42 |
| Sn | 118 | 115 | 1 | No Gas | -0.081 | ug/l | 1773.28 |
| Sn | 118 | 115 | 3 | He | -0.093 | ug/l | 428.90 |
| Sb | 121 | 115 | 1 | No Gas | -0.009 | ug/l | 665.42 |
| Sb | 121 | 115 | 3 | He | -0.006 | ug/l | 159.69 |
| Sb | 123 | 115 | 1 | No Gas | -0.007 | ug/l | 535.73 |
| Sb | 123 | 115 | 3 | He | -0.003 | ug/l | 139.68 |
| Ba | 135 | 115 | 1 | No Gas | 5.875 | ug/l | 32253.51 |
| Ba | 137 | 115 | 1 | No Gas | 5.723 | ug/l | 55847.64 |
| La | 139 | 115 | 3 | He | 0.001 | ug/l | 40.00 |
| Ce | 140 | 115 | 3 | He | 0.002 | ug/l | 100.00 |
| Hg | 201 | 209 | 1 | No Gas | 0.001 | ug/l | 33.66 |
| Hg | 202 | 209 | 1 | No Gas | 0.002 | ug/l | 123.31 |
| Hg | 202 | 209 | 3 | He | 0.002 | ug/l | 42.66 |
| Tl | 203 | 209 | 3 | He | 0.006 | ug/l | 680.29 |
| Tl | 205 | 209 | 1 | No Gas | 0.007 | ug/l | 3149.29 |
| Tl | 205 | 209 | 3 | He | 0.008 | ug/l | 1718.14 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.014 | ug/l | 887.81 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.012 | ug/l | 734.47 |
| Pb | 208 | 209 | 1 | No Gas | 0.011 | ug/l | 3396.86 |
| Th | 232 | 209 | 3 | He | -0.010 | ug/l | 185.41 |
| U | 238 | 209 | 1 | No Gas | 0.034 | ug/l | 2762.74 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5134060.40 | 91.1 |
| Sc | 45 | 2 | H2 | 2657402.11 | 96.8 |
| Sc | 45 | 3 | He | 280746.60 | 88.2 |
| Ge | 72 | 1 | No Gas | 1413769.50 | 93.5 |
| Ge | 72 | 2 | H2 | 989230.25 | 99.7 |
| Ge | 72 | 3 | He | 211227.17 | 94.9 |
| In | 115 | 1 | No Gas | 12242717.80 | 100.6 |
| In | 115 | 3 | He | 2536526.47 | 96.2 |
| Tb | 159 | 1 | No Gas | 17205538.68 | 105.3 |
| Tb | 159 | 3 | He | 7096931.26 | 103.9 |
| Ho | 165 | 1 | No Gas | 16150913.89 | 105.9 |
| Ho | 165 | 3 | He | 6892030.80 | 104.2 |
| Lu | 175 | 1 | No Gas | 16695420.98 | 107.3 |
| Lu | 175 | 3 | He | 5628530.99 | 105.1 |
| Bi | 209 | 1 | No Gas | 11933425.45 | 105.4 |
| Bi | 209 | 3 | He | 5087863.04 | 101.5 |

ICPMS207-B Analytical Data

Sample Name B22011130-001B
File Name 070SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 23:12:53
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|--------------|
| Li | 7 | 45 | 1 | No Gas | 1.789 | ug/l | 19909.62 |
| Be | 9 | 45 | 1 | No Gas | -0.045 | ug/l | 43.99 |
| B | 11 | 45 | 1 | No Gas | 20.598 | ug/l | 32995.48 |
| Na | 23 | 45 | 3 | He | 34052.562 | ug/l | 17110031.97 |
| Mg | 24 | 45 | 3 | He | 14131.209 | ug/l | 3911705.26 |
| Al | 27 | 45 | 1 | No Gas | 13.035 | ug/l | 183159.60 |
| Si | 28 | 45 | 2 | H2 | 17346.622 | ug/l | 26885223.14 |
| K | 39 | 72 | 3 | He | 2039.686 | ug/l | 727525.52 |
| Ca | 40 | 72 | 2 | H2 | 16335.707 | ug/l | 103382081.78 |
| Ti | 47 | 72 | 1 | No Gas | 2.082 | ug/l | 4079.69 |
| V | 51 | 72 | 1 | No Gas | 11.125 | ug/l | 213809.91 |
| V | 51 | 72 | 3 | He | 10.959 | ug/l | 46209.40 |
| Cr | 52 | 72 | 1 | No Gas | 2.169 | ug/l | 120464.46 |
| Cr | 52 | 72 | 3 | He | 1.867 | ug/l | 7538.66 |
| Mn | 55 | 72 | 1 | No Gas | 0.745 | ug/l | 29694.52 |
| Mn | 55 | 72 | 3 | He | 0.281 | ug/l | 785.53 |
| Fe | 56 | 72 | 2 | H2 | 11.637 | ug/l | 176869.62 |
| Fe | 56 | 72 | 3 | He | 11.188 | ug/l | 40849.70 |
| Co | 59 | 72 | 1 | No Gas | 0.103 | ug/l | 2921.18 |
| Ni | 60 | 72 | 1 | No Gas | 0.334 | ug/l | 2225.76 |
| Ni | 60 | 72 | 3 | He | 0.323 | ug/l | 562.24 |
| Cu | 63 | 72 | 1 | No Gas | 0.532 | ug/l | 8641.38 |
| Cu | 63 | 72 | 3 | He | 0.310 | ug/l | 1711.09 |
| Cu | 65 | 72 | 1 | No Gas | 0.319 | ug/l | 2831.42 |
| Zn | 66 | 72 | 1 | No Gas | 4.887 | ug/l | 22976.92 |
| Zn | 66 | 72 | 3 | He | 5.380 | ug/l | 4704.12 |
| As | 75 | 72 | 1 | No Gas | 2.232 | ug/l | 22863.51 |
| As | 75 | 72 | 3 | He | 0.592 | ug/l | 623.13 |
| Se | 78 | 72 | 2 | H2 | 0.105 | ug/l | 82.67 |
| Br | 79 | 72 | 1 | No Gas | 11.945 | ug/l | 180148.39 |
| Br | 79 | 72 | 2 | H2 | 10.494 | ug/l | 91389.40 |
| Se | 82 | 72 | 1 | No Gas | 0.167 | ug/l | 615.14 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 46218.91 |
| Sr | 88 | 72 | 1 | No Gas | 124.635 | ug/l | 4824857.86 |
| Sr | 88 | 72 | 3 | He | 122.684 | ug/l | 465252.64 |
| Mo | 95 | 115 | 1 | No Gas | 0.884 | ug/l | 7925.58 |
| Mo | 95 | 115 | 3 | He | 0.919 | ug/l | 2725.83 |
| Mo | 98 | 115 | 1 | No Gas | 0.861 | ug/l | 12556.37 |
| Ag | 107 | 115 | 1 | No Gas | -0.052 | ug/l | 356.15 |
| Ag | 109 | 115 | 1 | No Gas | -0.051 | ug/l | 333.47 |
| Cd | 111 | 115 | 1 | No Gas | 0.004 | ug/l | 17.33 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.001 | ug/l | 5.67 |
| Cd | 114 | 115 | 1 | No Gas | 0.013 | ug/l | 7.28 |
| Cd | 114 | 115 | 3 | He | -0.002 | ug/l | 2.40 |
| Sn | 118 | 115 | 1 | No Gas | 0.397 | ug/l | 8425.84 |
| Sn | 118 | 115 | 3 | He | 0.462 | ug/l | 2339.10 |
| Sb | 121 | 115 | 1 | No Gas | 0.008 | ug/l | 934.79 |
| Sb | 121 | 115 | 3 | He | 0.013 | ug/l | 231.36 |
| Sb | 123 | 115 | 1 | No Gas | 0.014 | ug/l | 813.77 |
| Sb | 123 | 115 | 3 | He | 0.016 | ug/l | 196.35 |
| Ba | 135 | 115 | 1 | No Gas | 6.062 | ug/l | 27336.15 |
| Ba | 137 | 115 | 1 | No Gas | 5.966 | ug/l | 47844.12 |
| La | 139 | 115 | 3 | He | 0.004 | ug/l | 97.78 |
| Ce | 140 | 115 | 3 | He | 0.009 | ug/l | 232.23 |
| Hg | 201 | 209 | 1 | No Gas | 0.007 | ug/l | 52.66 |
| Hg | 202 | 209 | 1 | No Gas | 0.014 | ug/l | 204.29 |
| Hg | 202 | 209 | 3 | He | 0.015 | ug/l | 87.31 |
| Tl | 203 | 209 | 3 | He | 0.029 | ug/l | 842.37 |
| Tl | 205 | 209 | 1 | No Gas | 0.018 | ug/l | 3313.78 |
| Tl | 205 | 209 | 3 | He | 0.025 | ug/l | 1935.59 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.021 | ug/l | 902.26 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.023 | ug/l | 818.92 |
| Pb | 208 | 209 | 1 | No Gas | 0.021 | ug/l | 3714.68 |
| Th | 232 | 209 | 3 | He | 0.005 | ug/l | 696.30 |
| U | 238 | 209 | 1 | No Gas | 0.036 | ug/l | 2592.74 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 3529683.09 | 62.6 |
| Sc | 45 | 2 | H2 | 2050481.94 | 74.7 |
| Sc | 45 | 3 | He | 185561.46 | 58.3 |
| Ge | 72 | 1 | No Gas | 1135655.96 | 75.1 |
| Ge | 72 | 2 | H2 | 802216.15 | 80.8 |
| Ge | 72 | 3 | He | 150229.03 | 67.5 |
| In | 115 | 1 | No Gas | 10061985.27 | 82.7 |
| In | 115 | 3 | He | 1981336.13 | 75.2 |
| Tb | 159 | 1 | No Gas | 15053592.65 | 92.1 |
| Tb | 159 | 3 | He | 6080191.59 | 89.0 |
| Ho | 165 | 1 | No Gas | 14328738.34 | 94.0 |
| Ho | 165 | 3 | He | 5883911.83 | 89.0 |
| Lu | 175 | 1 | No Gas | 15039549.33 | 96.6 |
| Lu | 175 | 3 | He | 4692761.87 | 87.6 |
| Bi | 209 | 1 | No Gas | 10510674.32 | 92.8 |
| Bi | 209 | 3 | He | 4560708.06 | 91.0 |

ICPMS207-B Analytical Data

Sample Name B22011131-001A
File Name 071SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 23:19:07
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 1.575 | ug/l | 26686.76 |
| Be | 9 | 45 | 1 | No Gas | -0.053 | ug/l | 38.32 |
| B | 11 | 45 | 1 | No Gas | 28.865 | ug/l | 63852.91 |
| Na | 23 | 45 | 3 | He | 41585.952 | ug/l | 30991075.65 |
| Mg | 24 | 45 | 3 | He | 8939.359 | ug/l | 3673424.52 |
| Al | 27 | 45 | 1 | No Gas | 3.384 | ug/l | 78795.55 |
| Si | 28 | 45 | 2 | H2 | 17615.384 | ug/l | 34704647.06 |
| K | 39 | 72 | 3 | He | 2825.878 | ug/l | 1370074.22 |
| Ca | 40 | 72 | 2 | H2 | 12859.162 | ug/l | 97540503.73 |
| Ti | 47 | 72 | 1 | No Gas | 0.955 | ug/l | 2387.60 |
| V | 51 | 72 | 1 | No Gas | 11.510 | ug/l | 272083.39 |
| V | 51 | 72 | 3 | He | 6.555 | ug/l | 44311.26 |
| Cr | 52 | 72 | 1 | No Gas | -0.185 | ug/l | 85016.51 |
| Cr | 52 | 72 | 3 | He | 2.006 | ug/l | 11190.96 |
| Mn | 55 | 72 | 1 | No Gas | 1.884 | ug/l | 76099.91 |
| Mn | 55 | 72 | 3 | He | 1.987 | ug/l | 6813.22 |
| Fe | 56 | 72 | 2 | H2 | 1.219 | ug/l | 31096.23 |
| Fe | 56 | 72 | 3 | He | 0.881 | ug/l | 9536.03 |
| Co | 59 | 72 | 1 | No Gas | 0.013 | ug/l | 888.27 |
| Ni | 60 | 72 | 1 | No Gas | 0.268 | ug/l | 2265.69 |
| Ni | 60 | 72 | 3 | He | 0.283 | ug/l | 694.47 |
| Cu | 63 | 72 | 1 | No Gas | 0.486 | ug/l | 9772.54 |
| Cu | 63 | 72 | 3 | He | 0.249 | ug/l | 2033.74 |
| Cu | 65 | 72 | 1 | No Gas | 0.323 | ug/l | 3476.43 |
| Zn | 66 | 72 | 1 | No Gas | 0.674 | ug/l | 4675.61 |
| Zn | 66 | 72 | 3 | He | 0.534 | ug/l | 841.14 |
| As | 75 | 72 | 1 | No Gas | 1.253 | ug/l | 21415.60 |
| As | 75 | 72 | 3 | He | 1.190 | ug/l | 1472.58 |
| Se | 78 | 72 | 2 | H2 | 0.076 | ug/l | 80.67 |
| Br | 79 | 72 | 1 | No Gas | 24.387 | ug/l | 379236.65 |
| Br | 79 | 72 | 2 | H2 | 25.191 | ug/l | 217229.04 |
| Se | 82 | 72 | 1 | No Gas | 0.476 | ug/l | 864.23 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 54651.62 |
| Sr | 88 | 72 | 1 | No Gas | 126.189 | ug/l | 5948588.39 |
| Sr | 88 | 72 | 3 | He | 116.778 | ug/l | 615296.87 |
| Mo | 95 | 115 | 1 | No Gas | 3.960 | ug/l | 42012.92 |
| Mo | 95 | 115 | 3 | He | 4.120 | ug/l | 15230.40 |
| Mo | 98 | 115 | 1 | No Gas | 3.983 | ug/l | 68820.07 |
| Ag | 107 | 115 | 1 | No Gas | -0.061 | ug/l | 175.40 |
| Ag | 109 | 115 | 1 | No Gas | -0.059 | ug/l | 162.07 |
| Cd | 111 | 115 | 1 | No Gas | 0.024 | ug/l | 140.62 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Cd | 111 | 115 | 3 | He | 0.022 | ug/l | 49.11 |
| Cd | 114 | 115 | 1 | No Gas | 0.035 | ug/l | 305.03 |
| Cd | 114 | 115 | 3 | He | 0.022 | ug/l | 119.00 |
| Sn | 118 | 115 | 1 | No Gas | -0.015 | ug/l | 2884.58 |
| Sn | 118 | 115 | 3 | He | -0.020 | ug/l | 748.92 |
| Sb | 121 | 115 | 1 | No Gas | 0.397 | ug/l | 11770.10 |
| Sb | 121 | 115 | 3 | He | 0.394 | ug/l | 2967.95 |
| Sb | 123 | 115 | 1 | No Gas | 0.396 | ug/l | 9022.14 |
| Sb | 123 | 115 | 3 | He | 0.401 | ug/l | 2385.11 |
| Ba | 135 | 115 | 1 | No Gas | 21.521 | ug/l | 115383.10 |
| Ba | 137 | 115 | 1 | No Gas | 21.335 | ug/l | 203389.54 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 33.33 |
| Ce | 140 | 115 | 3 | He | 0.001 | ug/l | 68.89 |
| Hg | 201 | 209 | 1 | No Gas | 0.012 | ug/l | 79.32 |
| Hg | 202 | 209 | 1 | No Gas | 0.245 | ug/l | 2395.07 |
| Hg | 202 | 209 | 3 | He | 0.185 | ug/l | 873.52 |
| Tl | 203 | 209 | 3 | He | 0.004 | ug/l | 671.62 |
| Tl | 205 | 209 | 1 | No Gas | 0.003 | ug/l | 2932.57 |
| Tl | 205 | 209 | 3 | He | 0.001 | ug/l | 1574.73 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.006 | ug/l | 742.25 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.007 | ug/l | 655.58 |
| Pb | 208 | 209 | 1 | No Gas | 0.005 | ug/l | 2921.25 |
| Th | 232 | 209 | 3 | He | -0.010 | ug/l | 210.75 |
| U | 238 | 209 | 1 | No Gas | 0.285 | ug/l | 22678.40 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5028450.88 | 89.2 |
| Sc | 45 | 2 | H2 | 2606444.42 | 95.0 |
| Sc | 45 | 3 | He | 275392.10 | 86.5 |
| Ge | 72 | 1 | No Gas | 1383072.26 | 91.5 |
| Ge | 72 | 2 | H2 | 961381.23 | 96.9 |
| Ge | 72 | 3 | He | 208717.16 | 93.7 |
| In | 115 | 1 | No Gas | 11969719.21 | 98.3 |
| In | 115 | 3 | He | 2481862.12 | 94.2 |
| Tb | 159 | 1 | No Gas | 17566981.99 | 107.5 |
| Tb | 159 | 3 | He | 7010378.62 | 102.6 |
| Ho | 165 | 1 | No Gas | 16638128.17 | 109.1 |
| Ho | 165 | 3 | He | 6820575.44 | 103.1 |
| Lu | 175 | 1 | No Gas | 16864415.28 | 108.4 |
| Lu | 175 | 3 | He | 5577066.87 | 104.1 |
| Bi | 209 | 1 | No Gas | 11964308.05 | 105.7 |
| Bi | 209 | 3 | He | 5273745.27 | 105.2 |

ICPMS207-B Analytical Data

Sample Name B22011131-001B
File Name 072SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 23:25:21
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 2.883 | ug/l | 25025.86 |
| Be | 9 | 45 | 1 | No Gas | -0.044 | ug/l | 46.32 |
| B | 11 | 45 | 1 | No Gas | 29.290 | ug/l | 43887.65 |
| Na | 23 | 45 | 3 | He | 39568.638 | ug/l | 19390202.63 |
| Mg | 24 | 45 | 3 | He | 8757.224 | ug/l | 2365834.51 |
| Al | 27 | 45 | 1 | No Gas | 24.204 | ug/l | 319777.77 |
| Si | 28 | 45 | 2 | H2 | 17120.556 | ug/l | 26194980.39 |
| K | 39 | 72 | 3 | He | 2543.789 | ug/l | 875106.37 |
| Ca | 40 | 72 | 2 | H2 | 12470.674 | ug/l | 76649792.09 |
| Ti | 47 | 72 | 1 | No Gas | 2.296 | ug/l | 4380.24 |
| V | 51 | 72 | 1 | No Gas | 12.442 | ug/l | 239665.48 |
| V | 51 | 72 | 3 | He | 11.282 | ug/l | 46295.28 |
| Cr | 52 | 72 | 1 | No Gas | 2.579 | ug/l | 126389.02 |
| Cr | 52 | 72 | 3 | He | 2.285 | ug/l | 8907.19 |
| Mn | 55 | 72 | 1 | No Gas | 4.513 | ug/l | 135181.45 |
| Mn | 55 | 72 | 3 | He | 4.207 | ug/l | 10053.11 |
| Fe | 56 | 72 | 2 | H2 | 23.254 | ug/l | 335156.73 |
| Fe | 56 | 72 | 3 | He | 21.827 | ug/l | 74398.67 |
| Co | 59 | 72 | 1 | No Gas | 0.111 | ug/l | 3057.61 |
| Ni | 60 | 72 | 1 | No Gas | 0.388 | ug/l | 2468.66 |
| Ni | 60 | 72 | 3 | He | 0.376 | ug/l | 630.02 |
| Cu | 63 | 72 | 1 | No Gas | 0.772 | ug/l | 11594.63 |
| Cu | 63 | 72 | 3 | He | 0.574 | ug/l | 2718.38 |
| Cu | 65 | 72 | 1 | No Gas | 0.522 | ug/l | 4071.54 |
| Zn | 66 | 72 | 1 | No Gas | 1.755 | ug/l | 8560.78 |
| Zn | 66 | 72 | 3 | He | 2.062 | ug/l | 1859.02 |
| As | 75 | 72 | 1 | No Gas | 2.621 | ug/l | 24372.41 |
| As | 75 | 72 | 3 | He | 1.510 | ug/l | 1267.43 |
| Se | 78 | 72 | 2 | H2 | 0.125 | ug/l | 90.22 |
| Br | 79 | 72 | 1 | No Gas | 11.130 | ug/l | 167623.83 |
| Br | 79 | 72 | 2 | H2 | 10.070 | ug/l | 86222.00 |
| Se | 82 | 72 | 1 | No Gas | -0.030 | ug/l | 546.47 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 45962.03 |
| Sr | 88 | 72 | 1 | No Gas | 129.317 | ug/l | 4896964.74 |
| Sr | 88 | 72 | 3 | He | 123.279 | ug/l | 457976.02 |
| Mo | 95 | 115 | 1 | No Gas | 4.046 | ug/l | 36190.38 |
| Mo | 95 | 115 | 3 | He | 4.450 | ug/l | 12911.47 |
| Mo | 98 | 115 | 1 | No Gas | 4.231 | ug/l | 61627.43 |
| Ag | 107 | 115 | 1 | No Gas | -0.055 | ug/l | 300.12 |
| Ag | 109 | 115 | 1 | No Gas | -0.052 | ug/l | 292.79 |
| Cd | 111 | 115 | 1 | No Gas | 0.008 | ug/l | 39.04 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Cd | 111 | 115 | 3 | He | 0.002 | ug/l | 8.11 |
| Cd | 114 | 115 | 1 | No Gas | 0.017 | ug/l | 47.36 |
| Cd | 114 | 115 | 3 | He | -0.001 | ug/l | 7.75 |
| Sn | 118 | 115 | 1 | No Gas | 0.499 | ug/l | 9947.20 |
| Sn | 118 | 115 | 3 | He | 0.580 | ug/l | 2716.95 |
| Sb | 121 | 115 | 1 | No Gas | 0.420 | ug/l | 10456.94 |
| Sb | 121 | 115 | 3 | He | 0.431 | ug/l | 2534.49 |
| Sb | 123 | 115 | 1 | No Gas | 0.422 | ug/l | 8064.12 |
| Sb | 123 | 115 | 3 | He | 0.433 | ug/l | 2009.02 |
| Ba | 135 | 115 | 1 | No Gas | 22.608 | ug/l | 102180.57 |
| Ba | 137 | 115 | 1 | No Gas | 21.844 | ug/l | 175553.78 |
| La | 139 | 115 | 3 | He | 0.022 | ug/l | 451.12 |
| Ce | 140 | 115 | 3 | He | 0.043 | ug/l | 978.93 |
| Hg | 201 | 209 | 1 | No Gas | 0.021 | ug/l | 102.31 |
| Hg | 202 | 209 | 1 | No Gas | 0.314 | ug/l | 2719.41 |
| Hg | 202 | 209 | 3 | He | 0.223 | ug/l | 912.52 |
| Tl | 203 | 209 | 3 | He | 0.023 | ug/l | 781.00 |
| Tl | 205 | 209 | 1 | No Gas | 0.016 | ug/l | 3280.43 |
| Tl | 205 | 209 | 3 | He | 0.018 | ug/l | 1800.18 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.026 | ug/l | 1010.05 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.025 | ug/l | 866.70 |
| Pb | 208 | 209 | 1 | No Gas | 0.024 | ug/l | 4010.27 |
| Th | 232 | 209 | 3 | He | 0.009 | ug/l | 820.36 |
| U | 238 | 209 | 1 | No Gas | 0.306 | ug/l | 21665.59 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 3409459.11 | 60.5 |
| Sc | 45 | 2 | H2 | 2024312.55 | 73.7 |
| Sc | 45 | 3 | He | 181071.61 | 56.9 |
| Ge | 72 | 1 | No Gas | 1111400.46 | 73.5 |
| Ge | 72 | 2 | H2 | 779104.86 | 78.5 |
| Ge | 72 | 3 | He | 147164.51 | 66.1 |
| In | 115 | 1 | No Gas | 10092263.66 | 82.9 |
| In | 115 | 3 | He | 1948062.60 | 73.9 |
| Tb | 159 | 1 | No Gas | 15001410.99 | 91.8 |
| Tb | 159 | 3 | He | 5972020.87 | 87.4 |
| Ho | 165 | 1 | No Gas | 14438001.97 | 94.7 |
| Ho | 165 | 3 | He | 5887948.57 | 89.0 |
| Lu | 175 | 1 | No Gas | 15027702.48 | 96.6 |
| Lu | 175 | 3 | He | 4754883.88 | 88.8 |
| Bi | 209 | 1 | No Gas | 10679897.88 | 94.3 |
| Bi | 209 | 3 | He | 4610579.16 | 92.0 |

ICPMS207-B Analytical Data

Sample Name B22011132-001A
File Name 073SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 23:31:35
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 0.344 | ug/l | 16835.38 |
| Be | 9 | 45 | 1 | No Gas | -0.050 | ug/l | 46.32 |
| B | 11 | 45 | 1 | No Gas | 41.693 | ug/l | 88856.64 |
| Na | 23 | 45 | 3 | He | 35441.301 | ug/l | 25839624.62 |
| Mg | 24 | 45 | 3 | He | 11138.767 | ug/l | 4474808.05 |
| Al | 27 | 45 | 1 | No Gas | 2.304 | ug/l | 57688.66 |
| Si | 28 | 45 | 2 | H2 | 22003.673 | ug/l | 42625245.78 |
| K | 39 | 72 | 3 | He | 1774.667 | ug/l | 849654.04 |
| Ca | 40 | 72 | 2 | H2 | 11018.568 | ug/l | 81932587.20 |
| Ti | 47 | 72 | 1 | No Gas | 1.217 | ug/l | 2940.09 |
| V | 51 | 72 | 1 | No Gas | 17.480 | ug/l | 434536.23 |
| V | 51 | 72 | 3 | He | 13.411 | ug/l | 71891.66 |
| Cr | 52 | 72 | 1 | No Gas | -0.198 | ug/l | 83320.90 |
| Cr | 52 | 72 | 3 | He | 2.114 | ug/l | 11224.35 |
| Mn | 55 | 72 | 1 | No Gas | -0.043 | ug/l | 8412.42 |
| Mn | 55 | 72 | 3 | He | 0.069 | ug/l | 362.93 |
| Fe | 56 | 72 | 2 | H2 | 0.671 | ug/l | 21171.76 |
| Fe | 56 | 72 | 3 | He | 0.480 | ug/l | 7356.19 |
| Co | 59 | 72 | 1 | No Gas | 0.008 | ug/l | 741.88 |
| Ni | 60 | 72 | 1 | No Gas | 0.304 | ug/l | 2465.33 |
| Ni | 60 | 72 | 3 | He | 0.253 | ug/l | 603.35 |
| Cu | 63 | 72 | 1 | No Gas | 0.581 | ug/l | 11141.40 |
| Cu | 63 | 72 | 3 | He | 0.409 | ug/l | 2798.71 |
| Cu | 65 | 72 | 1 | No Gas | 0.413 | ug/l | 4130.25 |
| Zn | 66 | 72 | 1 | No Gas | 9.643 | ug/l | 53381.72 |
| Zn | 66 | 72 | 3 | He | 10.251 | ug/l | 11707.00 |
| As | 75 | 72 | 1 | No Gas | -0.294 | ug/l | 11010.48 |
| As | 75 | 72 | 3 | He | -0.095 | ug/l | 161.40 |
| Se | 78 | 72 | 2 | H2 | 0.190 | ug/l | 148.67 |
| Br | 79 | 72 | 1 | No Gas | 22.414 | ug/l | 348048.34 |
| Br | 79 | 72 | 2 | H2 | 22.493 | ug/l | 193540.00 |
| Se | 82 | 72 | 1 | No Gas | 0.701 | ug/l | 934.63 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 40983.41 |
| Sr | 88 | 72 | 1 | No Gas | 80.938 | ug/l | 3752305.23 |
| Sr | 88 | 72 | 3 | He | 77.058 | ug/l | 387864.18 |
| Mo | 95 | 115 | 1 | No Gas | 0.164 | ug/l | 1806.79 |
| Mo | 95 | 115 | 3 | He | 0.173 | ug/l | 658.91 |
| Mo | 98 | 115 | 1 | No Gas | 0.154 | ug/l | 2760.91 |
| Ag | 107 | 115 | 1 | No Gas | -0.062 | ug/l | 141.39 |
| Ag | 109 | 115 | 1 | No Gas | -0.060 | ug/l | 152.06 |
| Cd | 111 | 115 | 1 | No Gas | 0.027 | ug/l | 163.31 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.022 | ug/l | 48.00 |
| Cd | 114 | 115 | 1 | No Gas | 0.038 | ug/l | 337.88 |
| Cd | 114 | 115 | 3 | He | 0.024 | ug/l | 126.94 |
| Sn | 118 | 115 | 1 | No Gas | -0.078 | ug/l | 1796.56 |
| Sn | 118 | 115 | 3 | He | -0.080 | ug/l | 475.57 |
| Sb | 121 | 115 | 1 | No Gas | 0.275 | ug/l | 8450.72 |
| Sb | 121 | 115 | 3 | He | 0.282 | ug/l | 2171.39 |
| Sb | 123 | 115 | 1 | No Gas | 0.281 | ug/l | 6606.56 |
| Sb | 123 | 115 | 3 | He | 0.283 | ug/l | 1721.61 |
| Ba | 135 | 115 | 1 | No Gas | 4.607 | ug/l | 24809.69 |
| Ba | 137 | 115 | 1 | No Gas | 4.471 | ug/l | 42787.64 |
| La | 139 | 115 | 3 | He | 0.001 | ug/l | 44.45 |
| Ce | 140 | 115 | 3 | He | 0.001 | ug/l | 46.67 |
| Hg | 201 | 209 | 1 | No Gas | 0.002 | ug/l | 40.66 |
| Hg | 202 | 209 | 1 | No Gas | 0.014 | ug/l | 231.96 |
| Hg | 202 | 209 | 3 | He | 0.013 | ug/l | 90.65 |
| Tl | 203 | 209 | 3 | He | -0.004 | ug/l | 567.57 |
| Tl | 205 | 209 | 1 | No Gas | -0.005 | ug/l | 2515.81 |
| Tl | 205 | 209 | 3 | He | -0.009 | ug/l | 1281.24 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.014 | ug/l | 907.82 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.013 | ug/l | 763.36 |
| Pb | 208 | 209 | 1 | No Gas | 0.012 | ug/l | 3557.99 |
| Th | 232 | 209 | 3 | He | -0.010 | ug/l | 202.75 |
| U | 238 | 209 | 1 | No Gas | 0.015 | ug/l | 1294.47 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4960748.73 | 88.0 |
| Sc | 45 | 2 | H2 | 2562896.98 | 93.4 |
| Sc | 45 | 3 | He | 269254.61 | 84.5 |
| Ge | 72 | 1 | No Gas | 1360477.15 | 90.0 |
| Ge | 72 | 2 | H2 | 942371.83 | 95.0 |
| Ge | 72 | 3 | He | 199341.08 | 89.5 |
| In | 115 | 1 | No Gas | 11999741.71 | 98.6 |
| In | 115 | 3 | He | 2471922.69 | 93.8 |
| Tb | 159 | 1 | No Gas | 17125983.71 | 104.8 |
| Tb | 159 | 3 | He | 6940445.88 | 101.6 |
| Ho | 165 | 1 | No Gas | 16326783.91 | 107.1 |
| Ho | 165 | 3 | He | 6677074.13 | 100.9 |
| Lu | 175 | 1 | No Gas | 17056354.51 | 109.6 |
| Lu | 175 | 3 | He | 5532252.00 | 103.3 |
| Bi | 209 | 1 | No Gas | 12209326.87 | 107.8 |
| Bi | 209 | 3 | He | 5139517.58 | 102.5 |

ICPMS207-B Analytical Data

Sample Name B22011132-001B
File Name 074SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 23:37:50
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 2.067 | ug/l | 20363.74 |
| Be | 9 | 45 | 1 | No Gas | -0.044 | ug/l | 43.99 |
| B | 11 | 45 | 1 | No Gas | 41.399 | ug/l | 59651.14 |
| Na | 23 | 45 | 3 | He | 34217.897 | ug/l | 16359294.62 |
| Mg | 24 | 45 | 3 | He | 10882.472 | ug/l | 2866607.28 |
| Al | 27 | 45 | 1 | No Gas | 22.742 | ug/l | 296260.48 |
| Si | 28 | 45 | 2 | H2 | 20864.477 | ug/l | 31554074.24 |
| K | 39 | 72 | 3 | He | 1569.791 | ug/l | 545895.02 |
| Ca | 40 | 72 | 2 | H2 | 10854.356 | ug/l | 65614133.49 |
| Ti | 47 | 72 | 1 | No Gas | 2.541 | ug/l | 4653.77 |
| V | 51 | 72 | 1 | No Gas | 19.329 | ug/l | 382874.75 |
| V | 51 | 72 | 3 | He | 17.578 | ug/l | 64533.88 |
| Cr | 52 | 72 | 1 | No Gas | 2.804 | ug/l | 126225.77 |
| Cr | 52 | 72 | 3 | He | 2.464 | ug/l | 9304.11 |
| Mn | 55 | 72 | 1 | No Gas | 1.636 | ug/l | 52115.96 |
| Mn | 55 | 72 | 3 | He | 1.212 | ug/l | 2889.71 |
| Fe | 56 | 72 | 2 | H2 | 42.337 | ug/l | 593638.44 |
| Fe | 56 | 72 | 3 | He | 38.652 | ug/l | 125225.17 |
| Co | 59 | 72 | 1 | No Gas | 0.112 | ug/l | 2961.11 |
| Ni | 60 | 72 | 1 | No Gas | 0.438 | ug/l | 2641.69 |
| Ni | 60 | 72 | 3 | He | 0.426 | ug/l | 685.58 |
| Cu | 63 | 72 | 1 | No Gas | 1.047 | ug/l | 14616.53 |
| Cu | 63 | 72 | 3 | He | 0.911 | ug/l | 3938.09 |
| Cu | 65 | 72 | 1 | No Gas | 0.859 | ug/l | 6008.33 |
| Zn | 66 | 72 | 1 | No Gas | 20.925 | ug/l | 90245.01 |
| Zn | 66 | 72 | 3 | He | 23.141 | ug/l | 18783.33 |
| As | 75 | 72 | 1 | No Gas | 0.542 | ug/l | 12897.90 |
| As | 75 | 72 | 3 | He | 0.167 | ug/l | 298.07 |
| Se | 78 | 72 | 2 | H2 | 0.226 | ug/l | 139.22 |
| Br | 79 | 72 | 1 | No Gas | 9.938 | ug/l | 149505.17 |
| Br | 79 | 72 | 2 | H2 | 8.741 | ug/l | 77011.50 |
| Se | 82 | 72 | 1 | No Gas | 0.300 | ug/l | 617.81 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 34996.29 |
| Sr | 88 | 72 | 1 | No Gas | 83.632 | ug/l | 3049005.89 |
| Sr | 88 | 72 | 3 | He | 80.276 | ug/l | 290281.55 |
| Mo | 95 | 115 | 1 | No Gas | 0.220 | ug/l | 1995.71 |
| Mo | 95 | 115 | 3 | He | 0.242 | ug/l | 708.91 |
| Mo | 98 | 115 | 1 | No Gas | 0.226 | ug/l | 3331.17 |
| Ag | 107 | 115 | 1 | No Gas | -0.026 | ug/l | 952.42 |
| Ag | 109 | 115 | 1 | No Gas | -0.022 | ug/l | 947.75 |
| Cd | 111 | 115 | 1 | No Gas | 0.010 | ug/l | 47.90 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.002 | ug/l | 8.44 |
| Cd | 114 | 115 | 1 | No Gas | 0.017 | ug/l | 49.32 |
| Cd | 114 | 115 | 3 | He | 0.002 | ug/l | 17.54 |
| Sn | 118 | 115 | 1 | No Gas | 0.506 | ug/l | 9940.50 |
| Sn | 118 | 115 | 3 | He | 0.556 | ug/l | 2596.93 |
| Sb | 121 | 115 | 1 | No Gas | 0.283 | ug/l | 7212.58 |
| Sb | 121 | 115 | 3 | He | 0.281 | ug/l | 1686.27 |
| Sb | 123 | 115 | 1 | No Gas | 0.286 | ug/l | 5578.67 |
| Sb | 123 | 115 | 3 | He | 0.299 | ug/l | 1405.21 |
| Ba | 135 | 115 | 1 | No Gas | 5.708 | ug/l | 25539.55 |
| Ba | 137 | 115 | 1 | No Gas | 5.615 | ug/l | 44659.82 |
| La | 139 | 115 | 3 | He | 0.017 | ug/l | 354.45 |
| Ce | 140 | 115 | 3 | He | 0.035 | ug/l | 784.47 |
| Hg | 201 | 209 | 1 | No Gas | 0.005 | ug/l | 47.32 |
| Hg | 202 | 209 | 1 | No Gas | 0.025 | ug/l | 307.94 |
| Hg | 202 | 209 | 3 | He | 0.019 | ug/l | 105.31 |
| Tl | 203 | 209 | 3 | He | 0.015 | ug/l | 720.31 |
| Tl | 205 | 209 | 1 | No Gas | 0.012 | ug/l | 3133.72 |
| Tl | 205 | 209 | 3 | He | 0.013 | ug/l | 1714.80 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.148 | ug/l | 3209.30 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.141 | ug/l | 2680.29 |
| Pb | 208 | 209 | 1 | No Gas | 0.143 | ug/l | 12605.77 |
| Th | 232 | 209 | 3 | He | 0.002 | ug/l | 603.59 |
| U | 238 | 209 | 1 | No Gas | 0.017 | ug/l | 1291.14 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 3353619.93 | 59.5 |
| Sc | 45 | 2 | H2 | 2001515.83 | 72.9 |
| Sc | 45 | 3 | He | 176607.68 | 55.5 |
| Ge | 72 | 1 | No Gas | 1069500.54 | 70.7 |
| Ge | 72 | 2 | H2 | 765963.00 | 77.2 |
| Ge | 72 | 3 | He | 143193.68 | 64.3 |
| In | 115 | 1 | No Gas | 9974149.78 | 81.9 |
| In | 115 | 3 | He | 1921999.06 | 72.9 |
| Tb | 159 | 1 | No Gas | 15036234.45 | 92.0 |
| Tb | 159 | 3 | He | 5913802.66 | 86.5 |
| Ho | 165 | 1 | No Gas | 14284624.33 | 93.7 |
| Ho | 165 | 3 | He | 5852344.12 | 88.5 |
| Lu | 175 | 1 | No Gas | 14596772.72 | 93.8 |
| Lu | 175 | 3 | He | 4685914.03 | 87.5 |
| Bi | 209 | 1 | No Gas | 10858015.67 | 95.9 |
| Bi | 209 | 3 | He | 4698084.18 | 93.7 |

ICPMS207-B Analytical Data

Sample Name B22011133-001A
File Name 075SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 23:44:04
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|------------|-------|---------------|
| Li | 7 | 45 | 1 | No Gas | 8.398 | ug/l | 82087.00 |
| Be | 9 | 45 | 1 | No Gas | -0.049 | ug/l | 50.66 |
| B | 11 | 45 | 1 | No Gas | 45.145 | ug/l | 99555.55 |
| Na | 23 | 45 | 3 | He | 387562.028 | ug/l | 313840615.32 |
| Mg | 24 | 45 | 3 | He | 243225.176 | ug/l | 108654156.15 |
| Al | 27 | 45 | 1 | No Gas | 0.312 | ug/l | 21387.60 |
| Si | 28 | 45 | 2 | H2 | 27417.867 | ug/l | 52382544.48 |
| K | 39 | 72 | 3 | He | 7220.347 | ug/l | 3349253.77 |
| Ca | 40 | 72 | 2 | H2 | 157492.214 | ug/l | 1108667481.76 |
| Ti | 47 | 72 | 1 | No Gas | 1.958 | ug/l | 4451.83 |
| V | 51 | 72 | 1 | No Gas | 13.437 | ug/l | 310756.70 |
| V | 51 | 72 | 3 | He | 8.408 | ug/l | 52218.17 |
| Cr | 52 | 72 | 1 | No Gas | 7.858 | ug/l | 281059.47 |
| Cr | 52 | 72 | 3 | He | 9.272 | ug/l | 48309.19 |
| Mn | 55 | 72 | 1 | No Gas | 2.659 | ug/l | 98165.48 |
| Mn | 55 | 72 | 3 | He | 2.718 | ug/l | 9186.37 |
| Fe | 56 | 72 | 2 | H2 | 4.351 | ug/l | 79396.99 |
| Fe | 56 | 72 | 3 | He | 3.984 | ug/l | 23545.96 |
| Co | 59 | 72 | 1 | No Gas | 0.899 | ug/l | 25821.59 |
| Ni | 60 | 72 | 1 | No Gas | 55.627 | ug/l | 357267.65 |
| Ni | 60 | 72 | 3 | He | 57.790 | ug/l | 122029.74 |
| Cu | 63 | 72 | 1 | No Gas | 2.940 | ug/l | 47180.83 |
| Cu | 63 | 72 | 3 | He | 0.992 | ug/l | 6143.73 |
| Cu | 65 | 72 | 1 | No Gas | 1.679 | ug/l | 13621.84 |
| Zn | 66 | 72 | 1 | No Gas | 1.682 | ug/l | 9746.08 |
| Zn | 66 | 72 | 3 | He | 1.154 | ug/l | 1555.65 |
| As | 75 | 72 | 1 | No Gas | 1.895 | ug/l | 24347.60 |
| As | 75 | 72 | 3 | He | 1.093 | ug/l | 1361.97 |
| Se | 78 | 72 | 2 | H2 | 4.427 | ug/l | 2606.79 |
| Br | 79 | 72 | 1 | No Gas | 288.755 | ug/l | 3589381.04 |
| Br | 79 | 72 | 2 | H2 | 291.293 | ug/l | 2013182.04 |
| Se | 82 | 72 | 1 | No Gas | 9.913 | ug/l | 4196.10 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 636174.97 |
| Sr | 88 | 72 | 1 | No Gas | 2257.328 | ug/l | 101134636.66 |
| Sr | 88 | 72 | 3 | He | 2278.286 | ug/l | 11890203.02 |
| Mo | 95 | 115 | 1 | No Gas | 1.000 | ug/l | 9715.60 |
| Mo | 95 | 115 | 3 | He | 1.022 | ug/l | 3611.59 |
| Mo | 98 | 115 | 1 | No Gas | 0.989 | ug/l | 15649.92 |
| Ag | 107 | 115 | 1 | No Gas | -0.059 | ug/l | 220.76 |
| Ag | 109 | 115 | 1 | No Gas | -0.058 | ug/l | 184.08 |
| Cd | 111 | 115 | 1 | No Gas | 0.027 | ug/l | 148.40 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Cd | 111 | 115 | 3 | He | 0.023 | ug/l | 49.00 |
| Cd | 114 | 115 | 1 | No Gas | 0.038 | ug/l | 310.29 |
| Cd | 114 | 115 | 3 | He | 0.025 | ug/l | 127.58 |
| Sn | 118 | 115 | 1 | No Gas | -0.066 | ug/l | 1816.53 |
| Sn | 118 | 115 | 3 | He | -0.091 | ug/l | 406.67 |
| Sb | 121 | 115 | 1 | No Gas | 0.120 | ug/l | 3803.57 |
| Sb | 121 | 115 | 3 | He | 0.116 | ug/l | 968.80 |
| Sb | 123 | 115 | 1 | No Gas | 0.133 | ug/l | 3160.34 |
| Sb | 123 | 115 | 3 | He | 0.121 | ug/l | 785.77 |
| Ba | 135 | 115 | 1 | No Gas | 73.746 | ug/l | 360469.66 |
| Ba | 137 | 115 | 1 | No Gas | 72.403 | ug/l | 629289.17 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 24.44 |
| Ce | 140 | 115 | 3 | He | 0.001 | ug/l | 47.78 |
| Hg | 201 | 209 | 1 | No Gas | 0.009 | ug/l | 60.99 |
| Hg | 202 | 209 | 1 | No Gas | 0.032 | ug/l | 354.94 |
| Hg | 202 | 209 | 3 | He | 0.027 | ug/l | 134.31 |
| Tl | 203 | 209 | 3 | He | -0.021 | ug/l | 330.81 |
| Tl | 205 | 209 | 1 | No Gas | -0.016 | ug/l | 1631.23 |
| Tl | 205 | 209 | 3 | He | -0.024 | ug/l | 768.33 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.006 | ug/l | 651.13 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.009 | ug/l | 598.91 |
| Pb | 208 | 209 | 1 | No Gas | 0.006 | ug/l | 2657.90 |
| Th | 232 | 209 | 3 | He | -0.010 | ug/l | 188.08 |
| U | 238 | 209 | 1 | No Gas | 0.076 | ug/l | 5357.69 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5154100.16 | 91.4 |
| Sc | 45 | 2 | H2 | 2527923.57 | 92.1 |
| Sc | 45 | 3 | He | 299547.85 | 94.1 |
| Ge | 72 | 1 | No Gas | 1314736.80 | 87.0 |
| Ge | 72 | 2 | H2 | 893068.63 | 90.0 |
| Ge | 72 | 3 | He | 206853.97 | 92.9 |
| In | 115 | 1 | No Gas | 10918021.16 | 89.7 |
| In | 115 | 3 | He | 2363516.95 | 89.7 |
| Tb | 159 | 1 | No Gas | 15763487.20 | 96.5 |
| Tb | 159 | 3 | He | 6622080.39 | 96.9 |
| Ho | 165 | 1 | No Gas | 15234390.73 | 99.9 |
| Ho | 165 | 3 | He | 6372962.63 | 96.4 |
| Lu | 175 | 1 | No Gas | 16050416.52 | 103.1 |
| Lu | 175 | 3 | He | 5300391.25 | 99.0 |
| Bi | 209 | 1 | No Gas | 10527665.41 | 93.0 |
| Bi | 209 | 3 | He | 4562732.77 | 91.0 |

ICPMS207-B Analytical Data

Sample Name CCV
File Name 076_CCV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 23:50:18
Sample Type CCV
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 582.398 | ug/l | 5002999.63 |
| Be | 9 | 45 | 1 | No Gas | 47.363 | ug/l | 172546.55 |
| B | 11 | 45 | 1 | No Gas | 48.815 | ug/l | 114546.26 |
| Na | 23 | 45 | 3 | He | 12580.668 | ug/l | 10737171.86 |
| Mg | 24 | 45 | 3 | He | 12219.670 | ug/l | 5730021.87 |
| Al | 27 | 45 | 1 | No Gas | 58.185 | ug/l | 1219650.07 |
| Si | 28 | 45 | 2 | H2 | 228.559 | ug/l | 466714.21 |
| K | 39 | 72 | 3 | He | 12176.690 | ug/l | 6039125.40 |
| Ca | 40 | 72 | 2 | H2 | 12714.154 | ug/l | 99170168.34 |
| Ti | 47 | 72 | 1 | No Gas | 49.369 | ug/l | 121539.62 |
| V | 51 | 72 | 1 | No Gas | 51.446 | ug/l | 1505971.14 |
| V | 51 | 72 | 3 | He | 51.495 | ug/l | 264485.09 |
| Cr | 52 | 72 | 1 | No Gas | 52.060 | ug/l | 1559143.29 |
| Cr | 52 | 72 | 3 | He | 49.257 | ug/l | 273299.86 |
| Mn | 55 | 72 | 1 | No Gas | 50.644 | ug/l | 1916050.90 |
| Mn | 55 | 72 | 3 | He | 50.273 | ug/l | 180618.87 |
| Fe | 56 | 72 | 2 | H2 | 1344.432 | ug/l | 24008648.64 |
| Fe | 56 | 72 | 3 | He | 1272.058 | ug/l | 6240407.84 |
| Co | 59 | 72 | 1 | No Gas | 48.840 | ug/l | 1554312.13 |
| Ni | 60 | 72 | 1 | No Gas | 49.376 | ug/l | 358138.09 |
| Ni | 60 | 72 | 3 | He | 50.443 | ug/l | 115028.69 |
| Cu | 63 | 72 | 1 | No Gas | 50.418 | ug/l | 881178.82 |
| Cu | 63 | 72 | 3 | He | 50.849 | ug/l | 305444.11 |
| Cu | 65 | 72 | 1 | No Gas | 49.260 | ug/l | 424062.41 |
| Zn | 66 | 72 | 1 | No Gas | 48.517 | ug/l | 288954.71 |
| Zn | 66 | 72 | 3 | He | 51.053 | ug/l | 64411.67 |
| As | 75 | 72 | 1 | No Gas | 51.344 | ug/l | 376442.30 |
| As | 75 | 72 | 3 | He | 51.165 | ug/l | 55833.26 |
| Se | 78 | 72 | 2 | H2 | 52.088 | ug/l | 33584.44 |
| Br | 79 | 72 | 1 | No Gas | 21.031 | ug/l | 360521.70 |
| Br | 79 | 72 | 2 | H2 | 19.248 | ug/l | 178583.09 |
| Se | 82 | 72 | 1 | No Gas | 49.225 | ug/l | 20611.57 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 37938.12 |
| Sr | 88 | 72 | 1 | No Gas | 51.968 | ug/l | 2629753.32 |
| Sr | 88 | 72 | 3 | He | 51.143 | ug/l | 288503.58 |
| Mo | 95 | 115 | 1 | No Gas | 50.078 | ug/l | 527937.22 |
| Mo | 95 | 115 | 3 | He | 50.862 | ug/l | 194173.22 |
| Mo | 98 | 115 | 1 | No Gas | 50.057 | ug/l | 859100.46 |
| Ag | 107 | 115 | 1 | No Gas | 19.815 | ug/l | 536869.60 |
| Ag | 109 | 115 | 1 | No Gas | 19.634 | ug/l | 516195.32 |
| Cd | 111 | 115 | 1 | No Gas | 49.377 | ug/l | 300635.45 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Cd | 111 | 115 | 3 | He | 49.985 | ug/l | 100719.13 |
| Cd | 114 | 115 | 1 | No Gas | 50.416 | ug/l | 678589.54 |
| Cd | 114 | 115 | 3 | He | 50.316 | ug/l | 248884.62 |
| Sn | 118 | 115 | 1 | No Gas | 52.301 | ug/l | 906150.20 |
| Sn | 118 | 115 | 3 | He | 51.647 | ug/l | 242279.54 |
| Sb | 121 | 115 | 1 | No Gas | 52.838 | ug/l | 1439248.42 |
| Sb | 121 | 115 | 3 | He | 52.608 | ug/l | 382876.74 |
| Sb | 123 | 115 | 1 | No Gas | 52.298 | ug/l | 1096297.94 |
| Sb | 123 | 115 | 3 | He | 52.853 | ug/l | 303999.27 |
| Ba | 135 | 115 | 1 | No Gas | 49.852 | ug/l | 265745.59 |
| Ba | 137 | 115 | 1 | No Gas | 49.464 | ug/l | 468788.67 |
| La | 139 | 115 | 3 | He | 50.415 | ug/l | 1333680.69 |
| Ce | 140 | 115 | 3 | He | 51.355 | ug/l | 1486168.15 |
| Hg | 201 | 209 | 1 | No Gas | 0.988 | ug/l | 3747.45 |
| Hg | 202 | 209 | 1 | No Gas | 0.972 | ug/l | 8479.00 |
| Hg | 202 | 209 | 3 | He | 0.970 | ug/l | 4190.16 |
| Tl | 203 | 209 | 3 | He | 48.908 | ug/l | 539651.14 |
| Tl | 205 | 209 | 1 | No Gas | 51.907 | ug/l | 2676578.12 |
| Tl | 205 | 209 | 3 | He | 49.731 | ug/l | 1300337.55 |
| [Pb] | 206 | 209 | 1 | No Gas | 51.557 | ug/l | 933830.13 |
| [Pb] | 207 | 209 | 1 | No Gas | 50.919 | ug/l | 806053.24 |
| Pb | 208 | 209 | 1 | No Gas | 50.972 | ug/l | 3726821.57 |
| Th | 232 | 209 | 3 | He | 49.752 | ug/l | 1831880.38 |
| U | 238 | 209 | 1 | No Gas | 50.846 | ug/l | 3698524.43 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5510795.69 | 97.7 |
| Sc | 45 | 2 | H2 | 2661449.60 | 97.0 |
| Sc | 45 | 3 | He | 314275.55 | 98.7 |
| Ge | 72 | 1 | No Gas | 1484124.24 | 98.2 |
| Ge | 72 | 2 | H2 | 988566.61 | 99.6 |
| Ge | 72 | 3 | He | 223321.12 | 100.3 |
| In | 115 | 1 | No Gas | 11913877.55 | 97.9 |
| In | 115 | 3 | He | 2566609.34 | 97.4 |
| Tb | 159 | 1 | No Gas | 16377815.99 | 100.2 |
| Tb | 159 | 3 | He | 6981768.55 | 102.2 |
| Ho | 165 | 1 | No Gas | 15616899.89 | 102.4 |
| Ho | 165 | 3 | He | 6628242.86 | 100.2 |
| Lu | 175 | 1 | No Gas | 16012622.79 | 102.9 |
| Lu | 175 | 3 | He | 5411177.39 | 101.0 |
| Bi | 209 | 1 | No Gas | 11001858.64 | 97.2 |
| Bi | 209 | 3 | He | 4988397.00 | 99.5 |

ICPMS207-B Analytical Data

Sample Name CCB
File Name 077_CCB.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-21 23:56:33
Sample Type CCB
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | -0.548 | ug/l | 10837.55 |
| Be | 9 | 45 | 1 | No Gas | -0.051 | ug/l | 48.66 |
| B | 11 | 45 | 1 | No Gas | 0.316 | ug/l | 6043.64 |
| Na | 23 | 45 | 3 | He | 25.059 | ug/l | 64179.43 |
| Mg | 24 | 45 | 3 | He | 0.848 | ug/l | 2076.03 |
| Al | 27 | 45 | 1 | No Gas | -0.339 | ug/l | 9185.07 |
| Si | 28 | 45 | 2 | H2 | 3.727 | ug/l | 14605.65 |
| K | 39 | 72 | 3 | He | -16.219 | ug/l | 72404.04 |
| Ca | 40 | 72 | 2 | H2 | -0.294 | ug/l | 98178.57 |
| Ti | 47 | 72 | 1 | No Gas | 0.011 | ug/l | 245.25 |
| V | 51 | 72 | 1 | No Gas | -0.979 | ug/l | -88079.68 |
| V | 51 | 72 | 3 | He | 1.974 | ug/l | 24158.78 |
| Cr | 52 | 72 | 1 | No Gas | 0.569 | ug/l | 112857.75 |
| Cr | 52 | 72 | 3 | He | 0.024 | ug/l | 965.60 |
| Mn | 55 | 72 | 1 | No Gas | 0.092 | ug/l | 14315.30 |
| Mn | 55 | 72 | 3 | He | 0.001 | ug/l | 152.64 |
| Fe | 56 | 72 | 2 | H2 | 0.064 | ug/l | 11319.10 |
| Fe | 56 | 72 | 3 | He | 0.190 | ug/l | 6513.01 |
| Co | 59 | 72 | 1 | No Gas | -0.001 | ug/l | 522.31 |
| Ni | 60 | 72 | 1 | No Gas | 0.009 | ug/l | 555.58 |
| Ni | 60 | 72 | 3 | He | -0.001 | ug/l | 93.33 |
| Cu | 63 | 72 | 1 | No Gas | 0.000 | ug/l | 2022.96 |
| Cu | 63 | 72 | 3 | He | 0.002 | ug/l | 668.55 |
| Cu | 65 | 72 | 1 | No Gas | 0.018 | ug/l | 1118.49 |
| Zn | 66 | 72 | 1 | No Gas | 0.031 | ug/l | 1207.66 |
| Zn | 66 | 72 | 3 | He | 0.028 | ug/l | 251.12 |
| As | 75 | 72 | 1 | No Gas | 0.769 | ug/l | 19629.41 |
| As | 75 | 72 | 3 | He | 0.066 | ug/l | 339.47 |
| Se | 78 | 72 | 2 | H2 | 0.016 | ug/l | 44.22 |
| Br | 79 | 72 | 1 | No Gas | 1.330 | ug/l | 89317.26 |
| Br | 79 | 72 | 2 | H2 | 1.195 | ug/l | 42367.90 |
| Se | 82 | 72 | 1 | No Gas | -0.116 | ug/l | 693.28 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 21310.20 |
| Sr | 88 | 72 | 1 | No Gas | 0.002 | ug/l | 884.95 |
| Sr | 88 | 72 | 3 | He | -0.010 | ug/l | 230.00 |
| Mo | 95 | 115 | 1 | No Gas | 0.018 | ug/l | 258.89 |
| Mo | 95 | 115 | 3 | He | 0.012 | ug/l | 67.78 |
| Mo | 98 | 115 | 1 | No Gas | 0.018 | ug/l | 419.04 |
| Ag | 107 | 115 | 1 | No Gas | -0.001 | ug/l | 1850.20 |
| Ag | 109 | 115 | 1 | No Gas | 0.003 | ug/l | 1833.52 |
| Cd | 111 | 115 | 1 | No Gas | -0.006 | ug/l | -38.41 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.003 | ug/l | 12.56 |
| Cd | 114 | 115 | 1 | No Gas | -0.001 | ug/l | -189.50 |
| Cd | 114 | 115 | 3 | He | 0.001 | ug/l | 20.97 |
| Sn | 118 | 115 | 1 | No Gas | 0.038 | ug/l | 3872.86 |
| Sn | 118 | 115 | 3 | He | 0.020 | ug/l | 972.26 |
| Sb | 121 | 115 | 1 | No Gas | 0.075 | ug/l | 3015.97 |
| Sb | 121 | 115 | 3 | He | 0.041 | ug/l | 512.39 |
| Sb | 123 | 115 | 1 | No Gas | 0.075 | ug/l | 2302.43 |
| Sb | 123 | 115 | 3 | He | 0.046 | ug/l | 430.05 |
| Ba | 135 | 115 | 1 | No Gas | -0.002 | ug/l | 56.55 |
| Ba | 137 | 115 | 1 | No Gas | -0.002 | ug/l | 83.17 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 17.78 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 34.45 |
| Hg | 201 | 209 | 1 | No Gas | 0.006 | ug/l | 51.99 |
| Hg | 202 | 209 | 1 | No Gas | 0.004 | ug/l | 135.64 |
| Hg | 202 | 209 | 3 | He | 0.003 | ug/l | 47.32 |
| Tl | 203 | 209 | 3 | He | 0.118 | ug/l | 1938.93 |
| Tl | 205 | 209 | 1 | No Gas | 0.107 | ug/l | 8457.27 |
| Tl | 205 | 209 | 3 | He | 0.112 | ug/l | 4481.23 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.006 | ug/l | 708.91 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.006 | ug/l | 612.24 |
| Pb | 208 | 209 | 1 | No Gas | 0.004 | ug/l | 2790.14 |
| Th | 232 | 209 | 3 | He | 0.012 | ug/l | 1007.11 |
| U | 238 | 209 | 1 | No Gas | 0.002 | ug/l | 279.61 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5398052.26 | 95.7 |
| Sc | 45 | 2 | H2 | 2654296.07 | 96.7 |
| Sc | 45 | 3 | He | 291079.97 | 91.4 |
| Ge | 72 | 1 | No Gas | 1489396.08 | 98.5 |
| Ge | 72 | 2 | H2 | 984291.74 | 99.2 |
| Ge | 72 | 3 | He | 213480.19 | 95.9 |
| In | 115 | 1 | No Gas | 12220176.00 | 100.4 |
| In | 115 | 3 | He | 2592225.12 | 98.4 |
| Tb | 159 | 1 | No Gas | 16672243.12 | 102.0 |
| Tb | 159 | 3 | He | 7079205.00 | 103.6 |
| Ho | 165 | 1 | No Gas | 15707317.91 | 103.0 |
| Ho | 165 | 3 | He | 6727231.21 | 101.7 |
| Lu | 175 | 1 | No Gas | 16053817.63 | 103.1 |
| Lu | 175 | 3 | He | 5516284.37 | 103.0 |
| Bi | 209 | 1 | No Gas | 11555504.17 | 102.1 |
| Bi | 209 | 3 | He | 5102701.62 | 101.8 |

ICPMS207-B Analytical Data

Sample Name B22011133-001B
File Name 078SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 00:02:48
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|------------|-------|---------------|
| Li | 7 | 45 | 1 | No Gas | 7.906 | ug/l | 68645.18 |
| Be | 9 | 45 | 1 | No Gas | -0.047 | ug/l | 51.99 |
| B | 11 | 45 | 1 | No Gas | 44.430 | ug/l | 86160.14 |
| Na | 23 | 45 | 3 | He | 371419.231 | ug/l | 249034567.40 |
| Mg | 24 | 45 | 3 | He | 240216.560 | ug/l | 88856184.92 |
| Al | 27 | 45 | 1 | No Gas | 3.045 | ug/l | 65262.07 |
| Si | 28 | 45 | 2 | H2 | 25186.943 | ug/l | 43036603.65 |
| K | 39 | 72 | 3 | He | 6737.045 | ug/l | 2807200.38 |
| Ca | 40 | 72 | 2 | H2 | 153006.620 | ug/l | 1023977734.99 |
| Ti | 47 | 72 | 1 | No Gas | 2.131 | ug/l | 4660.44 |
| V | 51 | 72 | 1 | No Gas | 16.794 | ug/l | 386903.96 |
| V | 51 | 72 | 3 | He | 11.615 | ug/l | 59695.16 |
| Cr | 52 | 72 | 1 | No Gas | 14.761 | ug/l | 436934.74 |
| Cr | 52 | 72 | 3 | He | 12.437 | ug/l | 57872.46 |
| Mn | 55 | 72 | 1 | No Gas | 3.544 | ug/l | 123233.58 |
| Mn | 55 | 72 | 3 | He | 2.930 | ug/l | 8867.23 |
| Fe | 56 | 72 | 2 | H2 | 86.778 | ug/l | 1338911.47 |
| Fe | 56 | 72 | 3 | He | 79.160 | ug/l | 327245.54 |
| Co | 59 | 72 | 1 | No Gas | 1.106 | ug/l | 30561.44 |
| Ni | 60 | 72 | 1 | No Gas | 55.324 | ug/l | 343022.65 |
| Ni | 60 | 72 | 3 | He | 57.358 | ug/l | 108651.54 |
| Cu | 63 | 72 | 1 | No Gas | 2.713 | ug/l | 42181.84 |
| Cu | 63 | 72 | 3 | He | 0.466 | ug/l | 2891.38 |
| Cu | 65 | 72 | 1 | No Gas | 1.183 | ug/l | 9506.25 |
| Zn | 66 | 72 | 1 | No Gas | 0.897 | ug/l | 5426.30 |
| Zn | 66 | 72 | 3 | He | 0.389 | ug/l | 595.57 |
| As | 75 | 72 | 1 | No Gas | 3.141 | ug/l | 31067.75 |
| As | 75 | 72 | 3 | He | 1.634 | ug/l | 1709.60 |
| Se | 78 | 72 | 2 | H2 | 4.572 | ug/l | 2558.45 |
| Br | 79 | 72 | 1 | No Gas | 79.871 | ug/l | 1002059.68 |
| Br | 79 | 72 | 2 | H2 | 75.456 | ug/l | 517139.63 |
| Se | 82 | 72 | 1 | No Gas | 5.838 | ug/l | 2645.30 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 602845.38 |
| Sr | 88 | 72 | 1 | No Gas | 2229.592 | ug/l | 96465049.05 |
| Sr | 88 | 72 | 3 | He | 2279.041 | ug/l | 10667816.09 |
| Mo | 95 | 115 | 1 | No Gas | 1.347 | ug/l | 12397.65 |
| Mo | 95 | 115 | 3 | He | 1.407 | ug/l | 4557.42 |
| Mo | 98 | 115 | 1 | No Gas | 1.333 | ug/l | 19978.18 |
| Ag | 107 | 115 | 1 | No Gas | -0.060 | ug/l | 185.41 |
| Ag | 109 | 115 | 1 | No Gas | -0.060 | ug/l | 128.05 |
| Cd | 111 | 115 | 1 | No Gas | 0.015 | ug/l | 77.68 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Cd | 111 | 115 | 3 | He | 0.007 | ug/l | 18.00 |
| Cd | 114 | 115 | 1 | No Gas | 0.022 | ug/l | 110.14 |
| Cd | 114 | 115 | 3 | He | 0.006 | ug/l | 36.79 |
| Sn | 118 | 115 | 1 | No Gas | 0.399 | ug/l | 8702.12 |
| Sn | 118 | 115 | 3 | He | 0.419 | ug/l | 2390.22 |
| Sb | 121 | 115 | 1 | No Gas | 0.170 | ug/l | 4809.31 |
| Sb | 121 | 115 | 3 | He | 0.163 | ug/l | 1175.84 |
| Sb | 123 | 115 | 1 | No Gas | 0.235 | ug/l | 4854.66 |
| Sb | 123 | 115 | 3 | He | 0.167 | ug/l | 944.13 |
| Ba | 135 | 115 | 1 | No Gas | 73.603 | ug/l | 341091.61 |
| Ba | 137 | 115 | 1 | No Gas | 73.285 | ug/l | 603991.41 |
| La | 139 | 115 | 3 | He | 0.001 | ug/l | 48.89 |
| Ce | 140 | 115 | 3 | He | 0.001 | ug/l | 61.11 |
| Hg | 201 | 209 | 1 | No Gas | 0.023 | ug/l | 100.31 |
| Hg | 202 | 209 | 1 | No Gas | 0.058 | ug/l | 509.58 |
| Hg | 202 | 209 | 3 | He | 0.047 | ug/l | 196.96 |
| Tl | 203 | 209 | 3 | He | 0.055 | ug/l | 1019.79 |
| Tl | 205 | 209 | 1 | No Gas | 0.045 | ug/l | 4210.71 |
| Tl | 205 | 209 | 3 | He | 0.050 | ug/l | 2365.83 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.027 | ug/l | 915.60 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.028 | ug/l | 810.03 |
| Pb | 208 | 209 | 1 | No Gas | 0.028 | ug/l | 3814.69 |
| Th | 232 | 209 | 3 | He | 0.033 | ug/l | 1502.70 |
| U | 238 | 209 | 1 | No Gas | 0.079 | ug/l | 5055.64 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4536657.17 | 80.5 |
| Sc | 45 | 2 | H2 | 2260793.91 | 82.4 |
| Sc | 45 | 3 | He | 247989.10 | 77.9 |
| Ge | 72 | 1 | No Gas | 1269199.56 | 83.9 |
| Ge | 72 | 2 | H2 | 849018.21 | 85.6 |
| Ge | 72 | 3 | He | 185510.07 | 83.3 |
| In | 115 | 1 | No Gas | 10351866.19 | 85.0 |
| In | 115 | 3 | He | 2167909.77 | 82.3 |
| Tb | 159 | 1 | No Gas | 14777862.65 | 90.4 |
| Tb | 159 | 3 | He | 6115683.33 | 89.5 |
| Ho | 165 | 1 | No Gas | 13970639.63 | 91.6 |
| Ho | 165 | 3 | He | 6003012.85 | 90.8 |
| Lu | 175 | 1 | No Gas | 14300347.34 | 91.9 |
| Lu | 175 | 3 | He | 4906461.81 | 91.6 |
| Bi | 209 | 1 | No Gas | 9487301.65 | 83.8 |
| Bi | 209 | 3 | He | 4237158.49 | 84.5 |

ICPMS207-B Analytical Data

Sample Name B22011134-001A
File Name 079SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 00:09:03
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 0.026 | ug/l | 18323.05 |
| Be | 9 | 45 | 1 | No Gas | -0.054 | ug/l | 41.32 |
| B | 11 | 45 | 1 | No Gas | 63.446 | ug/l | 168854.37 |
| Na | 23 | 45 | 3 | He | 40654.820 | ug/l | 38393339.43 |
| Mg | 24 | 45 | 3 | He | 10495.502 | ug/l | 5462759.00 |
| Al | 27 | 45 | 1 | No Gas | 9.110 | ug/l | 234449.05 |
| Si | 28 | 45 | 2 | H2 | 28502.668 | ug/l | 62856629.87 |
| K | 39 | 72 | 3 | He | 2121.575 | ug/l | 1201317.00 |
| Ca | 40 | 72 | 2 | H2 | 10677.251 | ug/l | 87045875.31 |
| Ti | 47 | 72 | 1 | No Gas | 3.167 | ug/l | 8419.50 |
| V | 51 | 72 | 1 | No Gas | 3.599 | ug/l | 54558.55 |
| V | 51 | 72 | 3 | He | -1.395 | ug/l | 9646.55 |
| Cr | 52 | 72 | 1 | No Gas | -1.580 | ug/l | 54806.27 |
| Cr | 52 | 72 | 3 | He | 0.004 | ug/l | 964.48 |
| Mn | 55 | 72 | 1 | No Gas | 509.031 | ug/l | 20160726.36 |
| Mn | 55 | 72 | 3 | He | 493.223 | ug/l | 1896631.34 |
| Fe | 56 | 72 | 2 | H2 | 400.479 | ug/l | 7482014.25 |
| Fe | 56 | 72 | 3 | He | 374.228 | ug/l | 1971307.73 |
| Co | 59 | 72 | 1 | No Gas | 0.460 | ug/l | 15993.71 |
| Ni | 60 | 72 | 1 | No Gas | 1.013 | ug/l | 8236.04 |
| Ni | 60 | 72 | 3 | He | 0.931 | ug/l | 2377.99 |
| Cu | 63 | 72 | 1 | No Gas | 0.644 | ug/l | 13944.97 |
| Cu | 63 | 72 | 3 | He | 0.378 | ug/l | 3158.38 |
| Cu | 65 | 72 | 1 | No Gas | 0.515 | ug/l | 5670.80 |
| Zn | 66 | 72 | 1 | No Gas | 1.537 | ug/l | 10671.88 |
| Zn | 66 | 72 | 3 | He | 1.452 | ug/l | 2200.18 |
| As | 75 | 72 | 1 | No Gas | 0.592 | ug/l | 19273.46 |
| As | 75 | 72 | 3 | He | 0.803 | ug/l | 1238.43 |
| Se | 78 | 72 | 2 | H2 | 0.009 | ug/l | 41.45 |
| Br | 79 | 72 | 1 | No Gas | 11.090 | ug/l | 235268.00 |
| Br | 79 | 72 | 2 | H2 | 10.617 | ug/l | 118694.42 |
| Se | 82 | 72 | 1 | No Gas | 0.318 | ug/l | 911.16 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 45274.42 |
| Sr | 88 | 72 | 1 | No Gas | 73.838 | ug/l | 3932073.04 |
| Sr | 88 | 72 | 3 | He | 70.852 | ug/l | 427970.98 |
| Mo | 95 | 115 | 1 | No Gas | 0.349 | ug/l | 4002.81 |
| Mo | 95 | 115 | 3 | He | 0.340 | ug/l | 1393.41 |
| Mo | 98 | 115 | 1 | No Gas | 0.332 | ug/l | 6212.15 |
| Ag | 107 | 115 | 1 | No Gas | -0.060 | ug/l | 228.76 |
| Ag | 109 | 115 | 1 | No Gas | -0.060 | ug/l | 166.07 |
| Cd | 111 | 115 | 1 | No Gas | 0.021 | ug/l | 134.61 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.016 | ug/l | 39.78 |
| Cd | 114 | 115 | 1 | No Gas | 0.031 | ug/l | 271.44 |
| Cd | 114 | 115 | 3 | He | 0.016 | ug/l | 99.96 |
| Sn | 118 | 115 | 1 | No Gas | -0.068 | ug/l | 2086.03 |
| Sn | 118 | 115 | 3 | He | -0.078 | ug/l | 532.24 |
| Sb | 121 | 115 | 1 | No Gas | 0.077 | ug/l | 3206.36 |
| Sb | 121 | 115 | 3 | He | 0.081 | ug/l | 841.44 |
| Sb | 123 | 115 | 1 | No Gas | 0.080 | ug/l | 2523.81 |
| Sb | 123 | 115 | 3 | He | 0.078 | ug/l | 642.75 |
| Ba | 135 | 115 | 1 | No Gas | 3.775 | ug/l | 21630.54 |
| Ba | 137 | 115 | 1 | No Gas | 3.737 | ug/l | 38060.08 |
| La | 139 | 115 | 3 | He | 0.027 | ug/l | 779.65 |
| Ce | 140 | 115 | 3 | He | 0.038 | ug/l | 1186.73 |
| Hg | 201 | 209 | 1 | No Gas | 0.017 | ug/l | 96.65 |
| Hg | 202 | 209 | 1 | No Gas | 0.333 | ug/l | 3169.75 |
| Hg | 202 | 209 | 3 | He | 0.254 | ug/l | 1128.49 |
| Tl | 203 | 209 | 3 | He | 0.008 | ug/l | 689.63 |
| Tl | 205 | 209 | 1 | No Gas | 0.004 | ug/l | 2923.68 |
| Tl | 205 | 209 | 3 | He | 0.006 | ug/l | 1638.76 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.017 | ug/l | 938.93 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.018 | ug/l | 830.03 |
| Pb | 208 | 209 | 1 | No Gas | 0.017 | ug/l | 3808.02 |
| Th | 232 | 209 | 3 | He | -0.009 | ug/l | 236.10 |
| U | 238 | 209 | 1 | No Gas | 0.021 | ug/l | 1714.64 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 6322583.43 | 112.1 |
| Sc | 45 | 2 | H2 | 2918056.80 | 106.3 |
| Sc | 45 | 3 | He | 348943.75 | 109.6 |
| Ge | 72 | 1 | No Gas | 1562515.65 | 103.3 |
| Ge | 72 | 2 | H2 | 1033350.96 | 104.1 |
| Ge | 72 | 3 | He | 239202.45 | 107.4 |
| In | 115 | 1 | No Gas | 12758690.65 | 104.8 |
| In | 115 | 3 | He | 2712161.89 | 102.9 |
| Tb | 159 | 1 | No Gas | 17146008.11 | 104.9 |
| Tb | 159 | 3 | He | 7033615.92 | 102.9 |
| Ho | 165 | 1 | No Gas | 16359278.70 | 107.3 |
| Ho | 165 | 3 | He | 6784803.47 | 102.6 |
| Lu | 175 | 1 | No Gas | 16713559.85 | 107.4 |
| Lu | 175 | 3 | He | 5606108.72 | 104.7 |
| Bi | 209 | 1 | No Gas | 11762206.61 | 103.9 |
| Bi | 209 | 3 | He | 5024980.15 | 100.3 |

ICPMS207-B Analytical Data

Sample Name B22011134-001B
File Name 080SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 00:15:19
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 0.506 | ug/l | 17909.72 |
| Be | 9 | 45 | 1 | No Gas | -0.053 | ug/l | 36.99 |
| B | 11 | 45 | 1 | No Gas | 67.856 | ug/l | 140097.55 |
| Na | 23 | 45 | 3 | He | 40705.578 | ug/l | 29434306.50 |
| Mg | 24 | 45 | 3 | He | 10398.955 | ug/l | 4144778.20 |
| Al | 27 | 45 | 1 | No Gas | 20.129 | ug/l | 385728.39 |
| Si | 28 | 45 | 2 | H2 | 27206.393 | ug/l | 48537120.06 |
| K | 39 | 72 | 3 | He | 2029.812 | ug/l | 917208.30 |
| Ca | 40 | 72 | 2 | H2 | 10279.552 | ug/l | 70988535.20 |
| Ti | 47 | 72 | 1 | No Gas | 3.704 | ug/l | 8360.82 |
| V | 51 | 72 | 1 | No Gas | -0.129 | ug/l | -51780.95 |
| V | 51 | 72 | 3 | He | 4.989 | ug/l | 33947.01 |
| Cr | 52 | 72 | 1 | No Gas | 3.015 | ug/l | 162462.33 |
| Cr | 52 | 72 | 3 | He | 0.211 | ug/l | 1744.56 |
| Mn | 55 | 72 | 1 | No Gas | 500.616 | ug/l | 16908531.50 |
| Mn | 55 | 72 | 3 | He | 503.265 | ug/l | 1539506.15 |
| Fe | 56 | 72 | 2 | H2 | 436.427 | ug/l | 6905207.41 |
| Fe | 56 | 72 | 3 | He | 417.078 | ug/l | 1747442.71 |
| Co | 59 | 72 | 1 | No Gas | 0.530 | ug/l | 15640.74 |
| Ni | 60 | 72 | 1 | No Gas | 1.025 | ug/l | 7107.68 |
| Ni | 60 | 72 | 3 | He | 0.989 | ug/l | 2004.60 |
| Cu | 63 | 72 | 1 | No Gas | 1.109 | ug/l | 19165.63 |
| Cu | 63 | 72 | 3 | He | 0.837 | ug/l | 4861.18 |
| Cu | 65 | 72 | 1 | No Gas | 0.908 | ug/l | 7855.95 |
| Zn | 66 | 72 | 1 | No Gas | 1.194 | ug/l | 7270.36 |
| Zn | 66 | 72 | 3 | He | 1.219 | ug/l | 1498.97 |
| As | 75 | 72 | 1 | No Gas | 2.045 | ug/l | 25698.77 |
| As | 75 | 72 | 3 | He | 1.298 | ug/l | 1442.51 |
| Se | 78 | 72 | 2 | H2 | 0.052 | ug/l | 59.67 |
| Br | 79 | 72 | 1 | No Gas | 8.021 | ug/l | 162580.63 |
| Br | 79 | 72 | 2 | H2 | 7.548 | ug/l | 80048.18 |
| Se | 82 | 72 | 1 | No Gas | 0.019 | ug/l | 665.94 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 39875.92 |
| Sr | 88 | 72 | 1 | No Gas | 75.626 | ug/l | 3433661.67 |
| Sr | 88 | 72 | 3 | He | 73.684 | ug/l | 354032.88 |
| Mo | 95 | 115 | 1 | No Gas | 0.556 | ug/l | 5409.95 |
| Mo | 95 | 115 | 3 | He | 0.585 | ug/l | 2001.27 |
| Mo | 98 | 115 | 1 | No Gas | 0.555 | ug/l | 8794.50 |
| Ag | 107 | 115 | 1 | No Gas | -0.049 | ug/l | 468.86 |
| Ag | 109 | 115 | 1 | No Gas | -0.048 | ug/l | 411.51 |
| Cd | 111 | 115 | 1 | No Gas | 0.007 | ug/l | 35.84 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.002 | ug/l | 8.33 |
| Cd | 114 | 115 | 1 | No Gas | 0.015 | ug/l | 26.28 |
| Cd | 114 | 115 | 3 | He | 0.000 | ug/l | 9.67 |
| Sn | 118 | 115 | 1 | No Gas | 0.406 | ug/l | 9261.38 |
| Sn | 118 | 115 | 3 | He | 0.476 | ug/l | 2744.73 |
| Sb | 121 | 115 | 1 | No Gas | 0.138 | ug/l | 4243.07 |
| Sb | 121 | 115 | 3 | He | 0.136 | ug/l | 1064.15 |
| Sb | 123 | 115 | 1 | No Gas | 0.138 | ug/l | 3245.70 |
| Sb | 123 | 115 | 3 | He | 0.135 | ug/l | 828.44 |
| Ba | 135 | 115 | 1 | No Gas | 4.069 | ug/l | 19878.19 |
| Ba | 137 | 115 | 1 | No Gas | 4.069 | ug/l | 35334.91 |
| La | 139 | 115 | 3 | He | 0.015 | ug/l | 382.23 |
| Ce | 140 | 115 | 3 | He | 0.062 | ug/l | 1627.89 |
| Hg | 201 | 209 | 1 | No Gas | 0.024 | ug/l | 114.65 |
| Hg | 202 | 209 | 1 | No Gas | 0.379 | ug/l | 3218.75 |
| Hg | 202 | 209 | 3 | He | 0.265 | ug/l | 1111.49 |
| Tl | 203 | 209 | 3 | He | 0.023 | ug/l | 813.02 |
| Tl | 205 | 209 | 1 | No Gas | 0.013 | ug/l | 3051.48 |
| Tl | 205 | 209 | 3 | He | 0.017 | ug/l | 1817.53 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.048 | ug/l | 1384.53 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.047 | ug/l | 1172.28 |
| Pb | 208 | 209 | 1 | No Gas | 0.047 | ug/l | 5514.94 |
| Th | 232 | 209 | 3 | He | 0.007 | ug/l | 796.35 |
| U | 238 | 209 | 1 | No Gas | 0.018 | ug/l | 1314.81 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4912286.80 | 87.1 |
| Sc | 45 | 2 | H2 | 2360418.89 | 86.0 |
| Sc | 45 | 3 | He | 267184.73 | 83.9 |
| Ge | 72 | 1 | No Gas | 1332165.87 | 88.1 |
| Ge | 72 | 2 | H2 | 875087.62 | 88.2 |
| Ge | 72 | 3 | He | 190315.19 | 85.5 |
| In | 115 | 1 | No Gas | 10880931.91 | 89.4 |
| In | 115 | 3 | He | 2277816.19 | 86.4 |
| Tb | 159 | 1 | No Gas | 15344115.76 | 93.9 |
| Tb | 159 | 3 | He | 6375471.45 | 93.3 |
| Ho | 165 | 1 | No Gas | 14384982.50 | 94.3 |
| Ho | 165 | 3 | He | 6200602.94 | 93.7 |
| Lu | 175 | 1 | No Gas | 14980023.04 | 96.3 |
| Lu | 175 | 3 | He | 5034164.40 | 94.0 |
| Bi | 209 | 1 | No Gas | 10518714.40 | 92.9 |
| Bi | 209 | 3 | He | 4742738.11 | 94.6 |

ICPMS207-B Analytical Data

Sample Name B22011134-001BDIL
File Name 081ARef.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 00:21:34
Sample Type AIRRef
Total Dilution 5.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | -2.494 | ug/l | 10538.54 |
| Be | 9 | 45 | 1 | No Gas | -0.288 | ug/l | 22.33 |
| B | 11 | 45 | 1 | No Gas | 66.451 | ug/l | 32272.73 |
| Na | 23 | 45 | 3 | He | 41241.634 | ug/l | 6091368.10 |
| Mg | 24 | 45 | 3 | He | 10348.455 | ug/l | 839255.79 |
| Al | 27 | 45 | 1 | No Gas | 33.623 | ug/l | 142665.04 |
| Si | 28 | 45 | 2 | H2 | 25996.113 | ug/l | 9644631.96 |
| K | 39 | 72 | 3 | He | 2062.814 | ug/l | 254671.20 |
| Ca | 40 | 72 | 2 | H2 | 10414.221 | ug/l | 15099376.87 |
| Ti | 47 | 72 | 1 | No Gas | 3.795 | ug/l | 1928.74 |
| V | 51 | 72 | 1 | No Gas | -0.057 | ug/l | -53459.71 |
| V | 51 | 72 | 3 | He | 10.520 | ug/l | 23111.63 |
| Cr | 52 | 72 | 1 | No Gas | 3.965 | ug/l | 109975.05 |
| Cr | 52 | 72 | 3 | He | 0.511 | ug/l | 1290.06 |
| Mn | 55 | 72 | 1 | No Gas | 495.617 | ug/l | 3463554.08 |
| Mn | 55 | 72 | 3 | He | 481.178 | ug/l | 308306.83 |
| Fe | 56 | 72 | 2 | H2 | 430.572 | ug/l | 1430549.61 |
| Fe | 56 | 72 | 3 | He | 402.323 | ug/l | 357179.60 |
| Co | 59 | 72 | 1 | No Gas | 0.586 | ug/l | 3969.36 |
| Ni | 60 | 72 | 1 | No Gas | 21.498 | ug/l | 29297.86 |
| Ni | 60 | 72 | 3 | He | 21.851 | ug/l | 8970.58 |
| Cu | 63 | 72 | 1 | No Gas | 89.423 | ug/l | 290678.66 |
| Cu | 63 | 72 | 3 | He | 91.896 | ug/l | 98878.88 |
| Cu | 65 | 72 | 1 | No Gas | 87.294 | ug/l | 139752.93 |
| Zn | 66 | 72 | 1 | No Gas | 98.583 | ug/l | 109324.93 |
| Zn | 66 | 72 | 3 | He | 103.625 | ug/l | 23445.60 |
| As | 75 | 72 | 1 | No Gas | 4.876 | ug/l | 19474.25 |
| As | 75 | 72 | 3 | He | 1.390 | ug/l | 522.47 |
| Se | 78 | 72 | 2 | H2 | 0.029 | ug/l | 34.89 |
| Br | 79 | 72 | 1 | No Gas | 267.397 | ug/l | 748473.93 |
| Br | 79 | 72 | 2 | H2 | 272.071 | ug/l | 410155.54 |
| Se | 82 | 72 | 1 | No Gas | 6.340 | ug/l | 1156.65 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 24195.59 |
| Sr | 88 | 72 | 1 | No Gas | 73.943 | ug/l | 693686.35 |
| Sr | 88 | 72 | 3 | He | 73.014 | ug/l | 73668.02 |
| Mo | 95 | 115 | 1 | No Gas | 0.608 | ug/l | 1317.85 |
| Mo | 95 | 115 | 3 | He | 0.572 | ug/l | 424.45 |
| Mo | 98 | 115 | 1 | No Gas | 0.538 | ug/l | 1906.19 |
| Ag | 107 | 115 | 1 | No Gas | -0.288 | ug/l | 264.77 |
| Ag | 109 | 115 | 1 | No Gas | -0.282 | ug/l | 234.77 |
| Cd | 111 | 115 | 1 | No Gas | 0.115 | ug/l | 133.62 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.101 | ug/l | 43.44 |
| Cd | 114 | 115 | 1 | No Gas | 0.163 | ug/l | 265.35 |
| Cd | 114 | 115 | 3 | He | 0.093 | ug/l | 97.73 |
| Sn | 118 | 115 | 1 | No Gas | 0.865 | ug/l | 6002.74 |
| Sn | 118 | 115 | 3 | He | 1.008 | ug/l | 1676.78 |
| Sb | 121 | 115 | 1 | No Gas | 0.108 | ug/l | 1455.22 |
| Sb | 121 | 115 | 3 | He | 0.136 | ug/l | 374.71 |
| Sb | 123 | 115 | 1 | No Gas | 0.107 | ug/l | 1098.82 |
| Sb | 123 | 115 | 3 | He | 0.134 | ug/l | 290.03 |
| Ba | 135 | 115 | 1 | No Gas | 4.319 | ug/l | 4588.36 |
| Ba | 137 | 115 | 1 | No Gas | 4.165 | ug/l | 7853.32 |
| La | 139 | 115 | 3 | He | 0.028 | ug/l | 157.78 |
| Ce | 140 | 115 | 3 | He | 0.076 | ug/l | 434.46 |
| Hg | 201 | 209 | 1 | No Gas | 0.028 | ug/l | 51.32 |
| Hg | 202 | 209 | 1 | No Gas | 0.343 | ug/l | 712.54 |
| Hg | 202 | 209 | 3 | He | 0.258 | ug/l | 257.62 |
| Tl | 203 | 209 | 3 | He | -0.015 | ug/l | 571.58 |
| Tl | 205 | 209 | 1 | No Gas | -0.019 | ug/l | 2441.35 |
| Tl | 205 | 209 | 3 | He | -0.017 | ug/l | 1405.31 |
| [Pb] | 206 | 209 | 1 | No Gas | 3.768 | ug/l | 14781.63 |
| [Pb] | 207 | 209 | 1 | No Gas | 3.719 | ug/l | 12751.74 |
| Pb | 208 | 209 | 1 | No Gas | 3.695 | ug/l | 58626.37 |
| Th | 232 | 209 | 3 | He | -0.032 | ug/l | 334.81 |
| U | 238 | 209 | 1 | No Gas | 0.022 | ug/l | 420.26 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5056350.40 | 89.7 |
| Sc | 45 | 2 | H2 | 2453047.16 | 89.4 |
| Sc | 45 | 3 | He | 271371.33 | 85.2 |
| Ge | 72 | 1 | No Gas | 1374480.56 | 90.9 |
| Ge | 72 | 2 | H2 | 914087.66 | 92.1 |
| Ge | 72 | 3 | He | 199222.02 | 89.5 |
| In | 115 | 1 | No Gas | 11703267.64 | 96.1 |
| In | 115 | 3 | He | 2376064.93 | 90.2 |
| Tb | 159 | 1 | No Gas | 16191526.79 | 99.1 |
| Tb | 159 | 3 | He | 6641719.14 | 97.2 |
| Ho | 165 | 1 | No Gas | 15415324.36 | 101.1 |
| Ho | 165 | 3 | He | 6462561.13 | 97.7 |
| Lu | 175 | 1 | No Gas | 15819421.26 | 101.6 |
| Lu | 175 | 3 | He | 5258639.60 | 98.2 |
| Bi | 209 | 1 | No Gas | 11440975.43 | 101.0 |
| Bi | 209 | 3 | He | 5064561.76 | 101.0 |

ICPMS207-B Analytical Data

Sample Name B22011134-001BPDS1
File Name 082SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 00:27:49
Sample Type Sample
Total Dilution 1.0300
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 0.664 | ug/l | 17169.24 |
| Be | 9 | 45 | 1 | No Gas | 42.368 | ug/l | 121021.72 |
| B | 11 | 45 | 1 | No Gas | 112.788 | ug/l | 201955.95 |
| Na | 23 | 45 | 3 | He | 39812.613 | ug/l | 25321311.01 |
| Mg | 24 | 45 | 3 | He | 10165.127 | ug/l | 3563078.47 |
| Al | 27 | 45 | 1 | No Gas | 62.598 | ug/l | 1027471.90 |
| Si | 28 | 45 | 2 | H2 | 26733.561 | ug/l | 44473113.89 |
| K | 39 | 72 | 3 | He | 1936.021 | ug/l | 819564.28 |
| Ca | 40 | 72 | 2 | H2 | 9924.338 | ug/l | 66656974.63 |
| Ti | 47 | 72 | 1 | No Gas | 47.070 | ug/l | 98826.45 |
| V | 51 | 72 | 1 | No Gas | 55.184 | ug/l | 1381324.08 |
| V | 51 | 72 | 3 | He | 54.912 | ug/l | 223259.76 |
| Cr | 52 | 72 | 1 | No Gas | 49.650 | ug/l | 1274415.79 |
| Cr | 52 | 72 | 3 | He | 49.883 | ug/l | 219618.67 |
| Mn | 55 | 72 | 1 | No Gas | 527.611 | ug/l | 16927124.73 |
| Mn | 55 | 72 | 3 | He | 536.430 | ug/l | 1527469.71 |
| Fe | 56 | 72 | 2 | H2 | 471.608 | ug/l | 7254649.24 |
| Fe | 56 | 72 | 3 | He | 454.574 | ug/l | 1772290.17 |
| Co | 59 | 72 | 1 | No Gas | 46.866 | ug/l | 1271479.34 |
| Ni | 60 | 72 | 1 | No Gas | 45.713 | ug/l | 282719.03 |
| Ni | 60 | 72 | 3 | He | 51.361 | ug/l | 92932.20 |
| Cu | 63 | 72 | 1 | No Gas | 48.178 | ug/l | 718170.76 |
| Cu | 63 | 72 | 3 | He | 52.168 | ug/l | 248565.93 |
| Cu | 65 | 72 | 1 | No Gas | 47.266 | ug/l | 346946.79 |
| Zn | 66 | 72 | 1 | No Gas | 47.841 | ug/l | 242986.65 |
| Zn | 66 | 72 | 3 | He | 50.869 | ug/l | 50916.68 |
| As | 75 | 72 | 1 | No Gas | 48.273 | ug/l | 302805.78 |
| As | 75 | 72 | 3 | He | 50.847 | ug/l | 44018.39 |
| Se | 78 | 72 | 2 | H2 | 51.108 | ug/l | 28366.25 |
| Br | 79 | 72 | 1 | No Gas | 10.939 | ug/l | 190741.97 |
| Br | 79 | 72 | 2 | H2 | 10.247 | ug/l | 96194.04 |
| Se | 82 | 72 | 1 | No Gas | 46.486 | ug/l | 16654.46 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 53509.51 |
| Sr | 88 | 72 | 1 | No Gas | 123.797 | ug/l | 5340608.92 |
| Sr | 88 | 72 | 3 | He | 126.618 | ug/l | 566142.12 |
| Mo | 95 | 115 | 1 | No Gas | 48.756 | ug/l | 445034.30 |
| Mo | 95 | 115 | 3 | He | 50.489 | ug/l | 157070.69 |
| Mo | 98 | 115 | 1 | No Gas | 48.056 | ug/l | 714183.42 |
| Ag | 107 | 115 | 1 | No Gas | 19.544 | ug/l | 458481.55 |
| Ag | 109 | 115 | 1 | No Gas | 19.608 | ug/l | 446452.97 |
| Cd | 111 | 115 | 1 | No Gas | 49.120 | ug/l | 258931.33 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Cd | 111 | 115 | 3 | He | 51.000 | ug/l | 83744.50 |
| Cd | 114 | 115 | 1 | No Gas | 50.663 | ug/l | 590517.83 |
| Cd | 114 | 115 | 3 | He | 51.275 | ug/l | 206697.31 |
| Sn | 118 | 115 | 1 | No Gas | 51.587 | ug/l | 773696.96 |
| Sn | 118 | 115 | 3 | He | 52.802 | ug/l | 201882.27 |
| Sb | 121 | 115 | 1 | No Gas | 51.089 | ug/l | 1205258.54 |
| Sb | 121 | 115 | 3 | He | 51.012 | ug/l | 302565.19 |
| Sb | 123 | 115 | 1 | No Gas | 50.598 | ug/l | 918553.40 |
| Sb | 123 | 115 | 3 | He | 51.221 | ug/l | 240076.38 |
| Ba | 135 | 115 | 1 | No Gas | 55.556 | ug/l | 256498.24 |
| Ba | 137 | 115 | 1 | No Gas | 55.573 | ug/l | 456200.98 |
| La | 139 | 115 | 3 | He | 0.017 | ug/l | 376.67 |
| Ce | 140 | 115 | 3 | He | 54.886 | ug/l | 1294354.00 |
| Hg | 201 | 209 | 1 | No Gas | 1.024 | ug/l | 3640.11 |
| Hg | 202 | 209 | 1 | No Gas | 1.394 | ug/l | 11365.57 |
| Hg | 202 | 209 | 3 | He | 1.266 | ug/l | 5054.62 |
| Tl | 203 | 209 | 3 | He | 48.581 | ug/l | 496167.08 |
| Tl | 205 | 209 | 1 | No Gas | 52.336 | ug/l | 2529233.04 |
| Tl | 205 | 209 | 3 | He | 50.407 | ug/l | 1220095.67 |
| [Pb] | 206 | 209 | 1 | No Gas | 52.238 | ug/l | 886713.30 |
| [Pb] | 207 | 209 | 1 | No Gas | 51.703 | ug/l | 767161.73 |
| Pb | 208 | 209 | 1 | No Gas | 51.337 | ug/l | 3517765.37 |
| Th | 232 | 209 | 3 | He | 50.816 | ug/l | 1731609.38 |
| U | 238 | 209 | 1 | No Gas | 52.753 | ug/l | 3595929.69 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4446726.82 | 78.9 |
| Sc | 45 | 2 | H2 | 2267090.18 | 82.6 |
| Sc | 45 | 3 | He | 241978.07 | 76.0 |
| Ge | 72 | 1 | No Gas | 1303967.94 | 86.2 |
| Ge | 72 | 2 | H2 | 876686.86 | 88.3 |
| Ge | 72 | 3 | He | 182482.16 | 82.0 |
| In | 115 | 1 | No Gas | 10619440.92 | 87.2 |
| In | 115 | 3 | He | 2154116.13 | 81.7 |
| Tb | 159 | 1 | No Gas | 15291000.15 | 93.6 |
| Tb | 159 | 3 | He | 6231159.95 | 91.2 |
| Ho | 165 | 1 | No Gas | 14507958.07 | 95.1 |
| Ho | 165 | 3 | He | 6076172.21 | 91.9 |
| Lu | 175 | 1 | No Gas | 15166301.29 | 97.4 |
| Lu | 175 | 3 | He | 4985772.68 | 93.1 |
| Bi | 209 | 1 | No Gas | 10615455.53 | 93.8 |
| Bi | 209 | 3 | He | 4755828.96 | 94.9 |

ICPMS207-B Analytical Data

Sample Name B22011134-001BMS4
File Name 083MS4.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 00:34:03
Sample Type MS4
Total Dilution 1.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 74.537 | ug/l | 527373.44 |
| Be | 9 | 45 | 1 | No Gas | 40.755 | ug/l | 119763.48 |
| B | 11 | 45 | 1 | No Gas | 143.229 | ug/l | 262568.51 |
| Na | 23 | 45 | 3 | He | 42566.300 | ug/l | 27934641.53 |
| Mg | 24 | 45 | 3 | He | 14874.489 | ug/l | 5379649.17 |
| Al | 27 | 45 | 1 | No Gas | 439.342 | ug/l | 7338840.24 |
| Si | 28 | 45 | 2 | H2 | 26603.406 | ug/l | 45065560.52 |
| K | 39 | 72 | 3 | He | 6358.931 | ug/l | 2650407.55 |
| Ca | 40 | 72 | 2 | H2 | 14382.711 | ug/l | 98954279.13 |
| Ti | 47 | 72 | 1 | No Gas | 85.660 | ug/l | 186743.71 |
| V | 51 | 72 | 1 | No Gas | 97.179 | ug/l | 2568236.24 |
| V | 51 | 72 | 3 | He | 100.508 | ug/l | 415936.59 |
| Cr | 52 | 72 | 1 | No Gas | 93.435 | ug/l | 2412015.40 |
| Cr | 52 | 72 | 3 | He | 93.920 | ug/l | 431744.18 |
| Mn | 55 | 72 | 1 | No Gas | 916.094 | ug/l | 30556564.74 |
| Mn | 55 | 72 | 3 | He | 941.285 | ug/l | 2803686.06 |
| Fe | 56 | 72 | 2 | H2 | 918.601 | ug/l | 14474662.69 |
| Fe | 56 | 72 | 3 | He | 863.783 | ug/l | 3517835.11 |
| Co | 59 | 72 | 1 | No Gas | 90.226 | ug/l | 2544423.22 |
| Ni | 60 | 72 | 1 | No Gas | 88.036 | ug/l | 565527.87 |
| Ni | 60 | 72 | 3 | He | 99.320 | ug/l | 187822.47 |
| Cu | 63 | 72 | 1 | No Gas | 92.841 | ug/l | 1437095.60 |
| Cu | 63 | 72 | 3 | He | 100.975 | ug/l | 502758.86 |
| Cu | 65 | 72 | 1 | No Gas | 91.104 | ug/l | 694515.47 |
| Zn | 66 | 72 | 1 | No Gas | 90.309 | ug/l | 476184.03 |
| Zn | 66 | 72 | 3 | He | 97.279 | ug/l | 101667.06 |
| As | 75 | 72 | 1 | No Gas | 93.881 | ug/l | 599729.22 |
| As | 75 | 72 | 3 | He | 98.441 | ug/l | 88913.03 |
| Se | 78 | 72 | 2 | H2 | 101.323 | ug/l | 57604.60 |
| Br | 79 | 72 | 1 | No Gas | 6.399 | ug/l | 140911.99 |
| Br | 79 | 72 | 2 | H2 | 6.166 | ug/l | 70585.16 |
| Se | 82 | 72 | 1 | No Gas | 95.716 | ug/l | 34920.44 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 68633.58 |
| Sr | 88 | 72 | 1 | No Gas | 171.831 | ug/l | 7706147.07 |
| Sr | 88 | 72 | 3 | He | 173.565 | ug/l | 811720.84 |
| Mo | 95 | 115 | 1 | No Gas | 93.197 | ug/l | 872780.86 |
| Mo | 95 | 115 | 3 | He | 100.395 | ug/l | 323408.10 |
| Mo | 98 | 115 | 1 | No Gas | 94.620 | ug/l | 1443034.01 |
| Ag | 107 | 115 | 1 | No Gas | 9.493 | ug/l | 229334.90 |
| Ag | 109 | 115 | 1 | No Gas | 9.643 | ug/l | 226087.33 |
| Cd | 111 | 115 | 1 | No Gas | 49.801 | ug/l | 269406.97 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|------------|
| Cd | 111 | 115 | 3 | He | 50.683 | ug/l | 86183.01 |
| Cd | 114 | 115 | 1 | No Gas | 50.814 | ug/l | 607830.17 |
| Cd | 114 | 115 | 3 | He | 51.023 | ug/l | 212998.19 |
| Sn | 118 | 115 | 1 | No Gas | 102.817 | ug/l | 1579153.14 |
| Sn | 118 | 115 | 3 | He | 103.812 | ug/l | 410234.56 |
| Sb | 121 | 115 | 1 | No Gas | 103.179 | ug/l | 2497279.40 |
| Sb | 121 | 115 | 3 | He | 101.574 | ug/l | 623694.04 |
| Sb | 123 | 115 | 1 | No Gas | 104.317 | ug/l | 1942690.47 |
| Sb | 123 | 115 | 3 | He | 102.681 | ug/l | 498290.04 |
| Ba | 135 | 115 | 1 | No Gas | 100.834 | ug/l | 477612.68 |
| Ba | 137 | 115 | 1 | No Gas | 99.182 | ug/l | 835418.36 |
| La | 139 | 115 | 3 | He | 107.795 | ug/l | 2405982.38 |
| Ce | 140 | 115 | 3 | He | 110.042 | ug/l | 2687851.80 |
| Hg | 201 | 209 | 1 | No Gas | 0.034 | ug/l | 153.97 |
| Hg | 202 | 209 | 1 | No Gas | 0.362 | ug/l | 3165.41 |
| Hg | 202 | 209 | 3 | He | 0.276 | ug/l | 1134.16 |
| Tl | 203 | 209 | 3 | He | 99.773 | ug/l | 1025374.07 |
| Tl | 205 | 209 | 1 | No Gas | 102.083 | ug/l | 5177908.81 |
| Tl | 205 | 209 | 3 | He | 102.297 | ug/l | 2491414.34 |
| [Pb] | 206 | 209 | 1 | No Gas | 102.135 | ug/l | 1820221.90 |
| [Pb] | 207 | 209 | 1 | No Gas | 102.427 | ug/l | 1595405.86 |
| Pb | 208 | 209 | 1 | No Gas | 101.590 | ug/l | 7308095.79 |
| Th | 232 | 209 | 3 | He | 104.698 | ug/l | 3592027.06 |
| U | 238 | 209 | 1 | No Gas | 104.844 | ug/l | 7505105.64 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4442421.42 | 78.8 |
| Sc | 45 | 2 | H2 | 2241335.71 | 81.7 |
| Sc | 45 | 3 | He | 242423.64 | 76.1 |
| Ge | 72 | 1 | No Gas | 1316019.40 | 87.0 |
| Ge | 72 | 2 | H2 | 872090.62 | 87.9 |
| Ge | 72 | 3 | He | 185293.90 | 83.2 |
| In | 115 | 1 | No Gas | 10581243.41 | 86.9 |
| In | 115 | 3 | He | 2166752.60 | 82.2 |
| Tb | 159 | 1 | No Gas | 15447892.66 | 94.5 |
| Tb | 159 | 3 | He | 6291956.89 | 92.1 |
| Ho | 165 | 1 | No Gas | 14964420.77 | 98.1 |
| Ho | 165 | 3 | He | 6111666.40 | 92.4 |
| Lu | 175 | 1 | No Gas | 15477558.47 | 99.4 |
| Lu | 175 | 3 | He | 5084453.49 | 94.9 |
| Bi | 209 | 1 | No Gas | 10823043.07 | 95.6 |
| Bi | 209 | 3 | He | 4648616.36 | 92.7 |

ICPMS207-B Analytical Data

Sample Name B22011134-001BMSD4
File Name 084MSD4.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 00:40:17
Sample Type MSD4
Total Dilution 1.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|--------------|
| Li | 7 | 45 | 1 | No Gas | 74.194 | ug/l | 516101.79 |
| Be | 9 | 45 | 1 | No Gas | 40.010 | ug/l | 115475.18 |
| B | 11 | 45 | 1 | No Gas | 143.265 | ug/l | 257841.48 |
| Na | 23 | 45 | 3 | He | 43432.140 | ug/l | 28121166.80 |
| Mg | 24 | 45 | 3 | He | 15267.394 | ug/l | 5446603.97 |
| Al | 27 | 45 | 1 | No Gas | 441.154 | ug/l | 7232514.89 |
| Si | 28 | 45 | 2 | H2 | 28052.657 | ug/l | 47952816.02 |
| K | 39 | 72 | 3 | He | 6351.095 | ug/l | 2598661.84 |
| Ca | 40 | 72 | 2 | H2 | 14569.132 | ug/l | 100385682.98 |
| Ti | 47 | 72 | 1 | No Gas | 87.624 | ug/l | 185045.23 |
| V | 51 | 72 | 1 | No Gas | 89.526 | ug/l | 2292033.53 |
| V | 51 | 72 | 3 | He | 102.679 | ug/l | 416909.95 |
| Cr | 52 | 72 | 1 | No Gas | 96.471 | ug/l | 2409812.39 |
| Cr | 52 | 72 | 3 | He | 96.071 | ug/l | 433422.88 |
| Mn | 55 | 72 | 1 | No Gas | 948.050 | ug/l | 30627039.21 |
| Mn | 55 | 72 | 3 | He | 976.136 | ug/l | 2854071.53 |
| Fe | 56 | 72 | 2 | H2 | 942.058 | ug/l | 14866334.67 |
| Fe | 56 | 72 | 3 | He | 886.793 | ug/l | 3545911.80 |
| Co | 59 | 72 | 1 | No Gas | 94.106 | ug/l | 2571128.07 |
| Ni | 60 | 72 | 1 | No Gas | 92.111 | ug/l | 573281.69 |
| Ni | 60 | 72 | 3 | He | 99.224 | ug/l | 184230.62 |
| Cu | 63 | 72 | 1 | No Gas | 95.891 | ug/l | 1437360.64 |
| Cu | 63 | 72 | 3 | He | 103.452 | ug/l | 505586.38 |
| Cu | 65 | 72 | 1 | No Gas | 95.942 | ug/l | 708058.05 |
| Zn | 66 | 72 | 1 | No Gas | 92.327 | ug/l | 471432.38 |
| Zn | 66 | 72 | 3 | He | 99.516 | ug/l | 102087.90 |
| As | 75 | 72 | 1 | No Gas | 98.740 | ug/l | 610311.87 |
| As | 75 | 72 | 3 | He | 100.531 | ug/l | 89131.15 |
| Se | 78 | 72 | 2 | H2 | 102.826 | ug/l | 58551.28 |
| Br | 79 | 72 | 1 | No Gas | 6.383 | ug/l | 136250.26 |
| Br | 79 | 72 | 2 | H2 | 5.977 | ug/l | 69444.91 |
| Se | 82 | 72 | 1 | No Gas | 99.539 | ug/l | 35135.61 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 67413.56 |
| Sr | 88 | 72 | 1 | No Gas | 179.788 | ug/l | 7808802.60 |
| Sr | 88 | 72 | 3 | He | 180.913 | ug/l | 830574.31 |
| Mo | 95 | 115 | 1 | No Gas | 96.777 | ug/l | 920048.42 |
| Mo | 95 | 115 | 3 | He | 100.421 | ug/l | 323778.00 |
| Mo | 98 | 115 | 1 | No Gas | 96.130 | ug/l | 1488521.79 |
| Ag | 107 | 115 | 1 | No Gas | 9.668 | ug/l | 237172.35 |
| Ag | 109 | 115 | 1 | No Gas | 9.635 | ug/l | 229327.04 |
| Cd | 111 | 115 | 1 | No Gas | 49.635 | ug/l | 272613.86 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|------------|
| Cd | 111 | 115 | 3 | He | 51.213 | ug/l | 87143.30 |
| Cd | 114 | 115 | 1 | No Gas | 50.567 | ug/l | 614131.49 |
| Cd | 114 | 115 | 3 | He | 51.294 | ug/l | 214285.12 |
| Sn | 118 | 115 | 1 | No Gas | 106.268 | ug/l | 1656842.27 |
| Sn | 118 | 115 | 3 | He | 104.320 | ug/l | 412573.32 |
| Sb | 121 | 115 | 1 | No Gas | 103.628 | ug/l | 2546120.36 |
| Sb | 121 | 115 | 3 | He | 101.917 | ug/l | 626236.30 |
| Sb | 123 | 115 | 1 | No Gas | 104.047 | ug/l | 1967117.45 |
| Sb | 123 | 115 | 3 | He | 104.025 | ug/l | 505151.77 |
| Ba | 135 | 115 | 1 | No Gas | 101.442 | ug/l | 487719.46 |
| Ba | 137 | 115 | 1 | No Gas | 99.316 | ug/l | 849350.59 |
| La | 139 | 115 | 3 | He | 108.217 | ug/l | 2417351.82 |
| Ce | 140 | 115 | 3 | He | 112.972 | ug/l | 2760496.23 |
| Hg | 201 | 209 | 1 | No Gas | 0.032 | ug/l | 147.64 |
| Hg | 202 | 209 | 1 | No Gas | 0.359 | ug/l | 3186.75 |
| Hg | 202 | 209 | 3 | He | 0.267 | ug/l | 1114.16 |
| Tl | 203 | 209 | 3 | He | 100.314 | ug/l | 1048411.05 |
| Tl | 205 | 209 | 1 | No Gas | 102.017 | ug/l | 5252532.39 |
| Tl | 205 | 209 | 3 | He | 102.866 | ug/l | 2547478.08 |
| [Pb] | 206 | 209 | 1 | No Gas | 102.980 | ug/l | 1862824.45 |
| [Pb] | 207 | 209 | 1 | No Gas | 102.060 | ug/l | 1613656.24 |
| Pb | 208 | 209 | 1 | No Gas | 101.825 | ug/l | 7435092.30 |
| Th | 232 | 209 | 3 | He | 105.168 | ug/l | 3669433.52 |
| U | 238 | 209 | 1 | No Gas | 105.644 | ug/l | 7675877.07 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4366320.55 | 77.4 |
| Sc | 45 | 2 | H2 | 2261806.11 | 82.4 |
| Sc | 45 | 3 | He | 239161.17 | 75.1 |
| Ge | 72 | 1 | No Gas | 1274650.07 | 84.3 |
| Ge | 72 | 2 | H2 | 873535.56 | 88.0 |
| Ge | 72 | 3 | He | 181911.49 | 81.7 |
| In | 115 | 1 | No Gas | 10744739.87 | 88.3 |
| In | 115 | 3 | He | 2167450.26 | 82.2 |
| Tb | 159 | 1 | No Gas | 15623800.33 | 95.6 |
| Tb | 159 | 3 | He | 6452868.99 | 94.4 |
| Ho | 165 | 1 | No Gas | 14971885.01 | 98.2 |
| Ho | 165 | 3 | He | 6222027.07 | 94.1 |
| Lu | 175 | 1 | No Gas | 15425210.19 | 99.1 |
| Lu | 175 | 3 | He | 4941960.27 | 92.3 |
| Bi | 209 | 1 | No Gas | 10986179.37 | 97.0 |
| Bi | 209 | 3 | He | 4727253.15 | 94.3 |

ICPMS207-B Analytical Data

Sample Name Rinse
File Name 085BLKV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 00:46:31
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | -0.351 | ug/l | 10860.90 |
| Be | 9 | 45 | 1 | No Gas | -0.050 | ug/l | 44.66 |
| B | 11 | 45 | 1 | No Gas | 0.880 | ug/l | 6323.87 |
| Na | 23 | 45 | 3 | He | 34.109 | ug/l | 62435.48 |
| Mg | 24 | 45 | 3 | He | -0.140 | ug/l | 1443.88 |
| Al | 27 | 45 | 1 | No Gas | -0.330 | ug/l | 8132.25 |
| Si | 28 | 45 | 2 | H2 | 42.262 | ug/l | 84084.29 |
| K | 39 | 72 | 3 | He | -29.501 | ug/l | 60378.66 |
| Ca | 40 | 72 | 2 | H2 | -1.237 | ug/l | 86509.68 |
| Ti | 47 | 72 | 1 | No Gas | -0.018 | ug/l | 158.49 |
| V | 51 | 72 | 1 | No Gas | 2.096 | ug/l | 5842.47 |
| V | 51 | 72 | 3 | He | 0.957 | ug/l | 17754.19 |
| Cr | 52 | 72 | 1 | No Gas | -0.424 | ug/l | 78159.54 |
| Cr | 52 | 72 | 3 | He | 0.009 | ug/l | 811.14 |
| Mn | 55 | 72 | 1 | No Gas | 0.186 | ug/l | 16423.29 |
| Mn | 55 | 72 | 3 | He | 0.141 | ug/l | 577.57 |
| Fe | 56 | 72 | 2 | H2 | 0.131 | ug/l | 11915.19 |
| Fe | 56 | 72 | 3 | He | 0.074 | ug/l | 5450.01 |
| Co | 59 | 72 | 1 | No Gas | 0.000 | ug/l | 525.63 |
| Ni | 60 | 72 | 1 | No Gas | -0.017 | ug/l | 342.66 |
| Ni | 60 | 72 | 3 | He | -0.005 | ug/l | 76.67 |
| Cu | 63 | 72 | 1 | No Gas | 0.008 | ug/l | 1994.94 |
| Cu | 63 | 72 | 3 | He | 0.006 | ug/l | 629.22 |
| Cu | 65 | 72 | 1 | No Gas | 0.010 | ug/l | 967.76 |
| Zn | 66 | 72 | 1 | No Gas | 0.025 | ug/l | 1078.64 |
| Zn | 66 | 72 | 3 | He | 0.034 | ug/l | 235.56 |
| As | 75 | 72 | 1 | No Gas | 1.138 | ug/l | 20500.92 |
| As | 75 | 72 | 3 | He | -0.009 | ug/l | 238.80 |
| Se | 78 | 72 | 2 | H2 | 0.011 | ug/l | 39.11 |
| Br | 79 | 72 | 1 | No Gas | 22.339 | ug/l | 349886.76 |
| Br | 79 | 72 | 2 | H2 | 22.544 | ug/l | 192839.94 |
| Se | 82 | 72 | 1 | No Gas | 0.191 | ug/l | 752.75 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 18864.91 |
| Sr | 88 | 72 | 1 | No Gas | 0.004 | ug/l | 931.52 |
| Sr | 88 | 72 | 3 | He | -0.004 | ug/l | 236.67 |
| Mo | 95 | 115 | 1 | No Gas | 0.013 | ug/l | 197.78 |
| Mo | 95 | 115 | 3 | He | 0.012 | ug/l | 62.22 |
| Mo | 98 | 115 | 1 | No Gas | 0.013 | ug/l | 319.95 |
| Ag | 107 | 115 | 1 | No Gas | -0.002 | ug/l | 1762.82 |
| Ag | 109 | 115 | 1 | No Gas | 0.001 | ug/l | 1754.82 |
| Cd | 111 | 115 | 1 | No Gas | 0.003 | ug/l | 12.92 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.006 | ug/l | 16.67 |
| Cd | 114 | 115 | 1 | No Gas | 0.004 | ug/l | -110.49 |
| Cd | 114 | 115 | 3 | He | 0.005 | ug/l | 36.43 |
| Sn | 118 | 115 | 1 | No Gas | 0.017 | ug/l | 3420.32 |
| Sn | 118 | 115 | 3 | He | 0.005 | ug/l | 840.03 |
| Sb | 121 | 115 | 1 | No Gas | 0.135 | ug/l | 4573.21 |
| Sb | 121 | 115 | 3 | He | 0.103 | ug/l | 897.79 |
| Sb | 123 | 115 | 1 | No Gas | 0.135 | ug/l | 3491.79 |
| Sb | 123 | 115 | 3 | He | 0.104 | ug/l | 715.43 |
| Ba | 135 | 115 | 1 | No Gas | 0.007 | ug/l | 103.13 |
| Ba | 137 | 115 | 1 | No Gas | 0.007 | ug/l | 163.01 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 30.00 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 38.89 |
| Hg | 201 | 209 | 1 | No Gas | 0.000 | ug/l | 29.33 |
| Hg | 202 | 209 | 1 | No Gas | 0.002 | ug/l | 120.31 |
| Hg | 202 | 209 | 3 | He | 0.001 | ug/l | 38.99 |
| Tl | 203 | 209 | 3 | He | 0.196 | ug/l | 2884.81 |
| Tl | 205 | 209 | 1 | No Gas | 0.177 | ug/l | 12885.51 |
| Tl | 205 | 209 | 3 | He | 0.208 | ug/l | 7210.86 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.014 | ug/l | 904.48 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.012 | ug/l | 746.69 |
| Pb | 208 | 209 | 1 | No Gas | 0.011 | ug/l | 3482.42 |
| Th | 232 | 209 | 3 | He | 0.019 | ug/l | 1315.93 |
| U | 238 | 209 | 1 | No Gas | 0.007 | ug/l | 680.15 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4694404.12 | 83.3 |
| Sc | 45 | 2 | H2 | 2428626.44 | 88.5 |
| Sc | 45 | 3 | He | 254931.64 | 80.0 |
| Ge | 72 | 1 | No Gas | 1371394.76 | 90.7 |
| Ge | 72 | 2 | H2 | 937153.43 | 94.4 |
| Ge | 72 | 3 | He | 194674.70 | 87.4 |
| In | 115 | 1 | No Gas | 11920070.64 | 97.9 |
| In | 115 | 3 | He | 2418649.00 | 91.8 |
| Tb | 159 | 1 | No Gas | 16732481.06 | 102.4 |
| Tb | 159 | 3 | He | 6856379.10 | 100.3 |
| Ho | 165 | 1 | No Gas | 16081845.65 | 105.5 |
| Ho | 165 | 3 | He | 6581280.06 | 99.5 |
| Lu | 175 | 1 | No Gas | 16546357.44 | 106.3 |
| Lu | 175 | 3 | He | 5429739.39 | 101.4 |
| Bi | 209 | 1 | No Gas | 12179012.91 | 107.6 |
| Bi | 209 | 3 | He | 5210537.07 | 104.0 |

ICPMS207-B Analytical Data

Sample Name B22011135-001A
File Name 086SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 00:52:45
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|--------------|
| Li | 7 | 45 | 1 | No Gas | 2.119 | ug/l | 35049.20 |
| Be | 9 | 45 | 1 | No Gas | -0.054 | ug/l | 39.66 |
| B | 11 | 45 | 1 | No Gas | 160.193 | ug/l | 375718.66 |
| Na | 23 | 45 | 3 | He | 95615.067 | ug/l | 79000653.82 |
| Mg | 24 | 45 | 3 | He | 31906.533 | ug/l | 14538200.12 |
| Al | 27 | 45 | 1 | No Gas | 2.957 | ug/l | 80138.91 |
| Si | 28 | 45 | 2 | H2 | 36694.929 | ug/l | 75420759.90 |
| K | 39 | 72 | 3 | He | 3383.757 | ug/l | 1699566.14 |
| Ca | 40 | 72 | 2 | H2 | 23460.283 | ug/l | 182906358.25 |
| Ti | 47 | 72 | 1 | No Gas | 2.716 | ug/l | 6907.39 |
| V | 51 | 72 | 1 | No Gas | 20.421 | ug/l | 564883.95 |
| V | 51 | 72 | 3 | He | 17.022 | ug/l | 95740.71 |
| Cr | 52 | 72 | 1 | No Gas | 0.217 | ug/l | 102887.43 |
| Cr | 52 | 72 | 3 | He | 0.773 | ug/l | 5038.66 |
| Mn | 55 | 72 | 1 | No Gas | 107.163 | ug/l | 4055075.37 |
| Mn | 55 | 72 | 3 | He | 106.138 | ug/l | 372439.05 |
| Fe | 56 | 72 | 2 | H2 | 59.620 | ug/l | 1074485.52 |
| Fe | 56 | 72 | 3 | He | 57.281 | ug/l | 280208.75 |
| Co | 59 | 72 | 1 | No Gas | 1.331 | ug/l | 43038.18 |
| Ni | 60 | 72 | 1 | No Gas | 5.075 | ug/l | 37372.67 |
| Ni | 60 | 72 | 3 | He | 5.145 | ug/l | 11552.38 |
| Cu | 63 | 72 | 1 | No Gas | 1.489 | ug/l | 28080.84 |
| Cu | 63 | 72 | 3 | He | 1.005 | ug/l | 6552.50 |
| Cu | 65 | 72 | 1 | No Gas | 1.037 | ug/l | 9894.66 |
| Zn | 66 | 72 | 1 | No Gas | 2.093 | ug/l | 13486.03 |
| Zn | 66 | 72 | 3 | He | 2.062 | ug/l | 2758.06 |
| As | 75 | 72 | 1 | No Gas | 0.224 | ug/l | 15771.82 |
| As | 75 | 72 | 3 | He | 0.394 | ug/l | 695.07 |
| Se | 78 | 72 | 2 | H2 | 0.179 | ug/l | 149.33 |
| Br | 79 | 72 | 1 | No Gas | 22.217 | ug/l | 378230.79 |
| Br | 79 | 72 | 2 | H2 | 23.184 | ug/l | 208262.65 |
| Se | 82 | 72 | 1 | No Gas | 0.444 | ug/l | 919.70 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 66798.29 |
| Sr | 88 | 72 | 1 | No Gas | 151.241 | ug/l | 7677183.38 |
| Sr | 88 | 72 | 3 | He | 147.908 | ug/l | 814600.59 |
| Mo | 95 | 115 | 1 | No Gas | 2.947 | ug/l | 31243.08 |
| Mo | 95 | 115 | 3 | He | 3.051 | ug/l | 11632.57 |
| Mo | 98 | 115 | 1 | No Gas | 2.929 | ug/l | 50556.89 |
| Ag | 107 | 115 | 1 | No Gas | -0.062 | ug/l | 148.73 |
| Ag | 109 | 115 | 1 | No Gas | -0.060 | ug/l | 142.06 |
| Cd | 111 | 115 | 1 | No Gas | 0.026 | ug/l | 157.11 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Cd | 111 | 115 | 3 | He | 0.021 | ug/l | 47.78 |
| Cd | 114 | 115 | 1 | No Gas | 0.036 | ug/l | 317.70 |
| Cd | 114 | 115 | 3 | He | 0.021 | ug/l | 117.54 |
| Sn | 118 | 115 | 1 | No Gas | -0.083 | ug/l | 1700.07 |
| Sn | 118 | 115 | 3 | He | -0.089 | ug/l | 453.34 |
| Sb | 121 | 115 | 1 | No Gas | 0.219 | ug/l | 6888.05 |
| Sb | 121 | 115 | 3 | He | 0.214 | ug/l | 1759.29 |
| Sb | 123 | 115 | 1 | No Gas | 0.214 | ug/l | 5167.47 |
| Sb | 123 | 115 | 3 | He | 0.217 | ug/l | 1400.54 |
| Ba | 135 | 115 | 1 | No Gas | 13.970 | ug/l | 74875.23 |
| Ba | 137 | 115 | 1 | No Gas | 13.795 | ug/l | 131428.79 |
| La | 139 | 115 | 3 | He | 0.007 | ug/l | 197.78 |
| Ce | 140 | 115 | 3 | He | 0.018 | ug/l | 564.46 |
| Hg | 201 | 209 | 1 | No Gas | 0.028 | ug/l | 141.64 |
| Hg | 202 | 209 | 1 | No Gas | 0.517 | ug/l | 4789.91 |
| Hg | 202 | 209 | 3 | He | 0.405 | ug/l | 1823.76 |
| Tl | 203 | 209 | 3 | He | 0.101 | ug/l | 1762.16 |
| Tl | 205 | 209 | 1 | No Gas | 0.083 | ug/l | 7156.50 |
| Tl | 205 | 209 | 3 | He | 0.094 | ug/l | 4038.91 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.029 | ug/l | 1154.50 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.030 | ug/l | 1010.05 |
| Pb | 208 | 209 | 1 | No Gas | 0.027 | ug/l | 4575.90 |
| Th | 232 | 209 | 3 | He | -0.003 | ug/l | 480.87 |
| U | 238 | 209 | 1 | No Gas | 0.150 | ug/l | 11588.14 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5695231.71 | 101.0 |
| Sc | 45 | 2 | H2 | 2719475.66 | 99.1 |
| Sc | 45 | 3 | He | 305487.52 | 95.9 |
| Ge | 72 | 1 | No Gas | 1489111.86 | 98.5 |
| Ge | 72 | 2 | H2 | 988587.59 | 99.6 |
| Ge | 72 | 3 | He | 218254.86 | 98.0 |
| In | 115 | 1 | No Gas | 11963204.56 | 98.3 |
| In | 115 | 3 | He | 2558246.52 | 97.1 |
| Tb | 159 | 1 | No Gas | 17327811.58 | 106.0 |
| Tb | 159 | 3 | He | 7042118.07 | 103.1 |
| Ho | 165 | 1 | No Gas | 16435339.55 | 107.8 |
| Ho | 165 | 3 | He | 6808581.62 | 102.9 |
| Lu | 175 | 1 | No Gas | 16821965.54 | 108.1 |
| Lu | 175 | 3 | He | 5596954.88 | 104.5 |
| Bi | 209 | 1 | No Gas | 11556710.04 | 102.1 |
| Bi | 209 | 3 | He | 5142840.35 | 102.6 |

ICPMS207-B Analytical Data

Sample Name B22011135-001B
File Name 087SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 00:59:00
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|--------------|
| Li | 7 | 45 | 1 | No Gas | 2.431 | ug/l | 29662.23 |
| Be | 9 | 45 | 1 | No Gas | -0.049 | ug/l | 44.99 |
| B | 11 | 45 | 1 | No Gas | 157.231 | ug/l | 289412.89 |
| Na | 23 | 45 | 3 | He | 96463.515 | ug/l | 59673964.67 |
| Mg | 24 | 45 | 3 | He | 32096.579 | ug/l | 10952197.04 |
| Al | 27 | 45 | 1 | No Gas | 190.598 | ug/l | 3209175.92 |
| Si | 28 | 45 | 2 | H2 | 31610.842 | ug/l | 53464465.89 |
| K | 39 | 72 | 3 | He | 3123.145 | ug/l | 1273272.11 |
| Ca | 40 | 72 | 2 | H2 | 23172.207 | ug/l | 153670858.78 |
| Ti | 47 | 72 | 1 | No Gas | 21.890 | ug/l | 45166.31 |
| V | 51 | 72 | 1 | No Gas | 24.654 | ug/l | 577203.76 |
| V | 51 | 72 | 3 | He | 22.172 | ug/l | 97057.30 |
| Cr | 52 | 72 | 1 | No Gas | 2.931 | ug/l | 149446.20 |
| Cr | 52 | 72 | 3 | He | 1.211 | ug/l | 5986.81 |
| Mn | 55 | 72 | 1 | No Gas | 116.769 | ug/l | 3680153.59 |
| Mn | 55 | 72 | 3 | He | 114.869 | ug/l | 325878.98 |
| Fe | 56 | 72 | 2 | H2 | 300.956 | ug/l | 4579228.75 |
| Fe | 56 | 72 | 3 | He | 267.138 | ug/l | 1039114.43 |
| Co | 59 | 72 | 1 | No Gas | 1.588 | ug/l | 42704.35 |
| Ni | 60 | 72 | 1 | No Gas | 5.677 | ug/l | 34789.34 |
| Ni | 60 | 72 | 3 | He | 5.891 | ug/l | 10681.76 |
| Cu | 63 | 72 | 1 | No Gas | 2.339 | ug/l | 35782.23 |
| Cu | 63 | 72 | 3 | He | 1.779 | ug/l | 8966.29 |
| Cu | 65 | 72 | 1 | No Gas | 1.833 | ug/l | 13970.99 |
| Zn | 66 | 72 | 1 | No Gas | 2.521 | ug/l | 13356.92 |
| Zn | 66 | 72 | 3 | He | 2.569 | ug/l | 2730.28 |
| As | 75 | 72 | 1 | No Gas | 3.617 | ug/l | 32962.43 |
| As | 75 | 72 | 3 | He | 0.810 | ug/l | 918.61 |
| Se | 78 | 72 | 2 | H2 | 0.217 | ug/l | 147.78 |
| Br | 79 | 72 | 1 | No Gas | 9.803 | ug/l | 172095.13 |
| Br | 79 | 72 | 2 | H2 | 8.772 | ug/l | 84795.98 |
| Se | 82 | 72 | 1 | No Gas | 0.032 | ug/l | 625.54 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 60416.57 |
| Sr | 88 | 72 | 1 | No Gas | 161.450 | ug/l | 6828249.46 |
| Sr | 88 | 72 | 3 | He | 150.815 | ug/l | 671678.05 |
| Mo | 95 | 115 | 1 | No Gas | 3.231 | ug/l | 30130.69 |
| Mo | 95 | 115 | 3 | He | 3.429 | ug/l | 10934.25 |
| Mo | 98 | 115 | 1 | No Gas | 3.229 | ug/l | 49018.26 |
| Ag | 107 | 115 | 1 | No Gas | -0.047 | ug/l | 486.87 |
| Ag | 109 | 115 | 1 | No Gas | -0.047 | ug/l | 421.51 |
| Cd | 111 | 115 | 1 | No Gas | 0.013 | ug/l | 64.98 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Cd | 111 | 115 | 3 | He | 0.009 | ug/l | 20.89 |
| Cd | 114 | 115 | 1 | No Gas | 0.017 | ug/l | 52.76 |
| Cd | 114 | 115 | 3 | He | 0.007 | ug/l | 40.40 |
| Sn | 118 | 115 | 1 | No Gas | 0.450 | ug/l | 9630.93 |
| Sn | 118 | 115 | 3 | He | 0.521 | ug/l | 2754.73 |
| Sb | 121 | 115 | 1 | No Gas | 0.277 | ug/l | 7438.71 |
| Sb | 121 | 115 | 3 | He | 0.283 | ug/l | 1887.99 |
| Sb | 123 | 115 | 1 | No Gas | 0.284 | ug/l | 5848.48 |
| Sb | 123 | 115 | 3 | He | 0.284 | ug/l | 1496.23 |
| Ba | 135 | 115 | 1 | No Gas | 14.624 | ug/l | 68900.49 |
| Ba | 137 | 115 | 1 | No Gas | 14.624 | ug/l | 122508.02 |
| La | 139 | 115 | 3 | He | 0.065 | ug/l | 1447.86 |
| Ce | 140 | 115 | 3 | He | 0.172 | ug/l | 4179.54 |
| Hg | 201 | 209 | 1 | No Gas | 0.046 | ug/l | 193.96 |
| Hg | 202 | 209 | 1 | No Gas | 0.744 | ug/l | 6214.88 |
| Hg | 202 | 209 | 3 | He | 0.549 | ug/l | 2220.41 |
| Tl | 203 | 209 | 3 | He | 0.085 | ug/l | 1423.98 |
| Tl | 205 | 209 | 1 | No Gas | 0.060 | ug/l | 5374.49 |
| Tl | 205 | 209 | 3 | He | 0.084 | ug/l | 3407.14 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.321 | ug/l | 6091.43 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.329 | ug/l | 5438.92 |
| Pb | 208 | 209 | 1 | No Gas | 0.319 | ug/l | 24511.19 |
| Th | 232 | 209 | 3 | He | 0.045 | ug/l | 2058.33 |
| U | 238 | 209 | 1 | No Gas | 0.156 | ug/l | 10907.37 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4468548.28 | 79.2 |
| Sc | 45 | 2 | H2 | 2237915.28 | 81.5 |
| Sc | 45 | 3 | He | 228843.45 | 71.9 |
| Ge | 72 | 1 | No Gas | 1241315.27 | 82.1 |
| Ge | 72 | 2 | H2 | 841205.59 | 84.8 |
| Ge | 72 | 3 | He | 176435.52 | 79.2 |
| In | 115 | 1 | No Gas | 10517176.62 | 86.4 |
| In | 115 | 3 | He | 2140289.27 | 81.2 |
| Tb | 159 | 1 | No Gas | 15338138.54 | 93.9 |
| Tb | 159 | 3 | He | 6368539.57 | 93.2 |
| Ho | 165 | 1 | No Gas | 14519355.20 | 95.2 |
| Ho | 165 | 3 | He | 6183535.77 | 93.5 |
| Lu | 175 | 1 | No Gas | 14999891.86 | 96.4 |
| Lu | 175 | 3 | He | 4980085.33 | 93.0 |
| Bi | 209 | 1 | No Gas | 10499441.37 | 92.7 |
| Bi | 209 | 3 | He | 4642078.60 | 92.6 |

ICPMS207-B Analytical Data

Sample Name B22011136-001A
File Name 088SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 01:05:15
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|------------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 0.213 | ug/l | 18038.59 |
| Be | 9 | 45 | 1 | No Gas | -0.052 | ug/l | 46.66 |
| B | 11 | 45 | 1 | No Gas | 211.265 | ug/l | 490118.53 |
| Na | 23 | 45 | 3 | He | 114865.039 | ug/l | 93937947.49 |
| Mg | 24 | 45 | 3 | He | 9736.621 | ug/l | 4392639.26 |
| Al | 27 | 45 | 1 | No Gas | 43.567 | ug/l | 940600.92 |
| Si | 28 | 45 | 2 | H2 | 33211.527 | ug/l | 68503408.45 |
| K | 39 | 72 | 3 | He | 3666.123 | ug/l | 1834717.72 |
| Ca | 40 | 72 | 2 | H2 | 5949.951 | ug/l | 46780095.53 |
| Ti | 47 | 72 | 1 | No Gas | 4.524 | ug/l | 11095.68 |
| V | 51 | 72 | 1 | No Gas | 51.186 | ug/l | 1466641.19 |
| V | 51 | 72 | 3 | He | 46.325 | ug/l | 234102.83 |
| Cr | 52 | 72 | 1 | No Gas | 2.323 | ug/l | 158352.80 |
| Cr | 52 | 72 | 3 | He | 4.521 | ug/l | 25290.73 |
| Mn | 55 | 72 | 1 | No Gas | 5.185 | ug/l | 201524.08 |
| Mn | 55 | 72 | 3 | He | 5.341 | ug/l | 18889.67 |
| Fe | 56 | 72 | 2 | H2 | 34.565 | ug/l | 631363.48 |
| Fe | 56 | 72 | 3 | He | 34.362 | ug/l | 170324.63 |
| Co | 59 | 72 | 1 | No Gas | 0.158 | ug/l | 5460.21 |
| Ni | 60 | 72 | 1 | No Gas | 0.343 | ug/l | 2914.53 |
| Ni | 60 | 72 | 3 | He | 0.327 | ug/l | 823.37 |
| Cu | 63 | 72 | 1 | No Gas | 1.102 | ug/l | 20793.80 |
| Cu | 63 | 72 | 3 | He | 0.449 | ug/l | 3297.72 |
| Cu | 65 | 72 | 1 | No Gas | 0.506 | ug/l | 5191.01 |
| Zn | 66 | 72 | 1 | No Gas | 0.803 | ug/l | 5665.12 |
| Zn | 66 | 72 | 3 | He | 0.819 | ug/l | 1228.95 |
| As | 75 | 72 | 1 | No Gas | 0.302 | ug/l | 15934.40 |
| As | 75 | 72 | 3 | He | 0.077 | ug/l | 358.67 |
| Se | 78 | 72 | 2 | H2 | 0.447 | ug/l | 323.89 |
| Br | 79 | 72 | 1 | No Gas | 41.875 | ug/l | 634395.82 |
| Br | 79 | 72 | 2 | H2 | 41.808 | ug/l | 351024.15 |
| Se | 82 | 72 | 1 | No Gas | 0.927 | ug/l | 1088.92 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 39235.45 |
| Sr | 88 | 72 | 1 | No Gas | 62.820 | ug/l | 3112459.48 |
| Sr | 88 | 72 | 3 | He | 59.095 | ug/l | 325706.41 |
| Mo | 95 | 115 | 1 | No Gas | 0.529 | ug/l | 5756.75 |
| Mo | 95 | 115 | 3 | He | 0.545 | ug/l | 2091.28 |
| Mo | 98 | 115 | 1 | No Gas | 0.531 | ug/l | 9409.81 |
| Ag | 107 | 115 | 1 | No Gas | -0.062 | ug/l | 164.74 |
| Ag | 109 | 115 | 1 | No Gas | -0.060 | ug/l | 147.39 |
| Cd | 111 | 115 | 1 | No Gas | 0.026 | ug/l | 159.35 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.019 | ug/l | 44.56 |
| Cd | 114 | 115 | 1 | No Gas | 0.035 | ug/l | 314.02 |
| Cd | 114 | 115 | 3 | He | 0.019 | ug/l | 104.70 |
| Sn | 118 | 115 | 1 | No Gas | -0.073 | ug/l | 1909.70 |
| Sn | 118 | 115 | 3 | He | -0.094 | ug/l | 426.68 |
| Sb | 121 | 115 | 1 | No Gas | 0.104 | ug/l | 3813.90 |
| Sb | 121 | 115 | 3 | He | 0.104 | ug/l | 960.13 |
| Sb | 123 | 115 | 1 | No Gas | 0.103 | ug/l | 2879.59 |
| Sb | 123 | 115 | 3 | He | 0.109 | ug/l | 780.77 |
| Ba | 135 | 115 | 1 | No Gas | 6.451 | ug/l | 35188.06 |
| Ba | 137 | 115 | 1 | No Gas | 6.474 | ug/l | 62770.00 |
| La | 139 | 115 | 3 | He | 0.046 | ug/l | 1243.40 |
| Ce | 140 | 115 | 3 | He | 0.174 | ug/l | 5029.84 |
| Hg | 201 | 209 | 1 | No Gas | 0.007 | ug/l | 59.99 |
| Hg | 202 | 209 | 1 | No Gas | 0.009 | ug/l | 184.30 |
| Hg | 202 | 209 | 3 | He | 0.008 | ug/l | 65.99 |
| Tl | 203 | 209 | 3 | He | 0.025 | ug/l | 888.39 |
| Tl | 205 | 209 | 1 | No Gas | 0.016 | ug/l | 3618.31 |
| Tl | 205 | 209 | 3 | He | 0.020 | ug/l | 2021.64 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.049 | ug/l | 1570.10 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.048 | ug/l | 1333.41 |
| Pb | 208 | 209 | 1 | No Gas | 0.045 | ug/l | 6040.57 |
| Th | 232 | 209 | 3 | He | -0.005 | ug/l | 384.83 |
| U | 238 | 209 | 1 | No Gas | 0.022 | ug/l | 1819.10 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5653800.46 | 100.3 |
| Sc | 45 | 2 | H2 | 2729152.20 | 99.4 |
| Sc | 45 | 3 | He | 302380.52 | 94.9 |
| Ge | 72 | 1 | No Gas | 1453220.30 | 96.1 |
| Ge | 72 | 2 | H2 | 995440.55 | 100.3 |
| Ge | 72 | 3 | He | 218260.75 | 98.0 |
| In | 115 | 1 | No Gas | 12160925.03 | 99.9 |
| In | 115 | 3 | He | 2554274.12 | 96.9 |
| Tb | 159 | 1 | No Gas | 17371924.86 | 106.3 |
| Tb | 159 | 3 | He | 7083172.19 | 103.7 |
| Ho | 165 | 1 | No Gas | 16259521.03 | 106.6 |
| Ho | 165 | 3 | He | 6845958.95 | 103.5 |
| Lu | 175 | 1 | No Gas | 16894348.54 | 108.6 |
| Lu | 175 | 3 | He | 5640841.42 | 105.3 |
| Bi | 209 | 1 | No Gas | 11790237.17 | 104.1 |
| Bi | 209 | 3 | He | 5071738.81 | 101.2 |

ICPMS207-B Analytical Data

Sample Name CCV
File Name 089_CCV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 01:11:29
Sample Type CCV
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 462.554 | ug/l | 3416435.24 |
| Be | 9 | 45 | 1 | No Gas | 40.119 | ug/l | 125572.29 |
| B | 11 | 45 | 1 | No Gas | 44.847 | ug/l | 90754.32 |
| Na | 23 | 45 | 3 | He | 11993.337 | ug/l | 8770137.79 |
| Mg | 24 | 45 | 3 | He | 12014.650 | ug/l | 4825481.61 |
| Al | 27 | 45 | 1 | No Gas | 52.979 | ug/l | 955123.06 |
| Si | 28 | 45 | 2 | H2 | 248.312 | ug/l | 468345.15 |
| K | 39 | 72 | 3 | He | 11135.339 | ug/l | 4987012.60 |
| Ca | 40 | 72 | 2 | H2 | 11914.313 | ug/l | 89911582.58 |
| Ti | 47 | 72 | 1 | No Gas | 46.758 | ug/l | 105165.82 |
| V | 51 | 72 | 1 | No Gas | 52.926 | ug/l | 1416629.31 |
| V | 51 | 72 | 3 | He | 49.915 | ug/l | 231616.41 |
| Cr | 52 | 72 | 1 | No Gas | 47.622 | ug/l | 1310446.65 |
| Cr | 52 | 72 | 3 | He | 47.645 | ug/l | 238356.46 |
| Mn | 55 | 72 | 1 | No Gas | 50.008 | ug/l | 1728567.00 |
| Mn | 55 | 72 | 3 | He | 48.793 | ug/l | 158079.57 |
| Fe | 56 | 72 | 2 | H2 | 1315.954 | ug/l | 22732312.13 |
| Fe | 56 | 72 | 3 | He | 1242.454 | ug/l | 5496684.30 |
| Co | 59 | 72 | 1 | No Gas | 48.405 | ug/l | 1407431.73 |
| Ni | 60 | 72 | 1 | No Gas | 48.112 | ug/l | 318830.23 |
| Ni | 60 | 72 | 3 | He | 49.636 | ug/l | 102072.84 |
| Cu | 63 | 72 | 1 | No Gas | 49.921 | ug/l | 797136.11 |
| Cu | 63 | 72 | 3 | He | 51.035 | ug/l | 276410.34 |
| Cu | 65 | 72 | 1 | No Gas | 48.896 | ug/l | 384557.15 |
| Zn | 66 | 72 | 1 | No Gas | 49.225 | ug/l | 267841.86 |
| Zn | 66 | 72 | 3 | He | 51.147 | ug/l | 58177.91 |
| As | 75 | 72 | 1 | No Gas | 48.281 | ug/l | 324186.66 |
| As | 75 | 72 | 3 | He | 50.289 | ug/l | 49486.71 |
| Se | 78 | 72 | 2 | H2 | 51.240 | ug/l | 31961.67 |
| Br | 79 | 72 | 1 | No Gas | 16.833 | ug/l | 276616.00 |
| Br | 79 | 72 | 2 | H2 | 16.155 | ug/l | 150245.47 |
| Se | 82 | 72 | 1 | No Gas | 51.056 | ug/l | 19510.08 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 35203.12 |
| Sr | 88 | 72 | 1 | No Gas | 52.436 | ug/l | 2424338.10 |
| Sr | 88 | 72 | 3 | He | 50.807 | ug/l | 258431.25 |
| Mo | 95 | 115 | 1 | No Gas | 49.879 | ug/l | 516944.67 |
| Mo | 95 | 115 | 3 | He | 52.543 | ug/l | 185026.41 |
| Mo | 98 | 115 | 1 | No Gas | 50.023 | ug/l | 844316.48 |
| Ag | 107 | 115 | 1 | No Gas | 19.860 | ug/l | 529031.88 |
| Ag | 109 | 115 | 1 | No Gas | 19.569 | ug/l | 505855.18 |
| Cd | 111 | 115 | 1 | No Gas | 49.619 | ug/l | 296989.83 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Cd | 111 | 115 | 3 | He | 51.415 | ug/l | 95548.02 |
| Cd | 114 | 115 | 1 | No Gas | 50.645 | ug/l | 670286.66 |
| Cd | 114 | 115 | 3 | He | 51.461 | ug/l | 234787.69 |
| Sn | 118 | 115 | 1 | No Gas | 51.624 | ug/l | 878866.95 |
| Sn | 118 | 115 | 3 | He | 54.158 | ug/l | 234317.45 |
| Sb | 121 | 115 | 1 | No Gas | 53.264 | ug/l | 1426756.78 |
| Sb | 121 | 115 | 3 | He | 54.009 | ug/l | 362533.77 |
| Sb | 123 | 115 | 1 | No Gas | 53.126 | ug/l | 1095034.48 |
| Sb | 123 | 115 | 3 | He | 54.206 | ug/l | 287551.74 |
| Ba | 135 | 115 | 1 | No Gas | 49.726 | ug/l | 260692.74 |
| Ba | 137 | 115 | 1 | No Gas | 49.758 | ug/l | 463695.94 |
| La | 139 | 115 | 3 | He | 52.653 | ug/l | 1284633.26 |
| Ce | 140 | 115 | 3 | He | 53.021 | ug/l | 1414953.73 |
| Hg | 201 | 209 | 1 | No Gas | 0.984 | ug/l | 3889.13 |
| Hg | 202 | 209 | 1 | No Gas | 0.967 | ug/l | 8796.47 |
| Hg | 202 | 209 | 3 | He | 0.987 | ug/l | 4321.84 |
| Tl | 203 | 209 | 3 | He | 48.773 | ug/l | 545361.01 |
| Tl | 205 | 209 | 1 | No Gas | 51.145 | ug/l | 2749027.84 |
| Tl | 205 | 209 | 3 | He | 49.636 | ug/l | 1315029.99 |
| [Pb] | 206 | 209 | 1 | No Gas | 51.446 | ug/l | 971410.92 |
| [Pb] | 207 | 209 | 1 | No Gas | 50.504 | ug/l | 833513.82 |
| Pb | 208 | 209 | 1 | No Gas | 50.805 | ug/l | 3871737.32 |
| Th | 232 | 209 | 3 | He | 50.387 | ug/l | 1879939.41 |
| U | 238 | 209 | 1 | No Gas | 51.508 | ug/l | 3905252.70 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4733937.66 | 84.0 |
| Sc | 45 | 2 | H2 | 2460492.39 | 89.6 |
| Sc | 45 | 3 | He | 269211.04 | 84.5 |
| Ge | 72 | 1 | No Gas | 1355876.86 | 89.7 |
| Ge | 72 | 2 | H2 | 956411.70 | 96.4 |
| Ge | 72 | 3 | He | 201393.63 | 90.4 |
| In | 115 | 1 | No Gas | 11713998.14 | 96.2 |
| In | 115 | 3 | He | 2366956.11 | 89.8 |
| Tb | 159 | 1 | No Gas | 16230677.82 | 99.3 |
| Tb | 159 | 3 | He | 6770661.25 | 99.1 |
| Ho | 165 | 1 | No Gas | 15686347.15 | 102.9 |
| Ho | 165 | 3 | He | 6555480.51 | 99.1 |
| Lu | 175 | 1 | No Gas | 16223149.45 | 104.2 |
| Lu | 175 | 3 | He | 5308875.56 | 99.1 |
| Bi | 209 | 1 | No Gas | 11464651.18 | 101.3 |
| Bi | 209 | 3 | He | 5054867.41 | 100.8 |

ICPMS207-B Analytical Data

Sample Name CCB
File Name 090_CCB.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 01:17:44
Sample Type CCB
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|----------|
| Li | 7 | 45 | 1 | No Gas | 0.076 | ug/l | 14040.10 |
| Be | 9 | 45 | 1 | No Gas | -0.052 | ug/l | 37.99 |
| B | 11 | 45 | 1 | No Gas | 1.818 | ug/l | 8159.50 |
| Na | 23 | 45 | 3 | He | 34.485 | ug/l | 61986.98 |
| Mg | 24 | 45 | 3 | He | -0.837 | ug/l | 1164.41 |
| Al | 27 | 45 | 1 | No Gas | -0.364 | ug/l | 7589.75 |
| Si | 28 | 45 | 2 | H2 | 18.763 | ug/l | 40809.87 |
| K | 39 | 72 | 3 | He | -27.053 | ug/l | 59914.63 |
| Ca | 40 | 72 | 2 | H2 | -1.531 | ug/l | 83639.22 |
| Ti | 47 | 72 | 1 | No Gas | 0.016 | ug/l | 231.90 |
| V | 51 | 72 | 1 | No Gas | 1.978 | ug/l | 2000.79 |
| V | 51 | 72 | 3 | He | 1.287 | ug/l | 18677.52 |
| Cr | 52 | 72 | 1 | No Gas | 0.175 | ug/l | 91556.27 |
| Cr | 52 | 72 | 3 | He | 0.015 | ug/l | 821.14 |
| Mn | 55 | 72 | 1 | No Gas | 0.043 | ug/l | 11188.75 |
| Mn | 55 | 72 | 3 | He | 0.004 | ug/l | 146.30 |
| Fe | 56 | 72 | 2 | H2 | 0.034 | ug/l | 10177.13 |
| Fe | 56 | 72 | 3 | He | 0.043 | ug/l | 5184.49 |
| Co | 59 | 72 | 1 | No Gas | -0.004 | ug/l | 389.23 |
| Ni | 60 | 72 | 1 | No Gas | -0.012 | ug/l | 362.62 |
| Ni | 60 | 72 | 3 | He | -0.002 | ug/l | 81.11 |
| Cu | 63 | 72 | 1 | No Gas | -0.007 | ug/l | 1717.46 |
| Cu | 63 | 72 | 3 | He | 0.002 | ug/l | 591.90 |
| Cu | 65 | 72 | 1 | No Gas | -0.004 | ug/l | 834.36 |
| Zn | 66 | 72 | 1 | No Gas | 0.030 | ug/l | 1078.43 |
| Zn | 66 | 72 | 3 | He | 0.060 | ug/l | 257.78 |
| As | 75 | 72 | 1 | No Gas | -0.274 | ug/l | 10999.66 |
| As | 75 | 72 | 3 | He | -0.005 | ug/l | 236.27 |
| Se | 78 | 72 | 2 | H2 | 0.005 | ug/l | 35.11 |
| Br | 79 | 72 | 1 | No Gas | 0.456 | ug/l | 69498.79 |
| Br | 79 | 72 | 2 | H2 | 0.377 | ug/l | 34205.89 |
| Se | 82 | 72 | 1 | No Gas | 0.108 | ug/l | 705.14 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 19624.40 |
| Sr | 88 | 72 | 1 | No Gas | 0.000 | ug/l | 725.25 |
| Sr | 88 | 72 | 3 | He | -0.016 | ug/l | 176.67 |
| Mo | 95 | 115 | 1 | No Gas | 0.023 | ug/l | 294.45 |
| Mo | 95 | 115 | 3 | He | 0.015 | ug/l | 73.33 |
| Mo | 98 | 115 | 1 | No Gas | 0.019 | ug/l | 415.71 |
| Ag | 107 | 115 | 1 | No Gas | -0.003 | ug/l | 1708.13 |
| Ag | 109 | 115 | 1 | No Gas | 0.000 | ug/l | 1684.78 |
| Cd | 111 | 115 | 1 | No Gas | -0.005 | ug/l | -31.94 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.002 | ug/l | 9.56 |
| Cd | 114 | 115 | 1 | No Gas | 0.001 | ug/l | -159.82 |
| Cd | 114 | 115 | 3 | He | 0.001 | ug/l | 17.92 |
| Sn | 118 | 115 | 1 | No Gas | 0.031 | ug/l | 3586.72 |
| Sn | 118 | 115 | 3 | He | 0.024 | ug/l | 912.26 |
| Sb | 121 | 115 | 1 | No Gas | 0.100 | ug/l | 3536.14 |
| Sb | 121 | 115 | 3 | He | 0.073 | ug/l | 688.76 |
| Sb | 123 | 115 | 1 | No Gas | 0.097 | ug/l | 2653.19 |
| Sb | 123 | 115 | 3 | He | 0.075 | ug/l | 548.06 |
| Ba | 135 | 115 | 1 | No Gas | 0.001 | ug/l | 69.86 |
| Ba | 137 | 115 | 1 | No Gas | -0.002 | ug/l | 79.84 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 14.45 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 33.34 |
| Hg | 201 | 209 | 1 | No Gas | 0.005 | ug/l | 51.32 |
| Hg | 202 | 209 | 1 | No Gas | 0.003 | ug/l | 127.98 |
| Hg | 202 | 209 | 3 | He | 0.003 | ug/l | 46.32 |
| Tl | 203 | 209 | 3 | He | 0.102 | ug/l | 1828.20 |
| Tl | 205 | 209 | 1 | No Gas | 0.086 | ug/l | 7577.84 |
| Tl | 205 | 209 | 3 | He | 0.105 | ug/l | 4463.21 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.003 | ug/l | 683.36 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.004 | ug/l | 602.24 |
| Pb | 208 | 209 | 1 | No Gas | 0.002 | ug/l | 2720.13 |
| Th | 232 | 209 | 3 | He | 0.014 | ug/l | 1129.17 |
| U | 238 | 209 | 1 | No Gas | 0.003 | ug/l | 312.28 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4718279.66 | 83.7 |
| Sc | 45 | 2 | H2 | 2418986.94 | 88.1 |
| Sc | 45 | 3 | He | 252036.52 | 79.1 |
| Ge | 72 | 1 | No Gas | 1340076.13 | 88.6 |
| Ge | 72 | 2 | H2 | 929347.26 | 93.6 |
| Ge | 72 | 3 | He | 189901.56 | 85.3 |
| In | 115 | 1 | No Gas | 11661553.13 | 95.8 |
| In | 115 | 3 | He | 2388756.85 | 90.6 |
| Tb | 159 | 1 | No Gas | 16668552.97 | 102.0 |
| Tb | 159 | 3 | He | 6823701.43 | 99.9 |
| Ho | 165 | 1 | No Gas | 15946922.40 | 104.6 |
| Ho | 165 | 3 | He | 6609203.19 | 99.9 |
| Lu | 175 | 1 | No Gas | 16360942.34 | 105.1 |
| Lu | 175 | 3 | He | 5292055.83 | 98.8 |
| Bi | 209 | 1 | No Gas | 11971247.89 | 105.7 |
| Bi | 209 | 3 | He | 5299486.83 | 105.7 |

ICPMS207-B Analytical Data

Sample Name B22011136-001B
File Name 091SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 01:23:59
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|------------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 1.222 | ug/l | 19782.10 |
| Be | 9 | 45 | 1 | No Gas | -0.036 | ug/l | 76.65 |
| B | 11 | 45 | 1 | No Gas | 177.138 | ug/l | 302845.71 |
| Na | 23 | 45 | 3 | He | 103317.211 | ug/l | 61461523.53 |
| Mg | 24 | 45 | 3 | He | 9160.464 | ug/l | 3006366.25 |
| Al | 27 | 45 | 1 | No Gas | 582.596 | ug/l | 9103505.21 |
| Si | 28 | 45 | 2 | H2 | 28845.290 | ug/l | 48883982.47 |
| K | 39 | 72 | 3 | He | 3205.104 | ug/l | 1276257.57 |
| Ca | 40 | 72 | 2 | H2 | 5728.801 | ug/l | 38530947.51 |
| Ti | 47 | 72 | 1 | No Gas | 36.789 | ug/l | 75713.54 |
| V | 51 | 72 | 1 | No Gas | 42.409 | ug/l | 1028651.10 |
| V | 51 | 72 | 3 | He | 48.878 | ug/l | 194661.34 |
| Cr | 52 | 72 | 1 | No Gas | 6.949 | ug/l | 243688.64 |
| Cr | 52 | 72 | 3 | He | 5.995 | ug/l | 26303.63 |
| Mn | 55 | 72 | 1 | No Gas | 31.320 | ug/l | 993312.35 |
| Mn | 55 | 72 | 3 | He | 31.674 | ug/l | 87986.95 |
| Fe | 56 | 72 | 2 | H2 | 668.850 | ug/l | 10291257.98 |
| Fe | 56 | 72 | 3 | He | 641.430 | ug/l | 2435041.60 |
| Co | 59 | 72 | 1 | No Gas | 0.688 | ug/l | 18738.24 |
| Ni | 60 | 72 | 1 | No Gas | 1.510 | ug/l | 9547.54 |
| Ni | 60 | 72 | 3 | He | 1.605 | ug/l | 2903.64 |
| Cu | 63 | 72 | 1 | No Gas | 2.268 | ug/l | 34725.15 |
| Cu | 63 | 72 | 3 | He | 1.751 | ug/l | 8640.16 |
| Cu | 65 | 72 | 1 | No Gas | 1.654 | ug/l | 12667.93 |
| Zn | 66 | 72 | 1 | No Gas | 1.271 | ug/l | 7154.03 |
| Zn | 66 | 72 | 3 | He | 1.455 | ug/l | 1590.10 |
| As | 75 | 72 | 1 | No Gas | 1.935 | ug/l | 23220.62 |
| As | 75 | 72 | 3 | He | 0.386 | ug/l | 543.13 |
| Se | 78 | 72 | 2 | H2 | 0.471 | ug/l | 290.34 |
| Br | 79 | 72 | 1 | No Gas | 10.258 | ug/l | 177196.74 |
| Br | 79 | 72 | 2 | H2 | 9.938 | ug/l | 93377.61 |
| Se | 82 | 72 | 1 | No Gas | 0.438 | ug/l | 763.95 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 33872.59 |
| Sr | 88 | 72 | 1 | No Gas | 61.357 | ug/l | 2593887.45 |
| Sr | 88 | 72 | 3 | He | 60.100 | ug/l | 261957.27 |
| Mo | 95 | 115 | 1 | No Gas | 0.660 | ug/l | 6233.60 |
| Mo | 95 | 115 | 3 | He | 0.681 | ug/l | 2221.30 |
| Mo | 98 | 115 | 1 | No Gas | 0.663 | ug/l | 10198.16 |
| Ag | 107 | 115 | 1 | No Gas | -0.057 | ug/l | 248.10 |
| Ag | 109 | 115 | 1 | No Gas | -0.056 | ug/l | 212.09 |
| Cd | 111 | 115 | 1 | No Gas | 0.028 | ug/l | 147.71 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.022 | ug/l | 42.22 |
| Cd | 114 | 115 | 1 | No Gas | 0.025 | ug/l | 148.62 |
| Cd | 114 | 115 | 3 | He | 0.020 | ug/l | 95.59 |
| Sn | 118 | 115 | 1 | No Gas | 0.417 | ug/l | 9174.78 |
| Sn | 118 | 115 | 3 | He | 0.436 | ug/l | 2463.57 |
| Sb | 121 | 115 | 1 | No Gas | 0.137 | ug/l | 4099.01 |
| Sb | 121 | 115 | 3 | He | 0.135 | ug/l | 1008.81 |
| Sb | 123 | 115 | 1 | No Gas | 0.135 | ug/l | 3101.66 |
| Sb | 123 | 115 | 3 | He | 0.136 | ug/l | 799.77 |
| Ba | 135 | 115 | 1 | No Gas | 7.298 | ug/l | 34631.17 |
| Ba | 137 | 115 | 1 | No Gas | 7.208 | ug/l | 60835.39 |
| La | 139 | 115 | 3 | He | 0.170 | ug/l | 3839.44 |
| Ce | 140 | 115 | 3 | He | 0.682 | ug/l | 16743.52 |
| Hg | 201 | 209 | 1 | No Gas | 0.021 | ug/l | 103.98 |
| Hg | 202 | 209 | 1 | No Gas | 0.031 | ug/l | 342.27 |
| Hg | 202 | 209 | 3 | He | 0.027 | ug/l | 136.64 |
| Tl | 203 | 209 | 3 | He | 0.061 | ug/l | 1189.87 |
| Tl | 205 | 209 | 1 | No Gas | 0.051 | ug/l | 4935.42 |
| Tl | 205 | 209 | 3 | He | 0.067 | ug/l | 3026.23 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.156 | ug/l | 3239.30 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.158 | ug/l | 2855.89 |
| Pb | 208 | 209 | 1 | No Gas | 0.156 | ug/l | 13137.09 |
| Th | 232 | 209 | 3 | He | 0.083 | ug/l | 3388.47 |
| U | 238 | 209 | 1 | No Gas | 0.032 | ug/l | 2285.75 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4157659.63 | 73.7 |
| Sc | 45 | 2 | H2 | 2242201.35 | 81.7 |
| Sc | 45 | 3 | He | 219939.23 | 69.1 |
| Ge | 72 | 1 | No Gas | 1239879.93 | 82.0 |
| Ge | 72 | 2 | H2 | 851467.22 | 85.8 |
| Ge | 72 | 3 | He | 172593.53 | 77.5 |
| In | 115 | 1 | No Gas | 10584792.97 | 87.0 |
| In | 115 | 3 | He | 2173875.59 | 82.5 |
| Tb | 159 | 1 | No Gas | 14955805.59 | 91.5 |
| Tb | 159 | 3 | He | 6371355.25 | 93.2 |
| Ho | 165 | 1 | No Gas | 14220522.73 | 93.2 |
| Ho | 165 | 3 | He | 6170421.50 | 93.3 |
| Lu | 175 | 1 | No Gas | 15257125.76 | 98.0 |
| Lu | 175 | 3 | He | 5015507.57 | 93.7 |
| Bi | 209 | 1 | No Gas | 10500781.62 | 92.7 |
| Bi | 209 | 3 | He | 4674718.06 | 93.3 |

ICPMS207-B Analytical Data

Sample Name B22011137-001A
File Name 092SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 01:30:13
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|--------------|
| Li | 7 | 45 | 1 | No Gas | 1.426 | ug/l | 28170.09 |
| Be | 9 | 45 | 1 | No Gas | -0.046 | ug/l | 67.32 |
| B | 11 | 45 | 1 | No Gas | 71.097 | ug/l | 165571.11 |
| Na | 23 | 45 | 3 | He | 51540.594 | ug/l | 41455534.66 |
| Mg | 24 | 45 | 3 | He | 27697.691 | ug/l | 12275456.48 |
| Al | 27 | 45 | 1 | No Gas | 3.414 | ug/l | 87600.26 |
| Si | 28 | 45 | 2 | H2 | 37325.319 | ug/l | 76868863.78 |
| K | 39 | 72 | 3 | He | 2425.493 | ug/l | 1246961.16 |
| Ca | 40 | 72 | 2 | H2 | 13959.528 | ug/l | 110891792.89 |
| Ti | 47 | 72 | 1 | No Gas | 3.678 | ug/l | 9173.81 |
| V | 51 | 72 | 1 | No Gas | 4.069 | ug/l | 65022.74 |
| V | 51 | 72 | 3 | He | -0.625 | ug/l | 12493.14 |
| Cr | 52 | 72 | 1 | No Gas | -1.267 | ug/l | 60363.82 |
| Cr | 52 | 72 | 3 | He | 0.293 | ug/l | 2455.78 |
| Mn | 55 | 72 | 1 | No Gas | 1841.966 | ug/l | 68699527.71 |
| Mn | 55 | 72 | 3 | He | 1852.210 | ug/l | 6527195.51 |
| Fe | 56 | 72 | 2 | H2 | 2942.368 | ug/l | 53509551.42 |
| Fe | 56 | 72 | 3 | He | 2735.527 | ug/l | 13171411.26 |
| Co | 59 | 72 | 1 | No Gas | 0.268 | ug/l | 8994.96 |
| Ni | 60 | 72 | 1 | No Gas | 0.547 | ug/l | 4411.94 |
| Ni | 60 | 72 | 3 | He | 0.552 | ug/l | 1332.29 |
| Cu | 63 | 72 | 1 | No Gas | 0.801 | ug/l | 15845.15 |
| Cu | 63 | 72 | 3 | He | 0.462 | ug/l | 3392.39 |
| Cu | 65 | 72 | 1 | No Gas | 0.512 | ug/l | 5303.80 |
| Zn | 66 | 72 | 1 | No Gas | 0.548 | ug/l | 4232.39 |
| Zn | 66 | 72 | 3 | He | 0.543 | ug/l | 894.48 |
| As | 75 | 72 | 1 | No Gas | -0.021 | ug/l | 13862.14 |
| As | 75 | 72 | 3 | He | -0.143 | ug/l | 125.87 |
| Se | 78 | 72 | 2 | H2 | 0.152 | ug/l | 134.22 |
| Br | 79 | 72 | 1 | No Gas | 10.369 | ug/l | 211770.84 |
| Br | 79 | 72 | 2 | H2 | 9.806 | ug/l | 109439.23 |
| Se | 82 | 72 | 1 | No Gas | 0.866 | ug/l | 1077.98 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 58642.58 |
| Sr | 88 | 72 | 1 | No Gas | 114.708 | ug/l | 5753209.98 |
| Sr | 88 | 72 | 3 | He | 111.302 | ug/l | 616014.63 |
| Mo | 95 | 115 | 1 | No Gas | 0.094 | ug/l | 1110.05 |
| Mo | 95 | 115 | 3 | He | 0.096 | ug/l | 395.56 |
| Mo | 98 | 115 | 1 | No Gas | 0.089 | ug/l | 1717.40 |
| Ag | 107 | 115 | 1 | No Gas | -0.064 | ug/l | 112.71 |
| Ag | 109 | 115 | 1 | No Gas | -0.062 | ug/l | 103.38 |
| Cd | 111 | 115 | 1 | No Gas | 0.020 | ug/l | 122.42 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Cd | 111 | 115 | 3 | He | 0.016 | ug/l | 38.67 |
| Cd | 114 | 115 | 1 | No Gas | 0.029 | ug/l | 230.83 |
| Cd | 114 | 115 | 3 | He | 0.015 | ug/l | 89.38 |
| Sn | 118 | 115 | 1 | No Gas | -0.070 | ug/l | 2019.48 |
| Sn | 118 | 115 | 3 | He | -0.086 | ug/l | 475.57 |
| Sb | 121 | 115 | 1 | No Gas | 0.065 | ug/l | 2818.57 |
| Sb | 121 | 115 | 3 | He | 0.072 | ug/l | 739.43 |
| Sb | 123 | 115 | 1 | No Gas | 0.064 | ug/l | 2115.37 |
| Sb | 123 | 115 | 3 | He | 0.072 | ug/l | 583.07 |
| Ba | 135 | 115 | 1 | No Gas | 21.077 | ug/l | 118690.64 |
| Ba | 137 | 115 | 1 | No Gas | 20.801 | ug/l | 208266.70 |
| La | 139 | 115 | 3 | He | 0.023 | ug/l | 644.47 |
| Ce | 140 | 115 | 3 | He | 0.092 | ug/l | 2732.51 |
| Hg | 201 | 209 | 1 | No Gas | 0.007 | ug/l | 53.66 |
| Hg | 202 | 209 | 1 | No Gas | 0.023 | ug/l | 283.95 |
| Hg | 202 | 209 | 3 | He | 0.019 | ug/l | 98.98 |
| Tl | 203 | 209 | 3 | He | 0.015 | ug/l | 676.29 |
| Tl | 205 | 209 | 1 | No Gas | 0.012 | ug/l | 3035.92 |
| Tl | 205 | 209 | 3 | He | 0.010 | ug/l | 1548.71 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.023 | ug/l | 950.04 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.021 | ug/l | 790.03 |
| Pb | 208 | 209 | 1 | No Gas | 0.021 | ug/l | 3752.46 |
| Th | 232 | 209 | 3 | He | -0.006 | ug/l | 296.12 |
| U | 238 | 209 | 1 | No Gas | 0.022 | ug/l | 1617.92 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5549381.54 | 98.4 |
| Sc | 45 | 2 | H2 | 2724869.62 | 99.3 |
| Sc | 45 | 3 | He | 297212.88 | 93.3 |
| Ge | 72 | 1 | No Gas | 1471301.71 | 97.3 |
| Ge | 72 | 2 | H2 | 1007279.49 | 101.5 |
| Ge | 72 | 3 | He | 219240.70 | 98.5 |
| In | 115 | 1 | No Gas | 12574712.17 | 103.3 |
| In | 115 | 3 | He | 2608784.70 | 99.0 |
| Tb | 159 | 1 | No Gas | 17402601.57 | 106.5 |
| Tb | 159 | 3 | He | 7183873.25 | 105.1 |
| Ho | 165 | 1 | No Gas | 16564151.90 | 108.6 |
| Ho | 165 | 3 | He | 6994544.40 | 105.7 |
| Lu | 175 | 1 | No Gas | 17106676.70 | 109.9 |
| Lu | 175 | 3 | He | 5649389.45 | 105.5 |
| Bi | 209 | 1 | No Gas | 10668487.55 | 94.2 |
| Bi | 209 | 3 | He | 4426308.01 | 88.3 |

ICPMS207-B Analytical Data

Sample Name B22011137-001B
File Name 093SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 01:36:28
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 1.780 | ug/l | 23749.41 |
| Be | 9 | 45 | 1 | No Gas | -0.043 | ug/l | 58.66 |
| B | 11 | 45 | 1 | No Gas | 65.440 | ug/l | 116215.49 |
| Na | 23 | 45 | 3 | He | 49704.005 | ug/l | 29621523.72 |
| Mg | 24 | 45 | 3 | He | 26711.787 | ug/l | 8771169.14 |
| Al | 27 | 45 | 1 | No Gas | 81.006 | ug/l | 1295817.72 |
| Si | 28 | 45 | 2 | H2 | 31414.934 | ug/l | 54375078.11 |
| K | 39 | 72 | 3 | He | 2145.373 | ug/l | 877864.57 |
| Ca | 40 | 72 | 2 | H2 | 13454.094 | ug/l | 90494470.45 |
| Ti | 47 | 72 | 1 | No Gas | 10.630 | ug/l | 22100.49 |
| V | 51 | 72 | 1 | No Gas | 8.295 | ug/l | 162892.16 |
| V | 51 | 72 | 3 | He | 4.879 | ug/l | 30458.38 |
| Cr | 52 | 72 | 1 | No Gas | 1.497 | ug/l | 116226.12 |
| Cr | 52 | 72 | 3 | He | 0.708 | ug/l | 3713.83 |
| Mn | 55 | 72 | 1 | No Gas | 1730.974 | ug/l | 54641770.36 |
| Mn | 55 | 72 | 3 | He | 1773.104 | ug/l | 4931133.32 |
| Fe | 56 | 72 | 2 | H2 | 2979.655 | ug/l | 45877911.71 |
| Fe | 56 | 72 | 3 | He | 2819.695 | ug/l | 10714395.48 |
| Co | 59 | 72 | 1 | No Gas | 0.353 | ug/l | 9893.72 |
| Ni | 60 | 72 | 1 | No Gas | 0.738 | ug/l | 4897.78 |
| Ni | 60 | 72 | 3 | He | 0.715 | ug/l | 1337.85 |
| Cu | 63 | 72 | 1 | No Gas | 2.804 | ug/l | 42713.51 |
| Cu | 63 | 72 | 3 | He | 2.630 | ug/l | 12743.69 |
| Cu | 65 | 72 | 1 | No Gas | 2.469 | ug/l | 18593.34 |
| Zn | 66 | 72 | 1 | No Gas | 2.273 | ug/l | 12173.33 |
| Zn | 66 | 72 | 3 | He | 2.309 | ug/l | 2424.67 |
| As | 75 | 72 | 1 | No Gas | 0.443 | ug/l | 14484.62 |
| As | 75 | 72 | 3 | He | 0.146 | ug/l | 342.60 |
| Se | 78 | 72 | 2 | H2 | 0.078 | ug/l | 72.56 |
| Br | 79 | 72 | 1 | No Gas | 8.468 | ug/l | 157256.20 |
| Br | 79 | 72 | 2 | H2 | 7.707 | ug/l | 79014.72 |
| Se | 82 | 72 | 1 | No Gas | 0.436 | ug/l | 766.62 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 51002.29 |
| Sr | 88 | 72 | 1 | No Gas | 114.896 | ug/l | 4877183.78 |
| Sr | 88 | 72 | 3 | He | 111.547 | ug/l | 487100.51 |
| Mo | 95 | 115 | 1 | No Gas | 0.505 | ug/l | 4846.41 |
| Mo | 95 | 115 | 3 | He | 0.530 | ug/l | 1721.23 |
| Mo | 98 | 115 | 1 | No Gas | 0.498 | ug/l | 7769.46 |
| Ag | 107 | 115 | 1 | No Gas | -0.017 | ug/l | 1226.55 |
| Ag | 109 | 115 | 1 | No Gas | -0.014 | ug/l | 1207.87 |
| Cd | 111 | 115 | 1 | No Gas | 0.009 | ug/l | 44.93 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Cd | 111 | 115 | 3 | He | 0.004 | ug/l | 11.45 |
| Cd | 114 | 115 | 1 | No Gas | 0.012 | ug/l | -7.92 |
| Cd | 114 | 115 | 3 | He | 0.001 | ug/l | 16.57 |
| Sn | 118 | 115 | 1 | No Gas | 0.443 | ug/l | 9700.79 |
| Sn | 118 | 115 | 3 | He | 0.482 | ug/l | 2629.15 |
| Sb | 121 | 115 | 1 | No Gas | 0.369 | ug/l | 9837.09 |
| Sb | 121 | 115 | 3 | He | 0.363 | ug/l | 2394.44 |
| Sb | 123 | 115 | 1 | No Gas | 0.364 | ug/l | 7466.40 |
| Sb | 123 | 115 | 3 | He | 0.378 | ug/l | 1965.67 |
| Ba | 135 | 115 | 1 | No Gas | 21.426 | ug/l | 102841.00 |
| Ba | 137 | 115 | 1 | No Gas | 21.293 | ug/l | 181697.68 |
| La | 139 | 115 | 3 | He | 0.067 | ug/l | 1504.54 |
| Ce | 140 | 115 | 3 | He | 0.242 | ug/l | 5916.86 |
| Hg | 201 | 209 | 1 | No Gas | 0.007 | ug/l | 53.32 |
| Hg | 202 | 209 | 1 | No Gas | 0.035 | ug/l | 379.26 |
| Hg | 202 | 209 | 3 | He | 0.031 | ug/l | 157.30 |
| Tl | 203 | 209 | 3 | He | 0.025 | ug/l | 835.03 |
| Tl | 205 | 209 | 1 | No Gas | 0.018 | ug/l | 3329.34 |
| Tl | 205 | 209 | 3 | He | 0.022 | ug/l | 1964.27 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.212 | ug/l | 4208.47 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.200 | ug/l | 3479.37 |
| Pb | 208 | 209 | 1 | No Gas | 0.199 | ug/l | 16092.77 |
| Th | 232 | 209 | 3 | He | 0.016 | ug/l | 1092.49 |
| U | 238 | 209 | 1 | No Gas | 0.007 | ug/l | 567.23 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4221660.54 | 74.9 |
| Sc | 45 | 2 | H2 | 2290172.16 | 83.4 |
| Sc | 45 | 3 | He | 220200.94 | 69.1 |
| Ge | 72 | 1 | No Gas | 1245216.89 | 82.4 |
| Ge | 72 | 2 | H2 | 852543.16 | 85.9 |
| Ge | 72 | 3 | He | 173039.30 | 77.7 |
| In | 115 | 1 | No Gas | 10714458.44 | 88.0 |
| In | 115 | 3 | He | 2160611.32 | 82.0 |
| Tb | 159 | 1 | No Gas | 15514531.70 | 94.9 |
| Tb | 159 | 3 | He | 6466512.27 | 94.6 |
| Ho | 165 | 1 | No Gas | 14816260.32 | 97.2 |
| Ho | 165 | 3 | He | 6215200.29 | 94.0 |
| Lu | 175 | 1 | No Gas | 15244487.59 | 97.9 |
| Lu | 175 | 3 | He | 4884308.30 | 91.2 |
| Bi | 209 | 1 | No Gas | 10489611.74 | 92.6 |
| Bi | 209 | 3 | He | 4782346.33 | 95.4 |

ICPMS207-B Analytical Data

Sample Name B22011214-001A
File Name 094SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 01:42:42
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|--------------|
| Li | 7 | 45 | 1 | No Gas | 0.685 | ug/l | 20777.16 |
| Be | 9 | 45 | 1 | No Gas | -0.059 | ug/l | 19.67 |
| B | 11 | 45 | 1 | No Gas | 108.455 | ug/l | 238281.99 |
| Na | 23 | 45 | 3 | He | 76858.801 | ug/l | 59308083.56 |
| Mg | 24 | 45 | 3 | He | 24121.748 | ug/l | 10262547.88 |
| Al | 27 | 45 | 1 | No Gas | 1.889 | ug/l | 53289.24 |
| Si | 28 | 45 | 2 | H2 | 26675.191 | ug/l | 54126640.74 |
| K | 39 | 72 | 3 | He | 2995.475 | ug/l | 1471711.16 |
| Ca | 40 | 72 | 2 | H2 | 22690.391 | ug/l | 177155414.17 |
| Ti | 47 | 72 | 1 | No Gas | 1.592 | ug/l | 4064.67 |
| V | 51 | 72 | 1 | No Gas | 26.296 | ug/l | 730063.61 |
| V | 51 | 72 | 3 | He | 23.338 | ug/l | 122093.70 |
| Cr | 52 | 72 | 1 | No Gas | -1.362 | ug/l | 57317.84 |
| Cr | 52 | 72 | 3 | He | 0.701 | ug/l | 4521.83 |
| Mn | 55 | 72 | 1 | No Gas | 26.439 | ug/l | 989947.79 |
| Mn | 55 | 72 | 3 | He | 26.988 | ug/l | 92204.49 |
| Fe | 56 | 72 | 2 | H2 | 32.010 | ug/l | 582450.94 |
| Fe | 56 | 72 | 3 | He | 30.537 | ug/l | 147817.61 |
| Co | 59 | 72 | 1 | No Gas | 0.177 | ug/l | 6099.23 |
| Ni | 60 | 72 | 1 | No Gas | 1.133 | ug/l | 8562.26 |
| Ni | 60 | 72 | 3 | He | 1.069 | ug/l | 2409.10 |
| Cu | 63 | 72 | 1 | No Gas | 0.682 | ug/l | 13701.26 |
| Cu | 63 | 72 | 3 | He | 0.210 | ug/l | 1849.42 |
| Cu | 65 | 72 | 1 | No Gas | 0.264 | ug/l | 3172.29 |
| Zn | 66 | 72 | 1 | No Gas | 3.818 | ug/l | 23319.47 |
| Zn | 66 | 72 | 3 | He | 4.047 | ug/l | 5049.80 |
| As | 75 | 72 | 1 | No Gas | 6.340 | ug/l | 57982.50 |
| As | 75 | 72 | 3 | He | 6.550 | ug/l | 7026.08 |
| Se | 78 | 72 | 2 | H2 | 0.602 | ug/l | 422.56 |
| Br | 79 | 72 | 1 | No Gas | 31.979 | ug/l | 503757.95 |
| Br | 79 | 72 | 2 | H2 | 31.042 | ug/l | 267852.48 |
| Se | 82 | 72 | 1 | No Gas | 1.547 | ug/l | 1341.78 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 59856.25 |
| Sr | 88 | 72 | 1 | No Gas | 112.654 | ug/l | 5612752.45 |
| Sr | 88 | 72 | 3 | He | 108.274 | ug/l | 579913.47 |
| Mo | 95 | 115 | 1 | No Gas | 10.579 | ug/l | 117082.31 |
| Mo | 95 | 115 | 3 | He | 11.241 | ug/l | 42373.90 |
| Mo | 98 | 115 | 1 | No Gas | 10.511 | ug/l | 189425.26 |
| Ag | 107 | 115 | 1 | No Gas | -0.061 | ug/l | 197.41 |
| Ag | 109 | 115 | 1 | No Gas | -0.059 | ug/l | 167.40 |
| Cd | 111 | 115 | 1 | No Gas | 0.021 | ug/l | 128.90 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.014 | ug/l | 34.22 |
| Cd | 114 | 115 | 1 | No Gas | 0.031 | ug/l | 256.27 |
| Cd | 114 | 115 | 3 | He | 0.015 | ug/l | 84.01 |
| Sn | 118 | 115 | 1 | No Gas | 0.008 | ug/l | 3430.31 |
| Sn | 118 | 115 | 3 | He | -0.009 | ug/l | 814.48 |
| Sb | 121 | 115 | 1 | No Gas | 0.420 | ug/l | 12941.24 |
| Sb | 121 | 115 | 3 | He | 0.432 | ug/l | 3307.39 |
| Sb | 123 | 115 | 1 | No Gas | 0.413 | ug/l | 9788.39 |
| Sb | 123 | 115 | 3 | He | 0.438 | ug/l | 2641.18 |
| Ba | 135 | 115 | 1 | No Gas | 3.328 | ug/l | 18685.50 |
| Ba | 137 | 115 | 1 | No Gas | 3.290 | ug/l | 32827.19 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 27.78 |
| Ce | 140 | 115 | 3 | He | 0.002 | ug/l | 97.78 |
| Hg | 201 | 209 | 1 | No Gas | 0.158 | ug/l | 662.22 |
| Hg | 202 | 209 | 1 | No Gas | 3.098 | ug/l | 28438.24 |
| Hg | 202 | 209 | 3 | He | 2.404 | ug/l | 10532.38 |
| Tl | 203 | 209 | 3 | He | 0.009 | ug/l | 712.97 |
| Tl | 205 | 209 | 1 | No Gas | -0.006 | ug/l | 2354.67 |
| Tl | 205 | 209 | 3 | He | -0.010 | ug/l | 1235.22 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.005 | ug/l | 692.25 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.003 | ug/l | 564.46 |
| Pb | 208 | 209 | 1 | No Gas | 0.003 | ug/l | 2716.80 |
| Th | 232 | 209 | 3 | He | -0.009 | ug/l | 219.42 |
| U | 238 | 209 | 1 | No Gas | 0.332 | ug/l | 25702.68 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5295074.36 | 93.9 |
| Sc | 45 | 2 | H2 | 2684604.70 | 97.8 |
| Sc | 45 | 3 | He | 285243.21 | 89.6 |
| Ge | 72 | 1 | No Gas | 1461296.87 | 96.7 |
| Ge | 72 | 2 | H2 | 989975.38 | 99.8 |
| Ge | 72 | 3 | He | 212209.11 | 95.3 |
| In | 115 | 1 | No Gas | 12497329.21 | 102.7 |
| In | 115 | 3 | He | 2533554.80 | 96.1 |
| Tb | 159 | 1 | No Gas | 17373050.77 | 106.3 |
| Tb | 159 | 3 | He | 7025789.24 | 102.8 |
| Ho | 165 | 1 | No Gas | 16583462.05 | 108.7 |
| Ho | 165 | 3 | He | 6800072.23 | 102.8 |
| Lu | 175 | 1 | No Gas | 16857515.05 | 108.3 |
| Lu | 175 | 3 | He | 5582430.15 | 104.2 |
| Bi | 209 | 1 | No Gas | 11657578.83 | 103.0 |
| Bi | 209 | 3 | He | 5081585.85 | 101.4 |

ICPMS207-B Analytical Data

Sample Name B22011214-001B
File Name 095SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 01:48:57
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|--------------|
| Li | 7 | 45 | 1 | No Gas | 1.324 | ug/l | 20003.81 |
| Be | 9 | 45 | 1 | No Gas | -0.054 | ug/l | 27.66 |
| B | 11 | 45 | 1 | No Gas | 86.952 | ug/l | 147561.30 |
| Na | 23 | 45 | 3 | He | 76020.545 | ug/l | 45097622.11 |
| Mg | 24 | 45 | 3 | He | 23234.855 | ug/l | 7600020.88 |
| Al | 27 | 45 | 1 | No Gas | 60.157 | ug/l | 930596.22 |
| Si | 28 | 45 | 2 | H2 | 25151.604 | ug/l | 42464183.70 |
| K | 39 | 72 | 3 | He | 2362.114 | ug/l | 958185.27 |
| Ca | 40 | 72 | 2 | H2 | 21664.288 | ug/l | 146756951.78 |
| Ti | 47 | 72 | 1 | No Gas | 6.146 | ug/l | 12635.22 |
| V | 51 | 72 | 1 | No Gas | 32.821 | ug/l | 774000.21 |
| V | 51 | 72 | 3 | He | 38.355 | ug/l | 155443.54 |
| Cr | 52 | 72 | 1 | No Gas | 4.452 | ug/l | 182815.18 |
| Cr | 52 | 72 | 3 | He | 3.263 | ug/l | 14634.03 |
| Mn | 55 | 72 | 1 | No Gas | 8.999 | ug/l | 288190.55 |
| Mn | 55 | 72 | 3 | He | 8.747 | ug/l | 24399.98 |
| Fe | 56 | 72 | 2 | H2 | 172.072 | ug/l | 2677768.82 |
| Fe | 56 | 72 | 3 | He | 160.601 | ug/l | 613208.72 |
| Co | 59 | 72 | 1 | No Gas | 0.268 | ug/l | 7493.79 |
| Ni | 60 | 72 | 1 | No Gas | 1.519 | ug/l | 9487.61 |
| Ni | 60 | 72 | 3 | He | 1.608 | ug/l | 2910.30 |
| Cu | 63 | 72 | 1 | No Gas | 1.811 | ug/l | 27731.43 |
| Cu | 63 | 72 | 3 | He | 1.405 | ug/l | 7043.62 |
| Cu | 65 | 72 | 1 | No Gas | 1.377 | ug/l | 10547.40 |
| Zn | 66 | 72 | 1 | No Gas | 25.959 | ug/l | 127947.80 |
| Zn | 66 | 72 | 3 | He | 28.295 | ug/l | 27678.58 |
| As | 75 | 72 | 1 | No Gas | 7.534 | ug/l | 55426.64 |
| As | 75 | 72 | 3 | He | 6.696 | ug/l | 5839.85 |
| Se | 78 | 72 | 2 | H2 | 0.774 | ug/l | 463.00 |
| Br | 79 | 72 | 1 | No Gas | 10.966 | ug/l | 183051.22 |
| Br | 79 | 72 | 2 | H2 | 10.059 | ug/l | 95009.44 |
| Se | 82 | 72 | 1 | No Gas | 0.625 | ug/l | 817.96 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 45187.89 |
| Sr | 88 | 72 | 1 | No Gas | 110.818 | ug/l | 4627013.12 |
| Sr | 88 | 72 | 3 | He | 107.244 | ug/l | 467470.48 |
| Mo | 95 | 115 | 1 | No Gas | 8.346 | ug/l | 78465.83 |
| Mo | 95 | 115 | 3 | He | 8.611 | ug/l | 27502.16 |
| Mo | 98 | 115 | 1 | No Gas | 8.281 | ug/l | 126762.35 |
| Ag | 107 | 115 | 1 | No Gas | 0.503 | ug/l | 13724.83 |
| Ag | 109 | 115 | 1 | No Gas | 0.504 | ug/l | 13300.26 |
| Cd | 111 | 115 | 1 | No Gas | 0.013 | ug/l | 65.48 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.009 | ug/l | 21.22 |
| Cd | 114 | 115 | 1 | No Gas | 0.021 | ug/l | 95.62 |
| Cd | 114 | 115 | 3 | He | 0.005 | ug/l | 29.99 |
| Sn | 118 | 115 | 1 | No Gas | 0.863 | ug/l | 16067.32 |
| Sn | 118 | 115 | 3 | He | 0.925 | ug/l | 4341.81 |
| Sb | 121 | 115 | 1 | No Gas | 0.634 | ug/l | 16185.57 |
| Sb | 121 | 115 | 3 | He | 0.645 | ug/l | 4097.34 |
| Sb | 123 | 115 | 1 | No Gas | 0.632 | ug/l | 12390.03 |
| Sb | 123 | 115 | 3 | He | 0.643 | ug/l | 3222.37 |
| Ba | 135 | 115 | 1 | No Gas | 3.349 | ug/l | 15970.90 |
| Ba | 137 | 115 | 1 | No Gas | 3.181 | ug/l | 26959.42 |
| La | 139 | 115 | 3 | He | 0.035 | ug/l | 792.25 |
| Ce | 140 | 115 | 3 | He | 0.085 | ug/l | 2081.28 |
| Hg | 201 | 209 | 1 | No Gas | 0.241 | ug/l | 877.86 |
| Hg | 202 | 209 | 1 | No Gas | 4.398 | ug/l | 35737.25 |
| Hg | 202 | 209 | 3 | He | 3.147 | ug/l | 12800.59 |
| Tl | 203 | 209 | 3 | He | 0.035 | ug/l | 933.74 |
| Tl | 205 | 209 | 1 | No Gas | 0.010 | ug/l | 2889.22 |
| Tl | 205 | 209 | 3 | He | 0.018 | ug/l | 1828.86 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.263 | ug/l | 5009.86 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.253 | ug/l | 4216.25 |
| Pb | 208 | 209 | 1 | No Gas | 0.253 | ug/l | 19546.83 |
| Th | 232 | 209 | 3 | He | 0.008 | ug/l | 827.03 |
| U | 238 | 209 | 1 | No Gas | 0.368 | ug/l | 25252.93 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4067968.80 | 72.1 |
| Sc | 45 | 2 | H2 | 2233711.04 | 81.4 |
| Sc | 45 | 3 | He | 219289.27 | 68.9 |
| Ge | 72 | 1 | No Gas | 1224701.23 | 81.0 |
| Ge | 72 | 2 | H2 | 858969.32 | 86.6 |
| Ge | 72 | 3 | He | 172674.26 | 77.5 |
| In | 115 | 1 | No Gas | 10612722.65 | 87.2 |
| In | 115 | 3 | He | 2146224.14 | 81.4 |
| Tb | 159 | 1 | No Gas | 15014754.12 | 91.9 |
| Tb | 159 | 3 | He | 6363203.14 | 93.1 |
| Ho | 165 | 1 | No Gas | 14848984.92 | 97.4 |
| Ho | 165 | 3 | He | 6142664.01 | 92.9 |
| Lu | 175 | 1 | No Gas | 15337763.37 | 98.5 |
| Lu | 175 | 3 | He | 4970290.53 | 92.8 |
| Bi | 209 | 1 | No Gas | 10330774.82 | 91.2 |
| Bi | 209 | 3 | He | 4721149.36 | 94.2 |

ICPMS207-B Analytical Data

Sample Name B22011214-001BDIL
File Name 096SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 01:55:13
Sample Type Sample
Total Dilution 5.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 1.157 | ug/l | 13629.56 |
| Be | 9 | 45 | 1 | No Gas | -0.284 | ug/l | 20.67 |
| B | 11 | 45 | 1 | No Gas | 92.371 | ug/l | 35940.89 |
| Na | 23 | 45 | 3 | He | 74942.735 | ug/l | 9214721.88 |
| Mg | 24 | 45 | 3 | He | 23551.040 | ug/l | 1593149.96 |
| Al | 27 | 45 | 1 | No Gas | 62.555 | ug/l | 211397.83 |
| Si | 28 | 45 | 2 | H2 | 24217.937 | ug/l | 8384468.51 |
| K | 39 | 72 | 3 | He | 2191.136 | ug/l | 241073.72 |
| Ca | 40 | 72 | 2 | H2 | 21759.400 | ug/l | 30271837.44 |
| Ti | 47 | 72 | 1 | No Gas | 5.858 | ug/l | 2659.59 |
| V | 51 | 72 | 1 | No Gas | 50.735 | ug/l | 215412.98 |
| V | 51 | 72 | 3 | He | 40.991 | ug/l | 44754.87 |
| Cr | 52 | 72 | 1 | No Gas | 3.070 | ug/l | 97704.13 |
| Cr | 52 | 72 | 3 | He | 3.450 | ug/l | 3796.07 |
| Mn | 55 | 72 | 1 | No Gas | 9.356 | ug/l | 69743.65 |
| Mn | 55 | 72 | 3 | He | 8.645 | ug/l | 5148.21 |
| Fe | 56 | 72 | 2 | H2 | 168.714 | ug/l | 545286.67 |
| Fe | 56 | 72 | 3 | He | 158.530 | ug/l | 130488.47 |
| Co | 59 | 72 | 1 | No Gas | 0.249 | ug/l | 1839.80 |
| Ni | 60 | 72 | 1 | No Gas | 1.623 | ug/l | 2442.03 |
| Ni | 60 | 72 | 3 | He | 1.706 | ug/l | 710.02 |
| Cu | 63 | 72 | 1 | No Gas | 3.774 | ug/l | 13042.41 |
| Cu | 63 | 72 | 3 | He | 3.482 | ug/l | 3929.75 |
| Cu | 65 | 72 | 1 | No Gas | 3.346 | ug/l | 5761.46 |
| Zn | 66 | 72 | 1 | No Gas | 27.665 | ug/l | 29091.75 |
| Zn | 66 | 72 | 3 | He | 29.894 | ug/l | 6263.60 |
| As | 75 | 72 | 1 | No Gas | 8.356 | ug/l | 22274.47 |
| As | 75 | 72 | 3 | He | 6.450 | ug/l | 1362.24 |
| Se | 78 | 72 | 2 | H2 | 0.756 | ug/l | 116.89 |
| Br | 79 | 72 | 1 | No Gas | 267.305 | ug/l | 694044.57 |
| Br | 79 | 72 | 2 | H2 | 272.123 | ug/l | 394913.77 |
| Se | 82 | 72 | 1 | No Gas | 3.956 | ug/l | 907.96 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 23749.15 |
| Sr | 88 | 72 | 1 | No Gas | 110.032 | ug/l | 957172.68 |
| Sr | 88 | 72 | 3 | He | 101.920 | ug/l | 93101.90 |
| Mo | 95 | 115 | 1 | No Gas | 8.083 | ug/l | 16069.14 |
| Mo | 95 | 115 | 3 | He | 8.547 | ug/l | 5765.64 |
| Mo | 98 | 115 | 1 | No Gas | 8.120 | ug/l | 26286.69 |
| Ag | 107 | 115 | 1 | No Gas | 0.248 | ug/l | 2973.51 |
| Ag | 109 | 115 | 1 | No Gas | 0.247 | ug/l | 2831.43 |
| Cd | 111 | 115 | 1 | No Gas | 0.035 | ug/l | 37.19 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.008 | ug/l | 8.33 |
| Cd | 114 | 115 | 1 | No Gas | 0.081 | ug/l | 45.84 |
| Cd | 114 | 115 | 3 | He | 0.006 | ug/l | 17.01 |
| Sn | 118 | 115 | 1 | No Gas | 0.872 | ug/l | 5763.10 |
| Sn | 118 | 115 | 3 | He | 0.955 | ug/l | 1551.21 |
| Sb | 121 | 115 | 1 | No Gas | 0.578 | ug/l | 3800.90 |
| Sb | 121 | 115 | 3 | He | 0.612 | ug/l | 965.13 |
| Sb | 123 | 115 | 1 | No Gas | 0.604 | ug/l | 3006.96 |
| Sb | 123 | 115 | 3 | He | 0.577 | ug/l | 724.76 |
| Ba | 135 | 115 | 1 | No Gas | 3.128 | ug/l | 3197.38 |
| Ba | 137 | 115 | 1 | No Gas | 3.238 | ug/l | 5862.97 |
| La | 139 | 115 | 3 | He | 0.034 | ug/l | 180.00 |
| Ce | 140 | 115 | 3 | He | 0.093 | ug/l | 503.35 |
| Hg | 201 | 209 | 1 | No Gas | 0.205 | ug/l | 193.29 |
| Hg | 202 | 209 | 1 | No Gas | 3.938 | ug/l | 7299.55 |
| Hg | 202 | 209 | 3 | He | 3.003 | ug/l | 2582.74 |
| Tl | 203 | 209 | 3 | He | -0.024 | ug/l | 538.23 |
| Tl | 205 | 209 | 1 | No Gas | -0.046 | ug/l | 2185.75 |
| Tl | 205 | 209 | 3 | He | -0.047 | ug/l | 1218.55 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.247 | ug/l | 1552.33 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.246 | ug/l | 1344.52 |
| Pb | 208 | 209 | 1 | No Gas | 0.240 | ug/l | 6206.17 |
| Th | 232 | 209 | 3 | He | -0.037 | ug/l | 289.45 |
| U | 238 | 209 | 1 | No Gas | 0.347 | ug/l | 5450.38 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4234548.72 | 75.1 |
| Sc | 45 | 2 | H2 | 2288994.90 | 83.4 |
| Sc | 45 | 3 | He | 226616.65 | 71.2 |
| Ge | 72 | 1 | No Gas | 1275047.07 | 84.3 |
| Ge | 72 | 2 | H2 | 880029.04 | 88.7 |
| Ge | 72 | 3 | He | 180656.05 | 81.1 |
| In | 115 | 1 | No Gas | 11193906.86 | 92.0 |
| In | 115 | 3 | He | 2260246.88 | 85.8 |
| Tb | 159 | 1 | No Gas | 16341817.70 | 100.0 |
| Tb | 159 | 3 | He | 6555860.63 | 95.9 |
| Ho | 165 | 1 | No Gas | 15624254.33 | 102.5 |
| Ho | 165 | 3 | He | 6362530.69 | 96.2 |
| Lu | 175 | 1 | No Gas | 16112490.46 | 103.5 |
| Lu | 175 | 3 | He | 5126145.39 | 95.7 |
| Bi | 209 | 1 | No Gas | 11656881.77 | 103.0 |
| Bi | 209 | 3 | He | 4943367.45 | 98.6 |

ICPMS207-B Analytical Data

Sample Name B22011214-001BPDS1
File Name 097ARef.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 02:01:28
Sample Type AIRRef
Total Dilution 1.0300
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|--------------|
| Li | 7 | 45 | 1 | No Gas | 1.488 | ug/l | 20485.29 |
| Be | 9 | 45 | 1 | No Gas | 37.226 | ug/l | 96086.48 |
| B | 11 | 45 | 1 | No Gas | 130.039 | ug/l | 209730.29 |
| Na | 23 | 45 | 3 | He | 74190.409 | ug/l | 42958782.42 |
| Mg | 24 | 45 | 3 | He | 23633.962 | ug/l | 7545594.89 |
| Al | 27 | 45 | 1 | No Gas | 111.796 | ug/l | 1648821.94 |
| Si | 28 | 45 | 2 | H2 | 26560.828 | ug/l | 42297580.06 |
| K | 39 | 72 | 3 | He | 2437.899 | ug/l | 964495.06 |
| Ca | 40 | 72 | 2 | H2 | 21877.212 | ug/l | 143177098.72 |
| Ti | 47 | 72 | 1 | No Gas | 46.282 | ug/l | 92617.70 |
| V | 51 | 72 | 1 | No Gas | 80.127 | ug/l | 1930568.00 |
| V | 51 | 72 | 3 | He | 88.530 | ug/l | 334816.66 |
| Cr | 52 | 72 | 1 | No Gas | 49.548 | ug/l | 1211837.14 |
| Cr | 52 | 72 | 3 | He | 51.340 | ug/l | 214789.12 |
| Mn | 55 | 72 | 1 | No Gas | 54.292 | ug/l | 1669107.72 |
| Mn | 55 | 72 | 3 | He | 56.891 | ug/l | 154164.25 |
| Fe | 56 | 72 | 2 | H2 | 223.589 | ug/l | 3359159.98 |
| Fe | 56 | 72 | 3 | He | 214.218 | ug/l | 796911.77 |
| Co | 59 | 72 | 1 | No Gas | 45.680 | ug/l | 1181758.49 |
| Ni | 60 | 72 | 1 | No Gas | 45.674 | ug/l | 269262.05 |
| Ni | 60 | 72 | 3 | He | 51.730 | ug/l | 88963.03 |
| Cu | 63 | 72 | 1 | No Gas | 47.430 | ug/l | 673764.69 |
| Cu | 63 | 72 | 3 | He | 52.312 | ug/l | 237052.12 |
| Cu | 65 | 72 | 1 | No Gas | 46.823 | ug/l | 327599.70 |
| Zn | 66 | 72 | 1 | No Gas | 72.215 | ug/l | 349187.30 |
| Zn | 66 | 72 | 3 | He | 78.042 | ug/l | 74177.98 |
| As | 75 | 72 | 1 | No Gas | 54.337 | ug/l | 323397.35 |
| As | 75 | 72 | 3 | He | 56.584 | ug/l | 46556.37 |
| Se | 78 | 72 | 2 | H2 | 52.181 | ug/l | 28241.56 |
| Br | 79 | 72 | 1 | No Gas | 13.613 | ug/l | 211677.74 |
| Br | 79 | 72 | 2 | H2 | 12.942 | ug/l | 110839.00 |
| Se | 82 | 72 | 1 | No Gas | 49.350 | ug/l | 16811.43 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 58682.83 |
| Sr | 88 | 72 | 1 | No Gas | 162.416 | ug/l | 6677777.90 |
| Sr | 88 | 72 | 3 | He | 160.677 | ug/l | 683071.24 |
| Mo | 95 | 115 | 1 | No Gas | 56.888 | ug/l | 507871.06 |
| Mo | 95 | 115 | 3 | He | 59.430 | ug/l | 180860.20 |
| Mo | 98 | 115 | 1 | No Gas | 56.629 | ug/l | 823011.06 |
| Ag | 107 | 115 | 1 | No Gas | 20.309 | ug/l | 465874.12 |
| Ag | 109 | 115 | 1 | No Gas | 20.146 | ug/l | 448532.53 |
| Cd | 111 | 115 | 1 | No Gas | 49.791 | ug/l | 256677.88 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Cd | 111 | 115 | 3 | He | 51.386 | ug/l | 82524.68 |
| Cd | 114 | 115 | 1 | No Gas | 51.116 | ug/l | 582663.83 |
| Cd | 114 | 115 | 3 | He | 51.936 | ug/l | 204775.29 |
| Sn | 118 | 115 | 1 | No Gas | 51.648 | ug/l | 757422.80 |
| Sn | 118 | 115 | 3 | He | 53.462 | ug/l | 199881.20 |
| Sb | 121 | 115 | 1 | No Gas | 53.099 | ug/l | 1225015.30 |
| Sb | 121 | 115 | 3 | He | 52.215 | ug/l | 302908.70 |
| Sb | 123 | 115 | 1 | No Gas | 52.313 | ug/l | 928677.62 |
| Sb | 123 | 115 | 3 | He | 51.985 | ug/l | 238321.15 |
| Ba | 135 | 115 | 1 | No Gas | 56.367 | ug/l | 254474.56 |
| Ba | 137 | 115 | 1 | No Gas | 56.519 | ug/l | 453712.14 |
| La | 139 | 115 | 3 | He | 0.040 | ug/l | 855.59 |
| Ce | 140 | 115 | 3 | He | 56.581 | ug/l | 1304891.79 |
| Hg | 201 | 209 | 1 | No Gas | 1.275 | ug/l | 4540.21 |
| Hg | 202 | 209 | 1 | No Gas | 5.588 | ug/l | 45424.26 |
| Hg | 202 | 209 | 3 | He | 4.383 | ug/l | 17019.75 |
| Tl | 203 | 209 | 3 | He | 51.083 | ug/l | 509616.19 |
| Tl | 205 | 209 | 1 | No Gas | 52.969 | ug/l | 2567073.97 |
| Tl | 205 | 209 | 3 | He | 51.980 | ug/l | 1228789.29 |
| [Pb] | 206 | 209 | 1 | No Gas | 52.492 | ug/l | 893713.62 |
| [Pb] | 207 | 209 | 1 | No Gas | 52.508 | ug/l | 781336.05 |
| Pb | 208 | 209 | 1 | No Gas | 52.709 | ug/l | 3622232.31 |
| Th | 232 | 209 | 3 | He | 53.450 | ug/l | 1779449.22 |
| U | 238 | 209 | 1 | No Gas | 54.711 | ug/l | 3740424.50 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4017556.27 | 71.3 |
| Sc | 45 | 2 | H2 | 2170312.76 | 79.1 |
| Sc | 45 | 3 | He | 220391.22 | 69.2 |
| Ge | 72 | 1 | No Gas | 1242318.76 | 82.2 |
| Ge | 72 | 2 | H2 | 854884.82 | 86.1 |
| Ge | 72 | 3 | He | 173521.61 | 77.9 |
| In | 115 | 1 | No Gas | 10386823.93 | 85.3 |
| In | 115 | 3 | He | 2106984.15 | 79.9 |
| Tb | 159 | 1 | No Gas | 15402938.02 | 94.3 |
| Tb | 159 | 3 | He | 6238989.08 | 91.3 |
| Ho | 165 | 1 | No Gas | 14578895.26 | 95.6 |
| Ho | 165 | 3 | He | 6165230.48 | 93.2 |
| Lu | 175 | 1 | No Gas | 15142614.27 | 97.3 |
| Lu | 175 | 3 | He | 5009886.95 | 93.5 |
| Bi | 209 | 1 | No Gas | 10646327.56 | 94.0 |
| Bi | 209 | 3 | He | 4645394.15 | 92.7 |

ICPMS207-B Analytical Data

Sample Name B22011214-001BMS4
File Name 098MS4.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 02:07:43
Sample Type MS4
Total Dilution 1.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|--------------|
| Li | 7 | 45 | 1 | No Gas | 67.106 | ug/l | 449176.90 |
| Be | 9 | 45 | 1 | No Gas | 37.669 | ug/l | 104419.32 |
| B | 11 | 45 | 1 | No Gas | 171.168 | ug/l | 295120.55 |
| Na | 23 | 45 | 3 | He | 80803.235 | ug/l | 49228782.04 |
| Mg | 24 | 45 | 3 | He | 29298.823 | ug/l | 9839626.62 |
| Al | 27 | 45 | 1 | No Gas | 481.559 | ug/l | 7585575.72 |
| Si | 28 | 45 | 2 | H2 | 28828.280 | ug/l | 47405729.87 |
| K | 39 | 72 | 3 | He | 6899.272 | ug/l | 2759349.70 |
| Ca | 40 | 72 | 2 | H2 | 26962.149 | ug/l | 181683555.49 |
| Ti | 47 | 72 | 1 | No Gas | 86.395 | ug/l | 181120.63 |
| V | 51 | 72 | 1 | No Gas | 118.901 | ug/l | 3030992.01 |
| V | 51 | 72 | 3 | He | 137.063 | ug/l | 540924.99 |
| Cr | 52 | 72 | 1 | No Gas | 93.884 | ug/l | 2330047.62 |
| Cr | 52 | 72 | 3 | He | 100.233 | ug/l | 443015.90 |
| Mn | 55 | 72 | 1 | No Gas | 464.115 | ug/l | 14889082.01 |
| Mn | 55 | 72 | 3 | He | 481.977 | ug/l | 1380426.88 |
| Fe | 56 | 72 | 2 | H2 | 686.960 | ug/l | 10607803.26 |
| Fe | 56 | 72 | 3 | He | 641.405 | ug/l | 2513504.35 |
| Co | 59 | 72 | 1 | No Gas | 88.202 | ug/l | 2392044.90 |
| Ni | 60 | 72 | 1 | No Gas | 88.410 | ug/l | 546200.38 |
| Ni | 60 | 72 | 3 | He | 96.270 | ug/l | 175105.35 |
| Cu | 63 | 72 | 1 | No Gas | 91.738 | ug/l | 1365072.81 |
| Cu | 63 | 72 | 3 | He | 100.853 | ug/l | 482861.83 |
| Cu | 65 | 72 | 1 | No Gas | 90.276 | ug/l | 661568.52 |
| Zn | 66 | 72 | 1 | No Gas | 115.109 | ug/l | 583232.51 |
| Zn | 66 | 72 | 3 | He | 123.980 | ug/l | 124522.50 |
| As | 75 | 72 | 1 | No Gas | 97.872 | ug/l | 600674.47 |
| As | 75 | 72 | 3 | He | 104.910 | ug/l | 91099.90 |
| Se | 78 | 72 | 2 | H2 | 103.643 | ug/l | 57731.08 |
| Br | 79 | 72 | 1 | No Gas | 9.051 | ug/l | 166562.37 |
| Br | 79 | 72 | 2 | H2 | 8.702 | ug/l | 85679.13 |
| Se | 82 | 72 | 1 | No Gas | 95.010 | ug/l | 33325.52 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 75668.05 |
| Sr | 88 | 72 | 1 | No Gas | 208.313 | ug/l | 8982661.58 |
| Sr | 88 | 72 | 3 | He | 209.270 | ug/l | 940966.19 |
| Mo | 95 | 115 | 1 | No Gas | 101.948 | ug/l | 941047.85 |
| Mo | 95 | 115 | 3 | He | 111.676 | ug/l | 349250.80 |
| Mo | 98 | 115 | 1 | No Gas | 106.184 | ug/l | 1596057.15 |
| Ag | 107 | 115 | 1 | No Gas | 9.718 | ug/l | 231346.36 |
| Ag | 109 | 115 | 1 | No Gas | 9.763 | ug/l | 225559.45 |
| Cd | 111 | 115 | 1 | No Gas | 49.469 | ug/l | 263731.19 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|------------|
| Cd | 111 | 115 | 3 | He | 51.622 | ug/l | 85202.92 |
| Cd | 114 | 115 | 1 | No Gas | 50.103 | ug/l | 590612.53 |
| Cd | 114 | 115 | 3 | He | 51.738 | ug/l | 209648.77 |
| Sn | 118 | 115 | 1 | No Gas | 105.464 | ug/l | 1596404.20 |
| Sn | 118 | 115 | 3 | He | 106.698 | ug/l | 409297.47 |
| Sb | 121 | 115 | 1 | No Gas | 104.940 | ug/l | 2502957.61 |
| Sb | 121 | 115 | 3 | He | 104.442 | ug/l | 622491.34 |
| Sb | 123 | 115 | 1 | No Gas | 105.758 | ug/l | 1940980.49 |
| Sb | 123 | 115 | 3 | He | 106.855 | ug/l | 503304.04 |
| Ba | 135 | 115 | 1 | No Gas | 102.027 | ug/l | 476308.23 |
| Ba | 137 | 115 | 1 | No Gas | 100.443 | ug/l | 833772.74 |
| La | 139 | 115 | 3 | He | 111.405 | ug/l | 2413905.40 |
| Ce | 140 | 115 | 3 | He | 113.453 | ug/l | 2689245.62 |
| Hg | 201 | 209 | 1 | No Gas | 0.250 | ug/l | 928.51 |
| Hg | 202 | 209 | 1 | No Gas | 4.579 | ug/l | 37998.67 |
| Hg | 202 | 209 | 3 | He | 3.366 | ug/l | 13306.66 |
| Tl | 203 | 209 | 3 | He | 102.270 | ug/l | 1037583.94 |
| Tl | 205 | 209 | 1 | No Gas | 105.006 | ug/l | 5191583.99 |
| Tl | 205 | 209 | 3 | He | 103.733 | ug/l | 2494012.63 |
| [Pb] | 206 | 209 | 1 | No Gas | 103.835 | ug/l | 1804058.24 |
| [Pb] | 207 | 209 | 1 | No Gas | 104.362 | ug/l | 1585142.30 |
| Pb | 208 | 209 | 1 | No Gas | 103.844 | ug/l | 7284149.30 |
| Th | 232 | 209 | 3 | He | 106.943 | ug/l | 3621913.35 |
| U | 238 | 209 | 1 | No Gas | 109.372 | ug/l | 7631357.81 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4189886.95 | 74.3 |
| Sc | 45 | 2 | H2 | 2175667.95 | 79.3 |
| Sc | 45 | 3 | He | 225270.76 | 70.7 |
| Ge | 72 | 1 | No Gas | 1264817.94 | 83.7 |
| Ge | 72 | 2 | H2 | 854452.94 | 86.1 |
| Ge | 72 | 3 | He | 178184.14 | 80.0 |
| In | 115 | 1 | No Gas | 10427416.57 | 85.7 |
| In | 115 | 3 | He | 2102218.57 | 79.8 |
| Tb | 159 | 1 | No Gas | 15258972.29 | 93.4 |
| Tb | 159 | 3 | He | 6229651.15 | 91.2 |
| Ho | 165 | 1 | No Gas | 14698979.19 | 96.4 |
| Ho | 165 | 3 | He | 6145207.59 | 92.9 |
| Lu | 175 | 1 | No Gas | 15037718.86 | 96.6 |
| Lu | 175 | 3 | He | 4996436.05 | 93.3 |
| Bi | 209 | 1 | No Gas | 10565208.08 | 93.3 |
| Bi | 209 | 3 | He | 4589597.00 | 91.6 |

ICPMS207-B Analytical Data

Sample Name B22011214-001BMSD4
File Name 099MSD4.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 02:13:58
Sample Type MSD4
Total Dilution 1.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|--------------|
| Li | 7 | 45 | 1 | No Gas | 72.513 | ug/l | 486609.01 |
| Be | 9 | 45 | 1 | No Gas | 39.886 | ug/l | 111103.22 |
| B | 11 | 45 | 1 | No Gas | 177.421 | ug/l | 307358.47 |
| Na | 23 | 45 | 3 | He | 77646.640 | ug/l | 49307489.27 |
| Mg | 24 | 45 | 3 | He | 28359.725 | ug/l | 9931390.29 |
| Al | 27 | 45 | 1 | No Gas | 508.007 | ug/l | 8045584.53 |
| Si | 28 | 45 | 2 | H2 | 27659.167 | ug/l | 46874742.48 |
| K | 39 | 72 | 3 | He | 7049.506 | ug/l | 2854047.28 |
| Ca | 40 | 72 | 2 | H2 | 25856.736 | ug/l | 177026570.34 |
| Ti | 47 | 72 | 1 | No Gas | 86.955 | ug/l | 183296.54 |
| V | 51 | 72 | 1 | No Gas | 127.750 | ug/l | 3272847.07 |
| V | 51 | 72 | 3 | He | 136.782 | ug/l | 546632.16 |
| Cr | 52 | 72 | 1 | No Gas | 94.653 | ug/l | 2362267.97 |
| Cr | 52 | 72 | 3 | He | 99.170 | ug/l | 443841.98 |
| Mn | 55 | 72 | 1 | No Gas | 471.322 | ug/l | 15208824.93 |
| Mn | 55 | 72 | 3 | He | 477.629 | ug/l | 1385575.09 |
| Fe | 56 | 72 | 2 | H2 | 654.910 | ug/l | 10273127.14 |
| Fe | 56 | 72 | 3 | He | 632.144 | ug/l | 2508216.77 |
| Co | 59 | 72 | 1 | No Gas | 89.558 | ug/l | 2442546.35 |
| Ni | 60 | 72 | 1 | No Gas | 86.907 | ug/l | 539873.07 |
| Ni | 60 | 72 | 3 | He | 98.361 | ug/l | 181166.16 |
| Cu | 63 | 72 | 1 | No Gas | 90.633 | ug/l | 1356316.64 |
| Cu | 63 | 72 | 3 | He | 99.227 | ug/l | 481113.79 |
| Cu | 65 | 72 | 1 | No Gas | 90.264 | ug/l | 665427.75 |
| Zn | 66 | 72 | 1 | No Gas | 117.178 | ug/l | 596977.69 |
| Zn | 66 | 72 | 3 | He | 124.354 | ug/l | 126519.84 |
| As | 75 | 72 | 1 | No Gas | 98.529 | ug/l | 607899.94 |
| As | 75 | 72 | 3 | He | 104.576 | ug/l | 91970.03 |
| Se | 78 | 72 | 2 | H2 | 101.440 | ug/l | 57406.70 |
| Br | 79 | 72 | 1 | No Gas | 8.618 | ug/l | 162412.10 |
| Br | 79 | 72 | 2 | H2 | 8.383 | ug/l | 84913.26 |
| Se | 82 | 72 | 1 | No Gas | 95.124 | ug/l | 33554.41 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 73932.07 |
| Sr | 88 | 72 | 1 | No Gas | 204.856 | ug/l | 8887294.59 |
| Sr | 88 | 72 | 3 | He | 207.364 | ug/l | 944401.20 |
| Mo | 95 | 115 | 1 | No Gas | 107.180 | ug/l | 958850.78 |
| Mo | 95 | 115 | 3 | He | 110.301 | ug/l | 349074.91 |
| Mo | 98 | 115 | 1 | No Gas | 110.173 | ug/l | 1604869.45 |
| Ag | 107 | 115 | 1 | No Gas | 9.990 | ug/l | 230443.62 |
| Ag | 109 | 115 | 1 | No Gas | 10.038 | ug/l | 224716.18 |
| Cd | 111 | 115 | 1 | No Gas | 50.672 | ug/l | 261817.27 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|------------|
| Cd | 111 | 115 | 3 | He | 50.769 | ug/l | 84791.17 |
| Cd | 114 | 115 | 1 | No Gas | 51.847 | ug/l | 592336.69 |
| Cd | 114 | 115 | 3 | He | 50.785 | ug/l | 208233.43 |
| Sn | 118 | 115 | 1 | No Gas | 108.149 | ug/l | 1586594.12 |
| Sn | 118 | 115 | 3 | He | 104.477 | ug/l | 405545.57 |
| Sb | 121 | 115 | 1 | No Gas | 107.231 | ug/l | 2478748.85 |
| Sb | 121 | 115 | 3 | He | 102.220 | ug/l | 616516.67 |
| Sb | 123 | 115 | 1 | No Gas | 107.539 | ug/l | 1912838.73 |
| Sb | 123 | 115 | 3 | He | 105.081 | ug/l | 500840.64 |
| Ba | 135 | 115 | 1 | No Gas | 105.286 | ug/l | 476386.64 |
| Ba | 137 | 115 | 1 | No Gas | 103.433 | ug/l | 832138.67 |
| La | 139 | 115 | 3 | He | 109.544 | ug/l | 2401948.70 |
| Ce | 140 | 115 | 3 | He | 111.944 | ug/l | 2685081.49 |
| Hg | 201 | 209 | 1 | No Gas | 0.264 | ug/l | 962.18 |
| Hg | 202 | 209 | 1 | No Gas | 4.623 | ug/l | 37590.96 |
| Hg | 202 | 209 | 3 | He | 3.357 | ug/l | 13305.32 |
| Tl | 203 | 209 | 3 | He | 101.396 | ug/l | 1031368.38 |
| Tl | 205 | 209 | 1 | No Gas | 108.529 | ug/l | 5257085.97 |
| Tl | 205 | 209 | 3 | He | 103.165 | ug/l | 2486571.80 |
| [Pb] | 206 | 209 | 1 | No Gas | 105.230 | ug/l | 1790831.31 |
| [Pb] | 207 | 209 | 1 | No Gas | 106.351 | ug/l | 1581990.90 |
| Pb | 208 | 209 | 1 | No Gas | 105.389 | ug/l | 7239933.64 |
| Th | 232 | 209 | 3 | He | 105.924 | ug/l | 3596670.75 |
| U | 238 | 209 | 1 | No Gas | 110.577 | ug/l | 7559222.24 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4216758.99 | 74.8 |
| Sc | 45 | 2 | H2 | 2242316.87 | 81.7 |
| Sc | 45 | 3 | He | 234754.98 | 73.7 |
| Ge | 72 | 1 | No Gas | 1272411.10 | 84.2 |
| Ge | 72 | 2 | H2 | 868452.10 | 87.5 |
| Ge | 72 | 3 | He | 180453.82 | 81.0 |
| In | 115 | 1 | No Gas | 10105375.94 | 83.0 |
| In | 115 | 3 | He | 2127277.60 | 80.7 |
| Tb | 159 | 1 | No Gas | 14968961.77 | 91.6 |
| Tb | 159 | 3 | He | 6364282.70 | 93.1 |
| Ho | 165 | 1 | No Gas | 14414710.76 | 94.5 |
| Ho | 165 | 3 | He | 6167016.91 | 93.2 |
| Lu | 175 | 1 | No Gas | 15171247.28 | 97.5 |
| Lu | 175 | 3 | He | 4937191.24 | 92.2 |
| Bi | 209 | 1 | No Gas | 10335640.64 | 91.3 |
| Bi | 209 | 3 | He | 4601026.47 | 91.8 |

ICPMS207-B Analytical Data

Sample Name Rinse
File Name 100BLKV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 02:20:12
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | -0.207 | ug/l | 11777.94 |
| Be | 9 | 45 | 1 | No Gas | -0.045 | ug/l | 58.32 |
| B | 11 | 45 | 1 | No Gas | 2.454 | ug/l | 9224.54 |
| Na | 23 | 45 | 3 | He | 44.093 | ug/l | 68387.64 |
| Mg | 24 | 45 | 3 | He | 0.676 | ug/l | 1730.02 |
| Al | 27 | 45 | 1 | No Gas | -0.347 | ug/l | 7764.27 |
| Si | 28 | 45 | 2 | H2 | 127.435 | ug/l | 233844.81 |
| K | 39 | 72 | 3 | He | -25.981 | ug/l | 61236.58 |
| Ca | 40 | 72 | 2 | H2 | -1.333 | ug/l | 83169.20 |
| Ti | 47 | 72 | 1 | No Gas | -0.007 | ug/l | 178.51 |
| V | 51 | 72 | 1 | No Gas | 2.318 | ug/l | 11049.61 |
| V | 51 | 72 | 3 | He | 1.250 | ug/l | 18793.25 |
| Cr | 52 | 72 | 1 | No Gas | -0.022 | ug/l | 85509.55 |
| Cr | 52 | 72 | 3 | He | 0.008 | ug/l | 800.03 |
| Mn | 55 | 72 | 1 | No Gas | 0.193 | ug/l | 16097.00 |
| Mn | 55 | 72 | 3 | He | 0.140 | ug/l | 568.57 |
| Fe | 56 | 72 | 2 | H2 | 0.143 | ug/l | 11743.21 |
| Fe | 56 | 72 | 3 | He | 0.100 | ug/l | 5501.58 |
| Co | 59 | 72 | 1 | No Gas | 0.003 | ug/l | 585.52 |
| Ni | 60 | 72 | 1 | No Gas | -0.009 | ug/l | 379.25 |
| Ni | 60 | 72 | 3 | He | 0.005 | ug/l | 94.44 |
| Cu | 63 | 72 | 1 | No Gas | 0.013 | ug/l | 2009.61 |
| Cu | 63 | 72 | 3 | He | 0.012 | ug/l | 655.22 |
| Cu | 65 | 72 | 1 | No Gas | 0.015 | ug/l | 967.09 |
| Zn | 66 | 72 | 1 | No Gas | 0.032 | ug/l | 1075.13 |
| Zn | 66 | 72 | 3 | He | 0.053 | ug/l | 254.45 |
| As | 75 | 72 | 1 | No Gas | 1.472 | ug/l | 21860.28 |
| As | 75 | 72 | 3 | He | 0.012 | ug/l | 256.27 |
| Se | 78 | 72 | 2 | H2 | 0.010 | ug/l | 37.00 |
| Br | 79 | 72 | 1 | No Gas | 21.358 | ug/l | 325703.74 |
| Br | 79 | 72 | 2 | H2 | 21.557 | ug/l | 180082.30 |
| Se | 82 | 72 | 1 | No Gas | 0.193 | ug/l | 726.61 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 18528.48 |
| Sr | 88 | 72 | 1 | No Gas | 0.002 | ug/l | 795.12 |
| Sr | 88 | 72 | 3 | He | -0.007 | ug/l | 223.34 |
| Mo | 95 | 115 | 1 | No Gas | 0.018 | ug/l | 242.23 |
| Mo | 95 | 115 | 3 | He | 0.011 | ug/l | 57.78 |
| Mo | 98 | 115 | 1 | No Gas | 0.017 | ug/l | 385.43 |
| Ag | 107 | 115 | 1 | No Gas | -0.002 | ug/l | 1737.48 |
| Ag | 109 | 115 | 1 | No Gas | 0.004 | ug/l | 1785.50 |
| Cd | 111 | 115 | 1 | No Gas | 0.006 | ug/l | 34.23 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.005 | ug/l | 15.78 |
| Cd | 114 | 115 | 1 | No Gas | 0.006 | ug/l | -86.47 |
| Cd | 114 | 115 | 3 | He | 0.005 | ug/l | 34.08 |
| Sn | 118 | 115 | 1 | No Gas | 0.014 | ug/l | 3313.83 |
| Sn | 118 | 115 | 3 | He | 0.009 | ug/l | 832.25 |
| Sb | 121 | 115 | 1 | No Gas | 0.191 | ug/l | 6014.90 |
| Sb | 121 | 115 | 3 | He | 0.149 | ug/l | 1177.17 |
| Sb | 123 | 115 | 1 | No Gas | 0.192 | ug/l | 4625.56 |
| Sb | 123 | 115 | 3 | He | 0.159 | ug/l | 978.46 |
| Ba | 135 | 115 | 1 | No Gas | 0.006 | ug/l | 96.48 |
| Ba | 137 | 115 | 1 | No Gas | 0.003 | ug/l | 126.41 |
| La | 139 | 115 | 3 | He | 0.001 | ug/l | 35.56 |
| Ce | 140 | 115 | 3 | He | 0.001 | ug/l | 53.34 |
| Hg | 201 | 209 | 1 | No Gas | 0.000 | ug/l | 32.66 |
| Hg | 202 | 209 | 1 | No Gas | 0.008 | ug/l | 181.97 |
| Hg | 202 | 209 | 3 | He | 0.006 | ug/l | 59.99 |
| Tl | 203 | 209 | 3 | He | 0.183 | ug/l | 2716.70 |
| Tl | 205 | 209 | 1 | No Gas | 0.165 | ug/l | 12203.72 |
| Tl | 205 | 209 | 3 | He | 0.180 | ug/l | 6421.48 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.007 | ug/l | 780.03 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.012 | ug/l | 755.58 |
| Pb | 208 | 209 | 1 | No Gas | 0.009 | ug/l | 3302.40 |
| Th | 232 | 209 | 3 | He | 0.018 | ug/l | 1289.25 |
| U | 238 | 209 | 1 | No Gas | 0.002 | ug/l | 289.28 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4643552.28 | 82.4 |
| Sc | 45 | 2 | H2 | 2362267.85 | 86.1 |
| Sc | 45 | 3 | He | 251550.85 | 79.0 |
| Ge | 72 | 1 | No Gas | 1323842.71 | 87.6 |
| Ge | 72 | 2 | H2 | 908416.85 | 91.5 |
| Ge | 72 | 3 | He | 192669.60 | 86.5 |
| In | 115 | 1 | No Gas | 11735208.84 | 96.4 |
| In | 115 | 3 | He | 2345749.06 | 89.0 |
| Tb | 159 | 1 | No Gas | 16457359.07 | 100.7 |
| Tb | 159 | 3 | He | 6702678.59 | 98.1 |
| Ho | 165 | 1 | No Gas | 15699915.82 | 102.9 |
| Ho | 165 | 3 | He | 6420420.77 | 97.1 |
| Lu | 175 | 1 | No Gas | 16530476.98 | 106.2 |
| Lu | 175 | 3 | He | 5224730.43 | 97.6 |
| Bi | 209 | 1 | No Gas | 12154563.55 | 107.4 |
| Bi | 209 | 3 | He | 5189463.51 | 103.5 |

ICPMS207-B Analytical Data

Sample Name B22011227-001A
File Name 101SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 02:26:26
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|------------|-------|--------------|
| Li | 7 | 45 | 1 | No Gas | -0.623 | ug/l | 9993.96 |
| Be | 9 | 45 | 1 | No Gas | -0.047 | ug/l | 58.66 |
| B | 11 | 45 | 1 | No Gas | 58.052 | ug/l | 129688.04 |
| Na | 23 | 45 | 3 | He | 159241.119 | ug/l | 124388330.37 |
| Mg | 24 | 45 | 3 | He | 44478.677 | ug/l | 19161668.82 |
| Al | 27 | 45 | 1 | No Gas | 0.811 | ug/l | 31804.14 |
| Si | 28 | 45 | 2 | H2 | 31873.347 | ug/l | 61628122.50 |
| K | 39 | 72 | 3 | He | 1930.818 | ug/l | 960081.90 |
| Ca | 40 | 72 | 2 | H2 | 25884.056 | ug/l | 192521825.04 |
| Ti | 47 | 72 | 1 | No Gas | 2.009 | ug/l | 4830.67 |
| V | 51 | 72 | 1 | No Gas | 22.705 | ug/l | 592776.75 |
| V | 51 | 72 | 3 | He | 18.416 | ug/l | 97782.71 |
| Cr | 52 | 72 | 1 | No Gas | 0.400 | ug/l | 101008.99 |
| Cr | 52 | 72 | 3 | He | 2.148 | ug/l | 11915.99 |
| Mn | 55 | 72 | 1 | No Gas | 1.925 | ug/l | 77994.96 |
| Mn | 55 | 72 | 3 | He | 1.980 | ug/l | 6783.88 |
| Fe | 56 | 72 | 2 | H2 | 18.477 | ug/l | 324442.22 |
| Fe | 56 | 72 | 3 | He | 17.662 | ug/l | 86336.12 |
| Co | 59 | 72 | 1 | No Gas | 0.147 | ug/l | 4921.08 |
| Ni | 60 | 72 | 1 | No Gas | 0.661 | ug/l | 4947.71 |
| Ni | 60 | 72 | 3 | He | 0.504 | ug/l | 1165.61 |
| Cu | 63 | 72 | 1 | No Gas | 1.144 | ug/l | 20604.81 |
| Cu | 63 | 72 | 3 | He | 0.354 | ug/l | 2622.72 |
| Cu | 65 | 72 | 1 | No Gas | 0.467 | ug/l | 4657.29 |
| Zn | 66 | 72 | 1 | No Gas | 3.762 | ug/l | 21889.06 |
| Zn | 66 | 72 | 3 | He | 3.921 | ug/l | 4816.37 |
| As | 75 | 72 | 1 | No Gas | 0.155 | ug/l | 14289.49 |
| As | 75 | 72 | 3 | He | 0.071 | ug/l | 336.87 |
| Se | 78 | 72 | 2 | H2 | 0.243 | ug/l | 181.45 |
| Br | 79 | 72 | 1 | No Gas | 79.512 | ug/l | 1094181.85 |
| Br | 79 | 72 | 2 | H2 | 77.372 | ug/l | 588298.69 |
| Se | 82 | 72 | 1 | No Gas | 1.912 | ug/l | 1415.49 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 93693.80 |
| Sr | 88 | 72 | 1 | No Gas | 260.491 | ug/l | 12357915.63 |
| Sr | 88 | 72 | 3 | He | 262.861 | ug/l | 1383441.58 |
| Mo | 95 | 115 | 1 | No Gas | 0.290 | ug/l | 3005.89 |
| Mo | 95 | 115 | 3 | He | 0.291 | ug/l | 1064.49 |
| Mo | 98 | 115 | 1 | No Gas | 0.292 | ug/l | 4928.59 |
| Ag | 107 | 115 | 1 | No Gas | -0.063 | ug/l | 111.38 |
| Ag | 109 | 115 | 1 | No Gas | -0.062 | ug/l | 92.70 |
| Cd | 111 | 115 | 1 | No Gas | 0.024 | ug/l | 137.52 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.018 | ug/l | 40.67 |
| Cd | 114 | 115 | 1 | No Gas | 0.034 | ug/l | 276.52 |
| Cd | 114 | 115 | 3 | He | 0.018 | ug/l | 93.84 |
| Sn | 118 | 115 | 1 | No Gas | -0.075 | ug/l | 1773.27 |
| Sn | 118 | 115 | 3 | He | -0.076 | ug/l | 483.35 |
| Sb | 121 | 115 | 1 | No Gas | 0.114 | ug/l | 3862.25 |
| Sb | 121 | 115 | 3 | He | 0.113 | ug/l | 962.46 |
| Sb | 123 | 115 | 1 | No Gas | 0.114 | ug/l | 2951.61 |
| Sb | 123 | 115 | 3 | He | 0.119 | ug/l | 792.77 |
| Ba | 135 | 115 | 1 | No Gas | 10.862 | ug/l | 55987.84 |
| Ba | 137 | 115 | 1 | No Gas | 10.789 | ug/l | 98883.33 |
| La | 139 | 115 | 3 | He | 0.001 | ug/l | 45.56 |
| Ce | 140 | 115 | 3 | He | 0.002 | ug/l | 80.00 |
| Hg | 201 | 209 | 1 | No Gas | -0.001 | ug/l | 25.33 |
| Hg | 202 | 209 | 1 | No Gas | 0.001 | ug/l | 99.98 |
| Hg | 202 | 209 | 3 | He | 0.002 | ug/l | 38.32 |
| Tl | 203 | 209 | 3 | He | 0.081 | ug/l | 1468.68 |
| Tl | 205 | 209 | 1 | No Gas | 0.056 | ug/l | 5506.80 |
| Tl | 205 | 209 | 3 | He | 0.080 | ug/l | 3516.55 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.010 | ug/l | 768.91 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.011 | ug/l | 673.36 |
| Pb | 208 | 209 | 1 | No Gas | 0.008 | ug/l | 3006.82 |
| Th | 232 | 209 | 3 | He | -0.004 | ug/l | 412.84 |
| U | 238 | 209 | 1 | No Gas | 0.014 | ug/l | 1160.49 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5285592.33 | 93.7 |
| Sc | 45 | 2 | H2 | 2558149.32 | 93.2 |
| Sc | 45 | 3 | He | 288848.64 | 90.7 |
| Ge | 72 | 1 | No Gas | 1391696.69 | 92.1 |
| Ge | 72 | 2 | H2 | 943203.38 | 95.0 |
| Ge | 72 | 3 | He | 208530.07 | 93.7 |
| In | 115 | 1 | No Gas | 11511098.21 | 94.6 |
| In | 115 | 3 | He | 2410159.31 | 91.4 |
| Tb | 159 | 1 | No Gas | 16466713.95 | 100.8 |
| Tb | 159 | 3 | He | 6701748.86 | 98.1 |
| Ho | 165 | 1 | No Gas | 15555899.10 | 102.0 |
| Ho | 165 | 3 | He | 6547947.40 | 99.0 |
| Lu | 175 | 1 | No Gas | 15864800.07 | 101.9 |
| Lu | 175 | 3 | He | 5353580.16 | 100.0 |
| Bi | 209 | 1 | No Gas | 11202632.48 | 98.9 |
| Bi | 209 | 3 | He | 4912194.32 | 98.0 |

ICPMS207-B Analytical Data

Sample Name CCV
File Name 102_CCV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 02:32:41
Sample Type CCV
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 433.482 | ug/l | 3209272.13 |
| Be | 9 | 45 | 1 | No Gas | 37.619 | ug/l | 118039.76 |
| B | 11 | 45 | 1 | No Gas | 40.811 | ug/l | 83219.33 |
| Na | 23 | 45 | 3 | He | 12024.656 | ug/l | 8781891.39 |
| Mg | 24 | 45 | 3 | He | 11867.927 | ug/l | 4760228.78 |
| Al | 27 | 45 | 1 | No Gas | 52.160 | ug/l | 942577.01 |
| Si | 28 | 45 | 2 | H2 | 264.106 | ug/l | 498535.99 |
| K | 39 | 72 | 3 | He | 11327.379 | ug/l | 5149313.68 |
| Ca | 40 | 72 | 2 | H2 | 12054.540 | ug/l | 90741170.47 |
| Ti | 47 | 72 | 1 | No Gas | 46.750 | ug/l | 104683.08 |
| V | 51 | 72 | 1 | No Gas | 50.324 | ug/l | 1337628.07 |
| V | 51 | 72 | 3 | He | 49.126 | ug/l | 231582.89 |
| Cr | 52 | 72 | 1 | No Gas | 48.862 | ug/l | 1336448.64 |
| Cr | 52 | 72 | 3 | He | 48.222 | ug/l | 244853.80 |
| Mn | 55 | 72 | 1 | No Gas | 50.019 | ug/l | 1721788.06 |
| Mn | 55 | 72 | 3 | He | 48.349 | ug/l | 158997.91 |
| Fe | 56 | 72 | 2 | H2 | 1338.174 | ug/l | 23058342.95 |
| Fe | 56 | 72 | 3 | He | 1245.821 | ug/l | 5593543.87 |
| Co | 59 | 72 | 1 | No Gas | 49.117 | ug/l | 1421931.51 |
| Ni | 60 | 72 | 1 | No Gas | 47.889 | ug/l | 315974.41 |
| Ni | 60 | 72 | 3 | He | 48.921 | ug/l | 102098.34 |
| Cu | 63 | 72 | 1 | No Gas | 49.077 | ug/l | 780365.80 |
| Cu | 63 | 72 | 3 | He | 50.063 | ug/l | 275184.34 |
| Cu | 65 | 72 | 1 | No Gas | 49.619 | ug/l | 388494.28 |
| Zn | 66 | 72 | 1 | No Gas | 49.453 | ug/l | 267906.44 |
| Zn | 66 | 72 | 3 | He | 50.720 | ug/l | 58570.77 |
| As | 75 | 72 | 1 | No Gas | 50.217 | ug/l | 335260.43 |
| As | 75 | 72 | 3 | He | 50.217 | ug/l | 50149.08 |
| Se | 78 | 72 | 2 | H2 | 52.150 | ug/l | 32448.41 |
| Br | 79 | 72 | 1 | No Gas | 17.369 | ug/l | 282094.38 |
| Br | 79 | 72 | 2 | H2 | 16.695 | ug/l | 153781.71 |
| Se | 82 | 72 | 1 | No Gas | 50.566 | ug/l | 19246.59 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 35193.01 |
| Sr | 88 | 72 | 1 | No Gas | 53.132 | ug/l | 2446016.96 |
| Sr | 88 | 72 | 3 | He | 51.392 | ug/l | 265259.60 |
| Mo | 95 | 115 | 1 | No Gas | 50.069 | ug/l | 508315.30 |
| Mo | 95 | 115 | 3 | He | 50.983 | ug/l | 183951.71 |
| Mo | 98 | 115 | 1 | No Gas | 50.544 | ug/l | 835490.37 |
| Ag | 107 | 115 | 1 | No Gas | 19.859 | ug/l | 518034.30 |
| Ag | 109 | 115 | 1 | No Gas | 19.752 | ug/l | 500130.95 |
| Cd | 111 | 115 | 1 | No Gas | 50.131 | ug/l | 293886.73 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Cd | 111 | 115 | 3 | He | 50.860 | ug/l | 96860.91 |
| Cd | 114 | 115 | 1 | No Gas | 51.206 | ug/l | 663766.17 |
| Cd | 114 | 115 | 3 | He | 50.549 | ug/l | 236337.18 |
| Sn | 118 | 115 | 1 | No Gas | 52.866 | ug/l | 881408.58 |
| Sn | 118 | 115 | 3 | He | 53.151 | ug/l | 235665.03 |
| Sb | 121 | 115 | 1 | No Gas | 54.351 | ug/l | 1425958.41 |
| Sb | 121 | 115 | 3 | He | 53.124 | ug/l | 365447.13 |
| Sb | 123 | 115 | 1 | No Gas | 53.984 | ug/l | 1089808.93 |
| Sb | 123 | 115 | 3 | He | 53.013 | ug/l | 288189.80 |
| Ba | 135 | 115 | 1 | No Gas | 51.973 | ug/l | 266868.55 |
| Ba | 137 | 115 | 1 | No Gas | 51.693 | ug/l | 471891.65 |
| La | 139 | 115 | 3 | He | 51.915 | ug/l | 1297981.12 |
| Ce | 140 | 115 | 3 | He | 51.492 | ug/l | 1408421.66 |
| Hg | 201 | 209 | 1 | No Gas | 0.995 | ug/l | 3868.13 |
| Hg | 202 | 209 | 1 | No Gas | 0.968 | ug/l | 8657.08 |
| Hg | 202 | 209 | 3 | He | 0.995 | ug/l | 4278.50 |
| Tl | 203 | 209 | 3 | He | 48.882 | ug/l | 536683.07 |
| Tl | 205 | 209 | 1 | No Gas | 50.877 | ug/l | 2689881.84 |
| Tl | 205 | 209 | 3 | He | 50.356 | ug/l | 1310054.63 |
| [Pb] | 206 | 209 | 1 | No Gas | 51.106 | ug/l | 949055.92 |
| [Pb] | 207 | 209 | 1 | No Gas | 50.469 | ug/l | 819189.60 |
| Pb | 208 | 209 | 1 | No Gas | 50.707 | ug/l | 3801002.44 |
| Th | 232 | 209 | 3 | He | 49.713 | ug/l | 1821035.54 |
| U | 238 | 209 | 1 | No Gas | 50.624 | ug/l | 3775154.47 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4742655.28 | 84.1 |
| Sc | 45 | 2 | H2 | 2464742.30 | 89.8 |
| Sc | 45 | 3 | He | 268894.52 | 84.4 |
| Ge | 72 | 1 | No Gas | 1350040.59 | 89.3 |
| Ge | 72 | 2 | H2 | 954034.80 | 96.1 |
| Ge | 72 | 3 | He | 204426.64 | 91.8 |
| In | 115 | 1 | No Gas | 11466043.40 | 94.2 |
| In | 115 | 3 | He | 2425749.35 | 92.0 |
| Tb | 159 | 1 | No Gas | 16373998.00 | 100.2 |
| Tb | 159 | 3 | He | 6733080.81 | 98.5 |
| Ho | 165 | 1 | No Gas | 15606737.96 | 102.3 |
| Ho | 165 | 3 | He | 6436387.46 | 97.3 |
| Lu | 175 | 1 | No Gas | 16020858.42 | 102.9 |
| Lu | 175 | 3 | He | 5293581.99 | 98.8 |
| Bi | 209 | 1 | No Gas | 11274320.79 | 99.6 |
| Bi | 209 | 3 | He | 4963686.80 | 99.0 |

ICPMS207-B Analytical Data

Sample Name CCB
File Name 103_CCB.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 02:38:55
Sample Type CCB
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|----------|
| Li | 7 | 45 | 1 | No Gas | 0.073 | ug/l | 14291.10 |
| Be | 9 | 45 | 1 | No Gas | -0.047 | ug/l | 53.99 |
| B | 11 | 45 | 1 | No Gas | 1.259 | ug/l | 7221.97 |
| Na | 23 | 45 | 3 | He | 31.026 | ug/l | 60522.12 |
| Mg | 24 | 45 | 3 | He | -0.329 | ug/l | 1377.34 |
| Al | 27 | 45 | 1 | No Gas | -0.376 | ug/l | 7521.93 |
| Si | 28 | 45 | 2 | H2 | 36.801 | ug/l | 73597.91 |
| K | 39 | 72 | 3 | He | -19.005 | ug/l | 64009.57 |
| Ca | 40 | 72 | 2 | H2 | -1.160 | ug/l | 84766.73 |
| Ti | 47 | 72 | 1 | No Gas | 0.016 | ug/l | 236.91 |
| V | 51 | 72 | 1 | No Gas | 3.699 | ug/l | 53142.52 |
| V | 51 | 72 | 3 | He | 2.262 | ug/l | 22952.46 |
| Cr | 52 | 72 | 1 | No Gas | 0.337 | ug/l | 98128.52 |
| Cr | 52 | 72 | 3 | He | 0.032 | ug/l | 910.03 |
| Mn | 55 | 72 | 1 | No Gas | 0.079 | ug/l | 12733.69 |
| Mn | 55 | 72 | 3 | He | 0.011 | ug/l | 168.63 |
| Fe | 56 | 72 | 2 | H2 | 0.050 | ug/l | 10253.93 |
| Fe | 56 | 72 | 3 | He | 0.074 | ug/l | 5374.74 |
| Co | 59 | 72 | 1 | No Gas | -0.002 | ug/l | 452.44 |
| Ni | 60 | 72 | 1 | No Gas | -0.007 | ug/l | 405.87 |
| Ni | 60 | 72 | 3 | He | 0.002 | ug/l | 90.00 |
| Cu | 63 | 72 | 1 | No Gas | 0.004 | ug/l | 1938.24 |
| Cu | 63 | 72 | 3 | He | 0.001 | ug/l | 595.23 |
| Cu | 65 | 72 | 1 | No Gas | -0.005 | ug/l | 850.37 |
| Zn | 66 | 72 | 1 | No Gas | -0.017 | ug/l | 851.41 |
| Zn | 66 | 72 | 3 | He | -0.005 | ug/l | 191.11 |
| As | 75 | 72 | 1 | No Gas | 0.564 | ug/l | 16801.06 |
| As | 75 | 72 | 3 | He | 0.026 | ug/l | 268.73 |
| Se | 78 | 72 | 2 | H2 | 0.008 | ug/l | 36.11 |
| Br | 79 | 72 | 1 | No Gas | 0.476 | ug/l | 71652.16 |
| Br | 79 | 72 | 2 | H2 | 0.396 | ug/l | 33702.38 |
| Se | 82 | 72 | 1 | No Gas | -0.113 | ug/l | 641.28 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 19424.60 |
| Sr | 88 | 72 | 1 | No Gas | 0.000 | ug/l | 718.60 |
| Sr | 88 | 72 | 3 | He | -0.004 | ug/l | 237.78 |
| Mo | 95 | 115 | 1 | No Gas | 0.020 | ug/l | 266.67 |
| Mo | 95 | 115 | 3 | He | 0.014 | ug/l | 68.89 |
| Mo | 98 | 115 | 1 | No Gas | 0.022 | ug/l | 468.41 |
| Ag | 107 | 115 | 1 | No Gas | -0.001 | ug/l | 1770.83 |
| Ag | 109 | 115 | 1 | No Gas | -0.001 | ug/l | 1676.11 |
| Cd | 111 | 115 | 1 | No Gas | 0.001 | ug/l | 2.78 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.001 | ug/l | 7.33 |
| Cd | 114 | 115 | 1 | No Gas | 0.003 | ug/l | -125.97 |
| Cd | 114 | 115 | 3 | He | 0.001 | ug/l | 16.11 |
| Sn | 118 | 115 | 1 | No Gas | 0.022 | ug/l | 3463.58 |
| Sn | 118 | 115 | 3 | He | 0.014 | ug/l | 860.03 |
| Sb | 121 | 115 | 1 | No Gas | 0.144 | ug/l | 4761.30 |
| Sb | 121 | 115 | 3 | He | 0.114 | ug/l | 954.47 |
| Sb | 123 | 115 | 1 | No Gas | 0.144 | ug/l | 3657.19 |
| Sb | 123 | 115 | 3 | He | 0.116 | ug/l | 764.77 |
| Ba | 135 | 115 | 1 | No Gas | -0.003 | ug/l | 46.57 |
| Ba | 137 | 115 | 1 | No Gas | 0.002 | ug/l | 113.11 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 15.56 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 41.11 |
| Hg | 201 | 209 | 1 | No Gas | 0.002 | ug/l | 39.99 |
| Hg | 202 | 209 | 1 | No Gas | 0.005 | ug/l | 147.64 |
| Hg | 202 | 209 | 3 | He | 0.004 | ug/l | 51.99 |
| Tl | 203 | 209 | 3 | He | 0.110 | ug/l | 1832.87 |
| Tl | 205 | 209 | 1 | No Gas | 0.081 | ug/l | 7323.23 |
| Tl | 205 | 209 | 3 | He | 0.112 | ug/l | 4447.20 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.003 | ug/l | 685.58 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.005 | ug/l | 615.57 |
| Pb | 208 | 209 | 1 | No Gas | 0.003 | ug/l | 2813.47 |
| Th | 232 | 209 | 3 | He | 0.016 | ug/l | 1153.18 |
| U | 238 | 209 | 1 | No Gas | 0.003 | ug/l | 309.28 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4808560.29 | 85.3 |
| Sc | 45 | 2 | H2 | 2413381.53 | 87.9 |
| Sc | 45 | 3 | He | 255853.25 | 80.3 |
| Ge | 72 | 1 | No Gas | 1376165.80 | 91.0 |
| Ge | 72 | 2 | H2 | 912454.93 | 91.9 |
| Ge | 72 | 3 | He | 192228.16 | 86.3 |
| In | 115 | 1 | No Gas | 11787241.96 | 96.8 |
| In | 115 | 3 | He | 2367230.07 | 89.8 |
| Tb | 159 | 1 | No Gas | 16663944.19 | 102.0 |
| Tb | 159 | 3 | He | 6531270.63 | 95.6 |
| Ho | 165 | 1 | No Gas | 15812953.12 | 103.7 |
| Ho | 165 | 3 | He | 6399624.76 | 96.8 |
| Lu | 175 | 1 | No Gas | 15964823.95 | 102.6 |
| Lu | 175 | 3 | He | 5218893.66 | 97.5 |
| Bi | 209 | 1 | No Gas | 11984982.41 | 105.9 |
| Bi | 209 | 3 | He | 5053892.58 | 100.8 |

ICPMS207-B Analytical Data

Sample Name B22011227-001B
File Name 104SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 02:45:10
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|------------|-------|--------------|
| Li | 7 | 45 | 1 | No Gas | 0.427 | ug/l | 15057.48 |
| Be | 9 | 45 | 1 | No Gas | -0.044 | ug/l | 57.99 |
| B | 11 | 45 | 1 | No Gas | 58.055 | ug/l | 104879.04 |
| Na | 23 | 45 | 3 | He | 157410.094 | ug/l | 96956238.56 |
| Mg | 24 | 45 | 3 | He | 43512.690 | ug/l | 14781520.05 |
| Al | 27 | 45 | 1 | No Gas | 51.372 | ug/l | 836772.64 |
| Si | 28 | 45 | 2 | H2 | 31827.924 | ug/l | 52188572.23 |
| K | 39 | 72 | 3 | He | 1846.999 | ug/l | 763586.89 |
| Ca | 40 | 72 | 2 | H2 | 25951.882 | ug/l | 165128390.91 |
| Ti | 47 | 72 | 1 | No Gas | 6.007 | ug/l | 12225.75 |
| V | 51 | 72 | 1 | No Gas | 21.503 | ug/l | 486906.47 |
| V | 51 | 72 | 3 | He | 25.146 | ug/l | 106168.16 |
| Cr | 52 | 72 | 1 | No Gas | 19.738 | ug/l | 531567.96 |
| Cr | 52 | 72 | 3 | He | 18.086 | ug/l | 78059.30 |
| Mn | 55 | 72 | 1 | No Gas | 3.362 | ug/l | 112050.98 |
| Mn | 55 | 72 | 3 | He | 2.846 | ug/l | 8024.59 |
| Fe | 56 | 72 | 2 | H2 | 187.263 | ug/l | 2736566.81 |
| Fe | 56 | 72 | 3 | He | 169.204 | ug/l | 646206.78 |
| Co | 59 | 72 | 1 | No Gas | 0.354 | ug/l | 9644.15 |
| Ni | 60 | 72 | 1 | No Gas | 0.998 | ug/l | 6305.54 |
| Ni | 60 | 72 | 3 | He | 0.848 | ug/l | 1571.21 |
| Cu | 63 | 72 | 1 | No Gas | 2.054 | ug/l | 30898.97 |
| Cu | 63 | 72 | 3 | He | 1.186 | ug/l | 6030.38 |
| Cu | 65 | 72 | 1 | No Gas | 1.276 | ug/l | 9727.83 |
| Zn | 66 | 72 | 1 | No Gas | 9.861 | ug/l | 48620.61 |
| Zn | 66 | 72 | 3 | He | 10.576 | ug/l | 10461.59 |
| As | 75 | 72 | 1 | No Gas | 2.624 | ug/l | 26665.23 |
| As | 75 | 72 | 3 | He | 0.532 | ug/l | 666.67 |
| Se | 78 | 72 | 2 | H2 | 0.317 | ug/l | 194.33 |
| Br | 79 | 72 | 1 | No Gas | 20.004 | ug/l | 282962.19 |
| Br | 79 | 72 | 2 | H2 | 19.298 | ug/l | 146083.23 |
| Se | 82 | 72 | 1 | No Gas | 0.330 | ug/l | 710.75 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 84830.58 |
| Sr | 88 | 72 | 1 | No Gas | 263.402 | ug/l | 10880825.40 |
| Sr | 88 | 72 | 3 | He | 251.214 | ug/l | 1095271.18 |
| Mo | 95 | 115 | 1 | No Gas | 1.222 | ug/l | 10945.36 |
| Mo | 95 | 115 | 3 | He | 1.254 | ug/l | 3913.89 |
| Mo | 98 | 115 | 1 | No Gas | 1.230 | ug/l | 17922.87 |
| Ag | 107 | 115 | 1 | No Gas | -0.054 | ug/l | 321.47 |
| Ag | 109 | 115 | 1 | No Gas | -0.051 | ug/l | 328.80 |
| Cd | 111 | 115 | 1 | No Gas | 0.009 | ug/l | 44.91 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.004 | ug/l | 11.89 |
| Cd | 114 | 115 | 1 | No Gas | 0.017 | ug/l | 47.70 |
| Cd | 114 | 115 | 3 | He | 0.004 | ug/l | 27.91 |
| Sn | 118 | 115 | 1 | No Gas | 0.469 | ug/l | 9494.44 |
| Sn | 118 | 115 | 3 | He | 0.493 | ug/l | 2583.59 |
| Sb | 121 | 115 | 1 | No Gas | 0.181 | ug/l | 4927.03 |
| Sb | 121 | 115 | 3 | He | 0.177 | ug/l | 1214.84 |
| Sb | 123 | 115 | 1 | No Gas | 0.188 | ug/l | 3900.60 |
| Sb | 123 | 115 | 3 | He | 0.178 | ug/l | 963.80 |
| Ba | 135 | 115 | 1 | No Gas | 11.851 | ug/l | 53489.88 |
| Ba | 137 | 115 | 1 | No Gas | 11.461 | ug/l | 91943.85 |
| La | 139 | 115 | 3 | He | 0.026 | ug/l | 578.91 |
| Ce | 140 | 115 | 3 | He | 0.075 | ug/l | 1790.13 |
| Hg | 201 | 209 | 1 | No Gas | 0.011 | ug/l | 64.66 |
| Hg | 202 | 209 | 1 | No Gas | 0.027 | ug/l | 303.61 |
| Hg | 202 | 209 | 3 | He | 0.022 | ug/l | 113.65 |
| Tl | 203 | 209 | 3 | He | 0.077 | ug/l | 1312.60 |
| Tl | 205 | 209 | 1 | No Gas | 0.053 | ug/l | 4932.08 |
| Tl | 205 | 209 | 3 | He | 0.074 | ug/l | 3084.93 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.119 | ug/l | 2538.04 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.109 | ug/l | 2061.29 |
| Pb | 208 | 209 | 1 | No Gas | 0.110 | ug/l | 9674.78 |
| Th | 232 | 209 | 3 | He | 0.052 | ug/l | 2241.10 |
| U | 238 | 209 | 1 | No Gas | 0.016 | ug/l | 1191.82 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4272859.18 | 75.8 |
| Sc | 45 | 2 | H2 | 2169582.32 | 79.0 |
| Sc | 45 | 3 | He | 227804.07 | 71.5 |
| Ge | 72 | 1 | No Gas | 1212157.55 | 80.2 |
| Ge | 72 | 2 | H2 | 806865.21 | 81.3 |
| Ge | 72 | 3 | He | 172752.89 | 77.6 |
| In | 115 | 1 | No Gas | 10073472.66 | 82.8 |
| In | 115 | 3 | He | 2088325.65 | 79.2 |
| Tb | 159 | 1 | No Gas | 14654334.44 | 89.7 |
| Tb | 159 | 3 | He | 6149755.37 | 90.0 |
| Ho | 165 | 1 | No Gas | 14020936.27 | 91.9 |
| Ho | 165 | 3 | He | 6024344.13 | 91.1 |
| Lu | 175 | 1 | No Gas | 14498683.38 | 93.2 |
| Lu | 175 | 3 | He | 4876085.29 | 91.0 |
| Bi | 209 | 1 | No Gas | 10225725.35 | 90.3 |
| Bi | 209 | 3 | He | 4523518.57 | 90.2 |

ICPMS207-B Analytical Data

Sample Name B22011228-001A
File Name 105SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 02:51:25
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | -0.596 | ug/l | 10617.97 |
| Be | 9 | 45 | 1 | No Gas | -0.055 | ug/l | 34.66 |
| B | 11 | 45 | 1 | No Gas | 60.075 | ug/l | 139303.11 |
| Na | 23 | 45 | 3 | He | 36066.350 | ug/l | 28110976.25 |
| Mg | 24 | 45 | 3 | He | 8483.314 | ug/l | 3645017.19 |
| Al | 27 | 45 | 1 | No Gas | 1.047 | ug/l | 37898.16 |
| Si | 28 | 45 | 2 | H2 | 23132.874 | ug/l | 46125676.21 |
| K | 39 | 72 | 3 | He | 1653.488 | ug/l | 832174.24 |
| Ca | 40 | 72 | 2 | H2 | 7731.269 | ug/l | 58111892.34 |
| Ti | 47 | 72 | 1 | No Gas | 1.440 | ug/l | 3710.89 |
| V | 51 | 72 | 1 | No Gas | 20.508 | ug/l | 558690.72 |
| V | 51 | 72 | 3 | He | 17.792 | ug/l | 94819.53 |
| Cr | 52 | 72 | 1 | No Gas | 0.869 | ug/l | 119448.47 |
| Cr | 52 | 72 | 3 | He | 3.078 | ug/l | 16693.99 |
| Mn | 55 | 72 | 1 | No Gas | -0.001 | ug/l | 10629.49 |
| Mn | 55 | 72 | 3 | He | 0.089 | ug/l | 445.92 |
| Fe | 56 | 72 | 2 | H2 | 9.152 | ug/l | 166591.94 |
| Fe | 56 | 72 | 3 | He | 0.635 | ug/l | 8390.86 |
| Co | 59 | 72 | 1 | No Gas | 0.005 | ug/l | 691.98 |
| Ni | 60 | 72 | 1 | No Gas | 0.143 | ug/l | 1510.43 |
| Ni | 60 | 72 | 3 | He | 0.127 | ug/l | 362.23 |
| Cu | 63 | 72 | 1 | No Gas | 0.256 | ug/l | 6406.65 |
| Cu | 63 | 72 | 3 | He | 0.065 | ug/l | 1004.84 |
| Cu | 65 | 72 | 1 | No Gas | 0.104 | ug/l | 1824.85 |
| Zn | 66 | 72 | 1 | No Gas | 3.150 | ug/l | 19489.04 |
| Zn | 66 | 72 | 3 | He | 3.346 | ug/l | 4133.95 |
| As | 75 | 72 | 1 | No Gas | -0.400 | ug/l | 11175.51 |
| As | 75 | 72 | 3 | He | -0.093 | ug/l | 170.73 |
| Se | 78 | 72 | 2 | H2 | 0.150 | ug/l | 126.00 |
| Br | 79 | 72 | 1 | No Gas | 17.539 | ug/l | 308716.89 |
| Br | 79 | 72 | 2 | H2 | 19.146 | ug/l | 171244.54 |
| Se | 82 | 72 | 1 | No Gas | 0.467 | ug/l | 914.63 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 37287.49 |
| Sr | 88 | 72 | 1 | No Gas | 59.019 | ug/l | 2951169.43 |
| Sr | 88 | 72 | 3 | He | 57.939 | ug/l | 304681.26 |
| Mo | 95 | 115 | 1 | No Gas | 0.790 | ug/l | 8555.95 |
| Mo | 95 | 115 | 3 | He | 0.848 | ug/l | 3190.38 |
| Mo | 98 | 115 | 1 | No Gas | 0.810 | ug/l | 14292.09 |
| Ag | 107 | 115 | 1 | No Gas | -0.064 | ug/l | 106.04 |
| Ag | 109 | 115 | 1 | No Gas | -0.061 | ug/l | 118.72 |
| Cd | 111 | 115 | 1 | No Gas | 0.014 | ug/l | 81.00 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.014 | ug/l | 34.45 |
| Cd | 114 | 115 | 1 | No Gas | 0.027 | ug/l | 195.23 |
| Cd | 114 | 115 | 3 | He | 0.014 | ug/l | 79.98 |
| Sn | 118 | 115 | 1 | No Gas | -0.076 | ug/l | 1843.15 |
| Sn | 118 | 115 | 3 | He | -0.092 | ug/l | 428.90 |
| Sb | 121 | 115 | 1 | No Gas | 0.013 | ug/l | 1265.18 |
| Sb | 121 | 115 | 3 | He | 0.018 | ug/l | 327.37 |
| Sb | 123 | 115 | 1 | No Gas | 0.013 | ug/l | 957.80 |
| Sb | 123 | 115 | 3 | He | 0.016 | ug/l | 245.70 |
| Ba | 135 | 115 | 1 | No Gas | 1.951 | ug/l | 10679.63 |
| Ba | 137 | 115 | 1 | No Gas | 1.877 | ug/l | 18262.47 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 16.66 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 38.89 |
| Hg | 201 | 209 | 1 | No Gas | 0.000 | ug/l | 33.32 |
| Hg | 202 | 209 | 1 | No Gas | 0.015 | ug/l | 242.29 |
| Hg | 202 | 209 | 3 | He | 0.013 | ug/l | 92.65 |
| Tl | 203 | 209 | 3 | He | 0.032 | ug/l | 1001.11 |
| Tl | 205 | 209 | 1 | No Gas | 0.021 | ug/l | 4020.65 |
| Tl | 205 | 209 | 3 | He | 0.033 | ug/l | 2461.22 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.024 | ug/l | 1120.06 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.027 | ug/l | 1017.83 |
| Pb | 208 | 209 | 1 | No Gas | 0.023 | ug/l | 4503.67 |
| Th | 232 | 209 | 3 | He | -0.008 | ug/l | 264.78 |
| U | 238 | 209 | 1 | No Gas | 0.006 | ug/l | 620.22 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5495680.86 | 97.5 |
| Sc | 45 | 2 | H2 | 2638018.25 | 96.1 |
| Sc | 45 | 3 | He | 287940.85 | 90.4 |
| Ge | 72 | 1 | No Gas | 1466691.58 | 97.0 |
| Ge | 72 | 2 | H2 | 952013.41 | 95.9 |
| Ge | 72 | 3 | He | 208211.30 | 93.5 |
| In | 115 | 1 | No Gas | 12153780.81 | 99.8 |
| In | 115 | 3 | He | 2512547.94 | 95.3 |
| Tb | 159 | 1 | No Gas | 16877755.91 | 103.3 |
| Tb | 159 | 3 | He | 6905326.90 | 101.1 |
| Ho | 165 | 1 | No Gas | 16370620.15 | 107.3 |
| Ho | 165 | 3 | He | 6694351.41 | 101.2 |
| Lu | 175 | 1 | No Gas | 17009135.41 | 109.3 |
| Lu | 175 | 3 | He | 5539614.79 | 103.4 |
| Bi | 209 | 1 | No Gas | 12217198.25 | 107.9 |
| Bi | 209 | 3 | He | 5253226.95 | 104.8 |

ICPMS207-B Analytical Data

Sample Name B22011228-001B
File Name 106SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 02:57:39
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 0.129 | ug/l | 12988.75 |
| Be | 9 | 45 | 1 | No Gas | -0.051 | ug/l | 36.66 |
| B | 11 | 45 | 1 | No Gas | 65.183 | ug/l | 116375.32 |
| Na | 23 | 45 | 3 | He | 36392.870 | ug/l | 22664494.66 |
| Mg | 24 | 45 | 3 | He | 8756.522 | ug/l | 3005395.61 |
| Al | 27 | 45 | 1 | No Gas | 5.089 | ug/l | 93512.25 |
| Si | 28 | 45 | 2 | H2 | 20247.413 | ug/l | 34399736.43 |
| K | 39 | 72 | 3 | He | 1646.031 | ug/l | 693584.47 |
| Ca | 40 | 72 | 2 | H2 | 7718.277 | ug/l | 51270774.38 |
| Ti | 47 | 72 | 1 | No Gas | 1.761 | ug/l | 3687.53 |
| V | 51 | 72 | 1 | No Gas | 20.811 | ug/l | 461381.51 |
| V | 51 | 72 | 3 | He | 22.437 | ug/l | 96865.16 |
| Cr | 52 | 72 | 1 | No Gas | 4.256 | ug/l | 176493.33 |
| Cr | 52 | 72 | 3 | He | 3.385 | ug/l | 15293.57 |
| Mn | 55 | 72 | 1 | No Gas | 2.090 | ug/l | 72969.71 |
| Mn | 55 | 72 | 3 | He | 1.465 | ug/l | 4226.77 |
| Fe | 56 | 72 | 2 | H2 | 55.582 | ug/l | 853051.32 |
| Fe | 56 | 72 | 3 | He | 53.108 | ug/l | 207730.24 |
| Co | 59 | 72 | 1 | No Gas | 0.126 | ug/l | 3733.08 |
| Ni | 60 | 72 | 1 | No Gas | 0.286 | ug/l | 2089.35 |
| Ni | 60 | 72 | 3 | He | 0.248 | ug/l | 518.90 |
| Cu | 63 | 72 | 1 | No Gas | 0.927 | ug/l | 14831.52 |
| Cu | 63 | 72 | 3 | He | 0.750 | ug/l | 4041.76 |
| Cu | 65 | 72 | 1 | No Gas | 0.696 | ug/l | 5660.72 |
| Zn | 66 | 72 | 1 | No Gas | 11.655 | ug/l | 57277.29 |
| Zn | 66 | 72 | 3 | He | 11.924 | ug/l | 11876.02 |
| As | 75 | 72 | 1 | No Gas | 0.416 | ug/l | 13653.22 |
| As | 75 | 72 | 3 | He | 0.168 | ug/l | 363.67 |
| Se | 78 | 72 | 2 | H2 | 0.198 | ug/l | 137.33 |
| Br | 79 | 72 | 1 | No Gas | 6.973 | ug/l | 136568.12 |
| Br | 79 | 72 | 2 | H2 | 5.811 | ug/l | 65825.41 |
| Se | 82 | 72 | 1 | No Gas | 0.107 | ug/l | 639.14 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 34512.72 |
| Sr | 88 | 72 | 1 | No Gas | 64.210 | ug/l | 2650059.14 |
| Sr | 88 | 72 | 3 | He | 61.223 | ug/l | 269412.14 |
| Mo | 95 | 115 | 1 | No Gas | 0.946 | ug/l | 8901.71 |
| Mo | 95 | 115 | 3 | He | 1.014 | ug/l | 3272.62 |
| Mo | 98 | 115 | 1 | No Gas | 0.959 | ug/l | 14682.20 |
| Ag | 107 | 115 | 1 | No Gas | -0.064 | ug/l | 92.04 |
| Ag | 109 | 115 | 1 | No Gas | -0.062 | ug/l | 93.37 |
| Cd | 111 | 115 | 1 | No Gas | 0.005 | ug/l | 23.63 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.002 | ug/l | 9.00 |
| Cd | 114 | 115 | 1 | No Gas | 0.014 | ug/l | 21.80 |
| Cd | 114 | 115 | 3 | He | 0.001 | ug/l | 13.82 |
| Sn | 118 | 115 | 1 | No Gas | 0.397 | ug/l | 8838.63 |
| Sn | 118 | 115 | 3 | He | 0.458 | ug/l | 2529.13 |
| Sb | 121 | 115 | 1 | No Gas | 0.041 | ug/l | 1779.29 |
| Sb | 121 | 115 | 3 | He | 0.049 | ug/l | 471.39 |
| Sb | 123 | 115 | 1 | No Gas | 0.043 | ug/l | 1405.21 |
| Sb | 123 | 115 | 3 | He | 0.054 | ug/l | 394.71 |
| Ba | 135 | 115 | 1 | No Gas | 1.970 | ug/l | 9391.24 |
| Ba | 137 | 115 | 1 | No Gas | 1.901 | ug/l | 16094.17 |
| La | 139 | 115 | 3 | He | 0.002 | ug/l | 65.56 |
| Ce | 140 | 115 | 3 | He | 0.005 | ug/l | 154.45 |
| Hg | 201 | 209 | 1 | No Gas | 0.012 | ug/l | 69.66 |
| Hg | 202 | 209 | 1 | No Gas | 0.037 | ug/l | 397.26 |
| Hg | 202 | 209 | 3 | He | 0.033 | ug/l | 160.30 |
| Tl | 203 | 209 | 3 | He | 0.045 | ug/l | 1023.12 |
| Tl | 205 | 209 | 1 | No Gas | 0.029 | ug/l | 3879.49 |
| Tl | 205 | 209 | 3 | He | 0.048 | ug/l | 2541.27 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.130 | ug/l | 2818.10 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.129 | ug/l | 2429.13 |
| Pb | 208 | 209 | 1 | No Gas | 0.126 | ug/l | 11133.01 |
| Th | 232 | 209 | 3 | He | 0.012 | ug/l | 954.42 |
| U | 238 | 209 | 1 | No Gas | 0.007 | ug/l | 585.57 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4274928.85 | 75.8 |
| Sc | 45 | 2 | H2 | 2247717.47 | 81.9 |
| Sc | 45 | 3 | He | 230017.23 | 72.2 |
| Ge | 72 | 1 | No Gas | 1218035.49 | 80.6 |
| Ge | 72 | 2 | H2 | 841396.86 | 84.8 |
| Ge | 72 | 3 | He | 174251.74 | 78.3 |
| In | 115 | 1 | No Gas | 10646620.96 | 87.5 |
| In | 115 | 3 | He | 2156789.46 | 81.8 |
| Tb | 159 | 1 | No Gas | 15428954.66 | 94.4 |
| Tb | 159 | 3 | He | 6288819.48 | 92.0 |
| Ho | 165 | 1 | No Gas | 14817499.17 | 97.2 |
| Ho | 165 | 3 | He | 6051537.00 | 91.5 |
| Lu | 175 | 1 | No Gas | 15094520.34 | 97.0 |
| Lu | 175 | 3 | He | 4898721.73 | 91.5 |
| Bi | 209 | 1 | No Gas | 10686670.60 | 94.4 |
| Bi | 209 | 3 | He | 4656667.73 | 92.9 |

ICPMS207-B Analytical Data

Sample Name Rinse
File Name 107BLKV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 03:03:53
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | -0.177 | ug/l | 11707.86 |
| Be | 9 | 45 | 1 | No Gas | -0.055 | ug/l | 28.66 |
| B | 11 | 45 | 1 | No Gas | 0.740 | ug/l | 5854.16 |
| Na | 23 | 45 | 3 | He | 38.037 | ug/l | 62254.79 |
| Mg | 24 | 45 | 3 | He | 0.003 | ug/l | 1430.57 |
| Al | 27 | 45 | 1 | No Gas | -0.364 | ug/l | 7285.16 |
| Si | 28 | 45 | 2 | H2 | 125.141 | ug/l | 228999.73 |
| K | 39 | 72 | 3 | He | -31.460 | ug/l | 57388.18 |
| Ca | 40 | 72 | 2 | H2 | -1.458 | ug/l | 81948.44 |
| Ti | 47 | 72 | 1 | No Gas | -0.014 | ug/l | 160.16 |
| V | 51 | 72 | 1 | No Gas | 2.604 | ug/l | 19486.09 |
| V | 51 | 72 | 3 | He | 0.637 | ug/l | 15811.91 |
| Cr | 52 | 72 | 1 | No Gas | -0.327 | ug/l | 76702.26 |
| Cr | 52 | 72 | 3 | He | 0.014 | ug/l | 805.58 |
| Mn | 55 | 72 | 1 | No Gas | 0.186 | ug/l | 15634.09 |
| Mn | 55 | 72 | 3 | He | 0.131 | ug/l | 527.91 |
| Fe | 56 | 72 | 2 | H2 | 0.093 | ug/l | 10876.64 |
| Fe | 56 | 72 | 3 | He | 0.064 | ug/l | 5207.85 |
| Co | 59 | 72 | 1 | No Gas | -0.002 | ug/l | 425.83 |
| Ni | 60 | 72 | 1 | No Gas | -0.010 | ug/l | 369.27 |
| Ni | 60 | 72 | 3 | He | 0.010 | ug/l | 102.22 |
| Cu | 63 | 72 | 1 | No Gas | 0.003 | ug/l | 1828.18 |
| Cu | 63 | 72 | 3 | He | 0.008 | ug/l | 614.22 |
| Cu | 65 | 72 | 1 | No Gas | 0.005 | ug/l | 877.04 |
| Zn | 66 | 72 | 1 | No Gas | -0.003 | ug/l | 876.09 |
| Zn | 66 | 72 | 3 | He | -0.003 | ug/l | 188.89 |
| As | 75 | 72 | 1 | No Gas | 0.997 | ug/l | 18585.87 |
| As | 75 | 72 | 3 | He | -0.033 | ug/l | 208.27 |
| Se | 78 | 72 | 2 | H2 | -0.003 | ug/l | 29.56 |
| Br | 79 | 72 | 1 | No Gas | 17.699 | ug/l | 276622.43 |
| Br | 79 | 72 | 2 | H2 | 18.224 | ug/l | 156390.50 |
| Se | 82 | 72 | 1 | No Gas | 0.081 | ug/l | 676.21 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 18168.78 |
| Sr | 88 | 72 | 1 | No Gas | 0.000 | ug/l | 705.29 |
| Sr | 88 | 72 | 3 | He | -0.009 | ug/l | 207.78 |
| Mo | 95 | 115 | 1 | No Gas | 0.000 | ug/l | 60.00 |
| Mo | 95 | 115 | 3 | He | 0.005 | ug/l | 38.89 |
| Mo | 98 | 115 | 1 | No Gas | -0.001 | ug/l | 79.80 |
| Ag | 107 | 115 | 1 | No Gas | -0.002 | ug/l | 1733.47 |
| Ag | 109 | 115 | 1 | No Gas | -0.002 | ug/l | 1637.42 |
| Cd | 111 | 115 | 1 | No Gas | 0.001 | ug/l | 5.34 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.002 | ug/l | 9.89 |
| Cd | 114 | 115 | 1 | No Gas | 0.002 | ug/l | -143.63 |
| Cd | 114 | 115 | 3 | He | 0.002 | ug/l | 20.35 |
| Sn | 118 | 115 | 1 | No Gas | 0.002 | ug/l | 3094.21 |
| Sn | 118 | 115 | 3 | He | -0.006 | ug/l | 768.92 |
| Sb | 121 | 115 | 1 | No Gas | 0.039 | ug/l | 1928.90 |
| Sb | 121 | 115 | 3 | He | 0.003 | ug/l | 205.69 |
| Sb | 123 | 115 | 1 | No Gas | -0.002 | ug/l | 619.41 |
| Sb | 123 | 115 | 3 | He | 0.005 | ug/l | 175.02 |
| Ba | 135 | 115 | 1 | No Gas | 0.004 | ug/l | 86.49 |
| Ba | 137 | 115 | 1 | No Gas | 0.002 | ug/l | 116.43 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 16.67 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 34.44 |
| Hg | 201 | 209 | 1 | No Gas | 0.000 | ug/l | 29.99 |
| Hg | 202 | 209 | 1 | No Gas | 0.000 | ug/l | 100.31 |
| Hg | 202 | 209 | 3 | He | 0.002 | ug/l | 42.66 |
| Tl | 203 | 209 | 3 | He | 0.005 | ug/l | 677.63 |
| Tl | 205 | 209 | 1 | No Gas | 0.002 | ug/l | 2879.22 |
| Tl | 205 | 209 | 3 | He | 0.003 | ug/l | 1614.75 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.001 | ug/l | 642.24 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.001 | ug/l | 551.13 |
| Pb | 208 | 209 | 1 | No Gas | 0.000 | ug/l | 2519.00 |
| Th | 232 | 209 | 3 | He | -0.007 | ug/l | 311.46 |
| U | 238 | 209 | 1 | No Gas | 0.000 | ug/l | 103.98 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4531190.86 | 80.4 |
| Sc | 45 | 2 | H2 | 2354441.78 | 85.8 |
| Sc | 45 | 3 | He | 243607.40 | 76.5 |
| Ge | 72 | 1 | No Gas | 1305675.44 | 86.4 |
| Ge | 72 | 2 | H2 | 904871.89 | 91.2 |
| Ge | 72 | 3 | He | 187649.88 | 84.3 |
| In | 115 | 1 | No Gas | 11675084.59 | 95.9 |
| In | 115 | 3 | He | 2351441.72 | 89.2 |
| Tb | 159 | 1 | No Gas | 16578861.19 | 101.5 |
| Tb | 159 | 3 | He | 6759015.71 | 98.9 |
| Ho | 165 | 1 | No Gas | 15740187.23 | 103.2 |
| Ho | 165 | 3 | He | 6449824.91 | 97.5 |
| Lu | 175 | 1 | No Gas | 16567896.79 | 106.5 |
| Lu | 175 | 3 | He | 5182539.54 | 96.8 |
| Bi | 209 | 1 | No Gas | 11899432.50 | 105.1 |
| Bi | 209 | 3 | He | 5225525.36 | 104.3 |

ICPMS207-B Analytical Data

Sample Name CCV
File Name 108_CCV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 03:10:06
Sample Type CCV
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 441.952 | ug/l | 3003425.61 |
| Be | 9 | 45 | 1 | No Gas | 39.676 | ug/l | 114258.65 |
| B | 11 | 45 | 1 | No Gas | 41.446 | ug/l | 77523.41 |
| Na | 23 | 45 | 3 | He | 12073.499 | ug/l | 8187658.42 |
| Mg | 24 | 45 | 3 | He | 12243.562 | ug/l | 4561354.02 |
| Al | 27 | 45 | 1 | No Gas | 53.361 | ug/l | 884671.38 |
| Si | 28 | 45 | 2 | H2 | 284.977 | ug/l | 516000.77 |
| K | 39 | 72 | 3 | He | 11189.460 | ug/l | 4765855.07 |
| Ca | 40 | 72 | 2 | H2 | 11738.432 | ug/l | 85367811.47 |
| Ti | 47 | 72 | 1 | No Gas | 45.433 | ug/l | 98170.43 |
| V | 51 | 72 | 1 | No Gas | 49.161 | ug/l | 1260468.81 |
| V | 51 | 72 | 3 | He | 50.004 | ug/l | 220600.68 |
| Cr | 52 | 72 | 1 | No Gas | 46.774 | ug/l | 1237734.38 |
| Cr | 52 | 72 | 3 | He | 48.037 | ug/l | 228551.43 |
| Mn | 55 | 72 | 1 | No Gas | 48.737 | ug/l | 1618334.95 |
| Mn | 55 | 72 | 3 | He | 48.485 | ug/l | 149367.82 |
| Fe | 56 | 72 | 2 | H2 | 1289.218 | ug/l | 21465423.63 |
| Fe | 56 | 72 | 3 | He | 1257.223 | ug/l | 5290582.01 |
| Co | 59 | 72 | 1 | No Gas | 47.228 | ug/l | 1318931.12 |
| Ni | 60 | 72 | 1 | No Gas | 46.765 | ug/l | 297686.98 |
| Ni | 60 | 72 | 3 | He | 49.659 | ug/l | 97137.89 |
| Cu | 63 | 72 | 1 | No Gas | 48.560 | ug/l | 744864.25 |
| Cu | 63 | 72 | 3 | He | 50.853 | ug/l | 261955.58 |
| Cu | 65 | 72 | 1 | No Gas | 47.741 | ug/l | 360628.42 |
| Zn | 66 | 72 | 1 | No Gas | 48.494 | ug/l | 253540.40 |
| Zn | 66 | 72 | 3 | He | 51.501 | ug/l | 55712.85 |
| As | 75 | 72 | 1 | No Gas | 50.691 | ug/l | 326276.25 |
| As | 75 | 72 | 3 | He | 51.376 | ug/l | 48072.35 |
| Se | 78 | 72 | 2 | H2 | 52.243 | ug/l | 31404.25 |
| Br | 79 | 72 | 1 | No Gas | 14.970 | ug/l | 243117.92 |
| Br | 79 | 72 | 2 | H2 | 15.065 | ug/l | 137115.54 |
| Se | 82 | 72 | 1 | No Gas | 51.373 | ug/l | 18849.90 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 32645.58 |
| Sr | 88 | 72 | 1 | No Gas | 53.275 | ug/l | 2366353.37 |
| Sr | 88 | 72 | 3 | He | 51.768 | ug/l | 250396.61 |
| Mo | 95 | 115 | 1 | No Gas | 49.943 | ug/l | 483993.53 |
| Mo | 95 | 115 | 3 | He | 50.779 | ug/l | 175310.15 |
| Mo | 98 | 115 | 1 | No Gas | 50.238 | ug/l | 792620.80 |
| Ag | 107 | 115 | 1 | No Gas | 19.960 | ug/l | 497052.53 |
| Ag | 109 | 115 | 1 | No Gas | 20.040 | ug/l | 484366.81 |
| Cd | 111 | 115 | 1 | No Gas | 50.729 | ug/l | 283920.63 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Cd | 111 | 115 | 3 | He | 50.753 | ug/l | 92481.90 |
| Cd | 114 | 115 | 1 | No Gas | 52.119 | ug/l | 644965.14 |
| Cd | 114 | 115 | 3 | He | 51.100 | ug/l | 228603.99 |
| Sn | 118 | 115 | 1 | No Gas | 53.994 | ug/l | 859262.52 |
| Sn | 118 | 115 | 3 | He | 51.615 | ug/l | 218979.72 |
| Sb | 121 | 115 | 1 | No Gas | 54.935 | ug/l | 1375907.89 |
| Sb | 121 | 115 | 3 | He | 53.319 | ug/l | 350934.86 |
| Sb | 123 | 115 | 1 | No Gas | 54.438 | ug/l | 1049127.62 |
| Sb | 123 | 115 | 3 | He | 52.933 | ug/l | 275323.55 |
| Ba | 135 | 115 | 1 | No Gas | 51.572 | ug/l | 252759.33 |
| Ba | 137 | 115 | 1 | No Gas | 51.566 | ug/l | 449373.99 |
| La | 139 | 115 | 3 | He | 50.780 | ug/l | 1214699.32 |
| Ce | 140 | 115 | 3 | He | 51.782 | ug/l | 1355207.11 |
| Hg | 201 | 209 | 1 | No Gas | 1.002 | ug/l | 3798.79 |
| Hg | 202 | 209 | 1 | No Gas | 1.007 | ug/l | 8777.80 |
| Hg | 202 | 209 | 3 | He | 0.967 | ug/l | 4101.14 |
| Tl | 203 | 209 | 3 | He | 48.609 | ug/l | 526342.37 |
| Tl | 205 | 209 | 1 | No Gas | 51.984 | ug/l | 2678133.57 |
| Tl | 205 | 209 | 3 | He | 49.231 | ug/l | 1263159.66 |
| [Pb] | 206 | 209 | 1 | No Gas | 51.227 | ug/l | 927024.91 |
| [Pb] | 207 | 209 | 1 | No Gas | 51.541 | ug/l | 815266.07 |
| Pb | 208 | 209 | 1 | No Gas | 50.788 | ug/l | 3710299.62 |
| Th | 232 | 209 | 3 | He | 49.507 | ug/l | 1788653.00 |
| U | 238 | 209 | 1 | No Gas | 51.628 | ug/l | 3751846.17 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4354513.01 | 77.2 |
| Sc | 45 | 2 | H2 | 2366749.94 | 86.2 |
| Sc | 45 | 3 | He | 249701.35 | 78.4 |
| Ge | 72 | 1 | No Gas | 1302465.21 | 86.1 |
| Ge | 72 | 2 | H2 | 921665.94 | 92.9 |
| Ge | 72 | 3 | He | 191518.63 | 86.0 |
| In | 115 | 1 | No Gas | 10947721.12 | 89.9 |
| In | 115 | 3 | He | 2320878.50 | 88.1 |
| Tb | 159 | 1 | No Gas | 15821537.02 | 96.8 |
| Tb | 159 | 3 | He | 6522163.65 | 95.4 |
| Ho | 165 | 1 | No Gas | 15109576.96 | 99.1 |
| Ho | 165 | 3 | He | 6320021.15 | 95.6 |
| Lu | 175 | 1 | No Gas | 15714012.21 | 101.0 |
| Lu | 175 | 3 | He | 5100945.82 | 95.2 |
| Bi | 209 | 1 | No Gas | 10987938.07 | 97.0 |
| Bi | 209 | 3 | He | 4894891.93 | 97.7 |

ICPMS207-B Analytical Data

Sample Name CCB
File Name 109_CCB.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 03:16:21
Sample Type CCB
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | 0.223 | ug/l | 14687.63 |
| Be | 9 | 45 | 1 | No Gas | -0.042 | ug/l | 66.99 |
| B | 11 | 45 | 1 | No Gas | 0.293 | ug/l | 5086.24 |
| Na | 23 | 45 | 3 | He | 59.507 | ug/l | 75556.18 |
| Mg | 24 | 45 | 3 | He | -0.407 | ug/l | 1267.54 |
| Al | 27 | 45 | 1 | No Gas | -0.388 | ug/l | 6958.33 |
| Si | 28 | 45 | 2 | H2 | 46.839 | ug/l | 90781.25 |
| K | 39 | 72 | 3 | He | -27.659 | ug/l | 59464.07 |
| Ca | 40 | 72 | 2 | H2 | -0.929 | ug/l | 86422.59 |
| Ti | 47 | 72 | 1 | No Gas | 0.015 | ug/l | 220.22 |
| V | 51 | 72 | 1 | No Gas | 0.143 | ug/l | -45818.13 |
| V | 51 | 72 | 3 | He | 1.295 | ug/l | 18640.80 |
| Cr | 52 | 72 | 1 | No Gas | 0.054 | ug/l | 85470.16 |
| Cr | 52 | 72 | 3 | He | 0.019 | ug/l | 837.81 |
| Mn | 55 | 72 | 1 | No Gas | 0.071 | ug/l | 11751.45 |
| Mn | 55 | 72 | 3 | He | 0.004 | ug/l | 145.97 |
| Fe | 56 | 72 | 2 | H2 | 0.071 | ug/l | 10607.87 |
| Fe | 56 | 72 | 3 | He | 0.029 | ug/l | 5107.72 |
| Co | 59 | 72 | 1 | No Gas | -0.002 | ug/l | 422.50 |
| Ni | 60 | 72 | 1 | No Gas | -0.004 | ug/l | 402.54 |
| Ni | 60 | 72 | 3 | He | 0.012 | ug/l | 106.67 |
| Cu | 63 | 72 | 1 | No Gas | 0.020 | ug/l | 2065.65 |
| Cu | 63 | 72 | 3 | He | 0.018 | ug/l | 671.88 |
| Cu | 65 | 72 | 1 | No Gas | 0.022 | ug/l | 1001.77 |
| Zn | 66 | 72 | 1 | No Gas | -0.002 | ug/l | 878.91 |
| Zn | 66 | 72 | 3 | He | 0.036 | ug/l | 231.11 |
| As | 75 | 72 | 1 | No Gas | -0.190 | ug/l | 11097.30 |
| As | 75 | 72 | 3 | He | -0.004 | ug/l | 236.80 |
| Se | 78 | 72 | 2 | H2 | 0.005 | ug/l | 34.56 |
| Br | 79 | 72 | 1 | No Gas | 0.371 | ug/l | 66079.21 |
| Br | 79 | 72 | 2 | H2 | 0.244 | ug/l | 32662.24 |
| Se | 82 | 72 | 1 | No Gas | -0.067 | ug/l | 619.94 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 18748.34 |
| Sr | 88 | 72 | 1 | No Gas | 0.000 | ug/l | 691.98 |
| Sr | 88 | 72 | 3 | He | -0.014 | ug/l | 183.34 |
| Mo | 95 | 115 | 1 | No Gas | 0.021 | ug/l | 264.45 |
| Mo | 95 | 115 | 3 | He | 0.012 | ug/l | 60.00 |
| Mo | 98 | 115 | 1 | No Gas | 0.021 | ug/l | 425.57 |
| Ag | 107 | 115 | 1 | No Gas | -0.003 | ug/l | 1666.77 |
| Ag | 109 | 115 | 1 | No Gas | -0.001 | ug/l | 1616.75 |
| Cd | 111 | 115 | 1 | No Gas | -0.004 | ug/l | -22.86 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.004 | ug/l | 12.67 |
| Cd | 114 | 115 | 1 | No Gas | -0.001 | ug/l | -173.99 |
| Cd | 114 | 115 | 3 | He | 0.005 | ug/l | 33.96 |
| Sn | 118 | 115 | 1 | No Gas | 0.042 | ug/l | 3666.57 |
| Sn | 118 | 115 | 3 | He | 0.042 | ug/l | 964.49 |
| Sb | 121 | 115 | 1 | No Gas | 0.133 | ug/l | 4305.43 |
| Sb | 121 | 115 | 3 | He | 0.094 | ug/l | 805.77 |
| Sb | 123 | 115 | 1 | No Gas | 0.131 | ug/l | 3240.37 |
| Sb | 123 | 115 | 3 | He | 0.093 | ug/l | 629.08 |
| Ba | 135 | 115 | 1 | No Gas | 0.000 | ug/l | 59.88 |
| Ba | 137 | 115 | 1 | No Gas | 0.000 | ug/l | 89.82 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 14.44 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 37.78 |
| Hg | 201 | 209 | 1 | No Gas | 0.004 | ug/l | 44.32 |
| Hg | 202 | 209 | 1 | No Gas | 0.004 | ug/l | 135.30 |
| Hg | 202 | 209 | 3 | He | 0.005 | ug/l | 52.99 |
| Tl | 203 | 209 | 3 | He | 0.096 | ug/l | 1674.78 |
| Tl | 205 | 209 | 1 | No Gas | 0.078 | ug/l | 6775.15 |
| Tl | 205 | 209 | 3 | He | 0.097 | ug/l | 4040.91 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.008 | ug/l | 734.47 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.007 | ug/l | 617.80 |
| Pb | 208 | 209 | 1 | No Gas | 0.007 | ug/l | 2970.16 |
| Th | 232 | 209 | 3 | He | 0.012 | ug/l | 1023.12 |
| U | 238 | 209 | 1 | No Gas | 0.002 | ug/l | 272.28 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4581754.16 | 81.3 |
| Sc | 45 | 2 | H2 | 2383740.31 | 86.8 |
| Sc | 45 | 3 | He | 240919.07 | 75.6 |
| Ge | 72 | 1 | No Gas | 1294502.99 | 85.6 |
| Ge | 72 | 2 | H2 | 912280.40 | 91.9 |
| Ge | 72 | 3 | He | 189312.00 | 85.0 |
| In | 115 | 1 | No Gas | 11330135.20 | 93.1 |
| In | 115 | 3 | He | 2326345.53 | 88.3 |
| Tb | 159 | 1 | No Gas | 15804088.74 | 96.7 |
| Tb | 159 | 3 | He | 6437896.84 | 94.2 |
| Ho | 165 | 1 | No Gas | 15183993.25 | 99.6 |
| Ho | 165 | 3 | He | 6254169.99 | 94.6 |
| Lu | 175 | 1 | No Gas | 15877212.80 | 102.0 |
| Lu | 175 | 3 | He | 5221382.29 | 97.5 |
| Bi | 209 | 1 | No Gas | 11364887.02 | 100.4 |
| Bi | 209 | 3 | He | 5031995.04 | 100.4 |

ICPMS207-B Analytical Data

Sample Name Cal Blk
File Name 110CALB.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 03:22:35
Sample Type CalBlk
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|----------|
| Li | 7 | 45 | 1 | No Gas | 0.000 | ug/l | 13217.69 |
| Be | 9 | 45 | 1 | No Gas | 0.000 | ug/l | 66.99 |
| B | 11 | 45 | 1 | No Gas | 0.000 | ug/l | 3962.12 |
| Na | 23 | 45 | 3 | He | 0.000 | ug/l | 72095.94 |
| Mg | 24 | 45 | 3 | He | 0.000 | ug/l | 1377.34 |
| Al | 27 | 45 | 1 | No Gas | 0.000 | ug/l | 6735.99 |
| Si | 28 | 45 | 2 | H2 | 0.000 | ug/l | 72253.14 |
| K | 39 | 72 | 3 | He | 0.000 | ug/l | 57721.58 |
| Ca | 40 | 72 | 2 | H2 | 0.000 | ug/l | 84618.99 |
| Ti | 47 | 72 | 1 | No Gas | 0.000 | ug/l | 170.17 |
| V | 51 | 72 | 1 | No Gas | 0.000 | ug/l | 3882.62 |
| V | 51 | 72 | 3 | He | 0.000 | ug/l | 18300.38 |
| Cr | 52 | 72 | 1 | No Gas | 0.000 | ug/l | 80205.85 |
| Cr | 52 | 72 | 3 | He | 0.000 | ug/l | 842.25 |
| Mn | 55 | 72 | 1 | No Gas | 0.000 | ug/l | 10895.79 |
| Mn | 55 | 72 | 3 | He | 0.000 | ug/l | 129.64 |
| Fe | 56 | 72 | 2 | H2 | 0.000 | ug/l | 10020.17 |
| Fe | 56 | 72 | 3 | He | 0.000 | ug/l | 4900.76 |
| Co | 59 | 72 | 1 | No Gas | 0.000 | ug/l | 432.48 |
| Ni | 60 | 72 | 1 | No Gas | 0.000 | ug/l | 479.06 |
| Ni | 60 | 72 | 3 | He | 0.000 | ug/l | 111.11 |
| Cu | 63 | 72 | 1 | No Gas | 0.000 | ug/l | 1894.22 |
| Cu | 63 | 72 | 3 | He | 0.000 | ug/l | 653.22 |
| Cu | 65 | 72 | 1 | No Gas | 0.000 | ug/l | 898.39 |
| Zn | 66 | 72 | 1 | No Gas | 0.000 | ug/l | 895.76 |
| Zn | 66 | 72 | 3 | He | 0.000 | ug/l | 237.78 |
| As | 75 | 72 | 1 | No Gas | 0.000 | ug/l | 12160.51 |
| As | 75 | 72 | 3 | He | 0.000 | ug/l | 231.33 |
| Se | 78 | 72 | 2 | H2 | 0.000 | ug/l | 30.22 |
| Br | 79 | 72 | 1 | No Gas | 0.000 | ug/l | 60676.69 |
| Br | 79 | 72 | 2 | H2 | 0.000 | ug/l | 30818.27 |
| Se | 82 | 72 | 1 | No Gas | 0.000 | ug/l | 536.87 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 18728.43 |
| Sr | 88 | 72 | 1 | No Gas | 0.000 | ug/l | 618.79 |
| Sr | 88 | 72 | 3 | He | 0.000 | ug/l | 184.45 |
| Mo | 95 | 115 | 1 | No Gas | 0.000 | ug/l | 635.19 |
| Mo | 95 | 115 | 3 | He | 0.000 | ug/l | 31.11 |
| Mo | 98 | 115 | 1 | No Gas | 0.000 | ug/l | 111.11 |
| Ag | 107 | 115 | 1 | No Gas | 0.000 | ug/l | 1669.44 |
| Ag | 109 | 115 | 1 | No Gas | 0.000 | ug/l | 1666.77 |
| Cd | 111 | 115 | 1 | No Gas | 0.000 | ug/l | -1.95 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.000 | ug/l | 12.89 |
| Cd | 114 | 115 | 1 | No Gas | 0.000 | ug/l | -119.66 |
| Cd | 114 | 115 | 3 | He | 0.000 | ug/l | 32.97 |
| Sn | 118 | 115 | 1 | No Gas | 0.000 | ug/l | 3047.64 |
| Sn | 118 | 115 | 3 | He | 0.000 | ug/l | 791.14 |
| Sb | 121 | 115 | 1 | No Gas | 0.000 | ug/l | 1477.90 |
| Sb | 121 | 115 | 3 | He | 0.000 | ug/l | 328.04 |
| Sb | 123 | 115 | 1 | No Gas | 0.000 | ug/l | 1105.16 |
| Sb | 123 | 115 | 3 | He | 0.000 | ug/l | 281.70 |
| Ba | 135 | 115 | 1 | No Gas | 0.000 | ug/l | 83.17 |
| Ba | 137 | 115 | 1 | No Gas | 0.000 | ug/l | 83.17 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 16.67 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 26.67 |
| Hg | 201 | 209 | 1 | No Gas | 0.000 | ug/l | 27.32 |
| Hg | 202 | 209 | 1 | No Gas | 0.000 | ug/l | 113.31 |
| Hg | 202 | 209 | 3 | He | 0.000 | ug/l | 33.32 |
| Tl | 203 | 209 | 3 | He | 0.000 | ug/l | 888.39 |
| Tl | 205 | 209 | 1 | No Gas | 0.000 | ug/l | 3549.39 |
| Tl | 205 | 209 | 3 | He | 0.000 | ug/l | 2179.72 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.000 | ug/l | 657.80 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.000 | ug/l | 567.79 |
| Pb | 208 | 209 | 1 | No Gas | 0.000 | ug/l | 2692.35 |
| Th | 232 | 209 | 3 | He | 0.000 | ug/l | 450.19 |
| U | 238 | 209 | 1 | No Gas | 0.000 | ug/l | 120.98 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4382641.39 | 100.0 |
| Sc | 45 | 2 | H2 | 2354877.00 | 100.0 |
| Sc | 45 | 3 | He | 236454.17 | 100.0 |
| Ge | 72 | 1 | No Gas | 1281891.64 | 100.0 |
| Ge | 72 | 2 | H2 | 890954.80 | 100.0 |
| Ge | 72 | 3 | He | 183954.66 | 100.0 |
| In | 115 | 1 | No Gas | 11488655.89 | 100.0 |
| In | 115 | 3 | He | 2330493.09 | 100.0 |
| Tb | 159 | 1 | No Gas | 15686910.00 | 100.0 |
| Tb | 159 | 3 | He | 6490432.49 | 100.0 |
| Ho | 165 | 1 | No Gas | 15030516.76 | 100.0 |
| Ho | 165 | 3 | He | 6169620.34 | 100.0 |
| Lu | 175 | 1 | No Gas | 15524479.14 | 100.0 |
| Lu | 175 | 3 | He | 5043610.15 | 100.0 |
| Bi | 209 | 1 | No Gas | 11313998.25 | 100.0 |
| Bi | 209 | 3 | He | 4960844.24 | 100.0 |

ICPMS207-B Analytical Data

Sample Name 0.025 ppb STD
File Name 111CAL.S.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 03:28:57
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-Cal
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | 0.188 | ug/l | 14092.83 |
| Be | 9 | 45 | 1 | No Gas | 0.016 | ug/l | 103.98 |
| B | 11 | 45 | 1 | No Gas | -0.080 | ug/l | 3812.69 |
| Na | 23 | 45 | 3 | He | -0.236 | ug/l | 70153.51 |
| Mg | 24 | 45 | 3 | He | 7.258 | ug/l | 3716.52 |
| Al | 27 | 45 | 1 | No Gas | 0.184 | ug/l | 9286.24 |
| Si | 28 | 45 | 2 | H2 | -4.791 | ug/l | 63608.74 |
| K | 39 | 72 | 3 | He | 7.833 | ug/l | 59403.95 |
| Ca | 40 | 72 | 2 | H2 | 7.505 | ug/l | 132037.79 |
| Ti | 47 | 72 | 1 | No Gas | 0.046 | ug/l | 250.25 |
| V | 51 | 72 | 1 | No Gas | -2.078 | ug/l | -49126.37 |
| V | 51 | 72 | 3 | He | 0.330 | ug/l | 19193.77 |
| Cr | 52 | 72 | 1 | No Gas | 0.290 | ug/l | 84950.15 |
| Cr | 52 | 72 | 3 | He | 0.030 | ug/l | 952.26 |
| Mn | 55 | 72 | 1 | No Gas | 0.055 | ug/l | 12354.06 |
| Mn | 55 | 72 | 3 | He | 0.029 | ug/l | 205.29 |
| Fe | 56 | 72 | 2 | H2 | 0.821 | ug/l | 22897.55 |
| Fe | 56 | 72 | 3 | He | 0.857 | ug/l | 8027.66 |
| Co | 59 | 72 | 1 | No Gas | 0.024 | ug/l | 1037.98 |
| Ni | 60 | 72 | 1 | No Gas | 0.029 | ug/l | 635.42 |
| Ni | 60 | 72 | 3 | He | 0.044 | ug/l | 184.45 |
| Cu | 63 | 72 | 1 | No Gas | 0.037 | ug/l | 2361.14 |
| Cu | 63 | 72 | 3 | He | 0.044 | ug/l | 843.19 |
| Cu | 65 | 72 | 1 | No Gas | 0.040 | ug/l | 1146.51 |
| Zn | 66 | 72 | 1 | No Gas | 0.055 | ug/l | 1141.60 |
| Zn | 66 | 72 | 3 | He | 0.010 | ug/l | 242.23 |
| As | 75 | 72 | 1 | No Gas | 0.349 | ug/l | 13960.85 |
| As | 75 | 72 | 3 | He | 0.041 | ug/l | 261.80 |
| Se | 78 | 72 | 2 | H2 | 0.022 | ug/l | 41.67 |
| Br | 79 | 72 | 1 | No Gas | 14.750 | ug/l | 271264.17 |
| Br | 79 | 72 | 2 | H2 | 14.656 | ug/l | 153160.12 |
| Se | 82 | 72 | 1 | No Gas | 0.529 | ug/l | 700.75 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 17928.92 |
| Sr | 88 | 72 | 1 | No Gas | 0.029 | ug/l | 1873.08 |
| Sr | 88 | 72 | 3 | He | 0.029 | ug/l | 316.67 |
| Mo | 95 | 115 | 1 | No Gas | -0.032 | ug/l | 313.34 |
| Mo | 95 | 115 | 3 | He | 0.023 | ug/l | 106.67 |
| Mo | 98 | 115 | 1 | No Gas | 0.024 | ug/l | 474.18 |
| Ag | 107 | 115 | 1 | No Gas | 0.015 | ug/l | 1983.60 |
| Ag | 109 | 115 | 1 | No Gas | 0.014 | ug/l | 1951.59 |
| Cd | 111 | 115 | 1 | No Gas | 0.019 | ug/l | 109.38 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.021 | ug/l | 50.00 |
| Cd | 114 | 115 | 1 | No Gas | 0.021 | ug/l | 154.66 |
| Cd | 114 | 115 | 3 | He | 0.024 | ug/l | 138.05 |
| Sn | 118 | 115 | 1 | No Gas | 0.053 | ug/l | 3826.28 |
| Sn | 118 | 115 | 3 | He | 0.067 | ug/l | 1060.05 |
| Sb | 121 | 115 | 1 | No Gas | 0.009 | ug/l | 1678.94 |
| Sb | 121 | 115 | 3 | He | 0.016 | ug/l | 426.72 |
| Sb | 123 | 115 | 1 | No Gas | 0.009 | ug/l | 1257.18 |
| Sb | 123 | 115 | 3 | He | 0.006 | ug/l | 310.03 |
| Ba | 135 | 115 | 1 | No Gas | 0.022 | ug/l | 196.28 |
| Ba | 137 | 115 | 1 | No Gas | 0.025 | ug/l | 306.06 |
| La | 139 | 115 | 3 | He | 0.023 | ug/l | 575.57 |
| Ce | 140 | 115 | 3 | He | 0.032 | ug/l | 887.99 |
| Hg | 201 | 209 | 1 | No Gas | -0.002 | ug/l | 21.00 |
| Hg | 202 | 209 | 1 | No Gas | 0.000 | ug/l | 111.65 |
| Hg | 202 | 209 | 3 | He | 0.001 | ug/l | 37.32 |
| Tl | 203 | 209 | 3 | He | 0.006 | ug/l | 953.75 |
| Tl | 205 | 209 | 1 | No Gas | 0.009 | ug/l | 4048.42 |
| Tl | 205 | 209 | 3 | He | 0.003 | ug/l | 2259.10 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.024 | ug/l | 1121.17 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.023 | ug/l | 955.60 |
| Pb | 208 | 209 | 1 | No Gas | 0.023 | ug/l | 4450.32 |
| Th | 232 | 209 | 3 | He | 0.014 | ug/l | 978.43 |
| U | 238 | 209 | 1 | No Gas | 0.024 | ug/l | 1927.43 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4348013.77 | 99.2 |
| Sc | 45 | 2 | H2 | 2330879.86 | 99.0 |
| Sc | 45 | 3 | He | 230525.35 | 97.5 |
| Ge | 72 | 1 | No Gas | 1255168.54 | 97.9 |
| Ge | 72 | 2 | H2 | 859300.80 | 96.4 |
| Ge | 72 | 3 | He | 180145.68 | 97.9 |
| In | 115 | 1 | No Gas | 11142865.50 | 97.0 |
| In | 115 | 3 | He | 2281728.86 | 97.9 |
| Tb | 159 | 1 | No Gas | 15912347.93 | 101.4 |
| Tb | 159 | 3 | He | 6383034.01 | 98.3 |
| Ho | 165 | 1 | No Gas | 15333342.49 | 102.0 |
| Ho | 165 | 3 | He | 6116654.93 | 99.1 |
| Lu | 175 | 1 | No Gas | 15394779.66 | 99.2 |
| Lu | 175 | 3 | He | 4997851.32 | 99.1 |
| Bi | 209 | 1 | No Gas | 11397421.95 | 100.7 |
| Bi | 209 | 3 | He | 4945854.96 | 99.7 |

ICPMS207-B Analytical Data

Sample Name 0.05 ppb STD
File Name 112CAL5.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 03:35:18
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-Cal
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Li | 7 | 45 | 1 | No Gas | 0.456 | ug/l | 15670.33 |
| Be | 9 | 45 | 1 | No Gas | 0.051 | ug/l | 185.96 |
| B | 11 | 45 | 1 | No Gas | -0.219 | ug/l | 3648.58 |
| Na | 23 | 45 | 3 | He | -0.083 | ug/l | 70327.60 |
| Mg | 24 | 45 | 3 | He | 15.512 | ug/l | 6415.34 |
| Al | 27 | 45 | 1 | No Gas | 0.147 | ug/l | 8851.54 |
| Si | 28 | 45 | 2 | H2 | -9.339 | ug/l | 54313.85 |
| K | 39 | 72 | 3 | He | 20.649 | ug/l | 62798.79 |
| Ca | 40 | 72 | 2 | H2 | 14.899 | ug/l | 182915.03 |
| Ti | 47 | 72 | 1 | No Gas | 0.076 | ug/l | 303.65 |
| V | 51 | 72 | 1 | No Gas | -5.494 | ug/l | -134672.09 |
| V | 51 | 72 | 3 | He | 0.507 | ug/l | 19471.86 |
| Cr | 52 | 72 | 1 | No Gas | 0.393 | ug/l | 87179.12 |
| Cr | 52 | 72 | 3 | He | 0.079 | ug/l | 1134.50 |
| Mn | 55 | 72 | 1 | No Gas | 0.084 | ug/l | 13223.11 |
| Mn | 55 | 72 | 3 | He | 0.064 | ug/l | 295.94 |
| Fe | 56 | 72 | 2 | H2 | 1.627 | ug/l | 36142.45 |
| Fe | 56 | 72 | 3 | He | 1.676 | ug/l | 10873.34 |
| Co | 59 | 72 | 1 | No Gas | 0.070 | ug/l | 2209.13 |
| Ni | 60 | 72 | 1 | No Gas | 0.069 | ug/l | 861.65 |
| Ni | 60 | 72 | 3 | He | 0.085 | ug/l | 248.89 |
| Cu | 63 | 72 | 1 | No Gas | 0.068 | ug/l | 2788.72 |
| Cu | 63 | 72 | 3 | He | 0.060 | ug/l | 899.18 |
| Cu | 65 | 72 | 1 | No Gas | 0.056 | ug/l | 1253.23 |
| Zn | 66 | 72 | 1 | No Gas | 0.044 | ug/l | 1088.62 |
| Zn | 66 | 72 | 3 | He | 0.016 | ug/l | 243.34 |
| As | 75 | 72 | 1 | No Gas | 1.342 | ug/l | 19731.22 |
| As | 75 | 72 | 3 | He | 0.079 | ug/l | 289.27 |
| Se | 78 | 72 | 2 | H2 | 0.060 | ug/l | 63.44 |
| Br | 79 | 72 | 1 | No Gas | 12.451 | ug/l | 237978.88 |
| Br | 79 | 72 | 2 | H2 | 12.216 | ug/l | 133500.18 |
| Se | 82 | 72 | 1 | No Gas | 0.661 | ug/l | 739.54 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 18178.78 |
| Sr | 88 | 72 | 1 | No Gas | 0.061 | ug/l | 3263.93 |
| Sr | 88 | 72 | 3 | He | 0.067 | ug/l | 482.23 |
| Mo | 95 | 115 | 1 | No Gas | 0.000 | ug/l | 604.46 |
| Mo | 95 | 115 | 3 | He | 0.052 | ug/l | 200.01 |
| Mo | 98 | 115 | 1 | No Gas | 0.053 | ug/l | 913.58 |
| Ag | 107 | 115 | 1 | No Gas | 0.030 | ug/l | 2342.48 |
| Ag | 109 | 115 | 1 | No Gas | 0.032 | ug/l | 2355.15 |
| Cd | 111 | 115 | 1 | No Gas | 0.062 | ug/l | 352.45 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.060 | ug/l | 115.45 |
| Cd | 114 | 115 | 1 | No Gas | 0.057 | ug/l | 602.15 |
| Cd | 114 | 115 | 3 | He | 0.058 | ug/l | 284.15 |
| Sn | 118 | 115 | 1 | No Gas | 0.081 | ug/l | 4225.63 |
| Sn | 118 | 115 | 3 | He | 0.063 | ug/l | 1023.38 |
| Sb | 121 | 115 | 1 | No Gas | 0.032 | ug/l | 2238.74 |
| Sb | 121 | 115 | 3 | He | 0.035 | ug/l | 547.73 |
| Sb | 123 | 115 | 1 | No Gas | 0.030 | ug/l | 1659.93 |
| Sb | 123 | 115 | 3 | He | 0.035 | ug/l | 454.38 |
| Ba | 135 | 115 | 1 | No Gas | 0.042 | ug/l | 296.08 |
| Ba | 137 | 115 | 1 | No Gas | 0.066 | ug/l | 655.38 |
| La | 139 | 115 | 3 | He | 0.056 | ug/l | 1378.97 |
| Ce | 140 | 115 | 3 | He | 0.061 | ug/l | 1644.55 |
| Hg | 201 | 209 | 1 | No Gas | 0.000 | ug/l | 27.99 |
| Hg | 202 | 209 | 1 | No Gas | -0.001 | ug/l | 105.65 |
| Hg | 202 | 209 | 3 | He | 0.000 | ug/l | 34.99 |
| Tl | 203 | 209 | 3 | He | 0.035 | ug/l | 1255.90 |
| Tl | 205 | 209 | 1 | No Gas | 0.037 | ug/l | 5594.55 |
| Tl | 205 | 209 | 3 | He | 0.030 | ug/l | 2933.51 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.059 | ug/l | 1772.35 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.057 | ug/l | 1513.43 |
| Pb | 208 | 209 | 1 | No Gas | 0.054 | ug/l | 6845.18 |
| Th | 232 | 209 | 3 | He | 0.037 | ug/l | 1816.86 |
| U | 238 | 209 | 1 | No Gas | 0.057 | ug/l | 4451.87 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4395470.16 | 100.3 |
| Sc | 45 | 2 | H2 | 2256416.37 | 95.8 |
| Sc | 45 | 3 | He | 230891.46 | 97.6 |
| Ge | 72 | 1 | No Gas | 1254511.97 | 97.9 |
| Ge | 72 | 2 | H2 | 864874.94 | 97.1 |
| Ge | 72 | 3 | He | 176418.98 | 95.9 |
| In | 115 | 1 | No Gas | 11020111.27 | 95.9 |
| In | 115 | 3 | He | 2243320.08 | 96.3 |
| Tb | 159 | 1 | No Gas | 15725138.96 | 100.2 |
| Tb | 159 | 3 | He | 6540879.14 | 100.8 |
| Ho | 165 | 1 | No Gas | 14946991.05 | 99.4 |
| Ho | 165 | 3 | He | 6323696.76 | 102.5 |
| Lu | 175 | 1 | No Gas | 15427997.46 | 99.4 |
| Lu | 175 | 3 | He | 5052334.24 | 100.2 |
| Bi | 209 | 1 | No Gas | 11338898.69 | 100.2 |
| Bi | 209 | 3 | He | 4906482.67 | 98.9 |

ICPMS207-B Analytical Data

Sample Name 0.10 ppb STD
File Name 113CAL5.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 03:41:39
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-Cal
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | 1.090 | ug/l | 18533.37 |
| Be | 9 | 45 | 1 | No Gas | 0.097 | ug/l | 287.28 |
| B | 11 | 45 | 1 | No Gas | -0.216 | ug/l | 3557.86 |
| Na | 23 | 45 | 3 | He | 7.658 | ug/l | 75619.82 |
| Mg | 24 | 45 | 3 | He | 29.805 | ug/l | 11198.66 |
| Al | 27 | 45 | 1 | No Gas | 0.222 | ug/l | 9675.39 |
| Si | 28 | 45 | 2 | H2 | -12.526 | ug/l | 48925.26 |
| K | 39 | 72 | 3 | He | 31.238 | ug/l | 67034.86 |
| Ca | 40 | 72 | 2 | H2 | 27.218 | ug/l | 264229.54 |
| Ti | 47 | 72 | 1 | No Gas | 0.119 | ug/l | 382.06 |
| V | 51 | 72 | 1 | No Gas | 1.455 | ug/l | 40838.00 |
| V | 51 | 72 | 3 | He | 0.506 | ug/l | 19586.48 |
| Cr | 52 | 72 | 1 | No Gas | 0.655 | ug/l | 92725.99 |
| Cr | 52 | 72 | 3 | He | 0.117 | ug/l | 1297.84 |
| Mn | 55 | 72 | 1 | No Gas | 0.138 | ug/l | 14854.82 |
| Mn | 55 | 72 | 3 | He | 0.123 | ug/l | 455.25 |
| Fe | 56 | 72 | 2 | H2 | 2.885 | ug/l | 56138.10 |
| Fe | 56 | 72 | 3 | He | 3.004 | ug/l | 15869.58 |
| Co | 59 | 72 | 1 | No Gas | 0.112 | ug/l | 3260.58 |
| Ni | 60 | 72 | 1 | No Gas | 0.108 | ug/l | 1084.56 |
| Ni | 60 | 72 | 3 | He | 0.131 | ug/l | 328.89 |
| Cu | 63 | 72 | 1 | No Gas | 0.109 | ug/l | 3343.07 |
| Cu | 63 | 72 | 3 | He | 0.112 | ug/l | 1140.82 |
| Cu | 65 | 72 | 1 | No Gas | 0.104 | ug/l | 1575.39 |
| Zn | 66 | 72 | 1 | No Gas | 0.066 | ug/l | 1191.75 |
| Zn | 66 | 72 | 3 | He | 0.072 | ug/l | 296.67 |
| As | 75 | 72 | 1 | No Gas | 0.866 | ug/l | 16859.60 |
| As | 75 | 72 | 3 | He | 0.137 | ug/l | 340.93 |
| Se | 78 | 72 | 2 | H2 | 0.117 | ug/l | 95.11 |
| Br | 79 | 72 | 1 | No Gas | 12.916 | ug/l | 244272.87 |
| Br | 79 | 72 | 2 | H2 | 12.479 | ug/l | 134658.62 |
| Se | 82 | 72 | 1 | No Gas | 0.798 | ug/l | 783.42 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 17965.52 |
| Sr | 88 | 72 | 1 | No Gas | 0.113 | ug/l | 5493.50 |
| Sr | 88 | 72 | 3 | He | 0.118 | ug/l | 718.91 |
| Mo | 95 | 115 | 1 | No Gas | 0.040 | ug/l | 981.15 |
| Mo | 95 | 115 | 3 | He | 0.089 | ug/l | 317.78 |
| Mo | 98 | 115 | 1 | No Gas | 0.098 | ug/l | 1595.24 |
| Ag | 107 | 115 | 1 | No Gas | 0.052 | ug/l | 2877.45 |
| Ag | 109 | 115 | 1 | No Gas | 0.049 | ug/l | 2756.71 |
| Cd | 111 | 115 | 1 | No Gas | 0.102 | ug/l | 581.95 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.113 | ug/l | 205.11 |
| Cd | 114 | 115 | 1 | No Gas | 0.108 | ug/l | 1251.68 |
| Cd | 114 | 115 | 3 | He | 0.107 | ug/l | 490.53 |
| Sn | 118 | 115 | 1 | No Gas | 0.097 | ug/l | 4501.80 |
| Sn | 118 | 115 | 3 | He | 0.113 | ug/l | 1227.84 |
| Sb | 121 | 115 | 1 | No Gas | 0.074 | ug/l | 3336.07 |
| Sb | 121 | 115 | 3 | He | 0.080 | ug/l | 839.78 |
| Sb | 123 | 115 | 1 | No Gas | 0.076 | ug/l | 2560.16 |
| Sb | 123 | 115 | 3 | He | 0.073 | ug/l | 651.08 |
| Ba | 135 | 115 | 1 | No Gas | 0.094 | ug/l | 568.88 |
| Ba | 137 | 115 | 1 | No Gas | 0.107 | ug/l | 1021.35 |
| La | 139 | 115 | 3 | He | 0.107 | ug/l | 2581.37 |
| Ce | 140 | 115 | 3 | He | 0.107 | ug/l | 2880.32 |
| Hg | 201 | 209 | 1 | No Gas | 0.001 | ug/l | 30.32 |
| Hg | 202 | 209 | 1 | No Gas | -0.001 | ug/l | 108.31 |
| Hg | 202 | 209 | 3 | He | 0.000 | ug/l | 34.99 |
| Tl | 203 | 209 | 3 | He | 0.072 | ug/l | 1692.12 |
| Tl | 205 | 209 | 1 | No Gas | 0.080 | ug/l | 7982.45 |
| Tl | 205 | 209 | 3 | He | 0.069 | ug/l | 4006.22 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.105 | ug/l | 2668.06 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.098 | ug/l | 2215.76 |
| Pb | 208 | 209 | 1 | No Gas | 0.101 | ug/l | 10486.14 |
| Th | 232 | 209 | 3 | He | 0.075 | ug/l | 3246.38 |
| U | 238 | 209 | 1 | No Gas | 0.103 | ug/l | 8022.20 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4280984.55 | 97.7 |
| Sc | 45 | 2 | H2 | 2241593.82 | 95.2 |
| Sc | 45 | 3 | He | 232831.81 | 98.5 |
| Ge | 72 | 1 | No Gas | 1251175.03 | 97.6 |
| Ge | 72 | 2 | H2 | 858477.15 | 96.4 |
| Ge | 72 | 3 | He | 177518.52 | 96.5 |
| In | 115 | 1 | No Gas | 11053516.50 | 96.2 |
| In | 115 | 3 | He | 2230607.93 | 95.7 |
| Tb | 159 | 1 | No Gas | 15336834.21 | 97.8 |
| Tb | 159 | 3 | He | 6320728.79 | 97.4 |
| Ho | 165 | 1 | No Gas | 14662053.00 | 97.5 |
| Ho | 165 | 3 | He | 6132366.21 | 99.4 |
| Lu | 175 | 1 | No Gas | 15362358.59 | 99.0 |
| Lu | 175 | 3 | He | 4992688.24 | 99.0 |
| Bi | 209 | 1 | No Gas | 11457225.43 | 101.3 |
| Bi | 209 | 3 | He | 4985043.43 | 100.5 |

ICPMS207-B Analytical Data

Sample Name 0.5 ppb STD
File Name 114CAL5.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 03:48:00
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-Cal
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | 5.721 | ug/l | 42348.67 |
| Be | 9 | 45 | 1 | No Gas | 0.480 | ug/l | 1160.81 |
| B | 11 | 45 | 1 | No Gas | 0.079 | ug/l | 3978.13 |
| Na | 23 | 45 | 3 | He | 112.542 | ug/l | 132979.47 |
| Mg | 24 | 45 | 3 | He | 131.111 | ug/l | 42736.48 |
| Al | 27 | 45 | 1 | No Gas | 0.695 | ug/l | 16234.41 |
| Si | 28 | 45 | 2 | H2 | -13.675 | ug/l | 47571.64 |
| K | 39 | 72 | 3 | He | 118.490 | ug/l | 98717.19 |
| Ca | 40 | 72 | 2 | H2 | 126.360 | ug/l | 920481.26 |
| Ti | 47 | 72 | 1 | No Gas | 0.512 | ug/l | 1094.48 |
| V | 51 | 72 | 1 | No Gas | 2.728 | ug/l | 72526.06 |
| V | 51 | 72 | 3 | He | 0.368 | ug/l | 19068.09 |
| Cr | 52 | 72 | 1 | No Gas | 1.058 | ug/l | 101270.48 |
| Cr | 52 | 72 | 3 | He | 0.522 | ug/l | 2975.88 |
| Mn | 55 | 72 | 1 | No Gas | 0.518 | ug/l | 26324.74 |
| Mn | 55 | 72 | 3 | He | 0.524 | ug/l | 1531.45 |
| Fe | 56 | 72 | 2 | H2 | 13.390 | ug/l | 223163.39 |
| Fe | 56 | 72 | 3 | He | 13.244 | ug/l | 53847.81 |
| Co | 59 | 72 | 1 | No Gas | 0.511 | ug/l | 13336.28 |
| Ni | 60 | 72 | 1 | No Gas | 0.701 | ug/l | 4435.22 |
| Ni | 60 | 72 | 3 | He | 0.718 | ug/l | 1323.40 |
| Cu | 63 | 72 | 1 | No Gas | 0.655 | ug/l | 10792.33 |
| Cu | 63 | 72 | 3 | He | 0.668 | ug/l | 3685.07 |
| Cu | 65 | 72 | 1 | No Gas | 0.652 | ug/l | 5241.06 |
| Zn | 66 | 72 | 1 | No Gas | 0.602 | ug/l | 3753.19 |
| Zn | 66 | 72 | 3 | He | 0.666 | ug/l | 848.92 |
| As | 75 | 72 | 1 | No Gas | 1.516 | ug/l | 20518.31 |
| As | 75 | 72 | 3 | He | 0.517 | ug/l | 667.53 |
| Se | 78 | 72 | 2 | H2 | 0.531 | ug/l | 326.45 |
| Br | 79 | 72 | 1 | No Gas | 13.874 | ug/l | 257079.97 |
| Br | 79 | 72 | 2 | H2 | 13.962 | ug/l | 145728.92 |
| Se | 82 | 72 | 1 | No Gas | 1.125 | ug/l | 887.03 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 18058.79 |
| Sr | 88 | 72 | 1 | No Gas | 0.534 | ug/l | 23595.97 |
| Sr | 88 | 72 | 3 | He | 0.523 | ug/l | 2566.91 |
| Mo | 95 | 115 | 1 | No Gas | 0.416 | ug/l | 4505.18 |
| Mo | 95 | 115 | 3 | He | 0.491 | ug/l | 1635.66 |
| Mo | 98 | 115 | 1 | No Gas | 0.462 | ug/l | 7124.21 |
| Ag | 107 | 115 | 1 | No Gas | 0.207 | ug/l | 6725.64 |
| Ag | 109 | 115 | 1 | No Gas | 0.205 | ug/l | 6470.75 |
| Cd | 111 | 115 | 1 | No Gas | 0.466 | ug/l | 2688.08 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.531 | ug/l | 921.14 |
| Cd | 114 | 115 | 1 | No Gas | 0.482 | ug/l | 6033.54 |
| Cd | 114 | 115 | 3 | He | 0.509 | ug/l | 2233.28 |
| Sn | 118 | 115 | 1 | No Gas | 0.520 | ug/l | 11398.75 |
| Sn | 118 | 115 | 3 | He | 0.530 | ug/l | 2980.34 |
| Sb | 121 | 115 | 1 | No Gas | 0.444 | ug/l | 13005.63 |
| Sb | 121 | 115 | 3 | He | 0.454 | ug/l | 3309.39 |
| Sb | 123 | 115 | 1 | No Gas | 0.447 | ug/l | 9938.19 |
| Sb | 123 | 115 | 3 | He | 0.447 | ug/l | 2612.51 |
| Ba | 135 | 115 | 1 | No Gas | 0.460 | ug/l | 2488.63 |
| Ba | 137 | 115 | 1 | No Gas | 0.470 | ug/l | 4235.60 |
| La | 139 | 115 | 3 | He | 0.504 | ug/l | 12207.65 |
| Ce | 140 | 115 | 3 | He | 0.502 | ug/l | 13449.91 |
| Hg | 201 | 209 | 1 | No Gas | 0.007 | ug/l | 55.66 |
| Hg | 202 | 209 | 1 | No Gas | 0.008 | ug/l | 184.63 |
| Hg | 202 | 209 | 3 | He | 0.011 | ug/l | 78.98 |
| Tl | 203 | 209 | 3 | He | 0.446 | ug/l | 5784.25 |
| Tl | 205 | 209 | 1 | No Gas | 0.474 | ug/l | 29350.17 |
| Tl | 205 | 209 | 3 | He | 0.451 | ug/l | 13842.09 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.487 | ug/l | 9804.78 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.474 | ug/l | 8420.48 |
| Pb | 208 | 209 | 1 | No Gas | 0.477 | ug/l | 38942.56 |
| Th | 232 | 209 | 3 | He | 0.420 | ug/l | 15932.05 |
| U | 238 | 209 | 1 | No Gas | 0.491 | ug/l | 37233.69 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4273755.00 | 97.5 |
| Sc | 45 | 2 | H2 | 2263751.64 | 96.1 |
| Sc | 45 | 3 | He | 222823.77 | 94.2 |
| Ge | 72 | 1 | No Gas | 1246768.25 | 97.3 |
| Ge | 72 | 2 | H2 | 849830.02 | 95.4 |
| Ge | 72 | 3 | He | 177550.15 | 96.5 |
| In | 115 | 1 | No Gas | 11100995.03 | 96.6 |
| In | 115 | 3 | He | 2244620.53 | 96.3 |
| Tb | 159 | 1 | No Gas | 15543164.49 | 99.1 |
| Tb | 159 | 3 | He | 6430739.94 | 99.1 |
| Ho | 165 | 1 | No Gas | 14904990.72 | 99.2 |
| Ho | 165 | 3 | He | 6239252.31 | 101.1 |
| Lu | 175 | 1 | No Gas | 15677086.01 | 101.0 |
| Lu | 175 | 3 | He | 5084212.73 | 100.8 |
| Bi | 209 | 1 | No Gas | 11315994.57 | 100.0 |
| Bi | 209 | 3 | He | 4931046.24 | 99.4 |

ICPMS207-B Analytical Data

Sample Name 1 ppb STD
File Name 115CAL5.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 03:54:21
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-Cal
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|------------|
| Li | 7 | 45 | 1 | No Gas | 12.348 | ug/l | 77463.47 |
| Be | 9 | 45 | 1 | No Gas | 1.006 | ug/l | 2390.05 |
| B | 11 | 45 | 1 | No Gas | 0.433 | ug/l | 4549.86 |
| Na | 23 | 45 | 3 | He | 258.127 | ug/l | 223894.59 |
| Mg | 24 | 45 | 3 | He | 287.793 | ug/l | 95109.50 |
| Al | 27 | 45 | 1 | No Gas | 1.130 | ug/l | 22558.27 |
| Si | 28 | 45 | 2 | H2 | -14.047 | ug/l | 47339.67 |
| K | 39 | 72 | 3 | He | 267.081 | ug/l | 152941.40 |
| Ca | 40 | 72 | 2 | H2 | 271.574 | ug/l | 1907601.52 |
| Ti | 47 | 72 | 1 | No Gas | 1.002 | ug/l | 1963.78 |
| V | 51 | 72 | 1 | No Gas | -3.318 | ug/l | -76863.42 |
| V | 51 | 72 | 3 | He | 1.287 | ug/l | 22611.96 |
| Cr | 52 | 72 | 1 | No Gas | 1.734 | ug/l | 115134.22 |
| Cr | 52 | 72 | 3 | He | 1.137 | ug/l | 5532.18 |
| Mn | 55 | 72 | 1 | No Gas | 1.103 | ug/l | 43722.33 |
| Mn | 55 | 72 | 3 | He | 1.095 | ug/l | 3071.04 |
| Fe | 56 | 72 | 2 | H2 | 27.923 | ug/l | 460009.40 |
| Fe | 56 | 72 | 3 | He | 28.350 | ug/l | 110047.20 |
| Co | 59 | 72 | 1 | No Gas | 1.074 | ug/l | 27358.04 |
| Ni | 60 | 72 | 1 | No Gas | 1.093 | ug/l | 6595.11 |
| Ni | 60 | 72 | 3 | He | 1.158 | ug/l | 2070.16 |
| Cu | 63 | 72 | 1 | No Gas | 1.116 | ug/l | 16936.61 |
| Cu | 63 | 72 | 3 | He | 1.136 | ug/l | 5833.67 |
| Cu | 65 | 72 | 1 | No Gas | 1.100 | ug/l | 8170.92 |
| Zn | 66 | 72 | 1 | No Gas | 1.047 | ug/l | 5823.24 |
| Zn | 66 | 72 | 3 | He | 1.076 | ug/l | 1233.39 |
| As | 75 | 72 | 1 | No Gas | 1.967 | ug/l | 22882.98 |
| As | 75 | 72 | 3 | He | 1.105 | ug/l | 1173.69 |
| Se | 78 | 72 | 2 | H2 | 1.098 | ug/l | 651.68 |
| Br | 79 | 72 | 1 | No Gas | 13.299 | ug/l | 246606.09 |
| Br | 79 | 72 | 2 | H2 | 12.597 | ug/l | 135863.47 |
| Se | 82 | 72 | 1 | No Gas | 1.568 | ug/l | 1023.43 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 17462.61 |
| Sr | 88 | 72 | 1 | No Gas | 1.119 | ug/l | 48291.94 |
| Sr | 88 | 72 | 3 | He | 1.073 | ug/l | 5088.71 |
| Mo | 95 | 115 | 1 | No Gas | 0.930 | ug/l | 9241.93 |
| Mo | 95 | 115 | 3 | He | 0.989 | ug/l | 3252.62 |
| Mo | 98 | 115 | 1 | No Gas | 1.018 | ug/l | 15471.81 |
| Ag | 107 | 115 | 1 | No Gas | 0.431 | ug/l | 12180.13 |
| Ag | 109 | 115 | 1 | No Gas | 0.433 | ug/l | 11795.66 |
| Cd | 111 | 115 | 1 | No Gas | 1.016 | ug/l | 5816.98 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|----------|
| Cd | 111 | 115 | 3 | He | 1.081 | ug/l | 1855.56 |
| Cd | 114 | 115 | 1 | No Gas | 1.044 | ug/l | 13094.08 |
| Cd | 114 | 115 | 3 | He | 1.060 | ug/l | 4597.68 |
| Sn | 118 | 115 | 1 | No Gas | 1.016 | ug/l | 19325.00 |
| Sn | 118 | 115 | 3 | He | 0.993 | ug/l | 4893.10 |
| Sb | 121 | 115 | 1 | No Gas | 0.973 | ug/l | 26581.32 |
| Sb | 121 | 115 | 3 | He | 0.965 | ug/l | 6654.24 |
| Sb | 123 | 115 | 1 | No Gas | 0.977 | ug/l | 20299.99 |
| Sb | 123 | 115 | 3 | He | 0.966 | ug/l | 5307.54 |
| Ba | 135 | 115 | 1 | No Gas | 1.041 | ug/l | 5486.88 |
| Ba | 137 | 115 | 1 | No Gas | 1.048 | ug/l | 9291.37 |
| La | 139 | 115 | 3 | He | 1.039 | ug/l | 25007.01 |
| Ce | 140 | 115 | 3 | He | 1.026 | ug/l | 27328.09 |
| Hg | 201 | 209 | 1 | No Gas | 0.018 | ug/l | 99.65 |
| Hg | 202 | 209 | 1 | No Gas | 0.018 | ug/l | 275.61 |
| Hg | 202 | 209 | 3 | He | 0.021 | ug/l | 124.31 |
| Tl | 203 | 209 | 3 | He | 0.954 | ug/l | 11555.65 |
| Tl | 205 | 209 | 1 | No Gas | 0.994 | ug/l | 58554.96 |
| Tl | 205 | 209 | 3 | He | 0.961 | ug/l | 27513.32 |
| [Pb] | 206 | 209 | 1 | No Gas | 1.017 | ug/l | 20046.30 |
| [Pb] | 207 | 209 | 1 | No Gas | 1.008 | ug/l | 17507.15 |
| Pb | 208 | 209 | 1 | No Gas | 1.017 | ug/l | 81150.29 |
| Th | 232 | 209 | 3 | He | 0.929 | ug/l | 35237.97 |
| U | 238 | 209 | 1 | No Gas | 1.026 | ug/l | 78769.08 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4331786.59 | 98.8 |
| Sc | 45 | 2 | H2 | 2282031.34 | 96.9 |
| Sc | 45 | 3 | He | 229775.90 | 97.2 |
| Ge | 72 | 1 | No Gas | 1236524.45 | 96.5 |
| Ge | 72 | 2 | H2 | 859893.91 | 96.5 |
| Ge | 72 | 3 | He | 177871.46 | 96.7 |
| In | 115 | 1 | No Gas | 11014920.21 | 95.9 |
| In | 115 | 3 | He | 2234891.97 | 95.9 |
| Tb | 159 | 1 | No Gas | 15764011.27 | 100.5 |
| Tb | 159 | 3 | He | 6352351.61 | 97.9 |
| Ho | 165 | 1 | No Gas | 15033520.18 | 100.0 |
| Ho | 165 | 3 | He | 6183542.34 | 100.2 |
| Lu | 175 | 1 | No Gas | 15510716.94 | 99.9 |
| Lu | 175 | 3 | He | 5011765.81 | 99.4 |
| Bi | 209 | 1 | No Gas | 11482548.50 | 101.5 |
| Bi | 209 | 3 | He | 5012525.44 | 101.0 |

ICPMS207-B Analytical Data

Sample Name 10 ppb STD
File Name 116CAL.S.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 04:00:43
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-Cal
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 120.025 | ug/l | 623523.42 |
| Be | 9 | 45 | 1 | No Gas | 10.113 | ug/l | 22867.12 |
| B | 11 | 45 | 1 | No Gas | 9.430 | ug/l | 17342.28 |
| Na | 23 | 45 | 3 | He | 2739.911 | ug/l | 1715289.78 |
| Mg | 24 | 45 | 3 | He | 2733.440 | ug/l | 898420.74 |
| Al | 27 | 45 | 1 | No Gas | 10.020 | ug/l | 144185.40 |
| Si | 28 | 45 | 2 | H2 | 27.226 | ug/l | 112412.04 |
| K | 39 | 72 | 3 | He | 2443.232 | ug/l | 960858.73 |
| Ca | 40 | 72 | 2 | H2 | 2425.519 | ug/l | 16784631.12 |
| Ti | 47 | 72 | 1 | No Gas | 9.987 | ug/l | 18428.45 |
| V | 51 | 72 | 1 | No Gas | 5.427 | ug/l | 140815.85 |
| V | 51 | 72 | 3 | He | 9.864 | ug/l | 56372.28 |
| Cr | 52 | 72 | 1 | No Gas | 10.502 | ug/l | 311495.87 |
| Cr | 52 | 72 | 3 | He | 10.422 | ug/l | 44826.07 |
| Mn | 55 | 72 | 1 | No Gas | 10.234 | ug/l | 324080.26 |
| Mn | 55 | 72 | 3 | He | 10.300 | ug/l | 28329.21 |
| Fe | 56 | 72 | 2 | H2 | 263.173 | ug/l | 4360320.22 |
| Fe | 56 | 72 | 3 | He | 264.143 | ug/l | 1003516.96 |
| Co | 59 | 72 | 1 | No Gas | 9.957 | ug/l | 254451.75 |
| Ni | 60 | 72 | 1 | No Gas | 10.001 | ug/l | 57602.10 |
| Ni | 60 | 72 | 3 | He | 10.858 | ug/l | 18844.44 |
| Cu | 63 | 72 | 1 | No Gas | 10.560 | ug/l | 147316.76 |
| Cu | 63 | 72 | 3 | He | 10.845 | ug/l | 51174.93 |
| Cu | 65 | 72 | 1 | No Gas | 10.434 | ug/l | 71386.26 |
| Zn | 66 | 72 | 1 | No Gas | 10.113 | ug/l | 49685.86 |
| Zn | 66 | 72 | 3 | He | 10.583 | ug/l | 10270.33 |
| As | 75 | 72 | 1 | No Gas | 10.322 | ug/l | 71584.21 |
| As | 75 | 72 | 3 | He | 10.203 | ug/l | 9156.89 |
| Se | 78 | 72 | 2 | H2 | 10.207 | ug/l | 5961.22 |
| Br | 79 | 72 | 1 | No Gas | 10.361 | ug/l | 208655.81 |
| Br | 79 | 72 | 2 | H2 | 9.607 | ug/l | 113390.35 |
| Se | 82 | 72 | 1 | No Gas | 11.034 | ug/l | 4128.01 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 20727.12 |
| Sr | 88 | 72 | 1 | No Gas | 10.473 | ug/l | 455113.99 |
| Sr | 88 | 72 | 3 | He | 10.057 | ug/l | 47022.39 |
| Mo | 95 | 115 | 1 | No Gas | 9.523 | ug/l | 88535.25 |
| Mo | 95 | 115 | 3 | He | 9.707 | ug/l | 31759.76 |
| Mo | 98 | 115 | 1 | No Gas | 9.788 | ug/l | 147031.66 |
| Ag | 107 | 115 | 1 | No Gas | 4.000 | ug/l | 99253.06 |
| Ag | 109 | 115 | 1 | No Gas | 4.061 | ug/l | 96814.88 |
| Cd | 111 | 115 | 1 | No Gas | 9.670 | ug/l | 55094.39 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Cd | 111 | 115 | 3 | He | 10.380 | ug/l | 17753.16 |
| Cd | 114 | 115 | 1 | No Gas | 9.925 | ug/l | 124801.08 |
| Cd | 114 | 115 | 3 | He | 10.150 | ug/l | 43841.66 |
| Sn | 118 | 115 | 1 | No Gas | 9.606 | ug/l | 157165.76 |
| Sn | 118 | 115 | 3 | He | 9.559 | ug/l | 40657.53 |
| Sb | 121 | 115 | 1 | No Gas | 9.633 | ug/l | 249217.05 |
| Sb | 121 | 115 | 3 | He | 9.505 | ug/l | 62930.94 |
| Sb | 123 | 115 | 1 | No Gas | 9.653 | ug/l | 190114.35 |
| Sb | 123 | 115 | 3 | He | 9.402 | ug/l | 49437.33 |
| Ba | 135 | 115 | 1 | No Gas | 9.518 | ug/l | 49276.00 |
| Ba | 137 | 115 | 1 | No Gas | 9.820 | ug/l | 85903.63 |
| La | 139 | 115 | 3 | He | 9.863 | ug/l | 238050.60 |
| Ce | 140 | 115 | 3 | He | 9.811 | ug/l | 261813.47 |
| Hg | 201 | 209 | 1 | No Gas | 0.186 | ug/l | 759.20 |
| Hg | 202 | 209 | 1 | No Gas | 0.190 | ug/l | 1819.10 |
| Hg | 202 | 209 | 3 | He | 0.184 | ug/l | 824.86 |
| Tl | 203 | 209 | 3 | He | 9.548 | ug/l | 105035.31 |
| Tl | 205 | 209 | 1 | No Gas | 9.716 | ug/l | 542678.18 |
| Tl | 205 | 209 | 3 | He | 9.848 | ug/l | 255366.02 |
| [Pb] | 206 | 209 | 1 | No Gas | 9.777 | ug/l | 187637.39 |
| [Pb] | 207 | 209 | 1 | No Gas | 9.521 | ug/l | 161115.76 |
| Pb | 208 | 209 | 1 | No Gas | 9.676 | ug/l | 751683.29 |
| Th | 232 | 209 | 3 | He | 9.574 | ug/l | 350447.75 |
| U | 238 | 209 | 1 | No Gas | 9.873 | ug/l | 759407.70 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4223086.80 | 96.4 |
| Sc | 45 | 2 | H2 | 2253036.12 | 95.7 |
| Sc | 45 | 3 | He | 231465.67 | 97.9 |
| Ge | 72 | 1 | No Gas | 1257358.52 | 98.1 |
| Ge | 72 | 2 | H2 | 880704.50 | 98.8 |
| Ge | 72 | 3 | He | 180976.69 | 98.4 |
| In | 115 | 1 | No Gas | 10958928.06 | 95.4 |
| In | 115 | 3 | He | 2240886.04 | 96.2 |
| Tb | 159 | 1 | No Gas | 15389113.36 | 98.1 |
| Tb | 159 | 3 | He | 6342633.92 | 97.7 |
| Ho | 165 | 1 | No Gas | 14789042.69 | 98.4 |
| Ho | 165 | 3 | He | 6148121.86 | 99.7 |
| Lu | 175 | 1 | No Gas | 15563522.35 | 100.3 |
| Lu | 175 | 3 | He | 5038418.40 | 99.9 |
| Bi | 209 | 1 | No Gas | 11521599.60 | 101.8 |
| Bi | 209 | 3 | He | 4895412.35 | 98.7 |

ICPMS207-B Analytical Data

Sample Name 50 ppb STD
File Name 117CAL5.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 04:07:04
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-Cal
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 574.914 | ug/l | 2975596.82 |
| Be | 9 | 45 | 1 | No Gas | 50.507 | ug/l | 115380.40 |
| B | 11 | 45 | 1 | No Gas | 50.420 | ug/l | 77085.36 |
| Na | 23 | 45 | 3 | He | 12746.428 | ug/l | 8103183.35 |
| Mg | 24 | 45 | 3 | He | 12576.221 | ug/l | 4332868.85 |
| Al | 27 | 45 | 1 | No Gas | 61.950 | ug/l | 868633.24 |
| Si | 28 | 45 | 2 | H2 | 210.949 | ug/l | 411358.99 |
| K | 39 | 72 | 3 | He | 11866.756 | ug/l | 4644751.70 |
| Ca | 40 | 72 | 2 | H2 | 11837.688 | ug/l | 83414698.42 |
| Ti | 47 | 72 | 1 | No Gas | 51.576 | ug/l | 97481.27 |
| V | 51 | 72 | 1 | No Gas | 47.871 | ug/l | 1247818.18 |
| V | 51 | 72 | 3 | He | 47.781 | ug/l | 212898.58 |
| Cr | 52 | 72 | 1 | No Gas | 49.145 | ug/l | 1206115.72 |
| Cr | 52 | 72 | 3 | He | 50.823 | ug/l | 224860.47 |
| Mn | 55 | 72 | 1 | No Gas | 50.618 | ug/l | 1610186.06 |
| Mn | 55 | 72 | 3 | He | 51.155 | ug/l | 146424.65 |
| Fe | 56 | 72 | 2 | H2 | 1261.242 | ug/l | 21320514.76 |
| Fe | 56 | 72 | 3 | He | 1273.109 | ug/l | 5032634.65 |
| Co | 59 | 72 | 1 | No Gas | 50.226 | ug/l | 1322699.53 |
| Ni | 60 | 72 | 1 | No Gas | 50.563 | ug/l | 298444.02 |
| Ni | 60 | 72 | 3 | He | 52.462 | ug/l | 94627.99 |
| Cu | 63 | 72 | 1 | No Gas | 51.129 | ug/l | 728582.75 |
| Cu | 63 | 72 | 3 | He | 53.112 | ug/l | 259146.67 |
| Cu | 65 | 72 | 1 | No Gas | 51.170 | ug/l | 357719.02 |
| Zn | 66 | 72 | 1 | No Gas | 51.253 | ug/l | 256167.35 |
| Zn | 66 | 72 | 3 | He | 55.438 | ug/l | 55159.73 |
| As | 75 | 72 | 1 | No Gas | 50.742 | ug/l | 314783.68 |
| As | 75 | 72 | 3 | He | 51.155 | ug/l | 46996.83 |
| Se | 78 | 72 | 2 | H2 | 51.978 | ug/l | 30904.39 |
| Br | 79 | 72 | 1 | No Gas | 11.536 | ug/l | 232803.13 |
| Br | 79 | 72 | 2 | H2 | 11.154 | ug/l | 129556.00 |
| Se | 82 | 72 | 1 | No Gas | 52.567 | ug/l | 18246.61 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 32835.59 |
| Sr | 88 | 72 | 1 | No Gas | 51.587 | ug/l | 2310735.80 |
| Sr | 88 | 72 | 3 | He | 50.113 | ug/l | 243932.98 |
| Mo | 95 | 115 | 1 | No Gas | 51.425 | ug/l | 479383.86 |
| Mo | 95 | 115 | 3 | He | 52.498 | ug/l | 171703.80 |
| Mo | 98 | 115 | 1 | No Gas | 52.681 | ug/l | 797536.67 |
| Ag | 107 | 115 | 1 | No Gas | 19.946 | ug/l | 492661.24 |
| Ag | 109 | 115 | 1 | No Gas | 20.265 | ug/l | 480820.38 |
| Cd | 111 | 115 | 1 | No Gas | 49.047 | ug/l | 281772.59 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Cd | 111 | 115 | 3 | He | 53.262 | ug/l | 91098.50 |
| Cd | 114 | 115 | 1 | No Gas | 50.600 | ug/l | 641931.23 |
| Cd | 114 | 115 | 3 | He | 52.060 | ug/l | 224861.14 |
| Sn | 118 | 115 | 1 | No Gas | 52.124 | ug/l | 846791.26 |
| Sn | 118 | 115 | 3 | He | 52.295 | ug/l | 219143.82 |
| Sb | 121 | 115 | 1 | No Gas | 52.419 | ug/l | 1361069.54 |
| Sb | 121 | 115 | 3 | He | 52.027 | ug/l | 343203.64 |
| Sb | 123 | 115 | 1 | No Gas | 52.790 | ug/l | 1043562.22 |
| Sb | 123 | 115 | 3 | He | 52.557 | ug/l | 275253.49 |
| Ba | 135 | 115 | 1 | No Gas | 49.375 | ug/l | 257413.99 |
| Ba | 137 | 115 | 1 | No Gas | 50.155 | ug/l | 442172.52 |
| La | 139 | 115 | 3 | He | 50.013 | ug/l | 1207360.17 |
| Ce | 140 | 115 | 3 | He | 49.976 | ug/l | 1334129.80 |
| Hg | 201 | 209 | 1 | No Gas | 0.999 | ug/l | 3792.78 |
| Hg | 202 | 209 | 1 | No Gas | 0.999 | ug/l | 8739.78 |
| Hg | 202 | 209 | 3 | He | 0.984 | ug/l | 4157.15 |
| Tl | 203 | 209 | 3 | He | 49.568 | ug/l | 527690.21 |
| Tl | 205 | 209 | 1 | No Gas | 49.115 | ug/l | 2622299.04 |
| Tl | 205 | 209 | 3 | He | 50.691 | ug/l | 1272142.00 |
| [Pb] | 206 | 209 | 1 | No Gas | 51.403 | ug/l | 945513.94 |
| [Pb] | 207 | 209 | 1 | No Gas | 49.891 | ug/l | 808916.20 |
| Pb | 208 | 209 | 1 | No Gas | 50.287 | ug/l | 3743698.71 |
| Th | 232 | 209 | 3 | He | 50.350 | ug/l | 1794372.35 |
| U | 238 | 209 | 1 | No Gas | 51.322 | ug/l | 3793679.43 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4276082.63 | 97.6 |
| Sc | 45 | 2 | H2 | 2287811.57 | 97.2 |
| Sc | 45 | 3 | He | 242869.15 | 102.7 |
| Ge | 72 | 1 | No Gas | 1297364.90 | 101.2 |
| Ge | 72 | 2 | H2 | 900080.57 | 101.0 |
| Ge | 72 | 3 | He | 189051.63 | 102.8 |
| In | 115 | 1 | No Gas | 11048680.19 | 96.2 |
| In | 115 | 3 | He | 2241683.79 | 96.2 |
| Tb | 159 | 1 | No Gas | 15552155.05 | 99.1 |
| Tb | 159 | 3 | He | 6384868.34 | 98.4 |
| Ho | 165 | 1 | No Gas | 14930047.96 | 99.3 |
| Ho | 165 | 3 | He | 6244785.56 | 101.2 |
| Lu | 175 | 1 | No Gas | 15486442.98 | 99.8 |
| Lu | 175 | 3 | He | 5084396.30 | 100.8 |
| Bi | 209 | 1 | No Gas | 11074715.70 | 97.9 |
| Bi | 209 | 3 | He | 4770405.86 | 96.2 |

ICPMS207-B Analytical Data

Sample Name 100 ppb STD
File Name 118CAL.S.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 04:13:24
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-Cal
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|--------------|
| Li | 7 | 45 | 1 | No Gas | 1198.995 | ug/l | 6465149.66 |
| Be | 9 | 45 | 1 | No Gas | 100.669 | ug/l | 240078.62 |
| B | 11 | 45 | 1 | No Gas | 97.859 | ug/l | 152413.55 |
| Na | 23 | 45 | 3 | He | 25005.582 | ug/l | 17284563.22 |
| Mg | 24 | 45 | 3 | He | 25390.254 | ug/l | 9551814.64 |
| Al | 27 | 45 | 1 | No Gas | 102.178 | ug/l | 1491300.51 |
| Si | 28 | 45 | 2 | H2 | 396.079 | ug/l | 725884.20 |
| K | 39 | 72 | 3 | He | 24071.020 | ug/l | 9878429.16 |
| Ca | 40 | 72 | 2 | H2 | 23886.042 | ug/l | 171603085.37 |
| Ti | 47 | 72 | 1 | No Gas | 99.213 | ug/l | 191660.43 |
| V | 51 | 72 | 1 | No Gas | 96.795 | ug/l | 2573421.61 |
| V | 51 | 72 | 3 | He | 95.159 | ug/l | 427737.84 |
| Cr | 52 | 72 | 1 | No Gas | 99.975 | ug/l | 2423088.91 |
| Cr | 52 | 72 | 3 | He | 98.974 | ug/l | 461318.69 |
| Mn | 55 | 72 | 1 | No Gas | 100.480 | ug/l | 3259615.57 |
| Mn | 55 | 72 | 3 | He | 101.271 | ug/l | 305711.67 |
| Fe | 56 | 72 | 2 | H2 | 2568.669 | ug/l | 44292191.05 |
| Fe | 56 | 72 | 3 | He | 2625.141 | ug/l | 10942474.59 |
| Co | 59 | 72 | 1 | No Gas | 97.872 | ug/l | 2635729.52 |
| Ni | 60 | 72 | 1 | No Gas | 100.632 | ug/l | 606945.67 |
| Ni | 60 | 72 | 3 | He | 101.737 | ug/l | 193554.04 |
| Cu | 63 | 72 | 1 | No Gas | 101.140 | ug/l | 1472337.65 |
| Cu | 63 | 72 | 3 | He | 101.528 | ug/l | 522015.80 |
| Cu | 65 | 72 | 1 | No Gas | 100.590 | ug/l | 718476.62 |
| Zn | 66 | 72 | 1 | No Gas | 101.996 | ug/l | 520541.35 |
| Zn | 66 | 72 | 3 | He | 105.460 | ug/l | 110460.28 |
| As | 75 | 72 | 1 | No Gas | 102.246 | ug/l | 636019.78 |
| As | 75 | 72 | 3 | He | 101.489 | ug/l | 98131.64 |
| Se | 78 | 72 | 2 | H2 | 103.050 | ug/l | 62468.43 |
| Br | 79 | 72 | 1 | No Gas | 11.037 | ug/l | 230536.97 |
| Br | 79 | 72 | 2 | H2 | 10.248 | ug/l | 124001.09 |
| Se | 82 | 72 | 1 | No Gas | 105.752 | ug/l | 36990.06 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 48959.20 |
| Sr | 88 | 72 | 1 | No Gas | 104.407 | ug/l | 4783425.36 |
| Sr | 88 | 72 | 3 | He | 100.165 | ug/l | 514317.34 |
| Mo | 95 | 115 | 1 | No Gas | 99.336 | ug/l | 938322.90 |
| Mo | 95 | 115 | 3 | He | 98.781 | ug/l | 330858.13 |
| Mo | 98 | 115 | 1 | No Gas | 98.681 | ug/l | 1514927.07 |
| Ag | 107 | 115 | 1 | No Gas | 40.027 | ug/l | 1000924.39 |
| Ag | 109 | 115 | 1 | No Gas | 39.861 | ug/l | 957579.58 |
| Cd | 111 | 115 | 1 | No Gas | 97.346 | ug/l | 567221.12 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|------------|
| Cd | 111 | 115 | 3 | He | 105.521 | ug/l | 184831.22 |
| Cd | 114 | 115 | 1 | No Gas | 100.338 | ug/l | 1291158.64 |
| Cd | 114 | 115 | 3 | He | 102.467 | ug/l | 453234.90 |
| Sn | 118 | 115 | 1 | No Gas | 98.977 | ug/l | 1628063.82 |
| Sn | 118 | 115 | 3 | He | 98.896 | ug/l | 423718.54 |
| Sb | 121 | 115 | 1 | No Gas | 98.828 | ug/l | 2601034.69 |
| Sb | 121 | 115 | 3 | He | 99.037 | ug/l | 668804.77 |
| Sb | 123 | 115 | 1 | No Gas | 98.640 | ug/l | 1976597.92 |
| Sb | 123 | 115 | 3 | He | 98.782 | ug/l | 529585.76 |
| Ba | 135 | 115 | 1 | No Gas | 97.828 | ug/l | 517119.30 |
| Ba | 137 | 115 | 1 | No Gas | 100.267 | ug/l | 896405.61 |
| La | 139 | 115 | 3 | He | 100.007 | ug/l | 2472692.15 |
| Ce | 140 | 115 | 3 | He | 100.031 | ug/l | 2734720.97 |
| Hg | 201 | 209 | 1 | No Gas | 2.002 | ug/l | 7407.24 |
| Hg | 202 | 209 | 1 | No Gas | 2.002 | ug/l | 17008.05 |
| Hg | 202 | 209 | 3 | He | 2.010 | ug/l | 8281.91 |
| Tl | 203 | 209 | 3 | He | 99.294 | ug/l | 1033887.10 |
| Tl | 205 | 209 | 1 | No Gas | 99.881 | ug/l | 5210232.63 |
| Tl | 205 | 209 | 3 | He | 100.949 | ug/l | 2477621.47 |
| [Pb] | 206 | 209 | 1 | No Gas | 101.206 | ug/l | 1819438.38 |
| [Pb] | 207 | 209 | 1 | No Gas | 98.819 | ug/l | 1566054.73 |
| Pb | 208 | 209 | 1 | No Gas | 99.483 | ug/l | 7237894.48 |
| Th | 232 | 209 | 3 | He | 100.422 | ug/l | 3502594.54 |
| U | 238 | 209 | 1 | No Gas | 101.687 | ug/l | 7349259.90 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4465453.58 | 101.9 |
| Sc | 45 | 2 | H2 | 2336043.61 | 99.2 |
| Sc | 45 | 3 | He | 265253.80 | 112.2 |
| Ge | 72 | 1 | No Gas | 1327458.79 | 103.6 |
| Ge | 72 | 2 | H2 | 918208.26 | 103.1 |
| Ge | 72 | 3 | He | 199434.25 | 108.4 |
| In | 115 | 1 | No Gas | 11209145.15 | 97.6 |
| In | 115 | 3 | He | 2295739.74 | 98.5 |
| Tb | 159 | 1 | No Gas | 15636430.67 | 99.7 |
| Tb | 159 | 3 | He | 6347262.66 | 97.8 |
| Ho | 165 | 1 | No Gas | 15079244.55 | 100.3 |
| Ho | 165 | 3 | He | 6218673.30 | 100.8 |
| Lu | 175 | 1 | No Gas | 15261186.90 | 98.3 |
| Lu | 175 | 3 | He | 5098839.23 | 101.1 |
| Bi | 209 | 1 | No Gas | 10830117.30 | 95.7 |
| Bi | 209 | 3 | He | 4668832.02 | 94.1 |

ICPMS207-B Analytical Data

Sample Name 1000 ppb STD
File Name 119CAL.S.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 04:19:46
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020B-Cal
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|--------------|
| Li | 7 | 45 | 1 | No Gas | 2538.275 | ug/l | 15407382.10 |
| Be | 9 | 45 | 1 | No Gas | 999.907 | ug/l | 2686108.07 |
| B | 11 | 45 | 1 | No Gas | 1000.200 | ug/l | 1713218.44 |
| Na | 23 | 45 | 3 | He | 49923.610 | ug/l | 37840823.33 |
| Mg | 24 | 45 | 3 | He | 49773.938 | ug/l | 20578702.71 |
| Al | 27 | 45 | 1 | No Gas | 999.184 | ug/l | 16362357.25 |
| Si | 28 | 45 | 2 | H2 | -20.941 | ug/l | 39633.49 |
| K | 39 | 72 | 3 | He | 50625.565 | ug/l | 22334632.16 |
| Ca | 40 | 72 | 2 | H2 | 50726.168 | ug/l | 370550494.11 |
| Ti | 47 | 72 | 1 | No Gas | 5.655 | ug/l | 11726.57 |
| V | 51 | 72 | 1 | No Gas | 1000.476 | ug/l | 28090617.90 |
| V | 51 | 72 | 3 | He | 1000.596 | ug/l | 4647538.61 |
| Cr | 52 | 72 | 1 | No Gas | 1000.039 | ug/l | 24817791.10 |
| Cr | 52 | 72 | 3 | He | 1000.057 | ug/l | 5018899.89 |
| Mn | 55 | 72 | 1 | No Gas | 999.919 | ug/l | 34133028.57 |
| Mn | 55 | 72 | 3 | He | 999.812 | ug/l | 3253922.44 |
| Fe | 56 | 72 | 2 | H2 | 6021.828 | ug/l | 105542417.87 |
| Fe | 56 | 72 | 3 | He | 5994.741 | ug/l | 26946721.61 |
| Co | 59 | 72 | 1 | No Gas | 1000.202 | ug/l | 28458385.00 |
| Ni | 60 | 72 | 1 | No Gas | 999.908 | ug/l | 6369842.41 |
| Ni | 60 | 72 | 3 | He | 999.694 | ug/l | 2050346.84 |
| Cu | 63 | 72 | 1 | No Gas | 999.824 | ug/l | 15354721.54 |
| Cu | 63 | 72 | 3 | He | 999.683 | ug/l | 5537057.28 |
| Cu | 65 | 72 | 1 | No Gas | 999.878 | ug/l | 7532029.39 |
| Zn | 66 | 72 | 1 | No Gas | 999.737 | ug/l | 5381559.40 |
| Zn | 66 | 72 | 3 | He | 999.176 | ug/l | 1126548.39 |
| As | 75 | 72 | 1 | No Gas | 999.733 | ug/l | 6447546.59 |
| As | 75 | 72 | 3 | He | 999.791 | ug/l | 1040345.80 |
| Se | 78 | 72 | 2 | H2 | 999.594 | ug/l | 615903.75 |
| Br | 79 | 72 | 1 | No Gas | 11.099 | ug/l | 244503.51 |
| Br | 79 | 72 | 2 | H2 | 11.728 | ug/l | 139668.57 |
| Se | 82 | 72 | 1 | No Gas | 999.285 | ug/l | 364169.00 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 313912.39 |
| Sr | 88 | 72 | 1 | No Gas | 999.475 | ug/l | 48361273.70 |
| Sr | 88 | 72 | 3 | He | 999.977 | ug/l | 5535681.27 |
| Mo | 95 | 115 | 1 | No Gas | 0.038 | ug/l | 970.04 |
| Mo | 95 | 115 | 3 | He | 0.067 | ug/l | 270.01 |
| Mo | 98 | 115 | 1 | No Gas | 0.098 | ug/l | 1599.14 |
| Ag | 107 | 115 | 1 | No Gas | 261.473 | ug/l | 6478580.07 |
| Ag | 109 | 115 | 1 | No Gas | 268.299 | ug/l | 6384499.36 |
| Cd | 111 | 115 | 1 | No Gas | 1000.316 | ug/l | 5781895.40 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|----------|-------|-------------|
| Cd | 111 | 115 | 3 | He | 999.281 | ug/l | 1845416.49 |
| Cd | 114 | 115 | 1 | No Gas | 999.937 | ug/l | 12764824.65 |
| Cd | 114 | 115 | 3 | He | 999.649 | ug/l | 4661773.32 |
| Sn | 118 | 115 | 1 | No Gas | 0.241 | ug/l | 6871.39 |
| Sn | 118 | 115 | 3 | He | 0.216 | ug/l | 1796.80 |
| Sb | 121 | 115 | 1 | No Gas | 0.269 | ug/l | 8449.72 |
| Sb | 121 | 115 | 3 | He | 0.200 | ug/l | 1762.29 |
| Sb | 123 | 115 | 1 | No Gas | 0.293 | ug/l | 6890.39 |
| Sb | 123 | 115 | 3 | He | 0.200 | ug/l | 1421.21 |
| Ba | 135 | 115 | 1 | No Gas | 1000.253 | ug/l | 5245318.77 |
| Ba | 137 | 115 | 1 | No Gas | 999.967 | ug/l | 8868561.96 |
| La | 139 | 115 | 3 | He | 0.008 | ug/l | 236.67 |
| Ce | 140 | 115 | 3 | He | 0.022 | ug/l | 655.58 |
| Hg | 201 | 209 | 1 | No Gas | 0.014 | ug/l | 76.32 |
| Hg | 202 | 209 | 1 | No Gas | 0.015 | ug/l | 229.63 |
| Hg | 202 | 209 | 3 | He | 0.012 | ug/l | 79.65 |
| Tl | 203 | 209 | 3 | He | 1000.097 | ug/l | 10174882.05 |
| Tl | 205 | 209 | 1 | No Gas | 1000.059 | ug/l | 50049972.59 |
| Tl | 205 | 209 | 3 | He | 999.872 | ug/l | 23981566.24 |
| [Pb] | 206 | 209 | 1 | No Gas | 999.811 | ug/l | 17247372.10 |
| [Pb] | 207 | 209 | 1 | No Gas | 1000.128 | ug/l | 15210980.75 |
| Pb | 208 | 209 | 1 | No Gas | 1000.041 | ug/l | 69815562.85 |
| Th | 232 | 209 | 3 | He | 999.945 | ug/l | 34096757.92 |
| U | 238 | 209 | 1 | No Gas | 999.766 | ug/l | 69351937.31 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5028875.04 | 114.7 |
| Sc | 45 | 2 | H2 | 2496551.77 | 106.0 |
| Sc | 45 | 3 | He | 291544.20 | 123.3 |
| Ge | 72 | 1 | No Gas | 1402123.38 | 109.4 |
| Ge | 72 | 2 | H2 | 934080.73 | 104.8 |
| Ge | 72 | 3 | He | 215112.93 | 116.9 |
| In | 115 | 1 | No Gas | 11115377.08 | 96.8 |
| In | 115 | 3 | He | 2420638.43 | 103.9 |
| Tb | 159 | 1 | No Gas | 15742517.17 | 100.4 |
| Tb | 159 | 3 | He | 6516868.93 | 100.4 |
| Ho | 165 | 1 | No Gas | 15114623.99 | 100.6 |
| Ho | 165 | 3 | He | 6288070.82 | 101.9 |
| Lu | 175 | 1 | No Gas | 15374593.53 | 99.0 |
| Lu | 175 | 3 | He | 5255381.18 | 104.2 |
| Bi | 209 | 1 | No Gas | 10393070.67 | 91.9 |
| Bi | 209 | 3 | He | 4565066.27 | 92.0 |

ICPMS207-B Analytical Data

Sample Name 100 ppb Br STD
File Name 120CAL5.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 04:26:09
Sample Type CalStd
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|------------|
| Li | 7 | 45 | 1 | No Gas | 1.331 | ug/l | 23669.22 |
| Be | 9 | 45 | 1 | No Gas | 0.168 | ug/l | 536.90 |
| B | 11 | 45 | 1 | No Gas | 11.009 | ug/l | 23786.95 |
| Na | 23 | 45 | 3 | He | -40.419 | ug/l | 54587.35 |
| Mg | 24 | 45 | 3 | He | 1.547 | ug/l | 2189.16 |
| Al | 27 | 45 | 1 | No Gas | 0.147 | ug/l | 10325.85 |
| Si | 28 | 45 | 2 | H2 | -22.764 | ug/l | 36784.46 |
| K | 39 | 72 | 3 | He | 601.098 | ug/l | 314260.41 |
| Ca | 40 | 72 | 2 | H2 | 2.291 | ug/l | 106448.15 |
| Ti | 47 | 72 | 1 | No Gas | 0.230 | ug/l | 660.68 |
| V | 51 | 72 | 1 | No Gas | 0.220 | ug/l | 11207.24 |
| V | 51 | 72 | 3 | He | -1.121 | ug/l | 15349.21 |
| Cr | 52 | 72 | 1 | No Gas | 0.547 | ug/l | 101959.93 |
| Cr | 52 | 72 | 3 | He | 0.022 | ug/l | 1035.60 |
| Mn | 55 | 72 | 1 | No Gas | 0.047 | ug/l | 13629.32 |
| Mn | 55 | 72 | 3 | He | 0.008 | ug/l | 167.64 |
| Fe | 56 | 72 | 2 | H2 | 0.101 | ug/l | 12394.59 |
| Fe | 56 | 72 | 3 | He | 0.138 | ug/l | 6012.30 |
| Co | 59 | 72 | 1 | No Gas | 0.016 | ug/l | 948.15 |
| Ni | 60 | 72 | 1 | No Gas | 0.021 | ug/l | 662.04 |
| Ni | 60 | 72 | 3 | He | 0.020 | ug/l | 161.11 |
| Cu | 63 | 72 | 1 | No Gas | 0.170 | ug/l | 4707.99 |
| Cu | 63 | 72 | 3 | He | 0.134 | ug/l | 1427.45 |
| Cu | 65 | 72 | 1 | No Gas | 0.151 | ug/l | 2135.68 |
| Zn | 66 | 72 | 1 | No Gas | 0.054 | ug/l | 1275.31 |
| Zn | 66 | 72 | 3 | He | -0.013 | ug/l | 250.00 |
| As | 75 | 72 | 1 | No Gas | 0.514 | ug/l | 16762.27 |
| As | 75 | 72 | 3 | He | 0.112 | ug/l | 366.60 |
| Se | 78 | 72 | 2 | H2 | 0.133 | ug/l | 114.89 |
| Br | 79 | 72 | 1 | No Gas | 100.000 | ug/l | 1682793.44 |
| Br | 79 | 72 | 2 | H2 | 100.000 | ug/l | 956883.79 |
| Se | 82 | 72 | 1 | No Gas | 2.835 | ug/l | 1632.04 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 19501.15 |
| Sr | 88 | 72 | 1 | No Gas | 0.005 | ug/l | 938.17 |
| Sr | 88 | 72 | 3 | He | 0.004 | ug/l | 224.45 |
| Mo | 95 | 115 | 1 | No Gas | -0.044 | ug/l | 215.56 |
| Mo | 95 | 115 | 3 | He | 0.005 | ug/l | 51.11 |
| Mo | 98 | 115 | 1 | No Gas | 0.008 | ug/l | 249.60 |
| Ag | 107 | 115 | 1 | No Gas | 0.326 | ug/l | 10446.76 |
| Ag | 109 | 115 | 1 | No Gas | 0.318 | ug/l | 9882.80 |
| Cd | 111 | 115 | 1 | No Gas | 0.022 | ug/l | 133.92 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.013 | ug/l | 37.55 |
| Cd | 114 | 115 | 1 | No Gas | 0.017 | ug/l | 112.04 |
| Cd | 114 | 115 | 3 | He | 0.014 | ug/l | 98.60 |
| Sn | 118 | 115 | 1 | No Gas | 0.070 | ug/l | 4411.96 |
| Sn | 118 | 115 | 3 | He | 0.060 | ug/l | 1105.60 |
| Sb | 121 | 115 | 1 | No Gas | 0.035 | ug/l | 2528.82 |
| Sb | 121 | 115 | 3 | He | 0.036 | ug/l | 607.74 |
| Sb | 123 | 115 | 1 | No Gas | 0.035 | ug/l | 1893.66 |
| Sb | 123 | 115 | 3 | He | 0.033 | ug/l | 487.39 |
| Ba | 135 | 115 | 1 | No Gas | 0.004 | ug/l | 106.45 |
| Ba | 137 | 115 | 1 | No Gas | 0.010 | ug/l | 182.97 |
| La | 139 | 115 | 3 | He | 0.001 | ug/l | 53.34 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 32.22 |
| Hg | 201 | 209 | 1 | No Gas | 0.005 | ug/l | 46.32 |
| Hg | 202 | 209 | 1 | No Gas | 0.004 | ug/l | 149.30 |
| Hg | 202 | 209 | 3 | He | 0.007 | ug/l | 63.99 |
| Tl | 203 | 209 | 3 | He | 0.681 | ug/l | 8404.04 |
| Tl | 205 | 209 | 1 | No Gas | 0.626 | ug/l | 37424.93 |
| Tl | 205 | 209 | 3 | He | 0.689 | ug/l | 20109.88 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.072 | ug/l | 1997.94 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.062 | ug/l | 1589.00 |
| Pb | 208 | 209 | 1 | No Gas | 0.065 | ug/l | 7605.35 |
| Th | 232 | 209 | 3 | He | 0.128 | ug/l | 5189.13 |
| U | 238 | 209 | 1 | No Gas | 0.030 | ug/l | 2349.75 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5122515.52 | 116.9 |
| Sc | 45 | 2 | H2 | 2521731.97 | 107.1 |
| Sc | 45 | 3 | He | 272935.76 | 115.4 |
| Ge | 72 | 1 | No Gas | 1411887.43 | 110.1 |
| Ge | 72 | 2 | H2 | 942845.54 | 105.8 |
| Ge | 72 | 3 | He | 203722.51 | 110.7 |
| In | 115 | 1 | No Gas | 11973253.17 | 104.2 |
| In | 115 | 3 | He | 2451954.47 | 105.2 |
| Tb | 159 | 1 | No Gas | 15985987.09 | 101.9 |
| Tb | 159 | 3 | He | 6661637.91 | 102.6 |
| Ho | 165 | 1 | No Gas | 15071307.34 | 100.3 |
| Ho | 165 | 3 | He | 6384970.48 | 103.5 |
| Lu | 175 | 1 | No Gas | 15406324.12 | 99.2 |
| Lu | 175 | 3 | He | 5234165.60 | 103.8 |
| Bi | 209 | 1 | No Gas | 11256780.74 | 99.5 |
| Bi | 209 | 3 | He | 4951496.85 | 99.8 |

ICPMS207-B Analytical Data

Sample Name Rinse
File Name 121BLKV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 04:32:29
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | -0.001 | ug/l | 15028.76 |
| Be | 9 | 45 | 1 | No Gas | 0.069 | ug/l | 259.28 |
| B | 11 | 45 | 1 | No Gas | 4.686 | ug/l | 12437.44 |
| Na | 23 | 45 | 3 | He | -38.685 | ug/l | 53340.77 |
| Mg | 24 | 45 | 3 | He | 1.033 | ug/l | 1903.02 |
| Al | 27 | 45 | 1 | No Gas | 0.021 | ug/l | 7995.50 |
| Si | 28 | 45 | 2 | H2 | -25.878 | ug/l | 30503.21 |
| K | 39 | 72 | 3 | He | 14.230 | ug/l | 67611.79 |
| Ca | 40 | 72 | 2 | H2 | 1.190 | ug/l | 95887.64 |
| Ti | 47 | 72 | 1 | No Gas | 0.056 | ug/l | 303.64 |
| V | 51 | 72 | 1 | No Gas | 1.533 | ug/l | 48487.55 |
| V | 51 | 72 | 3 | He | -1.487 | ug/l | 13312.77 |
| Cr | 52 | 72 | 1 | No Gas | -0.230 | ug/l | 82872.63 |
| Cr | 52 | 72 | 3 | He | -0.007 | ug/l | 871.14 |
| Mn | 55 | 72 | 1 | No Gas | 0.102 | ug/l | 15567.35 |
| Mn | 55 | 72 | 3 | He | 0.134 | ug/l | 538.90 |
| Fe | 56 | 72 | 2 | H2 | 0.081 | ug/l | 11729.88 |
| Fe | 56 | 72 | 3 | He | 2.108 | ug/l | 13912.58 |
| Co | 59 | 72 | 1 | No Gas | 0.000 | ug/l | 489.04 |
| Ni | 60 | 72 | 1 | No Gas | 0.009 | ug/l | 585.52 |
| Ni | 60 | 72 | 3 | He | 0.007 | ug/l | 132.23 |
| Cu | 63 | 72 | 1 | No Gas | 0.011 | ug/l | 2262.42 |
| Cu | 63 | 72 | 3 | He | 0.002 | ug/l | 711.54 |
| Cu | 65 | 72 | 1 | No Gas | 0.007 | ug/l | 1043.13 |
| Zn | 66 | 72 | 1 | No Gas | -0.018 | ug/l | 892.91 |
| Zn | 66 | 72 | 3 | He | -0.015 | ug/l | 238.89 |
| As | 75 | 72 | 1 | No Gas | 0.651 | ug/l | 17723.85 |
| As | 75 | 72 | 3 | He | 0.014 | ug/l | 261.80 |
| Se | 78 | 72 | 2 | H2 | 0.045 | ug/l | 58.22 |
| Br | 79 | 72 | 1 | No Gas | 14.155 | ug/l | 296593.97 |
| Br | 79 | 72 | 2 | H2 | 14.354 | ug/l | 161197.71 |
| Se | 82 | 72 | 1 | No Gas | 0.349 | ug/l | 722.48 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 18808.24 |
| Sr | 88 | 72 | 1 | No Gas | 0.002 | ug/l | 781.80 |
| Sr | 88 | 72 | 3 | He | 0.003 | ug/l | 215.56 |
| Mo | 95 | 115 | 1 | No Gas | -0.054 | ug/l | 110.00 |
| Mo | 95 | 115 | 3 | He | -0.001 | ug/l | 30.00 |
| Mo | 98 | 115 | 1 | No Gas | 0.001 | ug/l | 135.42 |
| Ag | 107 | 115 | 1 | No Gas | 0.023 | ug/l | 2279.11 |
| Ag | 109 | 115 | 1 | No Gas | 0.019 | ug/l | 2159.70 |
| Cd | 111 | 115 | 1 | No Gas | 0.014 | ug/l | 81.40 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.006 | ug/l | 24.56 |
| Cd | 114 | 115 | 1 | No Gas | 0.008 | ug/l | -8.89 |
| Cd | 114 | 115 | 3 | He | 0.005 | ug/l | 57.84 |
| Sn | 118 | 115 | 1 | No Gas | 0.007 | ug/l | 3194.04 |
| Sn | 118 | 115 | 3 | He | -0.001 | ug/l | 816.70 |
| Sb | 121 | 115 | 1 | No Gas | -0.002 | ug/l | 1445.22 |
| Sb | 121 | 115 | 3 | He | 0.004 | ug/l | 368.71 |
| Sb | 123 | 115 | 1 | No Gas | -0.001 | ug/l | 1095.49 |
| Sb | 123 | 115 | 3 | He | 0.002 | ug/l | 302.37 |
| Ba | 135 | 115 | 1 | No Gas | 0.002 | ug/l | 96.47 |
| Ba | 137 | 115 | 1 | No Gas | 0.004 | ug/l | 123.09 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 17.78 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 33.33 |
| Hg | 201 | 209 | 1 | No Gas | 0.001 | ug/l | 29.99 |
| Hg | 202 | 209 | 1 | No Gas | 0.000 | ug/l | 113.31 |
| Hg | 202 | 209 | 3 | He | 0.004 | ug/l | 48.99 |
| Tl | 203 | 209 | 3 | He | 0.240 | ug/l | 3545.23 |
| Tl | 205 | 209 | 1 | No Gas | 0.176 | ug/l | 12883.11 |
| Tl | 205 | 209 | 3 | He | 0.249 | ug/l | 8662.97 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.032 | ug/l | 1238.95 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.036 | ug/l | 1138.95 |
| Pb | 208 | 209 | 1 | No Gas | 0.032 | ug/l | 5049.30 |
| Th | 232 | 209 | 3 | He | 0.029 | ug/l | 1530.15 |
| U | 238 | 209 | 1 | No Gas | 0.005 | ug/l | 497.25 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4986246.13 | 113.8 |
| Sc | 45 | 2 | H2 | 2462759.69 | 104.6 |
| Sc | 45 | 3 | He | 260730.62 | 110.3 |
| Ge | 72 | 1 | No Gas | 1416518.64 | 110.5 |
| Ge | 72 | 2 | H2 | 919505.89 | 103.2 |
| Ge | 72 | 3 | He | 197184.09 | 107.2 |
| In | 115 | 1 | No Gas | 11616999.26 | 101.1 |
| In | 115 | 3 | He | 2418289.08 | 103.8 |
| Tb | 159 | 1 | No Gas | 15974618.74 | 101.8 |
| Tb | 159 | 3 | He | 6537525.06 | 100.7 |
| Ho | 165 | 1 | No Gas | 15194141.84 | 101.1 |
| Ho | 165 | 3 | He | 6382207.40 | 103.4 |
| Lu | 175 | 1 | No Gas | 15196381.79 | 97.9 |
| Lu | 175 | 3 | He | 5307439.18 | 105.2 |
| Bi | 209 | 1 | No Gas | 11106990.22 | 98.2 |
| Bi | 209 | 3 | He | 4961268.07 | 100.0 |

ICPMS207-B Analytical Data

Sample Name QCS
File Name 122_QC1.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 04:38:44
Sample Type QC1
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 49.196 | ug/l | 302850.64 |
| Be | 9 | 45 | 1 | No Gas | 24.752 | ug/l | 64299.23 |
| B | 11 | 45 | 1 | No Gas | 54.063 | ug/l | 93598.61 |
| Na | 23 | 45 | 3 | He | 2588.331 | ug/l | 1848108.93 |
| Mg | 24 | 45 | 3 | He | 2634.360 | ug/l | 985220.18 |
| Al | 27 | 45 | 1 | No Gas | 249.132 | ug/l | 3948727.58 |
| Si | 28 | 45 | 2 | H2 | 519.570 | ug/l | 948155.74 |
| K | 39 | 72 | 3 | He | 2469.712 | ug/l | 1078412.19 |
| Ca | 40 | 72 | 2 | H2 | 2521.212 | ug/l | 18224072.60 |
| Ti | 47 | 72 | 1 | No Gas | 52.707 | ug/l | 104173.48 |
| V | 51 | 72 | 1 | No Gas | 47.411 | ug/l | 1290680.51 |
| V | 51 | 72 | 3 | He | 46.345 | ug/l | 220241.20 |
| Cr | 52 | 72 | 1 | No Gas | 51.946 | ug/l | 1327590.24 |
| Cr | 52 | 72 | 3 | He | 50.755 | ug/l | 238871.25 |
| Mn | 55 | 72 | 1 | No Gas | 261.836 | ug/l | 8662910.13 |
| Mn | 55 | 72 | 3 | He | 255.784 | ug/l | 778129.28 |
| Fe | 56 | 72 | 2 | H2 | 254.209 | ug/l | 4399061.77 |
| Fe | 56 | 72 | 3 | He | 253.385 | ug/l | 1069697.02 |
| Co | 59 | 72 | 1 | No Gas | 52.550 | ug/l | 1446772.25 |
| Ni | 60 | 72 | 1 | No Gas | 52.280 | ug/l | 322597.20 |
| Ni | 60 | 72 | 3 | He | 52.390 | ug/l | 100539.61 |
| Cu | 63 | 72 | 1 | No Gas | 53.606 | ug/l | 798498.89 |
| Cu | 63 | 72 | 3 | He | 53.038 | ug/l | 275246.73 |
| Cu | 65 | 72 | 1 | No Gas | 53.092 | ug/l | 387980.88 |
| Zn | 66 | 72 | 1 | No Gas | 50.776 | ug/l | 265374.51 |
| Zn | 66 | 72 | 3 | He | 53.897 | ug/l | 57043.66 |
| As | 75 | 72 | 1 | No Gas | 50.736 | ug/l | 329000.70 |
| As | 75 | 72 | 3 | He | 50.537 | ug/l | 49388.17 |
| Se | 78 | 72 | 2 | H2 | 52.040 | ug/l | 31620.61 |
| Br | 79 | 72 | 1 | No Gas | 13.554 | ug/l | 274710.92 |
| Br | 79 | 72 | 2 | H2 | 12.719 | ug/l | 146482.22 |
| Se | 82 | 72 | 1 | No Gas | 53.096 | ug/l | 19266.37 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 33589.08 |
| Sr | 88 | 72 | 1 | No Gas | 51.290 | ug/l | 2401841.20 |
| Sr | 88 | 72 | 3 | He | 49.901 | ug/l | 258379.26 |
| Mo | 95 | 115 | 1 | No Gas | 50.329 | ug/l | 482923.63 |
| Mo | 95 | 115 | 3 | He | 49.583 | ug/l | 170521.35 |
| Mo | 98 | 115 | 1 | No Gas | 50.834 | ug/l | 791831.24 |
| Ag | 107 | 115 | 1 | No Gas | 25.156 | ug/l | 639024.63 |
| Ag | 109 | 115 | 1 | No Gas | 25.555 | ug/l | 623536.91 |
| Cd | 111 | 115 | 1 | No Gas | 24.518 | ug/l | 144937.81 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Cd | 111 | 115 | 3 | He | 26.079 | ug/l | 46907.58 |
| Cd | 114 | 115 | 1 | No Gas | 25.062 | ug/l | 327078.96 |
| Cd | 114 | 115 | 3 | He | 25.364 | ug/l | 115210.49 |
| Sn | 118 | 115 | 1 | No Gas | 50.180 | ug/l | 839144.34 |
| Sn | 118 | 115 | 3 | He | 50.304 | ug/l | 221715.98 |
| Sb | 121 | 115 | 1 | No Gas | 49.209 | ug/l | 1315002.17 |
| Sb | 121 | 115 | 3 | He | 48.861 | ug/l | 338949.93 |
| Sb | 123 | 115 | 1 | No Gas | 49.047 | ug/l | 997840.09 |
| Sb | 123 | 115 | 3 | He | 48.733 | ug/l | 268369.17 |
| Ba | 135 | 115 | 1 | No Gas | 48.948 | ug/l | 262669.47 |
| Ba | 137 | 115 | 1 | No Gas | 50.470 | ug/l | 457835.19 |
| La | 139 | 115 | 3 | He | 51.159 | ug/l | 1298726.42 |
| Ce | 140 | 115 | 3 | He | 52.270 | ug/l | 1467125.52 |
| Hg | 201 | 209 | 1 | No Gas | 0.999 | ug/l | 3868.79 |
| Hg | 202 | 209 | 1 | No Gas | 0.986 | ug/l | 8803.14 |
| Hg | 202 | 209 | 3 | He | 0.983 | ug/l | 4308.50 |
| Tl | 203 | 209 | 3 | He | 47.398 | ug/l | 523622.46 |
| Tl | 205 | 209 | 1 | No Gas | 48.735 | ug/l | 2654543.33 |
| Tl | 205 | 209 | 3 | He | 48.663 | ug/l | 1267421.26 |
| [Pb] | 206 | 209 | 1 | No Gas | 49.142 | ug/l | 922172.57 |
| [Pb] | 207 | 209 | 1 | No Gas | 48.360 | ug/l | 800047.31 |
| Pb | 208 | 209 | 1 | No Gas | 49.220 | ug/l | 3738074.06 |
| Th | 232 | 209 | 3 | He | 49.242 | ug/l | 1820799.45 |
| U | 238 | 209 | 1 | No Gas | 53.530 | ug/l | 4036767.55 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4863704.80 | 111.0 |
| Sc | 45 | 2 | H2 | 2382431.57 | 101.2 |
| Sc | 45 | 3 | He | 263337.86 | 111.4 |
| Ge | 72 | 1 | No Gas | 1356441.75 | 105.8 |
| Ge | 72 | 2 | H2 | 919866.76 | 103.2 |
| Ge | 72 | 3 | He | 201076.18 | 109.3 |
| In | 115 | 1 | No Gas | 11373670.52 | 99.0 |
| In | 115 | 3 | He | 2357046.27 | 101.1 |
| Tb | 159 | 1 | No Gas | 15904584.75 | 101.4 |
| Tb | 159 | 3 | He | 6423939.08 | 99.0 |
| Ho | 165 | 1 | No Gas | 15002851.28 | 99.8 |
| Ho | 165 | 3 | He | 6275124.64 | 101.7 |
| Lu | 175 | 1 | No Gas | 15298201.83 | 98.5 |
| Lu | 175 | 3 | He | 5186146.54 | 102.8 |
| Bi | 209 | 1 | No Gas | 11296796.95 | 99.8 |
| Bi | 209 | 3 | He | 4949360.28 | 99.8 |

ICPMS207-B Analytical Data

Sample Name ICSA
File Name 123ICSA.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 04:44:59
Sample Type ICSA
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|------------|-------|---------------|
| Li | 7 | 45 | 1 | No Gas | 1.090 | ug/l | 20711.14 |
| Be | 9 | 45 | 1 | No Gas | 0.029 | ug/l | 145.97 |
| B | 11 | 45 | 1 | No Gas | 3.927 | ug/l | 10698.10 |
| Na | 23 | 45 | 3 | He | 109181.007 | ug/l | 75582346.65 |
| Mg | 24 | 45 | 3 | He | 43947.471 | ug/l | 16618589.08 |
| Al | 27 | 45 | 1 | No Gas | 41640.239 | ug/l | 648019070.34 |
| Si | 28 | 45 | 2 | H2 | -23.925 | ug/l | 32443.85 |
| K | 39 | 72 | 3 | He | 42009.558 | ug/l | 16588011.98 |
| Ca | 40 | 72 | 2 | H2 | 123745.067 | ug/l | 836305602.81 |
| Ti | 47 | 72 | 1 | No Gas | 847.045 | ug/l | 1674570.79 |
| V | 51 | 72 | 1 | No Gas | 2.241 | ug/l | 66160.50 |
| V | 51 | 72 | 3 | He | -3.356 | ug/l | 5268.76 |
| Cr | 52 | 72 | 1 | No Gas | 0.236 | ug/l | 90648.58 |
| Cr | 52 | 72 | 3 | He | 0.954 | ug/l | 5166.49 |
| Mn | 55 | 72 | 1 | No Gas | 0.124 | ug/l | 15657.33 |
| Mn | 55 | 72 | 3 | He | 0.201 | ug/l | 721.54 |
| Fe | 56 | 72 | 2 | H2 | 102213.106 | ug/l | 1657925120.05 |
| Fe | 56 | 72 | 3 | He | 108543.397 | ug/l | 436416644.60 |
| Co | 59 | 72 | 1 | No Gas | 0.342 | ug/l | 9910.40 |
| Ni | 60 | 72 | 1 | No Gas | 0.768 | ug/l | 5250.55 |
| Ni | 60 | 72 | 3 | He | 0.222 | ug/l | 523.35 |
| Cu | 63 | 72 | 1 | No Gas | 1.612 | ug/l | 26003.52 |
| Cu | 63 | 72 | 3 | He | 0.147 | ug/l | 1411.12 |
| Cu | 65 | 72 | 1 | No Gas | 0.615 | ug/l | 5445.89 |
| Zn | 66 | 72 | 1 | No Gas | 0.734 | ug/l | 4778.40 |
| Zn | 66 | 72 | 3 | He | 0.343 | ug/l | 595.57 |
| As | 75 | 72 | 1 | No Gas | 0.683 | ug/l | 17214.58 |
| As | 75 | 72 | 3 | He | 0.082 | ug/l | 318.53 |
| Se | 78 | 72 | 2 | H2 | 0.153 | ug/l | 116.44 |
| Br | 79 | 72 | 1 | No Gas | 7.294 | ug/l | 177785.65 |
| Br | 79 | 72 | 2 | H2 | 6.974 | ug/l | 88958.82 |
| Se | 82 | 72 | 1 | No Gas | 0.254 | ug/l | 662.21 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 19920.87 |
| Sr | 88 | 72 | 1 | No Gas | 1.251 | ug/l | 59287.62 |
| Sr | 88 | 72 | 3 | He | 1.222 | ug/l | 6246.95 |
| Mo | 95 | 115 | 1 | No Gas | 854.463 | ug/l | 7679643.43 |
| Mo | 95 | 115 | 3 | He | 830.780 | ug/l | 2713827.82 |
| Mo | 98 | 115 | 1 | No Gas | 837.449 | ug/l | 12238426.21 |
| Ag | 107 | 115 | 1 | No Gas | 0.014 | ug/l | 1882.22 |
| Ag | 109 | 115 | 1 | No Gas | 0.007 | ug/l | 1700.12 |
| Cd | 111 | 115 | 1 | No Gas | 0.052 | ug/l | 289.65 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.237 | ug/l | 417.78 |
| Cd | 114 | 115 | 1 | No Gas | 0.069 | ug/l | 736.75 |
| Cd | 114 | 115 | 3 | He | 0.170 | ug/l | 764.03 |
| Sn | 118 | 115 | 1 | No Gas | 0.078 | ug/l | 4049.24 |
| Sn | 118 | 115 | 3 | He | 0.080 | ug/l | 1094.50 |
| Sb | 121 | 115 | 1 | No Gas | 0.148 | ug/l | 5082.44 |
| Sb | 121 | 115 | 3 | He | 0.120 | ug/l | 1102.16 |
| Sb | 123 | 115 | 1 | No Gas | 0.187 | ug/l | 4575.40 |
| Sb | 123 | 115 | 3 | He | 0.150 | ug/l | 1052.61 |
| Ba | 135 | 115 | 1 | No Gas | 0.067 | ug/l | 412.52 |
| Ba | 137 | 115 | 1 | No Gas | 0.072 | ug/l | 688.66 |
| La | 139 | 115 | 3 | He | 0.009 | ug/l | 226.67 |
| Ce | 140 | 115 | 3 | He | 0.004 | ug/l | 127.78 |
| Hg | 201 | 209 | 1 | No Gas | 0.007 | ug/l | 49.99 |
| Hg | 202 | 209 | 1 | No Gas | 0.008 | ug/l | 165.97 |
| Hg | 202 | 209 | 3 | He | 0.010 | ug/l | 69.99 |
| Tl | 203 | 209 | 3 | He | 0.077 | ug/l | 1573.40 |
| Tl | 205 | 209 | 1 | No Gas | 0.055 | ug/l | 5993.64 |
| Tl | 205 | 209 | 3 | He | 0.071 | ug/l | 3661.31 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.037 | ug/l | 1237.84 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.038 | ug/l | 1092.28 |
| Pb | 208 | 209 | 1 | No Gas | 0.036 | ug/l | 4960.40 |
| Th | 232 | 209 | 3 | He | 0.038 | ug/l | 1672.12 |
| U | 238 | 209 | 1 | No Gas | 0.004 | ug/l | 409.26 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4781213.27 | 109.1 |
| Sc | 45 | 2 | H2 | 2356964.96 | 100.1 |
| Sc | 45 | 3 | He | 266625.82 | 112.8 |
| Ge | 72 | 1 | No Gas | 1359263.53 | 106.0 |
| Ge | 72 | 2 | H2 | 864028.42 | 97.0 |
| Ge | 72 | 3 | He | 192569.59 | 104.7 |
| In | 115 | 1 | No Gas | 10668684.45 | 92.9 |
| In | 115 | 3 | He | 2239420.99 | 96.1 |
| Tb | 159 | 1 | No Gas | 15251729.42 | 97.2 |
| Tb | 159 | 3 | He | 6365380.68 | 98.1 |
| Ho | 165 | 1 | No Gas | 14652401.89 | 97.5 |
| Ho | 165 | 3 | He | 6147282.38 | 99.6 |
| Lu | 175 | 1 | No Gas | 15454312.83 | 99.5 |
| Lu | 175 | 3 | He | 5046649.91 | 100.1 |
| Bi | 209 | 1 | No Gas | 10314578.06 | 91.2 |
| Bi | 209 | 3 | He | 4492598.75 | 90.6 |

ICPMS207-B Analytical Data

Sample Name ICSAB
File Name 124ICSB.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 04:51:16
Sample Type ICSAB
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|------------|-------|---------------|
| Li | 7 | 45 | 1 | No Gas | 1.949 | ug/l | 26408.96 |
| Be | 9 | 45 | 1 | No Gas | 0.012 | ug/l | 106.98 |
| B | 11 | 45 | 1 | No Gas | 1.978 | ug/l | 7753.77 |
| Na | 23 | 45 | 3 | He | 103811.976 | ug/l | 72737178.92 |
| Mg | 24 | 45 | 3 | He | 42484.392 | ug/l | 16256909.51 |
| Al | 27 | 45 | 1 | No Gas | 40905.020 | ug/l | 655020265.80 |
| Si | 28 | 45 | 2 | H2 | -25.458 | ug/l | 30840.10 |
| K | 39 | 72 | 3 | He | 40817.066 | ug/l | 16967515.58 |
| Ca | 40 | 72 | 2 | H2 | 123002.032 | ug/l | 873914276.83 |
| Ti | 47 | 72 | 1 | No Gas | 834.222 | ug/l | 1702699.41 |
| V | 51 | 72 | 1 | No Gas | 20.229 | ug/l | 571782.70 |
| V | 51 | 72 | 3 | He | 16.150 | ug/l | 90463.44 |
| Cr | 52 | 72 | 1 | No Gas | 19.588 | ug/l | 572342.71 |
| Cr | 52 | 72 | 3 | He | 21.333 | ug/l | 101719.83 |
| Mn | 55 | 72 | 1 | No Gas | 19.874 | ug/l | 691128.26 |
| Mn | 55 | 72 | 3 | He | 20.673 | ug/l | 63495.79 |
| Fe | 56 | 72 | 2 | H2 | 103771.379 | ug/l | 1769439764.10 |
| Fe | 56 | 72 | 3 | He | 104840.198 | ug/l | 443650548.25 |
| Co | 59 | 72 | 1 | No Gas | 19.973 | ug/l | 569118.99 |
| Ni | 60 | 72 | 1 | No Gas | 20.292 | ug/l | 129851.13 |
| Ni | 60 | 72 | 3 | He | 20.837 | ug/l | 40361.13 |
| Cu | 63 | 72 | 1 | No Gas | 21.601 | ug/l | 334057.43 |
| Cu | 63 | 72 | 3 | He | 20.293 | ug/l | 106543.08 |
| Cu | 65 | 72 | 1 | No Gas | 20.471 | ug/l | 155335.92 |
| Zn | 66 | 72 | 1 | No Gas | 10.223 | ug/l | 56052.57 |
| Zn | 66 | 72 | 3 | He | 10.723 | ug/l | 11642.49 |
| As | 75 | 72 | 1 | No Gas | 10.943 | ug/l | 83789.69 |
| As | 75 | 72 | 3 | He | 10.371 | ug/l | 10413.57 |
| Se | 78 | 72 | 2 | H2 | 10.602 | ug/l | 6385.40 |
| Br | 79 | 72 | 1 | No Gas | 18.787 | ug/l | 368155.79 |
| Br | 79 | 72 | 2 | H2 | 18.080 | ug/l | 192421.42 |
| Se | 82 | 72 | 1 | No Gas | 11.078 | ug/l | 4621.74 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 20863.78 |
| Sr | 88 | 72 | 1 | No Gas | 1.273 | ug/l | 62338.16 |
| Sr | 88 | 72 | 3 | He | 1.277 | ug/l | 6858.35 |
| Mo | 95 | 115 | 1 | No Gas | 852.724 | ug/l | 8006306.27 |
| Mo | 95 | 115 | 3 | He | 823.181 | ug/l | 2819479.75 |
| Mo | 98 | 115 | 1 | No Gas | 844.483 | ug/l | 12889622.45 |
| Ag | 107 | 115 | 1 | No Gas | 4.938 | ug/l | 124212.61 |
| Ag | 109 | 115 | 1 | No Gas | 5.001 | ug/l | 120873.74 |
| Cd | 111 | 115 | 1 | No Gas | 9.572 | ug/l | 55454.37 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|-----------|
| Cd | 111 | 115 | 3 | He | 10.373 | ug/l | 18592.01 |
| Cd | 114 | 115 | 1 | No Gas | 9.802 | ug/l | 125306.75 |
| Cd | 114 | 115 | 3 | He | 10.072 | ug/l | 45590.86 |
| Sn | 118 | 115 | 1 | No Gas | 0.049 | ug/l | 3763.04 |
| Sn | 118 | 115 | 3 | He | 0.054 | ug/l | 1034.49 |
| Sb | 121 | 115 | 1 | No Gas | 0.032 | ug/l | 2271.08 |
| Sb | 121 | 115 | 3 | He | 0.046 | ug/l | 649.10 |
| Sb | 123 | 115 | 1 | No Gas | 0.051 | ug/l | 2088.62 |
| Sb | 123 | 115 | 3 | He | 0.033 | ug/l | 467.06 |
| Ba | 135 | 115 | 1 | No Gas | 0.057 | ug/l | 379.25 |
| Ba | 137 | 115 | 1 | No Gas | 0.072 | ug/l | 725.25 |
| La | 139 | 115 | 3 | He | 0.009 | ug/l | 256.67 |
| Ce | 140 | 115 | 3 | He | 0.002 | ug/l | 83.33 |
| Hg | 201 | 209 | 1 | No Gas | 0.005 | ug/l | 41.32 |
| Hg | 202 | 209 | 1 | No Gas | 0.005 | ug/l | 143.97 |
| Hg | 202 | 209 | 3 | He | 0.003 | ug/l | 43.66 |
| Tl | 203 | 209 | 3 | He | 0.039 | ug/l | 1209.21 |
| Tl | 205 | 209 | 1 | No Gas | 0.024 | ug/l | 4479.69 |
| Tl | 205 | 209 | 3 | He | 0.039 | ug/l | 2924.83 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.030 | ug/l | 1124.50 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.027 | ug/l | 931.15 |
| Pb | 208 | 209 | 1 | No Gas | 0.028 | ug/l | 4422.54 |
| Th | 232 | 209 | 3 | He | 0.012 | ug/l | 821.02 |
| U | 238 | 209 | 1 | No Gas | 0.001 | ug/l | 202.63 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4920861.74 | 112.3 |
| Sc | 45 | 2 | H2 | 2431721.76 | 103.3 |
| Sc | 45 | 3 | He | 269852.43 | 114.1 |
| Ge | 72 | 1 | No Gas | 1402875.68 | 109.4 |
| Ge | 72 | 2 | H2 | 908334.84 | 102.0 |
| Ge | 72 | 3 | He | 202560.26 | 110.1 |
| In | 115 | 1 | No Gas | 11140514.66 | 97.0 |
| In | 115 | 3 | He | 2347792.26 | 100.7 |
| Tb | 159 | 1 | No Gas | 15508290.97 | 98.9 |
| Tb | 159 | 3 | He | 6437703.10 | 99.2 |
| Ho | 165 | 1 | No Gas | 14904581.97 | 99.2 |
| Ho | 165 | 3 | He | 6264301.63 | 101.5 |
| Lu | 175 | 1 | No Gas | 15291517.12 | 98.5 |
| Lu | 175 | 3 | He | 5234397.81 | 103.8 |
| Bi | 209 | 1 | No Gas | 10453245.23 | 92.4 |
| Bi | 209 | 3 | He | 4539996.93 | 91.5 |

ICPMS207-B Analytical Data

Sample Name Rinse
File Name 125BLKV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 04:57:33
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | 0.783 | ug/l | 20815.26 |
| Be | 9 | 45 | 1 | No Gas | 0.011 | ug/l | 111.31 |
| B | 11 | 45 | 1 | No Gas | 0.816 | ug/l | 6209.78 |
| Na | 23 | 45 | 3 | He | 31.491 | ug/l | 109025.57 |
| Mg | 24 | 45 | 3 | He | -1.041 | ug/l | 1227.62 |
| Al | 27 | 45 | 1 | No Gas | 0.254 | ug/l | 12424.09 |
| Si | 28 | 45 | 2 | H2 | -28.362 | ug/l | 27125.43 |
| K | 39 | 72 | 3 | He | 14.655 | ug/l | 71580.33 |
| Ca | 40 | 72 | 2 | H2 | 2.021 | ug/l | 106019.38 |
| Ti | 47 | 72 | 1 | No Gas | 0.118 | ug/l | 447.13 |
| V | 51 | 72 | 1 | No Gas | 0.641 | ug/l | 23842.02 |
| V | 51 | 72 | 3 | He | -3.594 | ug/l | 4630.76 |
| Cr | 52 | 72 | 1 | No Gas | -1.802 | ug/l | 45133.37 |
| Cr | 52 | 72 | 3 | He | -0.029 | ug/l | 814.47 |
| Mn | 55 | 72 | 1 | No Gas | 0.041 | ug/l | 13932.37 |
| Mn | 55 | 72 | 3 | He | 0.124 | ug/l | 536.90 |
| Fe | 56 | 72 | 2 | H2 | 1.206 | ug/l | 32431.54 |
| Fe | 56 | 72 | 3 | He | 0.996 | ug/l | 9879.94 |
| Co | 59 | 72 | 1 | No Gas | -0.001 | ug/l | 462.43 |
| Ni | 60 | 72 | 1 | No Gas | 0.033 | ug/l | 768.50 |
| Ni | 60 | 72 | 3 | He | 0.005 | ug/l | 135.56 |
| Cu | 63 | 72 | 1 | No Gas | 0.133 | ug/l | 4293.03 |
| Cu | 63 | 72 | 3 | He | 0.103 | ug/l | 1293.80 |
| Cu | 65 | 72 | 1 | No Gas | 0.134 | ug/l | 2084.99 |
| Zn | 66 | 72 | 1 | No Gas | 0.001 | ug/l | 1027.54 |
| Zn | 66 | 72 | 3 | He | 0.004 | ug/l | 273.34 |
| As | 75 | 72 | 1 | No Gas | -0.212 | ug/l | 12448.18 |
| As | 75 | 72 | 3 | He | -0.086 | ug/l | 174.80 |
| Se | 78 | 72 | 2 | H2 | 0.005 | ug/l | 35.89 |
| Br | 79 | 72 | 1 | No Gas | 12.892 | ug/l | 285852.12 |
| Br | 79 | 72 | 2 | H2 | 12.848 | ug/l | 153631.13 |
| Se | 82 | 72 | 1 | No Gas | 0.553 | ug/l | 824.62 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 21143.60 |
| Sr | 88 | 72 | 1 | No Gas | -0.001 | ug/l | 638.75 |
| Sr | 88 | 72 | 3 | He | 0.009 | ug/l | 255.56 |
| Mo | 95 | 115 | 1 | No Gas | 0.179 | ug/l | 2495.80 |
| Mo | 95 | 115 | 3 | He | 0.174 | ug/l | 673.35 |
| Mo | 98 | 115 | 1 | No Gas | 0.246 | ug/l | 4193.08 |
| Ag | 107 | 115 | 1 | No Gas | 0.000 | ug/l | 1759.49 |
| Ag | 109 | 115 | 1 | No Gas | -0.001 | ug/l | 1737.47 |
| Cd | 111 | 115 | 1 | No Gas | -0.001 | ug/l | -9.26 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Cd | 111 | 115 | 3 | He | -0.001 | ug/l | 12.45 |
| Cd | 114 | 115 | 1 | No Gas | -0.003 | ug/l | -167.07 |
| Cd | 114 | 115 | 3 | He | -0.001 | ug/l | 31.98 |
| Sn | 118 | 115 | 1 | No Gas | -0.010 | ug/l | 3027.66 |
| Sn | 118 | 115 | 3 | He | -0.014 | ug/l | 786.69 |
| Sb | 121 | 115 | 1 | No Gas | -0.014 | ug/l | 1145.83 |
| Sb | 121 | 115 | 3 | He | -0.006 | ug/l | 306.04 |
| Sb | 123 | 115 | 1 | No Gas | -0.012 | ug/l | 902.79 |
| Sb | 123 | 115 | 3 | He | -0.008 | ug/l | 258.36 |
| Ba | 135 | 115 | 1 | No Gas | 0.000 | ug/l | 89.82 |
| Ba | 137 | 115 | 1 | No Gas | 0.000 | ug/l | 89.82 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 15.56 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 38.89 |
| Hg | 201 | 209 | 1 | No Gas | 0.002 | ug/l | 33.66 |
| Hg | 202 | 209 | 1 | No Gas | 0.000 | ug/l | 113.98 |
| Hg | 202 | 209 | 3 | He | 0.003 | ug/l | 47.32 |
| Tl | 203 | 209 | 3 | He | 0.030 | ug/l | 1217.21 |
| Tl | 205 | 209 | 1 | No Gas | 0.019 | ug/l | 4488.58 |
| Tl | 205 | 209 | 3 | He | 0.024 | ug/l | 2790.75 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.007 | ug/l | 768.91 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.009 | ug/l | 697.80 |
| Pb | 208 | 209 | 1 | No Gas | 0.007 | ug/l | 3161.28 |
| Th | 232 | 209 | 3 | He | 0.001 | ug/l | 486.87 |
| U | 238 | 209 | 1 | No Gas | 0.000 | ug/l | 151.97 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5257014.86 | 120.0 |
| Sc | 45 | 2 | H2 | 2551943.09 | 108.4 |
| Sc | 45 | 3 | He | 282006.57 | 119.3 |
| Ge | 72 | 1 | No Gas | 1466316.77 | 114.4 |
| Ge | 72 | 2 | H2 | 956977.93 | 107.4 |
| Ge | 72 | 3 | He | 208259.15 | 113.2 |
| In | 115 | 1 | No Gas | 12094600.70 | 105.3 |
| In | 115 | 3 | He | 2514690.13 | 107.9 |
| Tb | 159 | 1 | No Gas | 15982419.36 | 101.9 |
| Tb | 159 | 3 | He | 6621688.64 | 102.0 |
| Ho | 165 | 1 | No Gas | 15140216.14 | 100.7 |
| Ho | 165 | 3 | He | 6249602.51 | 101.3 |
| Lu | 175 | 1 | No Gas | 15416549.34 | 99.3 |
| Lu | 175 | 3 | He | 5246476.66 | 104.0 |
| Bi | 209 | 1 | No Gas | 11062686.96 | 97.8 |
| Bi | 209 | 3 | He | 4948048.84 | 99.7 |

ICPMS207-B Analytical Data

Sample Name CCV
File Name 126_CCV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 05:03:46
Sample Type CCV
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 659.733 | ug/l | 4072773.68 |
| Be | 9 | 45 | 1 | No Gas | 52.670 | ug/l | 143589.75 |
| B | 11 | 45 | 1 | No Gas | 53.830 | ug/l | 97900.36 |
| Na | 23 | 45 | 3 | He | 12928.490 | ug/l | 9626279.86 |
| Mg | 24 | 45 | 3 | He | 12929.018 | ug/l | 5217792.52 |
| Al | 27 | 45 | 1 | No Gas | 64.700 | ug/l | 1082340.66 |
| Si | 28 | 45 | 2 | H2 | 207.079 | ug/l | 441620.28 |
| K | 39 | 72 | 3 | He | 12299.177 | ug/l | 5313429.78 |
| Ca | 40 | 72 | 2 | H2 | 12336.960 | ug/l | 91756907.84 |
| Ti | 47 | 72 | 1 | No Gas | 55.075 | ug/l | 113739.93 |
| V | 51 | 72 | 1 | No Gas | 49.114 | ug/l | 1397607.01 |
| V | 51 | 72 | 3 | He | 47.172 | ug/l | 232349.69 |
| Cr | 52 | 72 | 1 | No Gas | 51.797 | ug/l | 1384025.03 |
| Cr | 52 | 72 | 3 | He | 52.001 | ug/l | 254081.71 |
| Mn | 55 | 72 | 1 | No Gas | 51.508 | ug/l | 1790162.03 |
| Mn | 55 | 72 | 3 | He | 52.114 | ug/l | 164684.80 |
| Fe | 56 | 72 | 2 | H2 | 1287.553 | ug/l | 22979614.22 |
| Fe | 56 | 72 | 3 | He | 1305.629 | ug/l | 5698007.60 |
| Co | 59 | 72 | 1 | No Gas | 53.055 | ug/l | 1525876.63 |
| Ni | 60 | 72 | 1 | No Gas | 51.784 | ug/l | 333911.20 |
| Ni | 60 | 72 | 3 | He | 53.289 | ug/l | 106145.04 |
| Cu | 63 | 72 | 1 | No Gas | 54.227 | ug/l | 844126.38 |
| Cu | 63 | 72 | 3 | He | 53.031 | ug/l | 285651.86 |
| Cu | 65 | 72 | 1 | No Gas | 53.147 | ug/l | 405812.13 |
| Zn | 66 | 72 | 1 | No Gas | 52.394 | ug/l | 286024.80 |
| Zn | 66 | 72 | 3 | He | 54.447 | ug/l | 59812.48 |
| As | 75 | 72 | 1 | No Gas | 51.055 | ug/l | 345772.30 |
| As | 75 | 72 | 3 | He | 51.559 | ug/l | 52295.16 |
| Se | 78 | 72 | 2 | H2 | 51.568 | ug/l | 32361.12 |
| Br | 79 | 72 | 1 | No Gas | 11.661 | ug/l | 256258.85 |
| Br | 79 | 72 | 2 | H2 | 11.160 | ug/l | 136817.54 |
| Se | 82 | 72 | 1 | No Gas | 53.520 | ug/l | 20283.79 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 36573.73 |
| Sr | 88 | 72 | 1 | No Gas | 51.658 | ug/l | 2528284.30 |
| Sr | 88 | 72 | 3 | He | 50.063 | ug/l | 269055.85 |
| Mo | 95 | 115 | 1 | No Gas | 52.713 | ug/l | 512148.16 |
| Mo | 95 | 115 | 3 | He | 52.057 | ug/l | 181681.59 |
| Mo | 98 | 115 | 1 | No Gas | 54.061 | ug/l | 852863.67 |
| Ag | 107 | 115 | 1 | No Gas | 20.321 | ug/l | 523066.60 |
| Ag | 109 | 115 | 1 | No Gas | 20.567 | ug/l | 508567.90 |
| Cd | 111 | 115 | 1 | No Gas | 48.933 | ug/l | 292996.83 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Cd | 111 | 115 | 3 | He | 51.858 | ug/l | 94643.20 |
| Cd | 114 | 115 | 1 | No Gas | 49.847 | ug/l | 659122.89 |
| Cd | 114 | 115 | 3 | He | 50.557 | ug/l | 233004.88 |
| Sn | 118 | 115 | 1 | No Gas | 52.613 | ug/l | 891078.10 |
| Sn | 118 | 115 | 3 | He | 51.250 | ug/l | 229189.63 |
| Sb | 121 | 115 | 1 | No Gas | 52.148 | ug/l | 1411360.42 |
| Sb | 121 | 115 | 3 | He | 50.752 | ug/l | 357243.69 |
| Sb | 123 | 115 | 1 | No Gas | 51.930 | ug/l | 1069923.87 |
| Sb | 123 | 115 | 3 | He | 51.042 | ug/l | 285232.20 |
| Ba | 135 | 115 | 1 | No Gas | 48.725 | ug/l | 264789.87 |
| Ba | 137 | 115 | 1 | No Gas | 49.944 | ug/l | 458947.64 |
| La | 139 | 115 | 3 | He | 48.627 | ug/l | 1252683.52 |
| Ce | 140 | 115 | 3 | He | 48.939 | ug/l | 1393981.47 |
| Hg | 201 | 209 | 1 | No Gas | 1.000 | ug/l | 3691.11 |
| Hg | 202 | 209 | 1 | No Gas | 0.987 | ug/l | 8397.63 |
| Hg | 202 | 209 | 3 | He | 0.967 | ug/l | 4056.15 |
| Tl | 203 | 209 | 3 | He | 48.656 | ug/l | 514150.29 |
| Tl | 205 | 209 | 1 | No Gas | 49.874 | ug/l | 2588943.49 |
| Tl | 205 | 209 | 3 | He | 49.983 | ug/l | 1245307.76 |
| [Pb] | 206 | 209 | 1 | No Gas | 50.721 | ug/l | 907047.65 |
| [Pb] | 207 | 209 | 1 | No Gas | 49.994 | ug/l | 788206.40 |
| Pb | 208 | 209 | 1 | No Gas | 50.101 | ug/l | 3626249.68 |
| Th | 232 | 209 | 3 | He | 49.218 | ug/l | 1740890.04 |
| U | 238 | 209 | 1 | No Gas | 49.543 | ug/l | 3560628.84 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5103280.08 | 116.4 |
| Sc | 45 | 2 | H2 | 2493542.90 | 105.9 |
| Sc | 45 | 3 | He | 284494.93 | 120.3 |
| Ge | 72 | 1 | No Gas | 1418127.23 | 110.6 |
| Ge | 72 | 2 | H2 | 950306.55 | 106.7 |
| Ge | 72 | 3 | He | 208690.27 | 113.4 |
| In | 115 | 1 | No Gas | 11519085.63 | 100.3 |
| In | 115 | 3 | He | 2391851.36 | 102.6 |
| Tb | 159 | 1 | No Gas | 15889861.38 | 101.3 |
| Tb | 159 | 3 | He | 6379853.32 | 98.3 |
| Ho | 165 | 1 | No Gas | 15126814.51 | 100.6 |
| Ho | 165 | 3 | He | 6176404.26 | 100.1 |
| Lu | 175 | 1 | No Gas | 15499778.40 | 99.8 |
| Lu | 175 | 3 | He | 5196213.69 | 103.0 |
| Bi | 209 | 1 | No Gas | 10767026.71 | 95.2 |
| Bi | 209 | 3 | He | 4736328.56 | 95.5 |

ICPMS207-B Analytical Data

Sample Name CCB
File Name 127_CCB.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 05:10:00
Sample Type CCB
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|----------|
| Li | 7 | 45 | 1 | No Gas | -0.583 | ug/l | 11720.56 |
| Be | 9 | 45 | 1 | No Gas | 0.031 | ug/l | 160.30 |
| B | 11 | 45 | 1 | No Gas | 1.369 | ug/l | 6933.71 |
| Na | 23 | 45 | 3 | He | -43.172 | ug/l | 52481.10 |
| Mg | 24 | 45 | 3 | He | -0.713 | ug/l | 1310.79 |
| Al | 27 | 45 | 1 | No Gas | 0.129 | ug/l | 9912.21 |
| Si | 28 | 45 | 2 | H2 | -29.187 | ug/l | 25007.66 |
| K | 39 | 72 | 3 | He | 19.243 | ug/l | 71426.26 |
| Ca | 40 | 72 | 2 | H2 | 1.687 | ug/l | 99525.33 |
| Ti | 47 | 72 | 1 | No Gas | 0.044 | ug/l | 273.61 |
| V | 51 | 72 | 1 | No Gas | 2.156 | ug/l | 65100.72 |
| V | 51 | 72 | 3 | He | -2.932 | ug/l | 7368.56 |
| Cr | 52 | 72 | 1 | No Gas | -0.989 | ug/l | 62649.48 |
| Cr | 52 | 72 | 3 | He | -0.039 | ug/l | 743.36 |
| Mn | 55 | 72 | 1 | No Gas | -0.048 | ug/l | 10170.06 |
| Mn | 55 | 72 | 3 | He | -0.009 | ug/l | 113.65 |
| Fe | 56 | 72 | 2 | H2 | 0.390 | ug/l | 17087.12 |
| Fe | 56 | 72 | 3 | He | 0.366 | ug/l | 6931.97 |
| Co | 59 | 72 | 1 | No Gas | 0.001 | ug/l | 485.71 |
| Ni | 60 | 72 | 1 | No Gas | 0.024 | ug/l | 672.02 |
| Ni | 60 | 72 | 3 | He | -0.001 | ug/l | 120.00 |
| Cu | 63 | 72 | 1 | No Gas | 0.066 | ug/l | 3055.55 |
| Cu | 63 | 72 | 3 | He | 0.044 | ug/l | 946.17 |
| Cu | 65 | 72 | 1 | No Gas | 0.070 | ug/l | 1495.35 |
| Zn | 66 | 72 | 1 | No Gas | 0.001 | ug/l | 977.25 |
| Zn | 66 | 72 | 3 | He | -0.071 | ug/l | 186.67 |
| As | 75 | 72 | 1 | No Gas | -0.668 | ug/l | 8908.45 |
| As | 75 | 72 | 3 | He | -0.052 | ug/l | 203.73 |
| Se | 78 | 72 | 2 | H2 | 0.009 | ug/l | 36.33 |
| Br | 79 | 72 | 1 | No Gas | 0.268 | ug/l | 70016.69 |
| Br | 79 | 72 | 2 | H2 | 0.210 | ug/l | 33722.28 |
| Se | 82 | 72 | 1 | No Gas | 0.667 | ug/l | 822.89 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 20623.85 |
| Sr | 88 | 72 | 1 | No Gas | 0.000 | ug/l | 672.02 |
| Sr | 88 | 72 | 3 | He | 0.006 | ug/l | 235.56 |
| Mo | 95 | 115 | 1 | No Gas | -0.008 | ug/l | 554.46 |
| Mo | 95 | 115 | 3 | He | 0.045 | ug/l | 187.78 |
| Mo | 98 | 115 | 1 | No Gas | 0.050 | ug/l | 906.36 |
| Ag | 107 | 115 | 1 | No Gas | 0.004 | ug/l | 1768.16 |
| Ag | 109 | 115 | 1 | No Gas | 0.000 | ug/l | 1671.44 |
| Cd | 111 | 115 | 1 | No Gas | 0.000 | ug/l | -1.27 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.000 | ug/l | 12.33 |
| Cd | 114 | 115 | 1 | No Gas | 0.001 | ug/l | -105.93 |
| Cd | 114 | 115 | 3 | He | -0.003 | ug/l | 22.19 |
| Sn | 118 | 115 | 1 | No Gas | 0.037 | ug/l | 3679.86 |
| Sn | 118 | 115 | 3 | He | 0.031 | ug/l | 947.82 |
| Sb | 121 | 115 | 1 | No Gas | 0.108 | ug/l | 4401.81 |
| Sb | 121 | 115 | 3 | He | 0.081 | ug/l | 907.46 |
| Sb | 123 | 115 | 1 | No Gas | 0.114 | ug/l | 3457.45 |
| Sb | 123 | 115 | 3 | He | 0.079 | ug/l | 729.76 |
| Ba | 135 | 115 | 1 | No Gas | -0.004 | ug/l | 63.21 |
| Ba | 137 | 115 | 1 | No Gas | 0.004 | ug/l | 116.43 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 21.11 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 27.78 |
| Hg | 201 | 209 | 1 | No Gas | 0.005 | ug/l | 43.99 |
| Hg | 202 | 209 | 1 | No Gas | 0.005 | ug/l | 152.97 |
| Hg | 202 | 209 | 3 | He | 0.005 | ug/l | 54.99 |
| Tl | 203 | 209 | 3 | He | 0.100 | ug/l | 1959.60 |
| Tl | 205 | 209 | 1 | No Gas | 0.073 | ug/l | 7403.29 |
| Tl | 205 | 209 | 3 | He | 0.098 | ug/l | 4671.37 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.009 | ug/l | 805.59 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.011 | ug/l | 741.14 |
| Pb | 208 | 209 | 1 | No Gas | 0.008 | ug/l | 3277.96 |
| Th | 232 | 209 | 3 | He | 0.015 | ug/l | 972.43 |
| U | 238 | 209 | 1 | No Gas | 0.002 | ug/l | 287.61 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5065844.90 | 115.6 |
| Sc | 45 | 2 | H2 | 2489745.69 | 105.7 |
| Sc | 45 | 3 | He | 271978.86 | 115.0 |
| Ge | 72 | 1 | No Gas | 1388478.18 | 108.3 |
| Ge | 72 | 2 | H2 | 920054.34 | 103.3 |
| Ge | 72 | 3 | He | 202314.75 | 110.0 |
| In | 115 | 1 | No Gas | 11527240.67 | 100.3 |
| In | 115 | 3 | He | 2387977.44 | 102.5 |
| Tb | 159 | 1 | No Gas | 15948189.92 | 101.7 |
| Tb | 159 | 3 | He | 6541294.29 | 100.8 |
| Ho | 165 | 1 | No Gas | 14952533.46 | 99.5 |
| Ho | 165 | 3 | He | 6286706.02 | 101.9 |
| Lu | 175 | 1 | No Gas | 15314949.93 | 98.7 |
| Lu | 175 | 3 | He | 5155727.94 | 102.2 |
| Bi | 209 | 1 | No Gas | 11131406.84 | 98.4 |
| Bi | 209 | 3 | He | 4882761.70 | 98.4 |

ICPMS207-B Analytical Data

Sample Name Rinse
File Name 128BLKV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 11:11:16
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-200.8-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | -1.084 | ug/l | 8803.42 |
| Be | 9 | 45 | 1 | No Gas | -0.011 | ug/l | 48.32 |
| B | 11 | 45 | 1 | No Gas | 0.269 | ug/l | 5126.94 |
| Na | 23 | 45 | 3 | He | -64.317 | ug/l | 35854.83 |
| Mg | 24 | 45 | 3 | He | -1.364 | ug/l | 1011.37 |
| Al | 27 | 45 | 1 | No Gas | 0.165 | ug/l | 10673.85 |
| Si | 28 | 45 | 2 | H2 | -27.958 | ug/l | 27857.35 |
| K | 39 | 72 | 3 | He | 13.962 | ug/l | 65628.61 |
| Ca | 40 | 72 | 2 | H2 | 4.136 | ug/l | 114375.82 |
| Ti | 47 | 72 | 1 | No Gas | -0.021 | ug/l | 146.82 |
| V | 51 | 72 | 1 | No Gas | 0.979 | ug/l | 32682.39 |
| V | 51 | 72 | 3 | He | -3.024 | ug/l | 6608.19 |
| Cr | 52 | 72 | 1 | No Gas | -1.142 | ug/l | 61419.51 |
| Cr | 52 | 72 | 3 | He | -0.022 | ug/l | 777.80 |
| Mn | 55 | 72 | 1 | No Gas | 0.066 | ug/l | 14628.26 |
| Mn | 55 | 72 | 3 | He | 0.125 | ug/l | 498.58 |
| Fe | 56 | 72 | 2 | H2 | 0.086 | ug/l | 11554.52 |
| Fe | 56 | 72 | 3 | He | -0.035 | ug/l | 4965.86 |
| Co | 59 | 72 | 1 | No Gas | -0.004 | ug/l | 359.29 |
| Ni | 60 | 72 | 1 | No Gas | -0.014 | ug/l | 445.79 |
| Ni | 60 | 72 | 3 | He | -0.016 | ug/l | 86.67 |
| Cu | 63 | 72 | 1 | No Gas | -0.004 | ug/l | 2078.99 |
| Cu | 63 | 72 | 3 | He | -0.006 | ug/l | 650.89 |
| Cu | 65 | 72 | 1 | No Gas | -0.002 | ug/l | 995.10 |
| Zn | 66 | 72 | 1 | No Gas | -0.030 | ug/l | 847.61 |
| Zn | 66 | 72 | 3 | He | -0.072 | ug/l | 175.56 |
| As | 75 | 72 | 1 | No Gas | -0.018 | ug/l | 13629.26 |
| As | 75 | 72 | 3 | He | -0.049 | ug/l | 195.33 |
| Se | 78 | 72 | 2 | H2 | -0.002 | ug/l | 29.00 |
| Br | 79 | 72 | 1 | No Gas | 10.034 | ug/l | 234847.51 |
| Br | 79 | 72 | 2 | H2 | 10.990 | ug/l | 127840.97 |
| Se | 82 | 72 | 1 | No Gas | 0.642 | ug/l | 846.89 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 18874.92 |
| Sr | 88 | 72 | 1 | No Gas | 0.002 | ug/l | 811.75 |
| Sr | 88 | 72 | 3 | He | 0.017 | ug/l | 277.78 |
| Mo | 95 | 115 | 1 | No Gas | -0.059 | ug/l | 58.89 |
| Mo | 95 | 115 | 3 | He | -0.004 | ug/l | 17.78 |
| Mo | 98 | 115 | 1 | No Gas | -0.001 | ug/l | 92.09 |
| Ag | 107 | 115 | 1 | No Gas | -0.002 | ug/l | 1640.09 |
| Ag | 109 | 115 | 1 | No Gas | -0.004 | ug/l | 1590.07 |
| Cd | 111 | 115 | 1 | No Gas | -0.009 | ug/l | -54.85 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Cd | 111 | 115 | 3 | He | -0.004 | ug/l | 5.56 |
| Cd | 114 | 115 | 1 | No Gas | -0.007 | ug/l | -212.85 |
| Cd | 114 | 115 | 3 | He | -0.005 | ug/l | 12.65 |
| Sn | 118 | 115 | 1 | No Gas | -0.005 | ug/l | 3017.69 |
| Sn | 118 | 115 | 3 | He | -0.018 | ug/l | 716.69 |
| Sb | 121 | 115 | 1 | No Gas | -0.035 | ug/l | 530.73 |
| Sb | 121 | 115 | 3 | He | -0.028 | ug/l | 135.01 |
| Sb | 123 | 115 | 1 | No Gas | -0.035 | ug/l | 393.71 |
| Sb | 123 | 115 | 3 | He | -0.035 | ug/l | 92.01 |
| Ba | 135 | 115 | 1 | No Gas | -0.002 | ug/l | 76.51 |
| Ba | 137 | 115 | 1 | No Gas | 0.000 | ug/l | 89.82 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 16.66 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 32.22 |
| Hg | 201 | 209 | 1 | No Gas | -0.003 | ug/l | 17.00 |
| Hg | 202 | 209 | 1 | No Gas | -0.005 | ug/l | 72.99 |
| Hg | 202 | 209 | 3 | He | -0.001 | ug/l | 26.99 |
| Tl | 203 | 209 | 3 | He | -0.018 | ug/l | 690.97 |
| Tl | 205 | 209 | 1 | No Gas | -0.001 | ug/l | 3658.30 |
| Tl | 205 | 209 | 3 | He | -0.022 | ug/l | 1610.75 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.002 | ug/l | 732.25 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.001 | ug/l | 611.13 |
| Pb | 208 | 209 | 1 | No Gas | 0.000 | ug/l | 2814.58 |
| Th | 232 | 209 | 3 | He | -0.005 | ug/l | 267.44 |
| U | 238 | 209 | 1 | No Gas | 0.000 | ug/l | 91.98 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 5152119.70 | 117.6 |
| Sc | 45 | 2 | H2 | 2554548.87 | 108.5 |
| Sc | 45 | 3 | He | 259587.88 | 109.8 |
| Ge | 72 | 1 | No Gas | 1448049.34 | 113.0 |
| Ge | 72 | 2 | H2 | 898221.65 | 100.8 |
| Ge | 72 | 3 | He | 191704.02 | 104.2 |
| In | 115 | 1 | No Gas | 11705235.31 | 101.9 |
| In | 115 | 3 | He | 2335753.74 | 100.2 |
| Tb | 159 | 1 | No Gas | 16187620.28 | 103.2 |
| Tb | 159 | 3 | He | 6375167.55 | 98.2 |
| Ho | 165 | 1 | No Gas | 15530235.63 | 103.3 |
| Ho | 165 | 3 | He | 6157427.52 | 99.8 |
| Lu | 175 | 1 | No Gas | 16133860.69 | 103.9 |
| Lu | 175 | 3 | He | 4933362.04 | 97.8 |
| Bi | 209 | 1 | No Gas | 11845979.10 | 104.7 |
| Bi | 209 | 3 | He | 4972275.80 | 100.2 |

ICPMS207-B Analytical Data

Sample Name CCV
File Name 129_CCV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 11:17:29
Sample Type CCV
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 654.393 | ug/l | 3872923.46 |
| Be | 9 | 45 | 1 | No Gas | 52.982 | ug/l | 138471.19 |
| B | 11 | 45 | 1 | No Gas | 53.402 | ug/l | 93125.05 |
| Na | 23 | 45 | 3 | He | 13065.267 | ug/l | 9109885.56 |
| Mg | 24 | 45 | 3 | He | 13462.468 | ug/l | 5088721.70 |
| Al | 27 | 45 | 1 | No Gas | 61.873 | ug/l | 992685.98 |
| Si | 28 | 45 | 2 | H2 | 207.590 | ug/l | 425060.52 |
| K | 39 | 72 | 3 | He | 12460.405 | ug/l | 5113347.15 |
| Ca | 40 | 72 | 2 | H2 | 12196.235 | ug/l | 88623991.70 |
| Ti | 47 | 72 | 1 | No Gas | 54.942 | ug/l | 108690.55 |
| V | 51 | 72 | 1 | No Gas | 47.992 | ug/l | 1308017.74 |
| V | 51 | 72 | 3 | He | 46.680 | ug/l | 218624.47 |
| Cr | 52 | 72 | 1 | No Gas | 50.261 | ug/l | 1288668.06 |
| Cr | 52 | 72 | 3 | He | 52.862 | ug/l | 245363.69 |
| Mn | 55 | 72 | 1 | No Gas | 51.688 | ug/l | 1721278.55 |
| Mn | 55 | 72 | 3 | He | 51.324 | ug/l | 154075.48 |
| Fe | 56 | 72 | 2 | H2 | 1270.226 | ug/l | 22138101.90 |
| Fe | 56 | 72 | 3 | He | 1323.030 | ug/l | 5484778.02 |
| Co | 59 | 72 | 1 | No Gas | 52.209 | ug/l | 1439100.82 |
| Ni | 60 | 72 | 1 | No Gas | 51.658 | ug/l | 319096.61 |
| Ni | 60 | 72 | 3 | He | 54.161 | ug/l | 102495.22 |
| Cu | 63 | 72 | 1 | No Gas | 52.749 | ug/l | 786463.55 |
| Cu | 63 | 72 | 3 | He | 53.742 | ug/l | 275016.98 |
| Cu | 65 | 72 | 1 | No Gas | 52.533 | ug/l | 384326.23 |
| Zn | 66 | 72 | 1 | No Gas | 50.611 | ug/l | 264771.27 |
| Zn | 66 | 72 | 3 | He | 54.493 | ug/l | 56869.59 |
| As | 75 | 72 | 1 | No Gas | 51.526 | ug/l | 334187.99 |
| As | 75 | 72 | 3 | He | 51.235 | ug/l | 49370.52 |
| Se | 78 | 72 | 2 | H2 | 50.421 | ug/l | 30905.73 |
| Br | 79 | 72 | 1 | No Gas | 10.882 | ug/l | 233449.12 |
| Br | 79 | 72 | 2 | H2 | 10.146 | ug/l | 124404.93 |
| Se | 82 | 72 | 1 | No Gas | 52.609 | ug/l | 19113.16 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 34136.05 |
| Sr | 88 | 72 | 1 | No Gas | 51.871 | ug/l | 2431102.47 |
| Sr | 88 | 72 | 3 | He | 49.524 | ug/l | 252873.57 |
| Mo | 95 | 115 | 1 | No Gas | 53.292 | ug/l | 492931.36 |
| Mo | 95 | 115 | 3 | He | 53.609 | ug/l | 176024.69 |
| Mo | 98 | 115 | 1 | No Gas | 53.783 | ug/l | 807827.77 |
| Ag | 107 | 115 | 1 | No Gas | 20.532 | ug/l | 503201.79 |
| Ag | 109 | 115 | 1 | No Gas | 20.655 | ug/l | 486266.66 |
| Cd | 111 | 115 | 1 | No Gas | 49.830 | ug/l | 284087.29 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Cd | 111 | 115 | 3 | He | 52.797 | ug/l | 90660.73 |
| Cd | 114 | 115 | 1 | No Gas | 50.680 | ug/l | 638014.21 |
| Cd | 114 | 115 | 3 | He | 51.994 | ug/l | 225460.09 |
| Sn | 118 | 115 | 1 | No Gas | 52.586 | ug/l | 847792.79 |
| Sn | 118 | 115 | 3 | He | 51.862 | ug/l | 218202.20 |
| Sb | 121 | 115 | 1 | No Gas | 53.526 | ug/l | 1379138.05 |
| Sb | 121 | 115 | 3 | He | 51.874 | ug/l | 343549.40 |
| Sb | 123 | 115 | 1 | No Gas | 53.140 | ug/l | 1042415.36 |
| Sb | 123 | 115 | 3 | He | 51.747 | ug/l | 272074.34 |
| Ba | 135 | 115 | 1 | No Gas | 49.030 | ug/l | 253711.88 |
| Ba | 137 | 115 | 1 | No Gas | 50.751 | ug/l | 443970.89 |
| La | 139 | 115 | 3 | He | 50.847 | ug/l | 1232415.09 |
| Ce | 140 | 115 | 3 | He | 50.394 | ug/l | 1350584.48 |
| Hg | 201 | 209 | 1 | No Gas | 0.972 | ug/l | 3728.11 |
| Hg | 202 | 209 | 1 | No Gas | 0.972 | ug/l | 8581.37 |
| Hg | 202 | 209 | 3 | He | 0.966 | ug/l | 4062.81 |
| Tl | 203 | 209 | 3 | He | 49.665 | ug/l | 525868.46 |
| Tl | 205 | 209 | 1 | No Gas | 49.940 | ug/l | 2692181.56 |
| Tl | 205 | 209 | 3 | He | 50.207 | ug/l | 1253266.96 |
| [Pb] | 206 | 209 | 1 | No Gas | 49.972 | ug/l | 928137.69 |
| [Pb] | 207 | 209 | 1 | No Gas | 49.475 | ug/l | 809858.19 |
| Pb | 208 | 209 | 1 | No Gas | 49.843 | ug/l | 3746140.39 |
| Th | 232 | 209 | 3 | He | 50.920 | ug/l | 1804741.56 |
| U | 238 | 209 | 1 | No Gas | 50.540 | ug/l | 3771125.52 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4893589.82 | 111.7 |
| Sc | 45 | 2 | H2 | 2395500.23 | 101.7 |
| Sc | 45 | 3 | He | 266498.92 | 112.7 |
| Ge | 72 | 1 | No Gas | 1358248.51 | 106.0 |
| Ge | 72 | 2 | H2 | 928037.42 | 104.2 |
| Ge | 72 | 3 | He | 198262.61 | 107.8 |
| In | 115 | 1 | No Gas | 10964134.47 | 95.4 |
| In | 115 | 3 | He | 2250428.36 | 96.6 |
| Tb | 159 | 1 | No Gas | 15812008.12 | 100.8 |
| Tb | 159 | 3 | He | 6348635.23 | 97.8 |
| Ho | 165 | 1 | No Gas | 15019756.62 | 99.9 |
| Ho | 165 | 3 | He | 6080481.78 | 98.6 |
| Lu | 175 | 1 | No Gas | 15641938.26 | 100.8 |
| Lu | 175 | 3 | He | 4964179.89 | 98.4 |
| Bi | 209 | 1 | No Gas | 11182647.53 | 98.8 |
| Bi | 209 | 3 | He | 4745405.03 | 95.7 |

ICPMS207-B Analytical Data

Sample Name CCB
File Name 130_CCB.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 11:23:44
Sample Type CCB
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|-----------|
| Li | 7 | 45 | 1 | No Gas | -0.872 | ug/l | 9331.95 |
| Be | 9 | 45 | 1 | No Gas | 0.006 | ug/l | 88.65 |
| B | 11 | 45 | 1 | No Gas | 0.207 | ug/l | 4624.58 |
| Na | 23 | 45 | 3 | He | -70.412 | ug/l | 31391.63 |
| Mg | 24 | 45 | 3 | He | -0.673 | ug/l | 1250.91 |
| Al | 27 | 45 | 1 | No Gas | 0.168 | ug/l | 9894.43 |
| Si | 28 | 45 | 2 | H2 | -34.384 | ug/l | 15098.34 |
| K | 39 | 72 | 3 | He | 18.805 | ug/l | 68014.80 |
| Ca | 40 | 72 | 2 | H2 | 2.246 | ug/l | 101767.74 |
| Ti | 47 | 72 | 1 | No Gas | 0.003 | ug/l | 185.19 |
| V | 51 | 72 | 1 | No Gas | -0.757 | ug/l | -15493.99 |
| V | 51 | 72 | 3 | He | -2.765 | ug/l | 7732.08 |
| Cr | 52 | 72 | 1 | No Gas | -1.036 | ug/l | 59683.16 |
| Cr | 52 | 72 | 3 | He | -0.014 | ug/l | 820.03 |
| Mn | 55 | 72 | 1 | No Gas | -0.051 | ug/l | 9790.54 |
| Mn | 55 | 72 | 3 | He | -0.010 | ug/l | 106.98 |
| Fe | 56 | 72 | 2 | H2 | -0.019 | ug/l | 9843.22 |
| Fe | 56 | 72 | 3 | He | -0.081 | ug/l | 4818.99 |
| Co | 59 | 72 | 1 | No Gas | -0.002 | ug/l | 392.56 |
| Ni | 60 | 72 | 1 | No Gas | -0.002 | ug/l | 489.04 |
| Ni | 60 | 72 | 3 | He | -0.010 | ug/l | 97.78 |
| Cu | 63 | 72 | 1 | No Gas | 0.014 | ug/l | 2200.39 |
| Cu | 63 | 72 | 3 | He | -0.020 | ug/l | 585.23 |
| Cu | 65 | 72 | 1 | No Gas | -0.019 | ug/l | 804.35 |
| Zn | 66 | 72 | 1 | No Gas | -0.007 | ug/l | 907.44 |
| Zn | 66 | 72 | 3 | He | -0.088 | ug/l | 161.11 |
| As | 75 | 72 | 1 | No Gas | -0.179 | ug/l | 11705.10 |
| As | 75 | 72 | 3 | He | -0.042 | ug/l | 203.67 |
| Se | 78 | 72 | 2 | H2 | 0.007 | ug/l | 35.00 |
| Br | 79 | 72 | 1 | No Gas | -0.646 | ug/l | 53870.03 |
| Br | 79 | 72 | 2 | H2 | -0.615 | ug/l | 25838.50 |
| Se | 82 | 72 | 1 | No Gas | 0.271 | ug/l | 660.21 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 19571.13 |
| Sr | 88 | 72 | 1 | No Gas | -0.001 | ug/l | 618.79 |
| Sr | 88 | 72 | 3 | He | 0.008 | ug/l | 235.56 |
| Mo | 95 | 115 | 1 | No Gas | -0.036 | ug/l | 288.89 |
| Mo | 95 | 115 | 3 | He | 0.016 | ug/l | 84.45 |
| Mo | 98 | 115 | 1 | No Gas | 0.022 | ug/l | 454.45 |
| Ag | 107 | 115 | 1 | No Gas | 0.002 | ug/l | 1710.12 |
| Ag | 109 | 115 | 1 | No Gas | 0.001 | ug/l | 1690.12 |
| Cd | 111 | 115 | 1 | No Gas | 0.007 | ug/l | 42.64 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Cd | 111 | 115 | 3 | He | -0.003 | ug/l | 8.22 |
| Cd | 114 | 115 | 1 | No Gas | 0.002 | ug/l | -98.38 |
| Cd | 114 | 115 | 3 | He | -0.003 | ug/l | 17.85 |
| Sn | 118 | 115 | 1 | No Gas | 0.022 | ug/l | 3420.32 |
| Sn | 118 | 115 | 3 | He | 0.026 | ug/l | 894.48 |
| Sb | 121 | 115 | 1 | No Gas | 0.096 | ug/l | 4056.67 |
| Sb | 121 | 115 | 3 | He | 0.063 | ug/l | 752.09 |
| Sb | 123 | 115 | 1 | No Gas | 0.098 | ug/l | 3122.00 |
| Sb | 123 | 115 | 3 | He | 0.059 | ug/l | 599.41 |
| Ba | 135 | 115 | 1 | No Gas | -0.004 | ug/l | 59.88 |
| Ba | 137 | 115 | 1 | No Gas | 0.008 | ug/l | 159.68 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 16.67 |
| Ce | 140 | 115 | 3 | He | 0.001 | ug/l | 46.67 |
| Hg | 201 | 209 | 1 | No Gas | 0.003 | ug/l | 37.66 |
| Hg | 202 | 209 | 1 | No Gas | 0.001 | ug/l | 124.64 |
| Hg | 202 | 209 | 3 | He | 0.001 | ug/l | 36.32 |
| Tl | 203 | 209 | 3 | He | 0.019 | ug/l | 1091.82 |
| Tl | 205 | 209 | 1 | No Gas | 0.026 | ug/l | 5050.99 |
| Tl | 205 | 209 | 3 | He | 0.022 | ug/l | 2734.05 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.004 | ug/l | 744.47 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.007 | ug/l | 691.13 |
| Pb | 208 | 209 | 1 | No Gas | 0.003 | ug/l | 2986.82 |
| Th | 232 | 209 | 3 | He | 0.013 | ug/l | 930.41 |
| U | 238 | 209 | 1 | No Gas | 0.002 | ug/l | 261.62 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4750650.49 | 108.4 |
| Sc | 45 | 2 | H2 | 2369884.88 | 100.6 |
| Sc | 45 | 3 | He | 256669.75 | 108.5 |
| Ge | 72 | 1 | No Gas | 1348136.99 | 105.2 |
| Ge | 72 | 2 | H2 | 904366.06 | 101.5 |
| Ge | 72 | 3 | He | 193094.56 | 105.0 |
| In | 115 | 1 | No Gas | 11476096.91 | 99.9 |
| In | 115 | 3 | He | 2307196.64 | 99.0 |
| Tb | 159 | 1 | No Gas | 15806228.27 | 100.8 |
| Tb | 159 | 3 | He | 6391246.13 | 98.5 |
| Ho | 165 | 1 | No Gas | 15047369.65 | 100.1 |
| Ho | 165 | 3 | He | 6170173.08 | 100.0 |
| Lu | 175 | 1 | No Gas | 15792861.99 | 101.7 |
| Lu | 175 | 3 | He | 5057342.01 | 100.3 |
| Bi | 209 | 1 | No Gas | 11477909.52 | 101.4 |
| Bi | 209 | 3 | He | 4907355.96 | 98.9 |

ICPMS207-B Analytical Data

Sample Name Rinse
File Name 131BLKV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 11:29:58
Sample Type BlkVrfy
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|----------|
| Li | 7 | 45 | 1 | No Gas | -1.217 | ug/l | 7412.12 |
| Be | 9 | 45 | 1 | No Gas | 0.003 | ug/l | 81.32 |
| B | 11 | 45 | 1 | No Gas | -0.228 | ug/l | 3955.45 |
| Na | 23 | 45 | 3 | He | -71.681 | ug/l | 30910.58 |
| Mg | 24 | 45 | 3 | He | -1.016 | ug/l | 1141.12 |
| Al | 27 | 45 | 1 | No Gas | 0.167 | ug/l | 9955.59 |
| Si | 28 | 45 | 2 | H2 | -34.642 | ug/l | 14633.69 |
| K | 39 | 72 | 3 | He | 16.435 | ug/l | 66827.16 |
| Ca | 40 | 72 | 2 | H2 | 2.070 | ug/l | 99639.02 |
| Ti | 47 | 72 | 1 | No Gas | -0.004 | ug/l | 173.51 |
| V | 51 | 72 | 1 | No Gas | 1.430 | ug/l | 44154.31 |
| V | 51 | 72 | 3 | He | -2.907 | ug/l | 7117.31 |
| Cr | 52 | 72 | 1 | No Gas | -1.156 | ug/l | 57955.85 |
| Cr | 52 | 72 | 3 | He | -0.010 | ug/l | 834.47 |
| Mn | 55 | 72 | 1 | No Gas | -0.070 | ug/l | 9344.46 |
| Mn | 55 | 72 | 3 | He | -0.007 | ug/l | 113.98 |
| Fe | 56 | 72 | 2 | H2 | -0.037 | ug/l | 9448.05 |
| Fe | 56 | 72 | 3 | He | -0.102 | ug/l | 4715.51 |
| Co | 59 | 72 | 1 | No Gas | -0.003 | ug/l | 379.26 |
| Ni | 60 | 72 | 1 | No Gas | -0.016 | ug/l | 415.85 |
| Ni | 60 | 72 | 3 | He | 0.003 | ug/l | 121.11 |
| Cu | 63 | 72 | 1 | No Gas | 0.009 | ug/l | 2171.04 |
| Cu | 63 | 72 | 3 | He | -0.030 | ug/l | 533.24 |
| Cu | 65 | 72 | 1 | No Gas | -0.026 | ug/l | 773.00 |
| Zn | 66 | 72 | 1 | No Gas | -0.019 | ug/l | 860.90 |
| Zn | 66 | 72 | 3 | He | -0.056 | ug/l | 192.23 |
| As | 75 | 72 | 1 | No Gas | -0.234 | ug/l | 11515.26 |
| As | 75 | 72 | 3 | He | -0.052 | ug/l | 193.27 |
| Se | 78 | 72 | 2 | H2 | -0.013 | ug/l | 22.56 |
| Br | 79 | 72 | 1 | No Gas | -0.734 | ug/l | 53529.44 |
| Br | 79 | 72 | 2 | H2 | -0.578 | ug/l | 25935.11 |
| Se | 82 | 72 | 1 | No Gas | 0.082 | ug/l | 605.00 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 19208.05 |
| Sr | 88 | 72 | 1 | No Gas | 0.000 | ug/l | 675.35 |
| Sr | 88 | 72 | 3 | He | 0.012 | ug/l | 254.45 |
| Mo | 95 | 115 | 1 | No Gas | -0.055 | ug/l | 100.00 |
| Mo | 95 | 115 | 3 | He | 0.002 | ug/l | 37.78 |
| Mo | 98 | 115 | 1 | No Gas | 0.002 | ug/l | 139.03 |
| Ag | 107 | 115 | 1 | No Gas | 0.005 | ug/l | 1760.15 |
| Ag | 109 | 115 | 1 | No Gas | 0.000 | ug/l | 1652.76 |
| Cd | 111 | 115 | 1 | No Gas | 0.005 | ug/l | 27.38 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Cd | 111 | 115 | 3 | He | -0.004 | ug/l | 5.89 |
| Cd | 114 | 115 | 1 | No Gas | 0.002 | ug/l | -97.09 |
| Cd | 114 | 115 | 3 | He | -0.004 | ug/l | 15.56 |
| Sn | 118 | 115 | 1 | No Gas | 0.001 | ug/l | 3017.69 |
| Sn | 118 | 115 | 3 | He | 0.002 | ug/l | 790.03 |
| Sb | 121 | 115 | 1 | No Gas | -0.009 | ug/l | 1205.51 |
| Sb | 121 | 115 | 3 | He | -0.005 | ug/l | 287.03 |
| Sb | 123 | 115 | 1 | No Gas | -0.008 | ug/l | 931.79 |
| Sb | 123 | 115 | 3 | He | -0.011 | ug/l | 219.69 |
| Ba | 135 | 115 | 1 | No Gas | -0.004 | ug/l | 63.21 |
| Ba | 137 | 115 | 1 | No Gas | 0.005 | ug/l | 123.09 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 6.67 |
| Ce | 140 | 115 | 3 | He | 0.001 | ug/l | 41.11 |
| Hg | 201 | 209 | 1 | No Gas | 0.001 | ug/l | 30.32 |
| Hg | 202 | 209 | 1 | No Gas | -0.003 | ug/l | 91.65 |
| Hg | 202 | 209 | 3 | He | 0.000 | ug/l | 33.32 |
| Tl | 203 | 209 | 3 | He | -0.020 | ug/l | 661.62 |
| Tl | 205 | 209 | 1 | No Gas | -0.014 | ug/l | 2815.87 |
| Tl | 205 | 209 | 3 | He | -0.022 | ug/l | 1584.07 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.002 | ug/l | 696.69 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.004 | ug/l | 634.46 |
| Pb | 208 | 209 | 1 | No Gas | 0.001 | ug/l | 2804.58 |
| Th | 232 | 209 | 3 | He | 0.000 | ug/l | 430.18 |
| U | 238 | 209 | 1 | No Gas | 0.000 | ug/l | 113.65 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4784438.44 | 109.2 |
| Sc | 45 | 2 | H2 | 2365745.68 | 100.5 |
| Sc | 45 | 3 | He | 259767.33 | 109.9 |
| Ge | 72 | 1 | No Gas | 1374650.47 | 107.2 |
| Ge | 72 | 2 | H2 | 896338.60 | 100.6 |
| Ge | 72 | 3 | He | 192379.90 | 104.6 |
| In | 115 | 1 | No Gas | 11326059.17 | 98.6 |
| In | 115 | 3 | He | 2304817.19 | 98.9 |
| Tb | 159 | 1 | No Gas | 15779947.62 | 100.6 |
| Tb | 159 | 3 | He | 6327256.10 | 97.5 |
| Ho | 165 | 1 | No Gas | 15078570.54 | 100.3 |
| Ho | 165 | 3 | He | 6031219.81 | 97.8 |
| Lu | 175 | 1 | No Gas | 15687172.25 | 101.0 |
| Lu | 175 | 3 | He | 4994537.28 | 99.0 |
| Bi | 209 | 1 | No Gas | 11451207.40 | 101.2 |
| Bi | 209 | 3 | He | 4906366.74 | 98.9 |

ICPMS207-B Analytical Data

Sample Name B22011134-001BDIL
File Name 132ARef.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 11:36:13
Sample Type AIRRef
Total Dilution 5.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | -4.378 | ug/l | 8996.28 |
| Be | 9 | 45 | 1 | No Gas | -0.009 | ug/l | 65.99 |
| B | 11 | 45 | 1 | No Gas | 68.726 | ug/l | 25561.27 |
| Na | 23 | 45 | 3 | He | 38393.862 | ug/l | 5020407.39 |
| Mg | 24 | 45 | 3 | He | 10004.168 | ug/l | 705862.64 |
| Al | 27 | 45 | 1 | No Gas | 41.452 | ug/l | 130845.80 |
| Si | 28 | 45 | 2 | H2 | 26617.540 | ug/l | 8812441.61 |
| K | 39 | 72 | 3 | He | 2281.355 | ug/l | 237574.75 |
| Ca | 40 | 72 | 2 | H2 | 10055.821 | ug/l | 14099351.25 |
| Ti | 47 | 72 | 1 | No Gas | 4.624 | ug/l | 1955.61 |
| V | 51 | 72 | 1 | No Gas | 8.273 | ug/l | 48601.27 |
| V | 51 | 72 | 3 | He | -10.398 | ug/l | 10442.66 |
| Cr | 52 | 72 | 1 | No Gas | -2.115 | ug/l | 72953.39 |
| Cr | 52 | 72 | 3 | He | 0.469 | ug/l | 1288.95 |
| Mn | 55 | 72 | 1 | No Gas | 495.878 | ug/l | 3208947.89 |
| Mn | 55 | 72 | 3 | He | 498.052 | ug/l | 287286.21 |
| Fe | 56 | 72 | 2 | H2 | 404.581 | ug/l | 1363363.59 |
| Fe | 56 | 72 | 3 | He | 408.188 | ug/l | 329961.92 |
| Co | 59 | 72 | 1 | No Gas | 0.513 | ug/l | 3204.00 |
| Ni | 60 | 72 | 1 | No Gas | 22.268 | ug/l | 27278.04 |
| Ni | 60 | 72 | 3 | He | 23.027 | ug/l | 8482.51 |
| Cu | 63 | 72 | 1 | No Gas | 92.524 | ug/l | 270355.88 |
| Cu | 63 | 72 | 3 | He | 93.949 | ug/l | 92843.69 |
| Cu | 65 | 72 | 1 | No Gas | 90.363 | ug/l | 129535.01 |
| Zn | 66 | 72 | 1 | No Gas | 102.318 | ug/l | 104949.20 |
| Zn | 66 | 72 | 3 | He | 108.765 | ug/l | 21967.75 |
| As | 75 | 72 | 1 | No Gas | -0.505 | ug/l | 11973.69 |
| As | 75 | 72 | 3 | He | 0.924 | ug/l | 410.20 |
| Se | 78 | 72 | 2 | H2 | 0.009 | ug/l | 31.33 |
| Br | 79 | 72 | 1 | No Gas | 171.785 | ug/l | 583575.29 |
| Br | 79 | 72 | 2 | H2 | 169.190 | ug/l | 326331.62 |
| Se | 82 | 72 | 1 | No Gas | 5.743 | ug/l | 950.10 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 23285.88 |
| Sr | 88 | 72 | 1 | No Gas | 73.022 | ug/l | 668169.20 |
| Sr | 88 | 72 | 3 | He | 71.678 | ug/l | 70501.32 |
| Mo | 95 | 115 | 1 | No Gas | 0.296 | ug/l | 1167.84 |
| Mo | 95 | 115 | 3 | He | 0.589 | ug/l | 424.46 |
| Mo | 98 | 115 | 1 | No Gas | 0.615 | ug/l | 1980.02 |
| Ag | 107 | 115 | 1 | No Gas | -0.272 | ug/l | 266.78 |
| Ag | 109 | 115 | 1 | No Gas | -0.282 | ug/l | 271.45 |
| Cd | 111 | 115 | 1 | No Gas | 0.135 | ug/l | 154.20 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.078 | ug/l | 39.89 |
| Cd | 114 | 115 | 1 | No Gas | 0.155 | ug/l | 281.20 |
| Cd | 114 | 115 | 3 | He | 0.076 | ug/l | 99.71 |
| Sn | 118 | 115 | 1 | No Gas | 0.843 | ug/l | 5689.88 |
| Sn | 118 | 115 | 3 | He | 1.001 | ug/l | 1632.33 |
| Sb | 121 | 115 | 1 | No Gas | 0.063 | ug/l | 1755.62 |
| Sb | 121 | 115 | 3 | He | 0.090 | ug/l | 443.39 |
| Sb | 123 | 115 | 1 | No Gas | 0.069 | ug/l | 1341.87 |
| Sb | 123 | 115 | 3 | He | 0.073 | ug/l | 355.37 |
| Ba | 135 | 115 | 1 | No Gas | 4.242 | ug/l | 4525.12 |
| Ba | 137 | 115 | 1 | No Gas | 4.381 | ug/l | 7840.03 |
| La | 139 | 115 | 3 | He | 0.020 | ug/l | 114.44 |
| Ce | 140 | 115 | 3 | He | 0.072 | ug/l | 421.12 |
| Hg | 201 | 209 | 1 | No Gas | 0.031 | ug/l | 51.32 |
| Hg | 202 | 209 | 1 | No Gas | 0.322 | ug/l | 681.88 |
| Hg | 202 | 209 | 3 | He | 0.257 | ug/l | 252.62 |
| Tl | 203 | 209 | 3 | He | -0.021 | ug/l | 827.03 |
| Tl | 205 | 209 | 1 | No Gas | -0.002 | ug/l | 3527.16 |
| Tl | 205 | 209 | 3 | He | -0.057 | ug/l | 1846.87 |
| [Pb] | 206 | 209 | 1 | No Gas | 3.593 | ug/l | 14153.14 |
| [Pb] | 207 | 209 | 1 | No Gas | 3.539 | ug/l | 12283.52 |
| Pb | 208 | 209 | 1 | No Gas | 3.539 | ug/l | 56490.70 |
| Th | 232 | 209 | 3 | He | 0.019 | ug/l | 578.91 |
| U | 238 | 209 | 1 | No Gas | 0.020 | ug/l | 423.92 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4588756.20 | 104.7 |
| Sc | 45 | 2 | H2 | 2322352.91 | 98.6 |
| Sc | 45 | 3 | He | 248309.52 | 105.0 |
| Ge | 72 | 1 | No Gas | 1323984.60 | 103.3 |
| Ge | 72 | 2 | H2 | 890953.02 | 100.0 |
| Ge | 72 | 3 | He | 190630.36 | 103.6 |
| In | 115 | 1 | No Gas | 11108239.67 | 96.7 |
| In | 115 | 3 | He | 2290241.66 | 98.3 |
| Tb | 159 | 1 | No Gas | 15752230.74 | 100.4 |
| Tb | 159 | 3 | He | 6470312.58 | 99.7 |
| Ho | 165 | 1 | No Gas | 15233193.18 | 101.3 |
| Ho | 165 | 3 | He | 6219122.13 | 100.8 |
| Lu | 175 | 1 | No Gas | 15262691.01 | 98.3 |
| Lu | 175 | 3 | He | 4985057.49 | 98.8 |
| Bi | 209 | 1 | No Gas | 11317060.50 | 100.0 |
| Bi | 209 | 3 | He | 4867702.50 | 98.1 |

ICPMS207-B Analytical Data

Sample Name B22011124-001BDIL
File Name 133ARef.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 11:42:26
Sample Type AIRRef
Total Dilution 5.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | -5.486 | ug/l | 7647.00 |
| Be | 9 | 45 | 1 | No Gas | -0.023 | ug/l | 57.99 |
| B | 11 | 45 | 1 | No Gas | 58.314 | ug/l | 21955.54 |
| Na | 23 | 45 | 3 | He | 37632.098 | ug/l | 4848179.55 |
| Mg | 24 | 45 | 3 | He | 10906.479 | ug/l | 757863.40 |
| Al | 27 | 45 | 1 | No Gas | 9.814 | ug/l | 35768.44 |
| Si | 28 | 45 | 2 | H2 | 25069.844 | ug/l | 8383854.18 |
| K | 39 | 72 | 3 | He | 1926.520 | ug/l | 206280.55 |
| Ca | 40 | 72 | 2 | H2 | 9078.758 | ug/l | 12837770.65 |
| Ti | 47 | 72 | 1 | No Gas | 2.144 | ug/l | 999.38 |
| V | 51 | 72 | 1 | No Gas | 19.570 | ug/l | 107907.76 |
| V | 51 | 72 | 3 | He | 9.923 | ug/l | 26607.51 |
| Cr | 52 | 72 | 1 | No Gas | -0.265 | ug/l | 81434.83 |
| Cr | 52 | 72 | 3 | He | 2.293 | ug/l | 2862.52 |
| Mn | 55 | 72 | 1 | No Gas | 1.583 | ug/l | 21419.91 |
| Mn | 55 | 72 | 3 | He | 1.431 | ug/l | 943.18 |
| Fe | 56 | 72 | 2 | H2 | 18.539 | ug/l | 72603.19 |
| Fe | 56 | 72 | 3 | He | 18.679 | ug/l | 19601.18 |
| Co | 59 | 72 | 1 | No Gas | 0.110 | ug/l | 1034.66 |
| Ni | 60 | 72 | 1 | No Gas | 2.193 | ug/l | 3127.47 |
| Ni | 60 | 72 | 3 | He | 2.277 | ug/l | 925.59 |
| Cu | 63 | 72 | 1 | No Gas | 1.898 | ug/l | 7445.55 |
| Cu | 63 | 72 | 3 | He | 1.478 | ug/l | 2090.07 |
| Cu | 65 | 72 | 1 | No Gas | 1.477 | ug/l | 3024.20 |
| Zn | 66 | 72 | 1 | No Gas | 8.383 | ug/l | 9426.15 |
| Zn | 66 | 72 | 3 | He | 9.290 | ug/l | 2064.60 |
| As | 75 | 72 | 1 | No Gas | 4.503 | ug/l | 18016.82 |
| As | 75 | 72 | 3 | He | 0.055 | ug/l | 245.40 |
| Se | 78 | 72 | 2 | H2 | 0.153 | ug/l | 48.67 |
| Br | 79 | 72 | 1 | No Gas | 174.842 | ug/l | 591297.08 |
| Br | 79 | 72 | 2 | H2 | 172.325 | ug/l | 334461.07 |
| Se | 82 | 72 | 1 | No Gas | 6.296 | ug/l | 986.11 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 23642.46 |
| Sr | 88 | 72 | 1 | No Gas | 67.740 | ug/l | 618493.58 |
| Sr | 88 | 72 | 3 | He | 65.831 | ug/l | 63630.46 |
| Mo | 95 | 115 | 1 | No Gas | 1.551 | ug/l | 3588.25 |
| Mo | 95 | 115 | 3 | He | 1.881 | ug/l | 1301.18 |
| Mo | 98 | 115 | 1 | No Gas | 1.852 | ug/l | 5862.08 |
| Ag | 107 | 115 | 1 | No Gas | -0.312 | ug/l | 72.03 |
| Ag | 109 | 115 | 1 | No Gas | -0.324 | ug/l | 74.70 |
| Cd | 111 | 115 | 1 | No Gas | 0.035 | ug/l | 39.72 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Cd | 111 | 115 | 3 | He | -0.019 | ug/l | 6.11 |
| Cd | 114 | 115 | 1 | No Gas | 0.068 | ug/l | 58.90 |
| Cd | 114 | 115 | 3 | He | -0.019 | ug/l | 15.47 |
| Sn | 118 | 115 | 1 | No Gas | 0.444 | ug/l | 4472.89 |
| Sn | 118 | 115 | 3 | He | 0.539 | ug/l | 1250.06 |
| Sb | 121 | 115 | 1 | No Gas | -0.138 | ug/l | 723.42 |
| Sb | 121 | 115 | 3 | He | -0.100 | ug/l | 189.35 |
| Sb | 123 | 115 | 1 | No Gas | -0.132 | ug/l | 557.40 |
| Sb | 123 | 115 | 3 | He | -0.106 | ug/l | 165.02 |
| Ba | 135 | 115 | 1 | No Gas | 3.261 | ug/l | 3570.06 |
| Ba | 137 | 115 | 1 | No Gas | 3.570 | ug/l | 6538.60 |
| La | 139 | 115 | 3 | He | 0.001 | ug/l | 22.22 |
| Ce | 140 | 115 | 3 | He | 0.007 | ug/l | 65.56 |
| Hg | 201 | 209 | 1 | No Gas | 0.002 | ug/l | 27.99 |
| Hg | 202 | 209 | 1 | No Gas | 0.012 | ug/l | 129.97 |
| Hg | 202 | 209 | 3 | He | 0.022 | ug/l | 51.32 |
| Tl | 203 | 209 | 3 | He | -0.070 | ug/l | 716.97 |
| Tl | 205 | 209 | 1 | No Gas | -0.027 | ug/l | 3155.96 |
| Tl | 205 | 209 | 3 | He | -0.083 | ug/l | 1710.13 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.116 | ug/l | 1060.05 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.117 | ug/l | 927.82 |
| Pb | 208 | 209 | 1 | No Gas | 0.106 | ug/l | 4180.29 |
| Th | 232 | 209 | 3 | He | -0.006 | ug/l | 400.17 |
| U | 238 | 209 | 1 | No Gas | 0.008 | ug/l | 236.62 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4513534.09 | 103.0 |
| Sc | 45 | 2 | H2 | 2344558.77 | 99.6 |
| Sc | 45 | 3 | He | 244538.92 | 103.4 |
| Ge | 72 | 1 | No Gas | 1321405.18 | 103.1 |
| Ge | 72 | 2 | H2 | 898252.36 | 100.8 |
| Ge | 72 | 3 | He | 187292.66 | 101.8 |
| In | 115 | 1 | No Gas | 11337330.28 | 98.7 |
| In | 115 | 3 | He | 2314039.71 | 99.3 |
| Tb | 159 | 1 | No Gas | 15722893.90 | 100.2 |
| Tb | 159 | 3 | He | 6399913.07 | 98.6 |
| Ho | 165 | 1 | No Gas | 15129541.40 | 100.7 |
| Ho | 165 | 3 | He | 6233465.22 | 101.0 |
| Lu | 175 | 1 | No Gas | 15666528.48 | 100.9 |
| Lu | 175 | 3 | He | 5032170.85 | 99.8 |
| Bi | 209 | 1 | No Gas | 10978996.47 | 97.0 |
| Bi | 209 | 3 | He | 4856273.03 | 97.9 |

ICPMS207-B Analytical Data

Sample Name CCV
File Name 134_CCV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 11:48:40
Sample Type CCV
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 662.042 | ug/l | 3789985.57 |
| Be | 9 | 45 | 1 | No Gas | 54.621 | ug/l | 138064.01 |
| B | 11 | 45 | 1 | No Gas | 55.074 | ug/l | 92767.13 |
| Na | 23 | 45 | 3 | He | 13159.318 | ug/l | 8859907.78 |
| Mg | 24 | 45 | 3 | He | 13286.100 | ug/l | 4847724.93 |
| Al | 27 | 45 | 1 | No Gas | 64.666 | ug/l | 1003329.84 |
| Si | 28 | 45 | 2 | H2 | 209.145 | ug/l | 414874.94 |
| K | 39 | 72 | 3 | He | 12311.741 | ug/l | 4948468.64 |
| Ca | 40 | 72 | 2 | H2 | 11894.293 | ug/l | 84732793.98 |
| Ti | 47 | 72 | 1 | No Gas | 56.084 | ug/l | 107551.38 |
| V | 51 | 72 | 1 | No Gas | 48.690 | ug/l | 1286507.69 |
| V | 51 | 72 | 3 | He | 47.884 | ug/l | 219108.22 |
| Cr | 52 | 72 | 1 | No Gas | 51.951 | ug/l | 1288110.11 |
| Cr | 52 | 72 | 3 | He | 51.844 | ug/l | 235603.12 |
| Mn | 55 | 72 | 1 | No Gas | 52.442 | ug/l | 1692158.58 |
| Mn | 55 | 72 | 3 | He | 51.960 | ug/l | 152733.60 |
| Fe | 56 | 72 | 2 | H2 | 1268.614 | ug/l | 21680683.67 |
| Fe | 56 | 72 | 3 | He | 1313.715 | ug/l | 5333515.93 |
| Co | 59 | 72 | 1 | No Gas | 54.350 | ug/l | 1451760.08 |
| Ni | 60 | 72 | 1 | No Gas | 54.218 | ug/l | 324599.86 |
| Ni | 60 | 72 | 3 | He | 54.069 | ug/l | 100168.83 |
| Cu | 63 | 72 | 1 | No Gas | 55.154 | ug/l | 797101.45 |
| Cu | 63 | 72 | 3 | He | 54.196 | ug/l | 271605.63 |
| Cu | 65 | 72 | 1 | No Gas | 54.409 | ug/l | 385772.66 |
| Zn | 66 | 72 | 1 | No Gas | 53.733 | ug/l | 272395.37 |
| Zn | 66 | 72 | 3 | He | 55.120 | ug/l | 56299.65 |
| As | 75 | 72 | 1 | No Gas | 53.358 | ug/l | 335031.85 |
| As | 75 | 72 | 3 | He | 51.529 | ug/l | 48613.86 |
| Se | 78 | 72 | 2 | H2 | 51.411 | ug/l | 30900.17 |
| Br | 79 | 72 | 1 | No Gas | 12.795 | ug/l | 255116.69 |
| Br | 79 | 72 | 2 | H2 | 11.755 | ug/l | 136333.29 |
| Se | 82 | 72 | 1 | No Gas | 54.643 | ug/l | 19221.90 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 34912.81 |
| Sr | 88 | 72 | 1 | No Gas | 53.221 | ug/l | 2418085.45 |
| Sr | 88 | 72 | 3 | He | 49.186 | ug/l | 245917.23 |
| Mo | 95 | 115 | 1 | No Gas | 54.046 | ug/l | 497862.96 |
| Mo | 95 | 115 | 3 | He | 53.515 | ug/l | 176090.43 |
| Mo | 98 | 115 | 1 | No Gas | 54.051 | ug/l | 808513.85 |
| Ag | 107 | 115 | 1 | No Gas | 20.951 | ug/l | 511274.42 |
| Ag | 109 | 115 | 1 | No Gas | 20.708 | ug/l | 485502.30 |
| Cd | 111 | 115 | 1 | No Gas | 50.375 | ug/l | 285987.45 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Cd | 111 | 115 | 3 | He | 52.633 | ug/l | 90553.97 |
| Cd | 114 | 115 | 1 | No Gas | 51.504 | ug/l | 645655.89 |
| Cd | 114 | 115 | 3 | He | 51.556 | ug/l | 223990.28 |
| Sn | 118 | 115 | 1 | No Gas | 52.396 | ug/l | 841091.87 |
| Sn | 118 | 115 | 3 | He | 51.944 | ug/l | 218978.13 |
| Sb | 121 | 115 | 1 | No Gas | 53.281 | ug/l | 1367063.28 |
| Sb | 121 | 115 | 3 | He | 51.945 | ug/l | 344692.77 |
| Sb | 123 | 115 | 1 | No Gas | 53.875 | ug/l | 1052286.73 |
| Sb | 123 | 115 | 3 | He | 51.507 | ug/l | 271334.78 |
| Ba | 135 | 115 | 1 | No Gas | 49.766 | ug/l | 256384.66 |
| Ba | 137 | 115 | 1 | No Gas | 51.932 | ug/l | 452447.56 |
| La | 139 | 115 | 3 | He | 50.896 | ug/l | 1235977.71 |
| Ce | 140 | 115 | 3 | He | 50.224 | ug/l | 1348402.72 |
| Hg | 201 | 209 | 1 | No Gas | 0.988 | ug/l | 3726.78 |
| Hg | 202 | 209 | 1 | No Gas | 0.996 | ug/l | 8651.40 |
| Hg | 202 | 209 | 3 | He | 0.977 | ug/l | 4097.15 |
| Tl | 203 | 209 | 3 | He | 49.613 | ug/l | 524212.55 |
| Tl | 205 | 209 | 1 | No Gas | 49.720 | ug/l | 2636137.31 |
| Tl | 205 | 209 | 3 | He | 50.282 | ug/l | 1252573.11 |
| [Pb] | 206 | 209 | 1 | No Gas | 51.667 | ug/l | 943808.83 |
| [Pb] | 207 | 209 | 1 | No Gas | 50.401 | ug/l | 811691.59 |
| Pb | 208 | 209 | 1 | No Gas | 50.904 | ug/l | 3763257.69 |
| Th | 232 | 209 | 3 | He | 50.128 | ug/l | 1772944.49 |
| U | 238 | 209 | 1 | No Gas | 51.028 | ug/l | 3745812.50 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4735847.18 | 108.1 |
| Sc | 45 | 2 | H2 | 2323611.93 | 98.7 |
| Sc | 45 | 3 | He | 257263.98 | 108.8 |
| Ge | 72 | 1 | No Gas | 1316110.94 | 102.7 |
| Ge | 72 | 2 | H2 | 909888.35 | 102.1 |
| Ge | 72 | 3 | He | 194208.33 | 105.6 |
| In | 115 | 1 | No Gas | 10918139.93 | 95.0 |
| In | 115 | 3 | He | 2255184.57 | 96.8 |
| Tb | 159 | 1 | No Gas | 15653642.67 | 99.8 |
| Tb | 159 | 3 | He | 6277729.07 | 96.7 |
| Ho | 165 | 1 | No Gas | 14955046.71 | 99.5 |
| Ho | 165 | 3 | He | 6025936.97 | 97.7 |
| Lu | 175 | 1 | No Gas | 15563645.28 | 100.3 |
| Lu | 175 | 3 | He | 4940986.85 | 98.0 |
| Bi | 209 | 1 | No Gas | 10998122.87 | 97.2 |
| Bi | 209 | 3 | He | 4733997.15 | 95.4 |

ICPMS207-B Analytical Data

Sample Name CCB
File Name 135_CCB.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 11:54:55
Sample Type CCB
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|----------|
| Li | 7 | 45 | 1 | No Gas | -0.957 | ug/l | 8739.35 |
| Be | 9 | 45 | 1 | No Gas | 0.010 | ug/l | 97.65 |
| B | 11 | 45 | 1 | No Gas | -0.047 | ug/l | 4166.92 |
| Na | 23 | 45 | 3 | He | -67.474 | ug/l | 33654.20 |
| Mg | 24 | 45 | 3 | He | -0.599 | ug/l | 1290.83 |
| Al | 27 | 45 | 1 | No Gas | 0.164 | ug/l | 9710.97 |
| Si | 28 | 45 | 2 | H2 | -30.862 | ug/l | 20639.82 |
| K | 39 | 72 | 3 | He | 15.991 | ug/l | 66814.96 |
| Ca | 40 | 72 | 2 | H2 | 1.829 | ug/l | 97349.00 |
| Ti | 47 | 72 | 1 | No Gas | 0.004 | ug/l | 186.85 |
| V | 51 | 72 | 1 | No Gas | 0.548 | ug/l | 18825.75 |
| V | 51 | 72 | 3 | He | -2.361 | ug/l | 9398.61 |
| Cr | 52 | 72 | 1 | No Gas | -0.705 | ug/l | 67555.22 |
| Cr | 52 | 72 | 3 | He | -0.016 | ug/l | 808.92 |
| Mn | 55 | 72 | 1 | No Gas | -0.055 | ug/l | 9670.69 |
| Mn | 55 | 72 | 3 | He | -0.008 | ug/l | 113.31 |
| Fe | 56 | 72 | 2 | H2 | -0.027 | ug/l | 9567.76 |
| Fe | 56 | 72 | 3 | He | -0.084 | ug/l | 4797.29 |
| Co | 59 | 72 | 1 | No Gas | 0.001 | ug/l | 472.41 |
| Ni | 60 | 72 | 1 | No Gas | -0.007 | ug/l | 465.75 |
| Ni | 60 | 72 | 3 | He | -0.007 | ug/l | 103.33 |
| Cu | 63 | 72 | 1 | No Gas | -0.012 | ug/l | 1808.84 |
| Cu | 63 | 72 | 3 | He | -0.025 | ug/l | 559.90 |
| Cu | 65 | 72 | 1 | No Gas | -0.031 | ug/l | 720.97 |
| Zn | 66 | 72 | 1 | No Gas | -0.018 | ug/l | 847.39 |
| Zn | 66 | 72 | 3 | He | -0.044 | ug/l | 204.45 |
| As | 75 | 72 | 1 | No Gas | -0.046 | ug/l | 12588.07 |
| As | 75 | 72 | 3 | He | -0.036 | ug/l | 208.60 |
| Se | 78 | 72 | 2 | H2 | -0.004 | ug/l | 27.89 |
| Br | 79 | 72 | 1 | No Gas | -0.094 | ug/l | 62460.37 |
| Br | 79 | 72 | 2 | H2 | -0.151 | ug/l | 29504.80 |
| Se | 82 | 72 | 1 | No Gas | 0.179 | ug/l | 632.47 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 19960.89 |
| Sr | 88 | 72 | 1 | No Gas | 0.001 | ug/l | 695.31 |
| Sr | 88 | 72 | 3 | He | 0.011 | ug/l | 246.67 |
| Mo | 95 | 115 | 1 | No Gas | -0.036 | ug/l | 280.00 |
| Mo | 95 | 115 | 3 | He | 0.008 | ug/l | 58.89 |
| Mo | 98 | 115 | 1 | No Gas | 0.025 | ug/l | 499.53 |
| Ag | 107 | 115 | 1 | No Gas | 0.004 | ug/l | 1744.81 |
| Ag | 109 | 115 | 1 | No Gas | 0.001 | ug/l | 1662.77 |
| Cd | 111 | 115 | 1 | No Gas | 0.001 | ug/l | 7.16 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Cd | 111 | 115 | 3 | He | -0.003 | ug/l | 8.22 |
| Cd | 114 | 115 | 1 | No Gas | -0.002 | ug/l | -145.01 |
| Cd | 114 | 115 | 3 | He | -0.003 | ug/l | 20.56 |
| Sn | 118 | 115 | 1 | No Gas | 0.031 | ug/l | 3513.47 |
| Sn | 118 | 115 | 3 | He | 0.041 | ug/l | 958.93 |
| Sb | 121 | 115 | 1 | No Gas | 0.101 | ug/l | 4140.70 |
| Sb | 121 | 115 | 3 | He | 0.065 | ug/l | 768.10 |
| Sb | 123 | 115 | 1 | No Gas | 0.103 | ug/l | 3156.68 |
| Sb | 123 | 115 | 3 | He | 0.060 | ug/l | 603.07 |
| Ba | 135 | 115 | 1 | No Gas | 0.000 | ug/l | 83.17 |
| Ba | 137 | 115 | 1 | No Gas | 0.000 | ug/l | 83.17 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 15.56 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 24.45 |
| Hg | 201 | 209 | 1 | No Gas | 0.003 | ug/l | 39.66 |
| Hg | 202 | 209 | 1 | No Gas | 0.003 | ug/l | 139.97 |
| Hg | 202 | 209 | 3 | He | 0.003 | ug/l | 46.99 |
| Tl | 203 | 209 | 3 | He | 0.038 | ug/l | 1315.27 |
| Tl | 205 | 209 | 1 | No Gas | 0.035 | ug/l | 5527.87 |
| Tl | 205 | 209 | 3 | He | 0.039 | ug/l | 3210.35 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.004 | ug/l | 748.92 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.005 | ug/l | 658.91 |
| Pb | 208 | 209 | 1 | No Gas | 0.003 | ug/l | 2953.48 |
| Th | 232 | 209 | 3 | He | 0.015 | ug/l | 989.77 |
| U | 238 | 209 | 1 | No Gas | 0.002 | ug/l | 289.28 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4691676.25 | 107.1 |
| Sc | 45 | 2 | H2 | 2329306.04 | 98.9 |
| Sc | 45 | 3 | He | 259066.91 | 109.6 |
| Ge | 72 | 1 | No Gas | 1349568.96 | 105.3 |
| Ge | 72 | 2 | H2 | 890853.41 | 100.0 |
| Ge | 72 | 3 | He | 192839.70 | 104.8 |
| In | 115 | 1 | No Gas | 11294947.30 | 98.3 |
| In | 115 | 3 | He | 2307857.32 | 99.0 |
| Tb | 159 | 1 | No Gas | 15735455.32 | 100.3 |
| Tb | 159 | 3 | He | 6339629.51 | 97.7 |
| Ho | 165 | 1 | No Gas | 15034103.37 | 100.0 |
| Ho | 165 | 3 | He | 6142383.57 | 99.6 |
| Lu | 175 | 1 | No Gas | 15601483.95 | 100.5 |
| Lu | 175 | 3 | He | 5057391.22 | 100.3 |
| Bi | 209 | 1 | No Gas | 11476076.26 | 101.4 |
| Bi | 209 | 3 | He | 4965076.16 | 100.1 |

ICPMS207-B Analytical Data

Sample Name B22011124-001B
File Name 136SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 12:01:10
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 0.025 | ug/l | 13311.16 |
| Be | 9 | 45 | 1 | No Gas | 0.001 | ug/l | 68.99 |
| B | 11 | 45 | 1 | No Gas | 67.012 | ug/l | 103363.76 |
| Na | 23 | 45 | 3 | He | 38719.235 | ug/l | 23604145.76 |
| Mg | 24 | 45 | 3 | He | 11556.263 | ug/l | 3841523.53 |
| Al | 27 | 45 | 1 | No Gas | 6.185 | ug/l | 94654.72 |
| Si | 28 | 45 | 2 | H2 | 26168.528 | ug/l | 40414693.28 |
| K | 39 | 72 | 3 | He | 1885.046 | ug/l | 740450.45 |
| Ca | 40 | 72 | 2 | H2 | 9355.969 | ug/l | 60846498.52 |
| Ti | 47 | 72 | 1 | No Gas | 2.392 | ug/l | 4528.64 |
| V | 51 | 72 | 1 | No Gas | 18.236 | ug/l | 461231.90 |
| V | 51 | 72 | 3 | He | 19.877 | ug/l | 93575.20 |
| Cr | 52 | 72 | 1 | No Gas | 3.952 | ug/l | 165886.53 |
| Cr | 52 | 72 | 3 | He | 2.371 | ug/l | 10632.81 |
| Mn | 55 | 72 | 1 | No Gas | 1.722 | ug/l | 63273.51 |
| Mn | 55 | 72 | 3 | He | 1.339 | ug/l | 3722.40 |
| Fe | 56 | 72 | 2 | H2 | 15.154 | ug/l | 245523.15 |
| Fe | 56 | 72 | 3 | He | 15.728 | ug/l | 63120.44 |
| Co | 59 | 72 | 1 | No Gas | 0.112 | ug/l | 3273.88 |
| Ni | 60 | 72 | 1 | No Gas | 1.987 | ug/l | 11788.14 |
| Ni | 60 | 72 | 3 | He | 2.082 | ug/l | 3634.92 |
| Cu | 63 | 72 | 1 | No Gas | 0.702 | ug/l | 11497.83 |
| Cu | 63 | 72 | 3 | He | 0.388 | ug/l | 2408.05 |
| Cu | 65 | 72 | 1 | No Gas | 0.455 | ug/l | 3944.79 |
| Zn | 66 | 72 | 1 | No Gas | 6.273 | ug/l | 31077.41 |
| Zn | 66 | 72 | 3 | He | 6.534 | ug/l | 6312.51 |
| As | 75 | 72 | 1 | No Gas | -0.069 | ug/l | 11530.27 |
| As | 75 | 72 | 3 | He | 0.248 | ug/l | 436.13 |
| Se | 78 | 72 | 2 | H2 | 0.219 | ug/l | 148.22 |
| Br | 79 | 72 | 1 | No Gas | 5.750 | ug/l | 141991.38 |
| Br | 79 | 72 | 2 | H2 | 5.043 | ug/l | 69759.30 |
| Se | 82 | 72 | 1 | No Gas | 0.944 | ug/l | 832.62 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 36183.60 |
| Sr | 88 | 72 | 1 | No Gas | 67.470 | ug/l | 2920991.63 |
| Sr | 88 | 72 | 3 | He | 65.460 | ug/l | 299495.24 |
| Mo | 95 | 115 | 1 | No Gas | 1.824 | ug/l | 16332.78 |
| Mo | 95 | 115 | 3 | He | 1.879 | ug/l | 5790.11 |
| Mo | 98 | 115 | 1 | No Gas | 1.887 | ug/l | 26613.00 |
| Ag | 107 | 115 | 1 | No Gas | -0.057 | ug/l | 179.41 |
| Ag | 109 | 115 | 1 | No Gas | -0.060 | ug/l | 162.07 |
| Cd | 111 | 115 | 1 | No Gas | 0.008 | ug/l | 38.66 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Cd | 111 | 115 | 3 | He | -0.002 | ug/l | 9.22 |
| Cd | 114 | 115 | 1 | No Gas | 0.013 | ug/l | 49.62 |
| Cd | 114 | 115 | 3 | He | -0.004 | ug/l | 15.41 |
| Sn | 118 | 115 | 1 | No Gas | 0.432 | ug/l | 9214.82 |
| Sn | 118 | 115 | 3 | He | 0.469 | ug/l | 2552.47 |
| Sb | 121 | 115 | 1 | No Gas | 0.027 | ug/l | 1960.34 |
| Sb | 121 | 115 | 3 | He | 0.029 | ug/l | 476.39 |
| Sb | 123 | 115 | 1 | No Gas | 0.033 | ug/l | 1592.92 |
| Sb | 123 | 115 | 3 | He | 0.029 | ug/l | 394.05 |
| Ba | 135 | 115 | 1 | No Gas | 3.321 | ug/l | 16150.66 |
| Ba | 137 | 115 | 1 | No Gas | 3.428 | ug/l | 28129.42 |
| La | 139 | 115 | 3 | He | 0.001 | ug/l | 41.11 |
| Ce | 140 | 115 | 3 | He | 0.003 | ug/l | 106.67 |
| Hg | 201 | 209 | 1 | No Gas | 0.011 | ug/l | 63.32 |
| Hg | 202 | 209 | 1 | No Gas | 0.023 | ug/l | 287.28 |
| Hg | 202 | 209 | 3 | He | 0.022 | ug/l | 119.31 |
| Tl | 203 | 209 | 3 | He | 0.071 | ug/l | 1530.71 |
| Tl | 205 | 209 | 1 | No Gas | 0.080 | ug/l | 7252.03 |
| Tl | 205 | 209 | 3 | He | 0.073 | ug/l | 3724.02 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.077 | ug/l | 1927.93 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.074 | ug/l | 1645.67 |
| Pb | 208 | 209 | 1 | No Gas | 0.073 | ug/l | 7554.23 |
| Th | 232 | 209 | 3 | He | 0.047 | ug/l | 1984.95 |
| U | 238 | 209 | 1 | No Gas | 0.011 | ug/l | 843.53 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4369608.19 | 99.7 |
| Sc | 45 | 2 | H2 | 2181032.05 | 92.6 |
| Sc | 45 | 3 | He | 234329.82 | 99.1 |
| Ge | 72 | 1 | No Gas | 1254244.47 | 97.8 |
| Ge | 72 | 2 | H2 | 830514.51 | 93.2 |
| Ge | 72 | 3 | He | 177783.96 | 96.6 |
| In | 115 | 1 | No Gas | 10259472.03 | 89.3 |
| In | 115 | 3 | He | 2102027.27 | 90.2 |
| Tb | 159 | 1 | No Gas | 14758093.72 | 94.1 |
| Tb | 159 | 3 | He | 5973751.51 | 92.0 |
| Ho | 165 | 1 | No Gas | 14090055.81 | 93.7 |
| Ho | 165 | 3 | He | 5871753.89 | 95.2 |
| Lu | 175 | 1 | No Gas | 14495732.41 | 93.4 |
| Lu | 175 | 3 | He | 4757473.81 | 94.3 |
| Bi | 209 | 1 | No Gas | 10353867.82 | 91.5 |
| Bi | 209 | 3 | He | 4528621.80 | 91.3 |

ICPMS207-B Analytical Data

Sample Name B22011134-001B
File Name 137SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 12:07:24
Sample Type Sample
Total Dilution 1.0000
Comment ICPMS-6020-W-T
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 0.545 | ug/l | 16000.84 |
| Be | 9 | 45 | 1 | No Gas | -0.002 | ug/l | 62.66 |
| B | 11 | 45 | 1 | No Gas | 68.675 | ug/l | 105525.44 |
| Na | 23 | 45 | 3 | He | 40340.037 | ug/l | 23954655.75 |
| Mg | 24 | 45 | 3 | He | 10390.872 | ug/l | 3365316.56 |
| Al | 27 | 45 | 1 | No Gas | 22.258 | ug/l | 322216.44 |
| Si | 28 | 45 | 2 | H2 | 28158.326 | ug/l | 43226019.41 |
| K | 39 | 72 | 3 | He | 2067.497 | ug/l | 787412.48 |
| Ca | 40 | 72 | 2 | H2 | 10049.723 | ug/l | 65199860.90 |
| Ti | 47 | 72 | 1 | No Gas | 4.019 | ug/l | 7486.13 |
| V | 51 | 72 | 1 | No Gas | 2.923 | ug/l | 77713.43 |
| V | 51 | 72 | 3 | He | 1.120 | ug/l | 21425.65 |
| Cr | 52 | 72 | 1 | No Gas | 1.561 | ug/l | 112829.07 |
| Cr | 52 | 72 | 3 | He | 0.191 | ug/l | 1568.99 |
| Mn | 55 | 72 | 1 | No Gas | 491.334 | ug/l | 14993709.11 |
| Mn | 55 | 72 | 3 | He | 516.173 | ug/l | 1354430.00 |
| Fe | 56 | 72 | 2 | H2 | 405.004 | ug/l | 6308969.11 |
| Fe | 56 | 72 | 3 | He | 420.382 | ug/l | 1527925.27 |
| Co | 59 | 72 | 1 | No Gas | 0.543 | ug/l | 14225.43 |
| Ni | 60 | 72 | 1 | No Gas | 1.037 | ug/l | 6365.46 |
| Ni | 60 | 72 | 3 | He | 1.057 | ug/l | 1852.35 |
| Cu | 63 | 72 | 1 | No Gas | 1.193 | ug/l | 18210.69 |
| Cu | 63 | 72 | 3 | He | 0.827 | ug/l | 4310.44 |
| Cu | 65 | 72 | 1 | No Gas | 0.845 | ug/l | 6568.80 |
| Zn | 66 | 72 | 1 | No Gas | 1.278 | ug/l | 7016.71 |
| Zn | 66 | 72 | 3 | He | 1.422 | ug/l | 1516.76 |
| As | 75 | 72 | 1 | No Gas | 2.758 | ug/l | 27799.48 |
| As | 75 | 72 | 3 | He | 1.157 | ug/l | 1188.56 |
| Se | 78 | 72 | 2 | H2 | 0.035 | ug/l | 47.33 |
| Br | 79 | 72 | 1 | No Gas | 4.470 | ug/l | 123358.77 |
| Br | 79 | 72 | 2 | H2 | 4.200 | ug/l | 62761.31 |
| Se | 82 | 72 | 1 | No Gas | 0.339 | ug/l | 635.40 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 38458.44 |
| Sr | 88 | 72 | 1 | No Gas | 74.864 | ug/l | 3235841.58 |
| Sr | 88 | 72 | 3 | He | 73.790 | ug/l | 329516.54 |
| Mo | 95 | 115 | 1 | No Gas | 0.515 | ug/l | 5020.91 |
| Mo | 95 | 115 | 3 | He | 0.571 | ug/l | 1774.57 |
| Mo | 98 | 115 | 1 | No Gas | 0.583 | ug/l | 8305.80 |
| Ag | 107 | 115 | 1 | No Gas | -0.046 | ug/l | 429.51 |
| Ag | 109 | 115 | 1 | No Gas | -0.049 | ug/l | 414.84 |
| Cd | 111 | 115 | 1 | No Gas | 0.010 | ug/l | 51.16 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|----------|
| Cd | 111 | 115 | 3 | He | 0.000 | ug/l | 11.44 |
| Cd | 114 | 115 | 1 | No Gas | 0.013 | ug/l | 42.12 |
| Cd | 114 | 115 | 3 | He | -0.001 | ug/l | 25.27 |
| Sn | 118 | 115 | 1 | No Gas | 0.474 | ug/l | 9870.65 |
| Sn | 118 | 115 | 3 | He | 0.503 | ug/l | 2676.94 |
| Sb | 121 | 115 | 1 | No Gas | 0.129 | ug/l | 4423.48 |
| Sb | 121 | 115 | 3 | He | 0.128 | ug/l | 1085.15 |
| Sb | 123 | 115 | 1 | No Gas | 0.128 | ug/l | 3335.07 |
| Sb | 123 | 115 | 3 | He | 0.127 | ug/l | 873.12 |
| Ba | 135 | 115 | 1 | No Gas | 3.917 | ug/l | 19058.71 |
| Ba | 137 | 115 | 1 | No Gas | 4.228 | ug/l | 34734.42 |
| La | 139 | 115 | 3 | He | 0.015 | ug/l | 347.78 |
| Ce | 140 | 115 | 3 | He | 0.062 | ug/l | 1583.43 |
| Hg | 201 | 209 | 1 | No Gas | 0.030 | ug/l | 130.64 |
| Hg | 202 | 209 | 1 | No Gas | 0.352 | ug/l | 2956.74 |
| Hg | 202 | 209 | 3 | He | 0.255 | ug/l | 1047.17 |
| Tl | 203 | 209 | 3 | He | 0.035 | ug/l | 1165.85 |
| Tl | 205 | 209 | 1 | No Gas | 0.043 | ug/l | 5385.58 |
| Tl | 205 | 209 | 3 | He | 0.036 | ug/l | 2858.79 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.067 | ug/l | 1751.24 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.062 | ug/l | 1461.20 |
| Pb | 208 | 209 | 1 | No Gas | 0.064 | ug/l | 6938.54 |
| Th | 232 | 209 | 3 | He | 0.016 | ug/l | 955.75 |
| U | 238 | 209 | 1 | No Gas | 0.017 | ug/l | 1312.14 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4356259.88 | 99.4 |
| Sc | 45 | 2 | H2 | 2167784.54 | 92.1 |
| Sc | 45 | 3 | He | 228290.46 | 96.5 |
| Ge | 72 | 1 | No Gas | 1252281.43 | 97.7 |
| Ge | 72 | 2 | H2 | 828609.59 | 93.0 |
| Ge | 72 | 3 | He | 173434.04 | 94.3 |
| In | 115 | 1 | No Gas | 10274532.95 | 89.4 |
| In | 115 | 3 | He | 2097157.75 | 90.0 |
| Tb | 159 | 1 | No Gas | 14806387.12 | 94.4 |
| Tb | 159 | 3 | He | 5985493.35 | 92.2 |
| Ho | 165 | 1 | No Gas | 14249956.75 | 94.8 |
| Ho | 165 | 3 | He | 5792902.13 | 93.9 |
| Lu | 175 | 1 | No Gas | 14873633.84 | 95.8 |
| Lu | 175 | 3 | He | 4844839.25 | 96.1 |
| Bi | 209 | 1 | No Gas | 10383752.05 | 91.8 |
| Bi | 209 | 3 | He | 4532949.05 | 91.4 |

ICPMS207-B Analytical Data

Sample Name CCV
File Name 138_CCV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 12:13:39
Sample Type CCV
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|-----------|-------|-------------|
| Li | 7 | 45 | 1 | No Gas | 598.379 | ug/l | 3357751.52 |
| Be | 9 | 45 | 1 | No Gas | 49.918 | ug/l | 123681.24 |
| B | 11 | 45 | 1 | No Gas | 51.032 | ug/l | 84565.32 |
| Na | 23 | 45 | 3 | He | 12764.375 | ug/l | 8526414.67 |
| Mg | 24 | 45 | 3 | He | 12667.614 | ug/l | 4586003.52 |
| Al | 27 | 45 | 1 | No Gas | 61.352 | ug/l | 933059.68 |
| Si | 28 | 45 | 2 | H2 | 248.804 | ug/l | 487499.98 |
| K | 39 | 72 | 3 | He | 11953.657 | ug/l | 4854382.32 |
| Ca | 40 | 72 | 2 | H2 | 12058.416 | ug/l | 86723517.13 |
| Ti | 47 | 72 | 1 | No Gas | 54.813 | ug/l | 106708.62 |
| V | 51 | 72 | 1 | No Gas | 49.395 | ug/l | 1325092.63 |
| V | 51 | 72 | 3 | He | 48.118 | ug/l | 222274.06 |
| Cr | 52 | 72 | 1 | No Gas | 51.045 | ug/l | 1286527.37 |
| Cr | 52 | 72 | 3 | He | 51.716 | ug/l | 237503.90 |
| Mn | 55 | 72 | 1 | No Gas | 51.353 | ug/l | 1682622.61 |
| Mn | 55 | 72 | 3 | He | 51.062 | ug/l | 151635.09 |
| Fe | 56 | 72 | 2 | H2 | 1267.489 | ug/l | 21869310.00 |
| Fe | 56 | 72 | 3 | He | 1313.540 | ug/l | 5386591.72 |
| Co | 59 | 72 | 1 | No Gas | 51.931 | ug/l | 1408585.68 |
| Ni | 60 | 72 | 1 | No Gas | 52.551 | ug/l | 319450.78 |
| Ni | 60 | 72 | 3 | He | 53.773 | ug/l | 100660.68 |
| Cu | 63 | 72 | 1 | No Gas | 53.978 | ug/l | 792038.07 |
| Cu | 63 | 72 | 3 | He | 53.102 | ug/l | 268813.38 |
| Cu | 65 | 72 | 1 | No Gas | 52.986 | ug/l | 381446.68 |
| Zn | 66 | 72 | 1 | No Gas | 51.272 | ug/l | 263950.88 |
| Zn | 66 | 72 | 3 | He | 54.519 | ug/l | 56280.67 |
| As | 75 | 72 | 1 | No Gas | 52.596 | ug/l | 335546.37 |
| As | 75 | 72 | 3 | He | 51.282 | ug/l | 48883.43 |
| Se | 78 | 72 | 2 | H2 | 51.925 | ug/l | 31509.25 |
| Br | 79 | 72 | 1 | No Gas | 13.630 | ug/l | 271782.39 |
| Br | 79 | 72 | 2 | H2 | 12.888 | ug/l | 147836.70 |
| Se | 82 | 72 | 1 | No Gas | 53.727 | ug/l | 19198.05 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 34749.42 |
| Sr | 88 | 72 | 1 | No Gas | 53.138 | ug/l | 2451112.53 |
| Sr | 88 | 72 | 3 | He | 50.287 | ug/l | 253977.05 |
| Mo | 95 | 115 | 1 | No Gas | 53.205 | ug/l | 507817.28 |
| Mo | 95 | 115 | 3 | He | 52.406 | ug/l | 176446.54 |
| Mo | 98 | 115 | 1 | No Gas | 53.555 | ug/l | 830338.95 |
| Ag | 107 | 115 | 1 | No Gas | 20.570 | ug/l | 520192.32 |
| Ag | 109 | 115 | 1 | No Gas | 20.632 | ug/l | 501359.98 |
| Cd | 111 | 115 | 1 | No Gas | 49.600 | ug/l | 291826.40 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|------------|
| Cd | 111 | 115 | 3 | He | 52.548 | ug/l | 92527.29 |
| Cd | 114 | 115 | 1 | No Gas | 50.631 | ug/l | 657828.91 |
| Cd | 114 | 115 | 3 | He | 51.508 | ug/l | 229030.53 |
| Sn | 118 | 115 | 1 | No Gas | 52.632 | ug/l | 875871.15 |
| Sn | 118 | 115 | 3 | He | 52.591 | ug/l | 226894.70 |
| Sb | 121 | 115 | 1 | No Gas | 52.510 | ug/l | 1396391.82 |
| Sb | 121 | 115 | 3 | He | 51.538 | ug/l | 350001.33 |
| Sb | 123 | 115 | 1 | No Gas | 53.075 | ug/l | 1074460.42 |
| Sb | 123 | 115 | 3 | He | 51.572 | ug/l | 278055.36 |
| Ba | 135 | 115 | 1 | No Gas | 49.207 | ug/l | 262687.34 |
| Ba | 137 | 115 | 1 | No Gas | 51.056 | ug/l | 461018.39 |
| La | 139 | 115 | 3 | He | 49.905 | ug/l | 1240334.28 |
| Ce | 140 | 115 | 3 | He | 49.680 | ug/l | 1365369.08 |
| Hg | 201 | 209 | 1 | No Gas | 0.985 | ug/l | 3825.79 |
| Hg | 202 | 209 | 1 | No Gas | 0.983 | ug/l | 8796.14 |
| Hg | 202 | 209 | 3 | He | 0.985 | ug/l | 4202.16 |
| Tl | 203 | 209 | 3 | He | 49.447 | ug/l | 531562.92 |
| Tl | 205 | 209 | 1 | No Gas | 50.278 | ug/l | 2746236.80 |
| Tl | 205 | 209 | 3 | He | 50.661 | ug/l | 1283813.04 |
| [Pb] | 206 | 209 | 1 | No Gas | 50.210 | ug/l | 944442.87 |
| [Pb] | 207 | 209 | 1 | No Gas | 49.756 | ug/l | 825491.62 |
| Pb | 208 | 209 | 1 | No Gas | 50.310 | ug/l | 3830808.26 |
| Th | 232 | 209 | 3 | He | 50.768 | ug/l | 1826840.03 |
| U | 238 | 209 | 1 | No Gas | 50.593 | ug/l | 3825699.77 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4639234.62 | 105.9 |
| Sc | 45 | 2 | H2 | 2359487.39 | 100.2 |
| Sc | 45 | 3 | He | 255200.10 | 107.9 |
| Ge | 72 | 1 | No Gas | 1336119.66 | 104.2 |
| Ge | 72 | 2 | H2 | 918670.62 | 103.1 |
| Ge | 72 | 3 | He | 196141.62 | 106.6 |
| In | 115 | 1 | No Gas | 11323879.63 | 98.6 |
| In | 115 | 3 | He | 2307647.33 | 99.0 |
| Tb | 159 | 1 | No Gas | 16088850.89 | 102.6 |
| Tb | 159 | 3 | He | 6441221.93 | 99.2 |
| Ho | 165 | 1 | No Gas | 15331403.15 | 102.0 |
| Ho | 165 | 3 | He | 6214251.48 | 100.7 |
| Lu | 175 | 1 | No Gas | 15705526.33 | 101.2 |
| Lu | 175 | 3 | He | 5072343.62 | 100.6 |
| Bi | 209 | 1 | No Gas | 11334626.70 | 100.2 |
| Bi | 209 | 3 | He | 4815744.15 | 97.1 |

ICPMS207-B Analytical Data

Sample Name CCB
File Name 139_CCB.d
Data Path Name D:\Agilent\ICPMH\1\DATA\220121ADoD.b
Acq Time 2022-01-22 12:19:53
Sample Type CCB
Total Dilution 1.0000
Comment ICPMS-6020-W-D
Operator CAR/SRH/JPV/AEM
Method SW6020/ SW6020B

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|---------|-------|----------|
| Li | 7 | 45 | 1 | No Gas | -0.848 | ug/l | 9305.25 |
| Be | 9 | 45 | 1 | No Gas | -0.001 | ug/l | 68.32 |
| B | 11 | 45 | 1 | No Gas | -0.011 | ug/l | 4199.61 |
| Na | 23 | 45 | 3 | He | -55.673 | ug/l | 39891.60 |
| Mg | 24 | 45 | 3 | He | -0.242 | ug/l | 1364.03 |
| Al | 27 | 45 | 1 | No Gas | 0.117 | ug/l | 8953.83 |
| Si | 28 | 45 | 2 | H2 | -12.599 | ug/l | 51606.51 |
| K | 39 | 72 | 3 | He | 8.998 | ug/l | 63367.94 |
| Ca | 40 | 72 | 2 | H2 | 1.222 | ug/l | 95410.02 |
| Ti | 47 | 72 | 1 | No Gas | 0.026 | ug/l | 226.90 |
| V | 51 | 72 | 1 | No Gas | -0.417 | ug/l | -6620.36 |
| V | 51 | 72 | 3 | He | -1.756 | ug/l | 11774.79 |
| Cr | 52 | 72 | 1 | No Gas | -0.537 | ug/l | 70522.68 |
| Cr | 52 | 72 | 3 | He | -0.014 | ug/l | 811.14 |
| Mn | 55 | 72 | 1 | No Gas | -0.025 | ug/l | 10492.96 |
| Mn | 55 | 72 | 3 | He | 0.004 | ug/l | 144.64 |
| Fe | 56 | 72 | 2 | H2 | -0.032 | ug/l | 9709.68 |
| Fe | 56 | 72 | 3 | He | -0.030 | ug/l | 4962.52 |
| Co | 59 | 72 | 1 | No Gas | -0.002 | ug/l | 389.23 |
| Ni | 60 | 72 | 1 | No Gas | 0.004 | ug/l | 522.31 |
| Ni | 60 | 72 | 3 | He | 0.001 | ug/l | 117.78 |
| Cu | 63 | 72 | 1 | No Gas | -0.007 | ug/l | 1864.87 |
| Cu | 63 | 72 | 3 | He | -0.019 | ug/l | 583.89 |
| Cu | 65 | 72 | 1 | No Gas | -0.014 | ug/l | 833.69 |
| Zn | 66 | 72 | 1 | No Gas | -0.002 | ug/l | 916.82 |
| Zn | 66 | 72 | 3 | He | 0.034 | ug/l | 281.12 |
| As | 75 | 72 | 1 | No Gas | 0.230 | ug/l | 14028.19 |
| As | 75 | 72 | 3 | He | -0.028 | ug/l | 213.80 |
| Se | 78 | 72 | 2 | H2 | 0.011 | ug/l | 37.34 |
| Br | 79 | 72 | 1 | No Gas | -0.223 | ug/l | 59524.41 |
| Br | 79 | 72 | 2 | H2 | -0.197 | ug/l | 29815.03 |
| Se | 82 | 72 | 1 | No Gas | 0.092 | ug/l | 590.20 |
| Kr | 84 | 72 | 1 | No Gas | | ug/l | 19327.96 |
| Sr | 88 | 72 | 1 | No Gas | 0.000 | ug/l | 642.08 |
| Sr | 88 | 72 | 3 | He | 0.010 | ug/l | 242.22 |
| Mo | 95 | 115 | 1 | No Gas | -0.033 | ug/l | 317.78 |
| Mo | 95 | 115 | 3 | He | 0.016 | ug/l | 83.33 |
| Mo | 98 | 115 | 1 | No Gas | 0.025 | ug/l | 510.64 |
| Ag | 107 | 115 | 1 | No Gas | 0.004 | ug/l | 1778.16 |
| Ag | 109 | 115 | 1 | No Gas | 0.001 | ug/l | 1692.78 |
| Cd | 111 | 115 | 1 | No Gas | 0.010 | ug/l | 55.27 |

ICPMS207-B Analytical Data

| Name | Mass | ISTD | Tune Step | Tune Mode | Conc. | Units | CPS |
|------|------|------|-----------|-----------|--------|-------|---------|
| Cd | 111 | 115 | 3 | He | 0.000 | ug/l | 13.56 |
| Cd | 114 | 115 | 1 | No Gas | 0.005 | ug/l | -55.31 |
| Cd | 114 | 115 | 3 | He | -0.001 | ug/l | 29.42 |
| Sn | 118 | 115 | 1 | No Gas | 0.047 | ug/l | 3852.91 |
| Sn | 118 | 115 | 3 | He | 0.033 | ug/l | 926.70 |
| Sb | 121 | 115 | 1 | No Gas | 0.108 | ug/l | 4396.47 |
| Sb | 121 | 115 | 3 | He | 0.070 | ug/l | 805.44 |
| Sb | 123 | 115 | 1 | No Gas | 0.109 | ug/l | 3362.41 |
| Sb | 123 | 115 | 3 | He | 0.069 | ug/l | 650.75 |
| Ba | 135 | 115 | 1 | No Gas | 0.001 | ug/l | 89.82 |
| Ba | 137 | 115 | 1 | No Gas | 0.004 | ug/l | 116.43 |
| La | 139 | 115 | 3 | He | 0.000 | ug/l | 22.22 |
| Ce | 140 | 115 | 3 | He | 0.000 | ug/l | 37.78 |
| Hg | 201 | 209 | 1 | No Gas | 0.004 | ug/l | 44.99 |
| Hg | 202 | 209 | 1 | No Gas | 0.003 | ug/l | 144.64 |
| Hg | 202 | 209 | 3 | He | 0.004 | ug/l | 48.99 |
| Tl | 203 | 209 | 3 | He | 0.046 | ug/l | 1372.63 |
| Tl | 205 | 209 | 1 | No Gas | 0.039 | ug/l | 5800.21 |
| Tl | 205 | 209 | 3 | He | 0.050 | ug/l | 3422.49 |
| [Pb] | 206 | 209 | 1 | No Gas | 0.007 | ug/l | 804.48 |
| [Pb] | 207 | 209 | 1 | No Gas | 0.009 | ug/l | 735.58 |
| Pb | 208 | 209 | 1 | No Gas | 0.008 | ug/l | 3330.19 |
| Th | 232 | 209 | 3 | He | 0.015 | ug/l | 996.44 |
| U | 238 | 209 | 1 | No Gas | 0.002 | ug/l | 280.95 |

| Name | Mass | Tune Step | Tune Mode | CPS | ISTD Recovery % |
|------|------|-----------|-----------|-------------|-----------------|
| Sc | 45 | 1 | No Gas | 4664924.13 | 106.4 |
| Sc | 45 | 2 | H2 | 2370033.54 | 100.6 |
| Sc | 45 | 3 | He | 248539.95 | 105.1 |
| Ge | 72 | 1 | No Gas | 1328509.78 | 103.6 |
| Ge | 72 | 2 | H2 | 912736.18 | 102.4 |
| Ge | 72 | 3 | He | 190830.00 | 103.7 |
| In | 115 | 1 | No Gas | 11534791.86 | 100.4 |
| In | 115 | 3 | He | 2315340.87 | 99.3 |
| Tb | 159 | 1 | No Gas | 15831582.90 | 100.9 |
| Tb | 159 | 3 | He | 6284141.06 | 96.8 |
| Ho | 165 | 1 | No Gas | 15209764.13 | 101.2 |
| Ho | 165 | 3 | He | 6155119.69 | 99.8 |
| Lu | 175 | 1 | No Gas | 15712196.33 | 101.2 |
| Lu | 175 | 3 | He | 5157319.27 | 102.3 |
| Bi | 209 | 1 | No Gas | 11544521.60 | 102.0 |
| Bi | 209 | 3 | He | 4890444.56 | 98.6 |

Energy Laboratories Inc

Standard LOG

Standard ID: ME211124 EL-MSICV-2
Standard Name: EL-MSICV-2
Date Prepared: 11/24/2021
Date Expires: 11/24/2022
Department: ME
Vendor: Inorganic Ventures
Lot Number:
Balance ID:
Comments:

Type: Primary
BY: Amanda E. McDani
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Exp |
|-------------------------------------|----------|-----|-------|-------|
| Multi Analyte Custom Grade Solution | 14023 | 500 | mL | 11/24 |

Final Volume: mL

Stock Source

Base Units

Amount Added

Analvtes

CAS

Conc: **ug/mL**

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).


2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
 Catalog Number: EL-MSICV-2
 Lot Number: R2-MEB696849
 Matrix: 3% (v/v) HNO₃
 tr. HF
 Value / Analyte(s):
 1 000 µg/mL ea:
 Silicon,
 100 µg/mL ea:
 Tin, Titanium,
 Molybdenum, Antimony

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|--------------|-------------------|----------------|-------------------|
| Antimony, Sb | 100.0 ± 0.6 µg/mL | Molybdenum, Mo | 100.0 ± 0.5 µg/mL |
| Silicon, Si | 1 000 ± 7 µg/mL | Tin, Sn | 99.9 ± 0.4 µg/mL |
| Titanium, Ti | 99.9 ± 0.6 µg/mL | | |

Density: 1.019 g/mL (measured at 20 ± 4 °C)

Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---------|------------|-----------|--------------|
| Mo | ICP Assay | 3134 | 130418 |
| Sb | ICP Assay | 3102a | 140911 |
| Si | ICP Assay | 3150 | 130912 |
| Sn | ICP Assay | 3161a | 070330 |
| Sn | Calculated | | See Sec. 4.2 |
| Ti | ICP Assay | 3162a | 130925 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

ID #: 14023

Opened: _____

Multi Analyte Custom Grade Solution

Expires: 9/14/2024

Rec'd: 7/7/2021

 Eneray Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i})^2 / (\sum(1/(u_{\text{char } i})^2))$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum(w_i)^2 (u_{\text{char } i})^2]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) / (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = 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 ($\mu\text{g/mL}$)

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.

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, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 14, 2020

- 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 14, 2024**

- 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



Energy Laboratories Inc

Standard LOG

Standard ID: ME211202 EL200.2MS
Standard Name: EL-200.2MS
Date Prepared: 12/2/2021
Date Expires: 12/2/2022
Department: ME
Vendor: Inorganic Ventures
Lot Number: P2-MEB685870
Balance ID:
Comments: Opened 8/11/2021; Expires 8/11/2022

Type: Primary
BY: Amanda E. McDani
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Exp |
|-------------------------------------|----------|-----|-------|-------|
| Multi Analyte Custom Grade Solution | 14398 | 500 | mL | 12/2/ |

Final Volume: 500 mL

Stock Source

Base Units

Amount Added

Analvtes

CAS

Conc: **ug/mL**

300 Technology Drive
 Christiansburg, VA 24073 USA
 inorganicventures.com

 P: 800-669-6799/540-585-3030
 F: 540-585-3012
 info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

| | | |
|---------------------|--|--|
| Product Code: | Multi Analyte Custom Grade Solution | |
| Catalog Number: | EL-200.2MS | |
| Lot Number: | S2-MEB702960 | |
| Matrix: | 5% (v/v) HNO ₃ | |
| Value / Analyte(s): | 5 000 µg/mL ea: | Potassium, Sodium, |
| | Calcium, Magnesium, | |
| | 1 000 µg/mL ea: | |
| | Phosphorus, | |
| | 500 µg/mL ea: | Iron, |
| | Manganese, Aluminum, | |
| | 100 µg/mL ea: | Boron, Cobalt, Copper, Nickel, Selenium, Thallium, Zinc, |
| | Arsenic, Barium, Chromium, Lithium, Lead, Strontium, Vanadium, | |
| | 50 µg/mL ea: | Beryllium, |
| | Cadmium, | |
| 10 µg/mL ea: | | |
| Silver | | |

ID #: 14398

Opened: _____

Multi Analyte Custom Grade Solution

Expires: 3/8/2025

Rec'd: 10/18/2021

 Energv Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|---------------|-------------------|---------------|--------------------|
| Aluminum, Al | 499.9 ± 1.9 µg/mL | Arsenic, As | 100.0 ± 0.8 µg/mL |
| Barium, Ba | 100.0 ± 0.4 µg/mL | Beryllium, Be | 50.01 ± 0.30 µg/mL |
| Boron, B | 100.0 ± 0.7 µg/mL | Cadmium, Cd | 50.01 ± 0.22 µg/mL |
| Calcium, Ca | 5 000 ± 20 µg/mL | Chromium, Cr | 100.0 ± 0.7 µg/mL |
| Cobalt, Co | 100.0 ± 0.5 µg/mL | Copper, Cu | 100.0 ± 0.4 µg/mL |
| Iron, Fe | 499.8 ± 2.1 µg/mL | Lead, Pb | 100.0 ± 0.5 µg/mL |
| Lithium, Li | 100.0 ± 0.4 µg/mL | Magnesium, Mg | 5 000 ± 20 µg/mL |
| Manganese, Mn | 500.1 ± 2.0 µg/mL | Nickel, Ni | 100.0 ± 0.5 µg/mL |
| Phosphorus, P | 1 000 ± 6 µg/mL | Potassium, K | 5 000 ± 19 µg/mL |
| Selenium, Se | 100.0 ± 0.8 µg/mL | Silver, Ag | 10.00 ± 0.05 µg/mL |
| Sodium, Na | 5 000 ± 18 µg/mL | Strontium, Sr | 100.0 ± 0.4 µg/mL |
| Thallium, Tl | 100.0 ± 0.7 µg/mL | Vanadium, V | 100.0 ± 0.5 µg/mL |
| Zinc, Zn | 100.1 ± 0.4 µg/mL | | |

Density: 1.097 g/mL (measured at 20 ± 4 °C)

Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---------|-------------|--------------------|--------------|
| Ag | ICP Assay | 3151 | 160729 |
| Ag | Volhard | 999c | 999c |
| Al | ICP Assay | 3101a | 140903 |
| Al | EDTA | 928 | 928 |
| As | ICP Assay | 3103a | 100818 |
| B | ICP Assay | 3107 | 110830 |
| 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 |
| K | ICP Assay | 3141a | 140813 |
| K | Gravimetric | | See Sec. 4.2 |
| Li | ICP Assay | 3129a | 100714 |
| Li | Gravimetric | | See Sec. 4.2 |
| Mg | ICP Assay | 3131a | 140110 |
| Mg | EDTA | 928 | 928 |
| Mn | ICP Assay | 3132 | 050429 |
| Mn | EDTA | 928 | 928 |
| Na | ICP Assay | 3152a | 120715 |
| Na | Gravimetric | | See Sec. 4.2 |
| Ni | ICP Assay | 3136 | 120619 |
| Ni | EDTA | 928 | 928 |
| P | ICP Assay | 3139a | 060717 |
| P | Acidimetric | 84L | 84L |
| Pb | ICP Assay | 3128 | 101026 |
| Pb | EDTA | 928 | 928 |
| Se | ICP Assay | 3149 | 100901 |
| Sr | EDTA | 928 | 928 |
| Sr | ICP Assay | Traceable to 3153a | K2-SR650985 |
| Tl | ICP Assay | 3158 | 151215 |
| V | ICP Assay | 3165 | 160906 |
| V | EDTA | 928 | 928 |
| Zn | ICP Assay | 3168a | 120629 |
| Zn | EDTA | 928 | 928 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i})^2 / (\sum(1/(u_{\text{char } i})^2))$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{TS}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum(w_i)^2 (u_{\text{char } i})^2]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{TS} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{TS}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = 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 ($\mu\text{g/mL}$)

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° \pm 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.

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, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 08, 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

- March 08, 2025

- 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



Energy Laboratories Inc

Spike LOG

Standard ID: ME220117 AUDIGSPK

Standard Name: AUDIGSPK

Date Prepared: 1/17/2022

Date Expires: 10/25/2022

Department: ME

Vendor:

Lot Number:

Balance ID:

Comments:

Type: Secondary

BY: Amanda E. McDani

Status: Open

Final Volume: 50 mL

Stock Source

ME211202A U Stock

ME 211025 Th Sec Th Secondary Stock

ME211222 Ce 2nd Ce Secondary Stock

ME211222 La Sec La Secondary Stock

ME211229A AU 2n Au 2nd source Stock

ME211025A Te Stock

Base Units

ug/mL

ug/mL

ug/mL

ug/mL

ug/mL

ug/mL

Amount Added

5 mL

5 mL

5 mL

5 mL

15 mL

15 mL

Analvtes

CAS

Conc: **ug/mL**

Energy Laboratories Inc

Standard LOG

Standard ID: ME211202A
Standard Name: U Stock
Date Prepared: 12/2/2021
Date Expires: 12/2/2022
Department: ME
Vendor: SCP Science
Lot Number: S210517021
Balance ID:
Comments:

Type: Primary
BY: Amanda E. McDani
Status: New

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|----------------------------|----------|-----|-------|-----------|
| ICP/ICPMS Standard Uranium | 14419 | 500 | mL | 12/2/2022 |

Final Volume:
500 mL

Stock Source

Base Units

Amount Added

Analytes

CAS

Conc: **ug/mL**

U

1.0 DESCRIPTION:

PlasmaCAL ICP/ICPMS Standard - Uranium 1000 µg/ml
 Catalogue Number: 140-051-920/-921/-925
 Starting Material: Uranyl Nitrate 99.99%
 Lot Number: **S210517021**
 Matrix: 4% HNO₃ (See Section 3 for actual matrix)
 Expiration Date (End of month): **May 2023** (or 15 months after bottle is opened, whichever comes first)

2.0 CERTIFIED VALUES AND ASSOCIATED UNCERTAINTY:

Certified Concentration: **1004 µg/ml +/- 4 µg/ml**
985 µg/g +/- 4 µg/g
 Method of analysis: Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES)
 Traceability: NIST Standard Reference Material 3164 Lot: **080521**

Note: The uncertainty of the certified value has been calculated from applicable uncertainty contributors (u_i) including uncertainty established during characterization of the material (u_{char}), the between bottle variation (u_{bb}), short-term stability (u_{sts}) and long-term stability (u_{lts}) according to the model $u_c = \sqrt{(u_{char}^2 + u_{bb}^2 + u_{sts}^2 + u_{lts}^2)}$. This combined uncertainty has been further multiplied by a coverage factor (k) of 2 to provide a 95% confidence interval.

3.0 REFERENCE VALUES:

Density: **1.020 g/ml @ 24.0 °C**
 Actual Matrix: **4.0% (v/v) HNO₃**

% abundance of stable isotopes : ²³⁸U : 99.82% ; ²³⁵U : 0.18%

Note : The uranyl nitrate comes from a depleted source of uranium.

ID #: 14419

Opened: _____
 ICP/ICPMS Standard Uranium
Expires: 5/31/2023
 Rec'd: 10/20/2021
 Enerav Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

Trace Metal Impurities as tested by ICP-MS:

| Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) |
|---------|---------------|---------|-------------|---------|-------------|---------|-------------|
| Ag | <0.0010 | Fe | <0.0018 | Nd | <0.0010 | Sn | <0.0010 |
| Al | 0.0252 | Ga | <0.0010 | Ni | <0.0010 | Sr | <0.0025 |
| As | <0.0010 | Gd | <0.0010 | Os | <0.0010 | Ta | <0.0010 |
| Au | <0.0010 | Ge | <0.0010 | P | <0.0026 | Tb | <0.0010 |
| B | <0.0015 | Hf | <0.0010 | Pb | <0.0010 | Te | <0.0010 |
| Ba | <0.0010 | Hg | * | Pd | <0.0010 | Th | <0.0010 |
| Be | <0.0010 | Ho | <0.0010 | Pr | <0.0010 | Ti | <0.0012 |
| Bi | <0.0010 | In | <0.0010 | Pt | <0.0010 | Tl | <0.0011 |
| Ca | <0.0135 | Ir | <0.0010 | Rb | <0.0010 | Tm | <0.0010 |
| Cd | <0.0010 | K | <0.0024 | Re | <0.0010 | U | N/A |
| Ce | <0.0010 | La | <0.0010 | Rh | <0.0010 | V | <0.0010 |
| Co | <0.0010 | Li | <0.0010 | Ru | <0.0010 | W | <0.0020 |
| Cr | <0.0010 | Lu | <0.0010 | S | * | Y | <0.0010 |
| Cs | <0.0010 | Mg | <0.0020 | Sb | <0.0010 | Yb | <0.0010 |
| Cu | <0.0010 | Mn | <0.0010 | Sc | <0.0010 | Zn | <0.0010 |
| Dy | <0.0010 | Mo | <0.0010 | Se | <0.0010 | Zr | <0.0010 |
| Er | <0.0010 | Na | <0.0010 | Si | <0.1 | | |
| Eu | <0.0010 | Nb | <0.0010 | Sm | <0.0010 | | |

*: Not tested

4.0 APPROVAL AND DATE OF CERTIFICATION:

Certification Approval: Yaling Sui, Chemist
 Certification Date: May 27, 2021

Yaling Sui

5.0 INTENDED USE / UTILISATION PRÉVUE:

- ICP Standards: For the calibration of, including but not limited to: ICP-AES, ICP-MS, FAAS, GFAA, XRF and DCP. / *Étalons ICP : Pour l'étalonnage d'instruments de mesure tels que: ICP-AES, ICP-MS, FAAS, GFAA, XRF et DCP.*
 - AA Standards: For the calibration of Flame (FAAS) and Graphite Furnace (GFAA) Atomic Absorption Spectrometers. / *Étalons AA : Pour l'étalonnage de spectromètres d'absorption atomique flamme (FAAS) et four au graphite (GFAA).*
 - Matrix Modifiers: For the optimization of analytical conditions to provide better Graphite Furnace Atomic Absorption (GFAA) instrument response and improved detection limits. / *Modificateur de matrice : Pour l'optimisation des conditions analytiques afin de fournir des meilleures réponses instrumentales et limites de détection pour SAA four au graphite.*
 - pH Standards: For the calibrating pH meters or for other wet chemistry applications. / *Étalons pH : Pour étalonnage de pH mètres et autres applications de chimie humide.*
 - Conductivity Standards: For electrolytic conductivity measurement as a calibration standard. / *Étalons de conductivité : Comme étalon pour les mesures de conductivité électrolytiques.*
 - IC Standards: for calibration of, but not limited to IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS or other wet chemistry applications. / *Étalons IC : Pour étalonnage d'instruments tels que : IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS et autres applications de chimie humide.*
- For any inquiries, please contact **SCP SCIENCE**. / *Pour toute question, veuillez contacter SCP SCIENCE.*

6.0 INSTRUCTIONS FOR USE / INSTRUCTIONS D'UTILISATION:

Handling and Storage / Manutention et entreposage: Keep product tightly capped when not in use. The solution should be opened for a minimum amount of time necessary to dispense the amount required. Do not pipet or use directly from container. Do not return unused portions back to container. Store under normal laboratory conditions. Avoid exposure to excessive sources of heat and humidity or direct sunlight. / *Garder les contenants bien fermés lorsque non utilisés. Le contenant devrait être ouvert seulement pour le temps requis afin de prélever la quantité nécessaire. Ne pas pipetter ou utiliser directement du contenant. Ne pas retourner les portions non-utilisées dans le contenant. Conserver dans des conditions normales de laboratoire. Éviter l'exposition à des sources de chaleur et d'humidité excessives ou à l'exposition solaire directe.*

Stability / Stabilité: This Standard is guaranteed to be stable and accurate to within the specified uncertainty of measurement up to the unopened expiry date, if sealed, or up to the opened expiry date (when indicated), whichever comes first, provided the solution is kept tightly capped and stored under the indicated storage conditions. Purchasers will be notified of any significant changes resulting in re-certification or withdrawal of the product prior to the expiration date. / *La stabilité et l'exactitude de cet étalon sont garanties d'être à l'intérieur de l'incertitude de mesure, jusqu'à la date d'expiration de la bouteille non-ouverte, si scellée, ou jusqu'à la date d'expiration de la bouteille ouverte (si indiquée), en presumant que le contenant est maintenu fermé et gardé dans les conditions d'entreposage indiquées. Les acheteurs seront avisés dans le cas où il y aura des changements significatifs nécessitant une re-certification ou un rappel du produit avant la date d'expiration.*

7.0 HAZARDOUS INFORMATION / INFORMATION SUR LES RISQUES POTENTIELS:

Please refer to the associated Safety Data Sheet (SDS) for information regarding this product (available at www.SCPSCIENCE.com). / *SVP vous référer à la Fiche Signalétique applicable pour de l'information sur ce produit (Disponible à www.SCPSCIENCE.com).*

8.0 HOMOGENEITY / HOMOGÉNÉITÉ:

This solution has been blended according to an in-house procedure and its homogeneity is guaranteed to be fit for purpose when a sample size sufficient for the intended method of analysis is used. / *Cette solution a été préparée selon une procédure maison et nous assurons que sa homogénéité est approprié à l'emploi lorsqu'un échantillon suffisant pour la méthode d'analyse prévue est utilisé.*

9.0 TRACEABILITY / TRAÇABILITÉ:

This CRM (Certified Reference Material) is traceable to the NIST SRM (Standard Reference Material) indicated in section 2 through an unbroken chain of comparisons. In addition, balances used are regularly calibrated using weights which are traceable to NIST (National Institute of Standards and Technology) or NRC (National Research Council of Canada) standards. All conductivity meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable Thermometer and standards. All pH meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable thermometer and pH/MV simulator. / *Ce matériel de référence certifié est traçable au Matériel de Référence Standardisé de NIST indiqué à la section 2 par une chaîne de comparaison ininterrompue. De plus, les balances utilisées sont étalonnées régulièrement en utilisant des poids qui sont traçables au NIST (National Institute of Standards and Technology) ou au CRNC (Conseil National de Recherches Canada). Tout conductimètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et étalons traçables au NIST ou CNRC. Tout pH mètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et un simulateur pH/MV traçables au NIST ou au CNRC.*

10.0 PREPARATION / PRÉPARATION:

For the preparation of these solutions, 18 megohm/cm double deionized water, high-purity acids and glassware calibrated to ASTM Class A specifications are used. / *Une eau de 18 megohm/cm doublement déionisé, de l'acide de haute pureté, ainsi que de la verrerie étalonnée afin de satisfaire les spécifications Classe A de ASTM ont été utilisés pour la préparation de cet étalon.*

11.0 QUALITY SYSTEM CERTIFICATIONS / CERTIFICATIONS DE SYSTÈME QUALITÉ:

ISO 9001 Certification / Certification ISO 9001: This standard was produced in a facility which operates under a registered ISO 9001 Quality Management System. Please consult our web site for a copy of the most recent revision of our certificate of registration. / *Cet étalon a été fabriqué dans un laboratoire qui utilise un Système de Gestion de la Qualité enregistré à la norme ISO 9001. Veuillez consulter notre site web pour obtenir la version la plus récente de notre certificat d'enregistrement.*

ISO 17025 Accreditation / Accréditation ISO 17025: SCP SCIENCE (Corporate Headquarters) operates an ISO 17025 accredited laboratory. Please consult our web site for a copy of the most recent revision of our certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est accréditée ISO 17025. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

ISO 17034 Accreditation / Accréditation ISO 17034 : SCP SCIENCE (Corporate Headquarters) is an ISO 17034 accredited Reference Material Producer. Please consult our website for a copy of our most recent certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est un Fabricant de Matériaux de Référence Accrédité ISO 17034. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

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Fax: +49 (0) 8342-89560-69

Energy Laboratories Inc

Standard LOG

Standard ID: ME 211025 TH SECONDARY STOCK
Standard Name: Th Secondary Stock
Date Prepared: 10/25/2021
Date Expires: 10/25/2022
Department: ME
Vendor: Inorganic Ventures
Lot Number: S2-TH706436
Balance ID:
Comments: Opened 10/25/2021; Expires 10/25/2022

Type: Primary
BY: Stacy R. Hendricks
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|---|----------|-----|-------|------------|
| Thorium Single Analyte Custom Grade Sol | 14318 | 125 | mL | 10/25/2022 |

Final Volume:
500 mL

Stock Source

Base Units

Amount Added

Analytes

CAS

Conc: **ug/mL**

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGTH1
Lot Number: S2-TH706436
Matrix: 5% (v/v) HNO3
Value / Analyte(s): 1 000 µg/mL ea:
Thorium
Starting Material: TH(NO3)4*4H2O
Starting Material Lot#: 2250
Starting Material Purity: 99.9905%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1001 ± 4 µg/mL
Density: 1.026 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **1001 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #2 **1001 ± 6 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

ID #: 14318
Opened:
Thorium Single Analyte Custom Grade Solution
Expires: 7/4/2025
Rec'd: 9/24/2021
Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

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:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

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:

$$w_i = (1/u_{char i}^2) / (\sum(1/(u_{char i}^2)))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i}^2)]^{1/2}$ 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

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u^2_{char a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$$

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 ($\mu\text{g/mL}$)

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 < 0.000448 | M Eu < 0.000224 | O Na 0.064077 | M Se < 0.005827 | M Zn 0.003183 |
| O Al 0.010962 | M Fe 0.012392 | M Nb < 0.003138 | i Si < | M Zr < 0.010310 |
| M As < 0.038776 | M Ga < 0.004931 | M Nd 0.004697 | M Sm 0.000871 | |
| M Au < 0.000224 | M Gd 0.000300 | M Ni < 0.006724 | M Sn < 0.028242 | |
| M B < 0.021293 | M Ge < 0.008965 | M Os < 0.000224 | M Sr 0.002582 | |
| M Ba 0.001317 | M Hf < 0.000224 | i P < | M Ta < 0.001344 | |
| M Be < 0.000224 | M Hg < 0.000448 | M Pb 0.003287 | M Tb < 0.001793 | |
| M Bi < 0.001793 | M Ho < 0.001344 | M Pd < 0.000448 | M Te < 0.010086 | |
| O Ca 0.051969 | M In 0.000134 | M Pr 0.001202 | s Th < | |
| M Cd < 0.001344 | M Ir < 0.000224 | M Pt < 0.000224 | M Ti < 0.004258 | |
| M Ce 0.015420 | O K 0.028928 | M Rb < 0.005155 | M Tl < 0.000224 | |
| M Co < 0.001344 | M La 0.003577 | M Re < 0.000224 | M Tm < 0.000224 | |
| M Cr < 0.015465 | M Li < 0.000448 | M Rh < 0.000224 | M U 0.006564 | |
| M Cs < 0.013896 | M Lu < 0.000224 | M Ru < 0.000224 | M V < 0.001793 | |
| M Cu 0.001472 | O Mg 0.027914 | i S < | M W < 0.000224 | |
| M Dy 0.000197 | M Mn 0.001814 | M Sb < 0.004931 | M Y 0.000860 | |
| M Er < 0.002241 | M Mo < 0.000896 | M Sc < 0.000672 | M Yb < 0.000224 | |

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 - 232.04 +4 8 Th(OH) 3+ and Th(OH)22+

Chemical Compatibility -Soluble in HCl, and HNO3. Avoid H3PO4, H2SO4 and HF although solubilities may not be a problem depending upon pH and matrix (For example: ThF4 is soluble in acids). Avoid neutral to basic media. Th4+ is stable with most metals and inorganic anions forming an insoluble carbonate, oxide, fluoride, oxalate, sulfate and phosphate in neutral to slightly acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

Th Containing Samples (Preparation and Solution) -Metal (Soluble in Aqua Regia); Oxide (The heated oxide is not soluble in acids except hot conc. H2SO4); Ores (Na2O2 fusion at 480 ± 20EC for 7 minutes, cool and treat sintered mass with 50 mL cold water and stand until disintegrated. The mass is transferred to a beaker and acidified with HCl with 25 mL excess HCl added. Any residue is collected on a Whatman No. 42 filter, dried and ignited to 1000 EC in Pt0 crucible and the ash treated with H2SO4 / HF and fumed. If residue remains, then treat it by peroxide fusion as above.)

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 232 amu | 1 ppt | N/A | |
| ICP-OES 274.716 nm | 0.08 / 0.008 µg/mL | 1 | Ti, Ta, Fe, V |
| ICP-OES 283.231 nm | 0.07 / 0.007 µg/mL | 1 | U, Mo, Ti, Fe, Cr |
| ICP-OES 283.730 nm | 0.07 / 0.007 µg/mL | 1 | U, Zr |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 04, 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

- July 04, 2025

- 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



Energy Laboratories Inc

Standard LOG

Standard ID: ME211222 CE 2ND SOURCE
Standard Name: Ce Secondary Stock
Date Prepared: 12/22/2021
Date Expires: 12/22/2022
Department: ME
Vendor: SCP Science
Lot Number: S210208003
Balance ID:
Type: Primary
BY: Amanda E. McDani
Status: Open
Comments: opened 12/22/2021, expires 12/22/2022

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|---------------------------|----------|-----|-------|------------|
| Cerium PlasmaCal Standard | 14327 | 125 | mL | 12/22/2022 |

Final Volume:
125 mL

Stock Source

Base Units

Amount Added

Analytes

CAS

Conc: **ug/mL**
1000

A Cerium

7440-45-1

Ce

1.0 DESCRIPTION: **PlasmaCAL ICP/ICPMS Standard - Cerium 1000 µg/ml**
 Catalogue Number: 140-051-580/-581/-585
 Starting Material: Cerium(III) Nitrate Hexahydrate 99.99+%
 Lot Number: **S210208003**
 Matrix: 4% HNO₃ (See Section 3 for actual matrix)
 Expiration Date (End of month): **February 2023** (or 15 months after bottle is opened, whichever comes first)

2.0 CERTIFIED VALUES AND ASSOCIATED UNCERTAINTY:
 Certified Concentration: **1003 µg/ml +/- 4 µg/ml**
982 µg/g +/- 4 µg/g
 Method of analysis: Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES)
 Traceability: NIST Standard Reference Material 3110 Lot: **090504**

Note: The uncertainty of the certified value has been calculated from applicable uncertainty contributors (u_i) including uncertainty established during characterization of the material (u_{char}), the between bottle variation (u_{bb}), short-term stability (u_{sts}) and long-term stability (u_{lts}) according to the model $u_c = \sqrt{(u_{char}^2 + u_{bb}^2 + u_{sts}^2 + u_{lts}^2)}$. This combined uncertainty has been further multiplied by a coverage factor (k) of 2 to provide a 95% confidence interval.

3.0 REFERENCE VALUES:
 Density: **1.021 g/ml @ 22.5 °C**
 Actual Matrix: **4.0% (v/v) HNO₃**
 Trace Metal Impurities as tested by ICP-MS:

ID #: 14327
 Opened: _____
 Cerium PlasmaCal Standard
Expires: 2/28/2023
 Rec'd: 9/29/2021
 Energy Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

| Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) |
|---------|---------------|---------|---------------|---------|---------------|---------|-------------|
| Ag | <0.0010 | Fe | <0.0018 | Nd | 0.0102 | Sn | <0.0010 |
| Al | 0.0148 | Ga | 0.0526 | Ni | 0.0064 | Sr | <0.0025 |
| As | <0.0010 | Gd | <0.0010 | Os | <0.0010 | Ta | <0.0010 |
| Au | <0.0010 | Ge | <0.0010 | P | <0.0132 | Tb | <0.0010 |
| B | <0.0015 | Hf | <0.0010 | Pb | <0.0010 | Te | <0.0010 |
| Ba | <0.0010 | Hg | * | Pd | <0.0010 | Th | <0.0010 |
| Be | <0.0010 | Ho | <0.0010 | Pr | 0.0235 | Ti | <0.0012 |
| Bi | <0.0010 | In | <0.0010 | Pt | <0.0010 | Tl | <0.0011 |
| Ca | 0.0375 | Ir | <0.0010 | Rb | <0.0010 | Tm | <0.0010 |
| Cd | <0.0010 | K | <0.0024 | Re | <0.0010 | U | <0.0010 |
| Ce | N/A | La | <0.10 | Rh | <0.0010 | V | <0.0010 |
| Co | <0.0010 | Li | <0.0010 | Ru | <0.0010 | W | <0.0020 |
| Cr | <0.0010 | Lu | <0.0010 | S | * | Y | <0.0010 |
| Cs | <0.0010 | Mg | <0.0010 | Sb | <0.0010 | Yb | <0.0010 |
| Cu | 0.0121 | Mn | <0.0010 | Sc | <0.0010 | Zn | <0.0010 |
| Dy | <0.0010 | Mo | <0.0010 | Se | <0.0010 | Zr | <0.0010 |
| Er | <0.0010 | Na | <0.0010 | Si | <0.10 | | |
| Eu | 0.0035 | Nb | <0.0010 | Sm | <0.0010 | | |

*: Not tested

4.0 APPROVAL AND DATE OF CERTIFICATION:
 Certification Approval: Yaling Sui, Chemist
 Certification Date: February 22, 2021

Yaling Sui

5.0 INTENDED USE / UTILISATION PRÉVUE:

- ICP Standards: For the calibration of, including but not limited to: ICP-AES, ICP-MS, FAAS, GFAA, XRF and DCP. / *Étalons ICP : Pour l'étalonnage d'instruments de mesure tels que: ICP-AES, ICP-MS, FAAS, GFAA, XRF et DCP.*
 - AA Standards: For the calibration of Flame (FAAS) and Graphite Furnace (GFAA) Atomic Absorption Spectrometers. / *Étalons AA : Pour l'étalonnage de spectromètres d'absorption atomique flamme (FAAS) et four au graphite (GFAA).*
 - Matrix Modifiers: For the optimization of analytical conditions to provide better Graphite Furnace Atomic Absorption (GFAA) instrument response and improved detection limits. / *Modificateur de matrice : Pour l'optimisation des conditions analytiques afin de fournir des meilleures réponses instrumentales et limites de détection pour SAA four au graphite.*
 - pH Standards: For the calibrating pH meters or for other wet chemistry applications. / *Étalons pH : Pour étalonnage de pH mètres et autres applications de chimie humide.*
 - Conductivity Standards: For electrolytic conductivity measurement as a calibration standard. / *Étalons de conductivité : Comme étalon pour les mesures de conductivité électrolytiques.*
 - IC Standards: for calibration of, but not limited to IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS or other wet chemistry applications. / *Étalons IC : Pour étalonnage d'instruments tels que : IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS et autres applications de chimie humide.*
- For any inquiries, please contact **SCP SCIENCE**. / *Pour toute question, veuillez contacter SCP SCIENCE.*

6.0 INSTRUCTIONS FOR USE / INSTRUCTIONS D'UTILISATION:

Handling and Storage / Manutention et entreposage: Keep product tightly capped when not in use. The solution should be opened for a minimum amount of time necessary to dispense the amount required. Do not pipet or use directly from container. Do not return unused portions back to container. Store under normal laboratory conditions. Avoid exposure to excessive sources of heat and humidity or direct sunlight. / *Garder les contenants bien fermés lorsque non utilisés. Le contenant devrait être ouvert seulement pour le temps requis afin de prélever la quantité nécessaire. Ne pas pipetter ou utiliser directement du contenant. Ne pas retourner les portions non-utilisées dans le contenant. Conserver dans des conditions normales de laboratoire. Éviter l'exposition à des sources de chaleur et d'humidité excessives ou à l'exposition solaire directe.*

Stability / Stabilité: This Standard is guaranteed to be stable and accurate to within the specified uncertainty of measurement up to the unopened expiry date, if sealed, or up to the opened expiry date (when indicated), whichever comes first, provided the solution is kept tightly capped and stored under the indicated storage conditions. Purchasers will be notified of any significant changes resulting in re-certification or withdrawal of the product prior to the expiration date. / *La stabilité et l'exactitude de cet étalon sont garanties d'être à l'intérieur de l'incertitude de mesure, jusqu'à la date d'expiration de la bouteille non-ouverte, si scellée, ou jusqu'à la date d'expiration de la bouteille ouverte (si indiquée), en présumant que le contenant est maintenu fermé et gardé dans les conditions d'entreposage indiquées. Les acheteurs seront avisés dans le cas où il y aura des changements significatifs nécessitant une re-certification ou un rappel du produit avant la date d'expiration.*

7.0 HAZARDOUS INFORMATION / INFORMATION SUR LES RISQUES POTENTIELS:

Please refer to the associated Safety Data Sheet (SDS) for information regarding this product (available at www.SCPSCIENCE.com). / *SVP vous référer à la Fiche Signalétique applicable pour de l'information sur ce produit (Disponible à www.SCPSCIENCE.com).*

8.0 HOMOGENEITY / HOMOGÉNÉITÉ:

This solution has been blended according to an in-house procedure and its homogeneity is guaranteed to be fit for purpose when a sample size sufficient for the intended method of analysis is used. / *Cette solution a été préparée selon une procédure maison et nous assurons que sa homogénéité est approprié à l'emploi lorsqu'un échantillon suffisant pour la méthode d'analyse prévue est utilisé.*

9.0 TRACEABILITY / TRAÇABILITÉ:

This CRM (Certified Reference Material) is traceable to the NIST SRM (Standard Reference Material) indicated in section 2 through an unbroken chain of comparisons. In addition, balances used are regularly calibrated using weights which are traceable to NIST (National Institute of Standards and Technology) or NRC (National Research Council of Canada) standards. All conductivity meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable Thermometer and standards. All pH meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable thermometer and pH/MV simulator. / *Ce matériel de référence certifié est traçable au Matériel de Référence Standardisé de NIST indiqué à la section 2 par une chaîne de comparaison ininterrompue. De plus, les balances utilisées sont étalonnées régulièrement en utilisant des poids qui sont traçables au NIST (National Institute of Standards and Technology) ou au CRNC (Conseil National de Recherches Canada). Tout conductimètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et étalons traçables au NIST ou au CNRC. Tout pH mètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et un simulateur pH/MV traçables au NIST ou au CNRC.*

10.0 PREPARATION / PRÉPARATION:

For the preparation of these solutions, 18 megohm/cm double deionized water, high-purity acids and glassware calibrated to ASTM Class A specifications are used. / *Une eau de 18 megohm/cm doublement déionisé, de l'acide de haute pureté, ainsi que de la verrerie étalonnée afin de satisfaire les spécifications Classe A de ASTM ont été utilisés pour la préparation de cet étalon.*

11.0 QUALITY SYSTEM CERTIFICATIONS / CERTIFICATIONS DE SYSTÈME QUALITÉ:

ISO 9001 Certification / Certification ISO 9001: This standard was produced in a facility which operates under a registered ISO 9001 Quality Management System. Please consult our web site for a copy of the most recent revision of our certificate of registration. / *Cet étalon a été fabriqué dans un laboratoire qui utilise un Système de Gestion de la Qualité enregistré à la norme ISO 9001. Veuillez consulter notre site web pour obtenir la version la plus récente de notre certificat d'enregistrement.*

ISO 17025 Accreditation / Accréditation ISO 17025: SCP SCIENCE (Corporate Headquarters) operates an ISO 17025 accredited laboratory. Please consult our web site for a copy of the most recent revision of our certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est accréditée ISO 17025. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

ISO 17034 Accreditation / Accréditation ISO 17034: SCP SCIENCE (Corporate Headquarters) is an ISO 17034 accredited Reference Material Producer. Please consult our website for a copy of our most recent certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est un Fabricant de Matériaux de Référence Accrédité ISO 17034. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

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Fax: +33 (0) 1 60 92 05 67

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Marktoberdorf
Phone: +49 (0) 8342-89560-61
Fax: +49 (0) 8342-89560-69

Energy Laboratories Inc

Standard LOG

Standard ID: ME211222 LA SECOND SOURCE
Standard Name: La Secondary Stock
Date Prepared: 12/22/2021
Date Expires: 12/22/2022
Department: ME
Vendor: SCP Science
Lot Number: S210803016
Balance ID:
Comments: opened 12/22/2021, expires 12/22/2022

Type: Primary
BY: Amanda E. McDani
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|------------------------------|----------|-----|-------|------------|
| Lanthanum PlasmaCal Standard | 14326 | 125 | mL | 12/22/2022 |

Final Volume:
mL

Stock Source

Base Units

Amount Added

Analytes

CAS

Conc: **ug/mL**

La

1.0 DESCRIPTION: **PlasmaCAL ICP/ICPMS Standard - Lanthanum 1000 µg/ml**
 Catalogue Number: 140-051-570/-571/-575
 Starting Material: Lanthanum(III) Oxide 99.99+%
 Lot Number: **S210803016**
 Matrix: 4% HNO₃ (See Section 3 for actual matrix)
 Expiration Date (End of month): **August 2023** (or 15 months after bottle is opened, whichever comes first)

2.0 CERTIFIED VALUES AND ASSOCIATED UNCERTAINTY:
 Certified Concentration: **1005 µg/ml +/- 4 µg/ml**
985 µg/g +/- 3 µg/g
 Method of analysis: Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES)
 Traceability: NIST Standard Reference Material 3127a Lot: **151030**

Note: The uncertainty of the certified value has been calculated from applicable uncertainty contributors (u_i) including uncertainty established during characterization of the material (u_{char}), the between bottle variation (u_{bb}), short-term stability (u_{sts}) and long-term stability (u_{lts}) according to the model $u_c = \sqrt{(u_{char}^2 + u_{bb}^2 + u_{sts}^2 + u_{lts}^2)}$. This combined uncertainty has been further multiplied by a coverage factor (k) of 2 to provide a 95% confidence interval.

3.0 REFERENCE VALUES:
 Density: **1.020 g/ml @ 23.2 °C**
 Actual Matrix: **4.0% (v/v) HNO₃**

ID #: 14326

Opened: _____

Lanthanum PlasmaCal Standard

Expires: 8/31/2023

Rec'd: 9/29/2021

Energy Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

Trace Metal Impurities as tested by ICP-MS:

| Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) |
|---------|---------------|---------|---------------|---------|-------------|---------|---------------|
| Ag | <0.0010 | Fe | <0.0018 | Nd | <0.0010 | Sn | <0.0010 |
| Al | 0.0106 | Ga | <0.0010 | Ni | <0.0010 | Sr | <0.0025 |
| As | <0.0010 | Gd | 0.0889 | Os | <0.0010 | Ta | <0.0010 |
| Au | <0.0010 | Ge | <0.0010 | P | <0.0026 | Tb | <0.0010 |
| B | <0.0015 | Hf | <0.0010 | Pb | <0.0010 | Te | <0.0010 |
| Ba | 0.0031 | Hg | * | Pd | <0.0010 | Th | <0.0010 |
| Be | <0.0010 | Ho | <0.0010 | Pr | <0.0010 | Ti | <0.0062 |
| Bi | <0.0010 | In | <0.0010 | Pt | <0.0010 | Tl | <0.0011 |
| Ca | 0.0169 | Ir | <0.0010 | Rb | <0.0010 | Tm | <0.0010 |
| Cd | <0.0010 | K | <0.0024 | Re | <0.0010 | U | <0.0010 |
| Ce | 0.0272 | La | N/A | Rh | <0.0010 | V | <0.0010 |
| Co | <0.0010 | Li | <0.0010 | Ru | <0.0010 | W | <0.0020 |
| Cr | <0.0010 | Lu | <0.0010 | S | * | Y | 0.0020 |
| Cs | <0.0010 | Mg | <0.0010 | Sb | <0.0010 | Yb | <0.0010 |
| Cu | <0.0010 | Mn | <0.0010 | Sc | <0.0010 | Zn | <0.0010 |
| Dy | <0.0010 | Mo | <0.0010 | Se | <0.0010 | Zr | <0.0010 |
| Er | <0.0010 | Na | 0.0156 | Si | <0.1 | | |
| Eu | <0.0010 | Nb | <0.0010 | Sm | <0.0010 | | |

*: Not tested

4.0 APPROVAL AND DATE OF CERTIFICATION:

Certification Approval: Daniel Boisvert, Chemist
 Certification Date: August 12, 2021

Daniel Boisvert

5.0 INTENDED USE / UTILISATION PRÉVUE:

- ICP Standards: For the calibration of, including but not limited to: ICP-AES, ICP-MS, FAAS, GFAA, XRF and DCP. / *Étalons ICP : Pour l'étalonnage d'instruments de mesure tels que: ICP-AES, ICP-MS, FAAS, GFAA, XRF et DCP.*

- AA Standards: For the calibration of Flame (FAAS) and Graphite Furnace (GFAA) Atomic Absorption Spectrometers. / *Étalons AA : Pour l'étalonnage de spectromètres d'absorption atomique flamme (GFAA) et four au graphite (GFAA).*

- Matrix Modifiers: For the optimization of analytical conditions to provide better Graphite Furnace Atomic Absorption (GFAA) instrument response and improved detection limits. / *Modificateur de matrice : Pour l'optimisation des conditions analytiques afin de fournir des meilleures réponses instrumentales et limites de détection pour SAA four au graphite.*

- pH Standards: For the calibrating pH meters or for other wet chemistry applications. / *Étalons pH : Pour étalonnage de pH mètres et autres applications de chimie humide.*

- Conductivity Standards: For electrolytic conductivity measurement as a calibration standard. / *Étalons de conductivité : Comme étalon pour les mesures de conductivité électrolytiques.*

- IC Standards: for calibration of, but not limited to IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS or other wet chemistry applications. / *Étalons IC : Pour étalonnage d'instruments tels que : IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS et autres applications de chimie humide.*

For any inquiries, please contact **SCP SCIENCE**. / *Pour toute question, veuillez contacter SCP SCIENCE.*

6.0 INSTRUCTIONS FOR USE / INSTRUCTIONS D'UTILISATION:

Handling and Storage / Manutention et entreposage: Keep product tightly capped when not in use. The solution should be opened for a minimum amount of time necessary to dispense the amount required. Do not pipet or use directly from container. Do not return unused portions back to container. Store under normal laboratory conditions. Avoid exposure to excessive sources of heat and humidity or direct sunlight. / *Garder les contenants bien fermés lorsque non utilisés. Le contenant devrait être ouvert seulement pour le temps requis afin de prélever la quantité nécessaire. Ne pas pipetter ou utiliser directement du contenant. Ne pas retourner les portions non-utilisées dans le contenant. Conserver dans des conditions normales de laboratoire. Éviter l'exposition à des sources de chaleur et d'humidité excessives ou à l'exposition solaire directe.*

Stability / Stabilité: This Standard is guaranteed to be stable and accurate to within the specified uncertainty of measurement up to the unopened expiry date, if sealed, or up to the opened expiry date (when indicated), whichever comes first, provided the solution is kept tightly capped and stored under the indicated storage conditions. Purchasers will be notified of any significant changes resulting in re-certification or withdrawal of the product prior to the expiration date. / *La stabilité et l'exactitude de cet étalon sont garanties d'être à l'intérieur de l'incertitude de mesure, jusqu'à la date d'expiration de la bouteille non-ouverte, si scellée, ou jusqu'à la date d'expiration de la bouteille ouverte (si indiquée), en présumant que le contenant est maintenu fermé et gardé dans les conditions d'entreposage indiquées. Les acheteurs seront avisés dans le cas où il y aura des changements significatifs nécessitant une re-certification ou un rappel du produit avant la date d'expiration.*

7.0 HAZARDOUS INFORMATION / INFORMATION SUR LES RISQUES POTENTIELS:

Please refer to the associated Safety Data Sheet (SDS) for information regarding this product (available at www.SCPSCIENCE.com). / *SVP vous référer à la Fiche Signalétique applicable pour de l'information sur ce produit (Disponible à www.SCPSCIENCE.com).*

8.0 HOMOGENEITY / HOMOGÉNÉITÉ:

This solution has been blended according to an in-house procedure and its homogeneity is guaranteed to be fit for purpose when a sample size sufficient for the intended method of analysis is used. / *Cette solution a été préparée selon une procédure maison et nous assurons que sa homogénéité est approprié à l'emploi lorsqu'un échantillon suffisant pour la méthode d'analyse prévue est utilisé.*

9.0 TRACEABILITY / TRAÇABILITÉ:

This CRM (Certified Reference Material) is traceable to the NIST SRM (Standard Reference Material) indicated in section 2 through an unbroken chain of comparisons. In addition, balances used are regularly calibrated using weights which are traceable to NIST (National Institute of Standards and Technology) or NRC (National Research Council of Canada) standards. All conductivity meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable Thermometer and standards. All pH meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable thermometer and pH/MV simulator. / *Ce matériel de référence certifié est traçable au Matériel de Référence Standardisé de NIST indiqué à la section 2 par une chaîne de comparaison ininterrompue. De plus, les balances utilisées sont étalonnées régulièrement en utilisant des poids qui sont traçables au NIST (National Institute of Standards and Technology) ou au CRNC (Conseil National de Recherches Canada). Tout conductimètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et étalons traçables au NIST ou au CNRC. Tout pH mètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et un simulateur pH/MV traçables au NIST ou au CNRC.*

10.0 PREPARATION / PRÉPARATION:

For the preparation of these solutions, 18 megohm/cm double deionized water, high-purity acids and glassware calibrated to ASTM Class A specifications are used. / *Une eau de 18 megohm/cm doublement déionisé, de l'acide de haute pureté, ainsi que de la verrerie étalonnée afin de satisfaire les spécifications Classe A de ASTM ont été utilisés pour la préparation de cet étalon.*

11.0 QUALITY SYSTEM CERTIFICATIONS / CERTIFICATIONS DE SYSTÈME QUALITÉ:

ISO 9001 Certification / Certification ISO 9001: This standard was produced in a facility which operates under a registered ISO 9001 Quality Management System. Please consult our web site for a copy of the most recent revision of our certificate of registration. / *Cet étalon a été fabriqué dans un laboratoire qui utilise un Système de Gestion de la Qualité enregistré à la norme ISO 9001. Veuillez consulter notre site web pour obtenir la version la plus récente de notre certificat d'enregistrement.*

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ISO 17034 Accreditation / Accréditation ISO 17034 : SCP SCIENCE (Corporate Headquarters) is an ISO 17034 accredited Reference Material Producer. Please consult our website for a copy of our most recent certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est un Fabricant de Matériaux de Référence Accrédité ISO 17034. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

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Fax: +33 (0) 1 60 92 05 67

GERMANY
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Marktberdorf
Phone: +49 (0) 8342-89560-61
Fax: +49 (0) 8342-89560-69

Energy Laboratories Inc

Standard LOG

Standard ID: ME211229A AU 2ND SOURCE
Standard Name: Au 2nd source Stock
Date Prepared: 12/29/2021
Date Expires: 12/29/2022
Department: ME
Vendor: SCP Science
Lot Number: S211129013
Balance ID:
Comments: opened 12/29/2021; expires 12/29/2022

Type: Primary
BY: Amanda E. McDani
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------|----------|-----|-------|------------|
| ICP/ICPMS Standard Gold | 14710 | 500 | mL | 12/29/2022 |

Final Volume:
500 mL

Stock Source

Base Units

Amount Added

Analytes

CAS

Conc: **ug/mL**

ID #: 14710

Opened:

ICP/ICPMS Standard Gold

Expires: 12/31/2023

Rec'd: 12/29/2021

Eneray Laboratories Inc 1120 So. 27th Street

Billings MT 59107

SCP SCIENC

Providing Innovative Solutions to Analytical

Certificate of Analysis**Au****1.0 DESCRIPTION:****PlasmaCAL ICP/ICPMS Standard - Gold 1000 µg/ml**

Catalogue Number: 140-052-790/-791/-795

Starting Material: Gold Metal 99.99+%

Lot Number: **S211129013**

Matrix: 10% HCl (See Section 3 for actual matrix)

Expiration Date (End of month): **December 2023** (or 15 months after bottle is opened, whichever comes first)**2.0 CERTIFIED VALUES AND ASSOCIATED UNCERTAINTY:**Certified Concentration: **1001 µg/ml +/- 4 µg/ml****982 µg/g +/- 4 µg/g**

Method of analysis: Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES)

Traceability: NIST Standard Reference Material 3121 Lot: **991806**

Note: The uncertainty of the certified value has been calculated from applicable uncertainty contributors (u_i) including uncertainty established during characterization of the material (u_{char}), the between bottle variation (u_{bb}), short-term stability (u_{sts}) and long-term stability (u_{lts}) according to the model $u_c = \sqrt{(u_{char}^2 + u_{bb}^2 + u_{sts}^2 + u_{lts}^2)}$. This combined uncertainty has been further multiplied by a coverage factor (k) of 2 to provide a 95% confidence interval.

3.0 REFERENCE VALUES:Density: **1.019 g/ml @ 22.4 °C**Actual Matrix: **10.0% (v/v) HCl**

Trace Metal Impurities as tested by ICP-MS:

| Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) |
|---------|---------------|---------|---------------|---------|---------------|---------|-------------|
| Ag | 0.3851 | Fe | <0.0090 | Nd | <0.0010 | Sn | <0.0010 |
| Al | 0.0062 | Ga | <0.0010 | Ni | <0.0010 | Sr | <0.0025 |
| As | <0.0010 | Gd | <0.0010 | Os | <0.0010 | Ta | <0.0010 |
| Au | N/A | Ge | <0.0010 | P | <0.0132 | Tb | <0.0010 |
| B | <0.0015 | Hf | <0.0010 | Pb | <0.0010 | Te | <0.0010 |
| Ba | <0.0010 | Hg | * | Pd | 0.0434 | Th | <0.0010 |
| Be | <0.0010 | Ho | <0.0010 | Pr | <0.0010 | Ti | <0.0012 |
| Bi | <0.0010 | In | <0.0010 | Pt | 0.0048 | Tl | <0.0011 |
| Ca | <0.0135 | Ir | <0.0010 | Rb | <0.0010 | Tm | <0.0010 |
| Cd | <0.0010 | K | 0.0362 | Re | <0.0010 | U | <0.0010 |
| Ce | <0.0010 | La | <0.0010 | Rh | <0.0010 | V | <0.0010 |
| Co | <0.0010 | Li | <0.0010 | Ru | <0.0010 | W | <0.0020 |
| Cr | <0.0010 | Lu | <0.0010 | S | * | Y | <0.0010 |
| Cs | 0.0029 | Mg | <0.0010 | Sb | <0.0010 | Yb | <0.0010 |
| Cu | 0.0023 | Mn | <0.0010 | Sc | <0.0010 | Zn | <0.0010 |
| Dy | <0.0010 | Mo | <0.0010 | Se | <0.01 | Zr | <0.0010 |
| Er | <0.0010 | Na | 0.0070 | Si | <0.1 | | |
| Eu | <0.0010 | Nb | <0.0010 | Sm | <0.0010 | | |

*: Not tested

4.0 APPROVAL AND DATE OF CERTIFICATION:

Certification Approval: Daniel Boisvert, Chemist

Certification Date: December 10, 2021

Daniel Boisvert

5.0 INTENDED USE / UTILISATION PRÉVUE:

- ICP Standards: For the calibration of, including but not limited to: ICP-AES, ICP-MS, FAAS, GFAA, XRF and DCP. / *Étalons ICP* : Pour l'étalonnage d'instruments de mesure tels que: ICP-AES, ICP-MS, FAAS, GFAA, XRF et DCP.
 - AA Standards: For the calibration of Flame (FAAS) and Graphite Furnace (GFAA) Atomic Absorption Spectrometers. / *Étalons AA* : Pour l'étalonnage de spectromètres d'absorption atomique flamme (GFAA) et four au graphite (GFAA).
 - Matrix Modifiers: For the optimization of analytical conditions to provide better Graphite Furnace Atomic Absorption (GFAA) instrument response and improved detection limits. / *Modificateur de matrice* : Pour l'optimisation des conditions analytiques afin de fournir des meilleures réponses instrumentales et limites de détection pour SAA four au graphite.
 - pH Standards: For the calibrating pH meters or for other wet chemistry applications. / *Étalons pH* : Pour étalonnage de pH mètres et autres applications de chimie humide.
 - Conductivity Standards: For electrolytic conductivity measurement as a calibration standard. / *Étalons de conductivité* : Comme étalon pour les mesures de conductivité électrolytiques.
 - IC Standards: for calibration of, but not limited to IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS or other wet chemistry applications. / *Étalons IC* : Pour étalonnage d'instruments tels que : IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS et autres applications de chimie humide.
 For any inquiries, please contact **SCP SCIENCE**. / *Pour toute question, veuillez contacter SCP SCIENCE.*

6.0 INSTRUCTIONS FOR USE / INSTRUCTIONS D'UTILISATION:

Handling and Storage / Manutention et entreposage: Keep product tightly capped when not in use. The solution should be opened for a minimum amount of time necessary to dispense the amount required. Do not pipet or use directly from container. Do not return unused portions back to container. Store under normal laboratory conditions. Avoid exposure to excessive sources of heat and humidity or direct sunlight. / *Garder les contenants bien fermés lorsque non utilisés. Le contenant devrait être ouvert seulement pour le temps requis afin de prélever la quantité nécessaire. Ne pas pipetter ou utiliser directement du contenant. Ne pas retourner les portions non-utilisées dans le contenant. Conserver dans des conditions normales de laboratoire. Éviter l'exposition à des sources de chaleur et d'humidité excessives ou à l'exposition solaire directe.*

Stability / Stabilité: This Standard is guaranteed to be stable and accurate to within the specified uncertainty of measurement up to the unopened expiry date, if sealed, or up to the opened expiry date (when indicated), whichever comes first, provided the solution is kept tightly capped and stored under the indicated storage conditions. Purchasers will be notified of any significant changes resulting in re-certification or withdrawal of the product prior to the expiration date. / *La stabilité et l'exactitude de cet étalon sont garanties d'être à l'intérieur de l'incertitude de mesure, jusqu'à la date d'expiration de la bouteille non-ouverte, si scellée, ou jusqu'à la date d'expiration de la bouteille ouverte (si indiquée), en présumant que le contenant est maintenu fermé et gardé dans les conditions d'entreposage indiquées. Les acheteurs seront avisés dans le cas où il y aura des changements significatifs nécessitant une re-certification ou un rappel du produit avant la date d'expiration.*

7.0 HAZARDOUS INFORMATION / INFORMATION SUR LES RISQUES POTENTIELS:

Please refer to the associated Safety Data Sheet (SDS) for information regarding this product (available at www.SCPSCIENCE.com). / *SVP vous référer à la Fiche Signalétique applicable pour de l'information sur ce produit (Disponible à www.SCPSCIENCE.com).*

8.0 HOMOGENEITY / HOMOGÉNÉITÉ:

This solution has been blended according to an in-house procedure and its homogeneity is guaranteed to be fit for purpose when a sample size sufficient for the intended method of analysis is used. / *Cette solution a été préparée selon une procédure maison et nous assurons que sa homogénéité est approprié à l'emploi lorsqu'un échantillon suffisant pour la méthode d'analyse prévue est utilisé.*

9.0 TRACEABILITY / TRAÇABILITÉ:

This CRM (Certified Reference Material) is traceable to the NIST SRM (Standard Reference Material) indicated in section 2 through an unbroken chain of comparisons. In addition, balances used are regularly calibrated using weights which are traceable to NIST (National Institute of Standards and Technology) or NRC (National Research Council of Canada) standards. All conductivity meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable Thermometer and standards. All pH meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable thermometer and pH/MV simulator. / *Ce matériel de référence certifié est traçable au Matériel de Référence Standardisé de NIST indiqué à la section 2 par une chaîne de comparaison ininterrompue. De plus, les balances utilisées sont étalonnées régulièrement en utilisant des poids qui sont traçables au NIST (National Institute of Standards and Technology) ou au CRNC (Conseil National de Recherches Canada). Tout conductimètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et étalons traçables au NIST ou CNRC. Tout pH mètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et un simulateur pH/MV traçables au NIST ou au CNRC.*

10.0 PREPARATION / PRÉPARATION:

For the preparation of these solutions, 18 megohm/cm double deionized water, high-purity acids and glassware calibrated to ASTM Class A specifications are used. / *Une eau de 18 megohm/cm doublement déionisée, de l'acide de haute pureté, ainsi que de la verrerie étalonnée afin de satisfaire les spécifications Classe A de ASTM ont été utilisés pour la préparation de cet étalon.*

11.0 QUALITY SYSTEM CERTIFICATIONS / CERTIFICATIONS DE SYSTÈME QUALITÉ:

ISO 9001 Certification / Certification ISO 9001: This standard was produced in a facility which operates under a registered ISO 9001 Quality Management System. Please consult our web site for a copy of the most recent revision of our certificate of registration. / *Cet étalon a été fabriqué dans un laboratoire qui utilise un Système de Gestion de la Qualité enregistré à la norme ISO 9001. Veuillez consulter notre site web pour obtenir la version la plus récente de notre certificat d'enregistrement.*

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Fax: +33 (0) 1 60 92 05 67

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Alte Marktoberdorfer Straße 14, 87616
Marktoberdorf
Phone: +49 (0) 8342-89560-61
Fax: +49 (0) 8342-89560-69

Energy Laboratories Inc

Standard LOG

Standard ID: ME211025A
Standard Name: Te Stock
Date Prepared: 10/25/2021
Date Expires: 10/25/2022
Department: ME
Vendor: SCP Science
Lot Number: S200130018
Balance ID:
Comments: Opened 10/25/2021; Expires 10/25/2022

Type: Primary
BY: Stacy R. Hendricks
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Exp |
|------------------------------|----------|-----|-------|-------|
| ICP/ICPMS Standard Tellurium | 14418 | 500 | mL | 10/25 |

Final Volume: 500 mL

Stock Source

Base Units

Amount Added

Analyses

CAS

Conc: **ug/mL**

Te

1.0 DESCRIPTION: *PlasmaCAL ICP/ICPMS Standard - Tellurium 1000 µg/ml*
 Catalogue Number: 140-051-520/-521/-525
 Starting Material: Tellurium Metal 99.99+%
 Lot Number: **S210615004**
 Matrix: 10% HNO₃ (See Section 3 for actual matrix)
 Expiration Date (End of month): **June 2023** (or 15 months after bottle is opened, whichever comes first)

2.0 CERTIFIED VALUES AND ASSOCIATED UNCERTAINTY:
 Certified Concentration: **1005 µg/ml +/- 5 µg/ml**
958 µg/g +/- 5 µg/g
 Method of analysis: Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES)
 Traceability: NIST Standard Reference Material 3156 Lot: **140830**

Note: The uncertainty of the certified value has been calculated from applicable uncertainty contributors (u_i) including uncertainty established during characterization of the material (u_{char}), the between bottle variation (u_{bb}), short-term stability (u_{sts}) and long-term stability (u_{lts}) according to the model $u_c = \sqrt{(u_{char}^2 + u_{bb}^2 + u_{sts}^2 + u_{lts}^2)}$. This combined uncertainty has been further multiplied by a coverage factor (k) of 2 to provide a 95% confidence interval.

3.0 REFERENCE VALUES:
 Density: **1.049 g/ml @ 25.5 °C**
 Actual Matrix: **10.0% (v/v) HNO₃**

ID #: 14418
 Opened: _____
 ICP/ICPMS Standard Tellurium
Expires: 6/30/2023
 Rec'd: 10/20/2021
 Energy Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

Trace Metal Impurities as tested by ICP-AES:

| Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) |
|---------|-------------|---------|---------------|---------|---------------|---------|-------------|
| Ag | <0.0010 | Fe | <0.0018 | Nd | 0.0449 | Sn | <0.0010 |
| Al | <0.0010 | Ga | <0.0010 | Ni | <0.0010 | Sr | <0.0025 |
| As | <0.0010 | Gd | <0.0010 | Os | <0.0010 | Ta | <0.0010 |
| Au | <0.0010 | Ge | <0.0010 | P | 0.0184 | Tb | <0.0010 |
| B | <0.0015 | Hf | <0.0010 | Pb | <0.0010 | Te | N/A |
| Ba | <0.0010 | Hg | * | Pd | <0.0010 | Th | <0.0010 |
| Be | <0.0010 | Ho | <0.0010 | Pr | 0.0028 | Ti | <0.0012 |
| Bi | <0.0010 | In | 0.0020 | Pt | <0.0010 | Tl | <0.0011 |
| Ca | <0.0135 | Ir | <0.0010 | Rb | <0.0010 | Tm | <0.0010 |
| Cd | <0.0010 | K | <0.0024 | Re | <0.0010 | U | <0.0010 |
| Ce | <0.0010 | La | <0.0010 | Rh | <0.0010 | V | <0.0010 |
| Co | <0.0010 | Li | <0.0010 | Ru | <0.0010 | W | <0.0020 |
| Cr | <0.0010 | Lu | <0.0010 | S | * | Y | <0.0010 |
| Cs | <0.0010 | Mg | <0.0020 | Sb | <0.0010 | Yb | <0.0010 |
| Cu | <0.0010 | Mn | <0.0010 | Sc | <0.0010 | Zn | <0.0010 |
| Dy | <0.0010 | Mo | <0.0010 | Se | <0.1 | Zr | <0.0010 |
| Er | <0.0010 | Na | <0.0025 | Si | <0.1 | | |
| Eu | <0.0010 | Nb | <0.0010 | Sm | <0.0010 | | |

*: Not tested

4.0 APPROVAL AND DATE OF CERTIFICATION:
 Certification Approval: Daniel Boisvert, Chemist
 Certification Date: June 30, 2021

Daniel Boisvert

5.0 INTENDED USE / UTILISATION PRÉVUE:

- ICP Standards: For the calibration of, including but not limited to: ICP-AES, ICP-MS, FAAS, GFAA, XRF and DCP. / Étalons ICP : Pour l'étalonnage de instruments de mesure tels que: ICP-AES, ICP-MS, FAAS, GFAA, XRF et DCP.
 - AA Standards: For the calibration of Flame (FAAS) and Graphite Furnace (GFAA) Atomic Absorption Spectrometers. / Étalons AA : Pour l'étalonnage de spectromètres d'absorption atomique flamme (FAAS) et four au graphite (GFAA).
 - Matrix Modifiers: For the optimization of analytical conditions to provide better Graphite Furnace Atomic Absorption (GFAA) instrument response and improved detection limits. / Modificateur de matrice : Pour l'optimisation des conditions analytiques afin de fournir des meilleurs réponses instrumentales et limites de détection pour SAA four au graphite.
 - pH Standards: For the calibrating pH meters or for other wet chemistry applications. / Étalons pH : Pour étalonnage de pH mètres et autres applications de chimie humide.
 - Conductivity Standards: For electrolytic conductivity measurement as a calibration standard. / Étalons de conductivité : Comme étalon pour les mesures de conductivité électrolytiques.
 - IC Standards: For calibration of, but not limited to IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS or other wet chemistry applications. / Étalons IC : Pour étalonnage d'instruments tels que : IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS et autres applications de chimie humide.
- For any inquiries, please contact **SCP SCIENCE**. / Pour toute question, veuillez contacter **SCP SCIENCE**.

6.0 INSTRUCTIONS FOR USE / INSTRUCTIONS D'UTILISATION:

Handling and Storage / Manutention et entreposage: Keep product tightly capped when not in use. The solution should be opened for a minimum amount of time necessary to dispense the amount required. Do not pipet or use directly from container. Do not return unused portions back to container. Store under normal laboratory conditions. Avoid exposure to excessive sources of heat and humidity or direct sunlight. / Garder les contenants bien fermés lorsque non utilisés. Le contenant devrait être ouvert seulement pour le temps requis afin de prélever la quantité nécessaire. Ne pas pipetter ou utiliser directement du contenant. Ne pas retourner les portions non-utilisées dans le contenant. Conserver dans des conditions normales de laboratoire. Éviter l'exposition à des sources de chaleur et d'humidité excessives ou à l'exposition solaire directe.

Stability / Stabilité: This Standard is guaranteed to be stable and accurate to within the specified uncertainty of measurement up to the unopened expiry date, if sealed, or up to the opened expiry date (when indicated), whichever comes first, provided the solution is kept tightly capped and stored under the indicated storage conditions. Purchasers will be notified of any significant changes resulting in re-certification or withdrawal of the product prior to the expiration date. / La stabilité et l'exactitude de cet étalon sont garanties d'être à l'intérieur de l'incertitude de mesure, jusqu'à la date d'expiration de la bouteille non-ouverte, si scellée, ou jusqu'à la date d'expiration de la bouteille ouverte (si indiquée), en presumant que le contenant est maintenu fermé et gardé dans les conditions d'entreposage indiquées. Les acheteurs seront avisés dans le cas où il y aura des changements significatifs nécessitant une re-certification ou un rappel du produit avant la date d'expiration.

7.0 HAZARDOUS INFORMATION / INFORMATION SUR LES RISQUES POTENTIELS:

Please refer to the associated Safety Data Sheet (SDS) for information regarding this product (available at www.SCPSCIENCE.com). / SVP vous référer à la Fiche Signalétique applicable pour de l'information sur ce produit (Disponible à www.SCPSCIENCE.com).

8.0 HOMOGENEITY / HOMOGÉNÉITÉ:

This solution has been blended according to an in-house procedure and its homogeneity is guaranteed to be fit for purpose when a sample size sufficient for the intended method of analysis is used. / Cette solution a été préparée selon une procédure maison et nous assurons que sa homogénéité est approprié à l'emploi lorsqu'un échantillon suffisant pour la méthode d'analyse prévue est utilisé.

9.0 TRACEABILITY / TRAÇABILITÉ:

This CRM (Certified Reference Material) is traceable to the NIST SRM (Standard Reference Material) indicated in section 2 through an unbroken chain of comparisons. In addition, balances used are regularly calibrated using weights which are traceable to NIST (National Institute of Standards and Technology) or NRC (National Research Council of Canada) standards. All conductivity meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable thermometer and standards. All pH meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable thermometer and pH/MV simulator. / Ce matériel de référence certifié est traçable au Matériel de Référence Standardisé de NIST indiqué à la section 2 par une chaîne de comparaison ininterrompue. De plus, les balances utilisées sont étalonnées régulièrement en utilisant des poids qui sont traçables au NIST (National Institute of Standards and Technology) ou au CRNC (Conseil National de Recherches Canada). Tout conductimètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et étalons traçables au NIST ou CNRC. Tout pH mètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et un simulateur pH/MV traçables au NIST ou au CNRC.

10.0 PREPARATION / PRÉPARATION:

For the preparation of these solutions, 18 megohm/cm double deionized water, high-purity acids and glassware calibrated to ASTM Class A specifications are used. / Une eau de 18 megohm/cm doublement déionisé, de l'acide de haute pureté, ainsi que de la verrerie étalonnée afin de satisfaire les spécifications Classe A de ASTM ont été utilisés pour la préparation de cet étalon.

11.0 QUALITY SYSTEM CERTIFICATIONS / CERTIFICATIONS DE SYSTÈME QUALITÉ:

ISO 9001 Certification / Certification ISO 9001: This standard was produced in a facility which operates under a registered ISO 9001 Quality Management System. Please consult our web site for a copy of the most recent revision of our certificate of registration. / Cet étalon a été fabriqué dans un laboratoire qui utilise un Système de Gestion de la Qualité enregistré à la norme ISO 9001. Veuillez consulter notre site web pour obtenir la version la plus récente de notre certificat d'enregistrement.

ISO 17025 Accreditation / Accréditation ISO 17025: SCP SCIENCE (Corporate Headquarters) operates an ISO 17025 accredited laboratory. Please consult our web site for a copy of the most recent revision of our certificate and scope of accreditation. / SCP SCIENCE (Siège social) est accréditée ISO 17025. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.

ISO 17034 Accreditation / Accréditation ISO 17034: SCP SCIENCE (Corporate Headquarters) is an ISO 17034 accredited Reference Material Producer. Please consult our website for a copy of our most recent certificate and scope of accreditation. / SCP SCIENCE (Siège social) est un Fabricant de Matériaux de Référence Accrédité ISO 17034. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.

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Marktberdorf
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Energy Laboratories Inc

Standard LOG

Standard ID: ME220114A TUNE SOLUTION
Standard Name: Tune Solution
Date Prepared: 1/14/2022
Date Expires: 12/7/2022
Department: ME
Vendor:
Lot Number:
Balance ID:

Type: Secondary
BY: Stacy R. Hendricks
Status: Open

Comments: All elements except Be at 10 ppb. Be is spiked at 210 ppb.

| Chemical / Solvent Used | BottleNo | Amt | Units | Exp |
|--------------------------------------|----------|-----|-------|-------|
| Nitric Acid, 69.0-70.0%,0000282671 | 14178 | 5 | mL | 4/11/ |
| Milli-Q H2O | 391 | 493 | mL | 6/1/2 |
| Multi Analyte Custom Grade Solution | 13795 | 0.5 | mL | 12/7/ |
| Beryllium Single Analyte Custom Grad | 14679 | 0.2 | mL | 9/17/ |

Final Volume: 500 mL

Stock Source

ME220114 TUNE S Tune Solution Stock

Base Units

ug/mL

Amount Added

1 mL

Analvtes

CAS

Conc: ug/mL

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).


2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
 Catalog Number: 2008TS
 Lot Number: R2-MEB691898
 Matrix: 3% (v/v) HNO₃
 Value / Analyte(s): 10 µg/mL ea:
 Beryllium, Cobalt,
 Indium, Magnesium,
 Lead

ID #: 13795

Opened: _____

Multi Analyte Custom Grade Solution

Expires: 4/8/2024

Rec'd: 4/29/2021

 Energy Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|---------------|--------------------|------------|--------------------|
| Beryllium, Be | 10.01 ± 0.06 µg/mL | Cobalt, Co | 10.01 ± 0.04 µg/mL |
| Indium, In | 10.01 ± 0.04 µg/mL | Lead, Pb | 10.01 ± 0.04 µg/mL |
| Magnesium, Mg | 10.01 ± 0.05 µg/mL | | |

Density: 1.014 g/mL (measured at 20 ± 4 °C)

Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---------|------------|-------------------|--------------|
| Be | ICP Assay | 3105a | 090514 |
| Co | EDTA | 928 | 928 |
| Co | ICP Assay | traceable to 3113 | M2-CO661665 |
| Co | Calculated | | See Sec. 4.2 |
| In | ICP Assay | 3124a | 110516 |
| In | EDTA | 928 | 928 |
| In | Calculated | | See Sec. 4.2 |
| Mg | ICP Assay | 3131a | 140110 |
| Mg | EDTA | 928 | 928 |
| Mg | Calculated | | See Sec. 4.2 |
| Pb | ICP Assay | 3128 | 101026 |
| Pb | EDTA | 928 | 928 |
| Pb | 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, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum(1/u_{\text{char } i}^2))$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{ITS}}^2 + u_{\text{TS}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = [\sum((w_i)^2 (u_{\text{char } i}^2))]^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ITS} = long term stability standard uncertainty (storage)

u_{TS} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{ITS}}^2 + u_{\text{TS}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{ITS} = 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 ($\mu\text{g/mL}$)

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 $4^\circ - 30^\circ \text{C}$ 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 $4^\circ - 24^\circ \text{C}$ to minimize the effects of transpiration. Use at $20^\circ \pm 4^\circ \text{C}$ 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

April 08, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 08, 2024**

- 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
Manager, Quality Control



Certifying Officer:

Paul Gaines
CEO, Senior Technical Director



300 Technology Drive
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 inorganicventures.com

 P: 800-669-6799/540-585-3030
 F: 540-585-3012
 info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
 Catalog Number: CGBE1
 Lot Number: S2-BE708103
 Matrix: 3% (v/v) HNO₃
 Value / Analyte(s): 1 000 µg/mL ea:
 Beryllium
 Starting Material: Beryllium Acetate
 Starting Material Lot#: 2354
 Starting Material Purity: 99.9997%

ID #: 14679

 Opened: _____
 Beryllium Single Analyte Custom Grade Solut
Expires: 9/17/2026
 Rec'd: 12/28/2021
 Energy Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL
Density: 1.020 g/mL (measured at 20 ± 4 °C)

Assay Information:

| | |
|------------------------|---|
| Assay Method #1 | 1003 ± 5 µg/mL ICP Assay NIST SRM 3105a Lot Number: 090514 |
| Assay Method #2 | 1002 ± 6 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

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:

$$w_i = (1/u_{char i})^2 / (\sum(1/(u_{char i})^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (z) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = (\sum((w_i)^2 (u_{char i})^2))^{1/2}$ 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

$$CRM/RM \text{ Expanded Uncertainty } (z) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

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 < 0.000940 | M Eu < 0.000240 | O Na 0.003944 | M Se < 0.018000 | O Zn 0.001126 |
| M Al 0.005019 | O Fe 0.001024 | M Nb < 0.000240 | O Si 0.021513 | M Zr < 0.000470 |
| M As < 0.005500 | M Ga < 0.000710 | M Ni < 0.000240 | M Sm < 0.000240 | |
| M Au < 0.000240 | M Gd < 0.000240 | M Ni <i>SSN/2</i> < 0.004700 | M Sn < 0.003300 | |
| M B < 0.045000 | M Ge < 0.003100 | M Os <i>SSN/2</i> < 0.000240 | M Sr < 0.001900 | |
| M Ba < 0.001900 | M Hf < 0.000240 | O P < 0.130000 | M Ta < 0.000240 | |
| s Be < 0.003300 | M Hg < 0.000470 | M Pb < 0.000470 | M Tb < 0.000240 | |
| M Bi < 0.003300 | M Ho < 0.000240 | M Pd < 0.000470 | M Te < 0.009700 | |
| O Ca 0.002919 | M In < 0.001900 | M Pr < 0.000240 | M Th < 0.000240 | |
| M Cd < 0.000470 | M Ir < 0.000240 | M Pt < 0.000240 | O Ti < 0.003600 | |
| M Ce < 0.000240 | M K 0.004968 | M Rb < 0.001500 | M Tl < 0.000240 | |
| O Co < 0.002100 | M La < 0.000240 | M Re < 0.000240 | M Tm < 0.000240 | |
| O Cr < 0.002100 | M Li < 0.002200 | M Rh < 0.000240 | M U < 0.000240 | |
| M Cs 0.000133 | M Lu < 0.000240 | M Ru < 0.000710 | M V < 0.001500 | |
| O Cu < 0.013000 | O Mg 0.000819 | i S < 0.000940 | M W < 0.001700 | |
| M Dy < 0.000240 | O Mn < 0.001900 | M Sb < 0.000940 | M Y < 0.000940 | |
| M Er < 0.000240 | M Mo < 0.001700 | M Sc < 0.003600 | M Yb < 0.000240 | |

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 - 9.01 ; +2 ; 4 ; Be(H₂O)₄+2

Chemical Compatibility -Soluble in HCl, HNO₃, H₂SO₄ and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1 % HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 5-10 % HNO₃ / LDPE container.

Be Containing Samples (Preparation and Solution) - Meta l(is best dissolved in diluted H₂SO₄); BeO (boiling nitric, hydrochloric, or sulfuric acids or KHSO₄ fusion); Ores (H₂SO₄/HF digestion or carbonate fusion in Pt0); Organic Matrices (sulfuric/peroxide digestion or nitric/sulfuric/perchloric acid decomposition, or dry ash and dissolution according to the BeO procedure above).

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 9 amu | 4 ppt | N/A | |
| ICP-OES 234.861 nm | 0.0003/0.00016 µg/mL | 1 | Fe, Ta, Mo |
| ICP-OES 313.042 nm | 0.0003/0.00009 µg/mL | 1 | V, Ce, U |
| ICP-OES 313.107 nm | 0.0007/0.0005 µg/mL | 1 | Ce, Th, Tm |

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 17, 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 17, 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



Energy Laboratories Inc

Standard LOG

Standard ID: ME220114 TUNE STOCK
 Standard Name: Tune Solution Stock Type: Secondary
 Date Prepared: 1/14/2022 BY: Stacy R. Hendricks
 Date Expires: 12/22/2022
 Department: ME Status: Open
 Vendor:
 Lot Number:
 Balance ID:
 Comments: Solution is 1% HNO3 preserved

| Chemical / Solvent Used | BottleNo | Amt | Units | Exp |
|---------------------------------------|----------|--------|-------|-------|
| Nitric Acid Instra Analyzed 000026478 | 13061 | 5 | mL | 5/12/ |
| Milli-Q H2O | 391 | 482.25 | mL | 6/1/2 |
| Yittrium Single Analyte Custom Grade | 14210 | 2.5 | mL | 1/25/ |
| Cerium PlasmaCal Standard | 14327 | 2.5 | mL | 12/22 |
| Cobalt Single Analyte Custom Grade S | 14683 | 2.5 | mL | 3/22/ |
| Lithium Single Analyte Custom Grade | 14687 | 2.5 | mL | 2/11/ |
| Magnesium Single Analyte Custom Gr | 14688 | 0.25 | mL | 4/23/ |
| Thallium Single Analyte Custom Grade | 14693 | 2.5 | mL | 8/5/2 |

Final Volume: 500 mL

Stock Source

Base Units

Amount Added

Analvtes

CAS

Conc: **ug/mL**

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

**2.0 PRODUCT DESCRIPTION**

Product Code: Single Analyte Custom Grade Solution
Catalog Number: CGY1
Lot Number: S2-Y700840
Matrix: 2% (v/v) HNO₃
Value / Analyte(s): 1 000 µg/mL ea:
Yttrium
Starting Material: Yttrium Oxide
Starting Material Lot#: 623052
Starting Material Purity: 99.9991%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1000 ± 4 µg/mL
Density: 1.011 g/mL (measured at 20 ± 4 °C)

Assay Information:

| | |
|------------------------|---|
| Assay Method #1 | 999 ± 3 µg/mL EDTA NIST SRM 928 Lot Number: 928 |
| Assay Method #2 | 1000 ± 5 µg/mL ICP Assay NIST SRM 3167a Lot Number: 120314 |
| Assay Method #3 | 1001 ± 3 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

ID #: 14210

Opened: _____

Yttrium Single Analyte Custom Grade Solution

Expires: 1/25/2025

Rec'd: 8/27/2021

Eneray Laboratories Inc 1120 So. 27th Street
Billings MT 59107

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:

$$X_{CRM/RM} = \sum(w_i) (X_i)$$

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:
 $w_i = (1/u_{char i}^2) / (\sum(1/(u_{char i}^2)))$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2
 $u_{char} = [\sum((w_i)^2 (u_{char i}^2))]^{1/2}$ where $u_{char i}$ are the errors from each characterization method
 u_{bb} = bottle to bottle homogeneity standard uncertainty
 u_{Its} = 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

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2
 $u_{char a}$ = the errors from characterization
 u_{bb} = bottle to bottle homogeneity standard uncertainty
 u_{Its} = 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 < 0.038000 | M Eu < 0.002235 | O Na < 0.060000 | M Se < 0.027000 | O Zn < 0.002642 |
| O Al < 0.016000 | O Fe < 0.000193 | M Nb < 0.000570 | O Si < 0.003658 | O Zr < 0.012000 |
| M As < 0.002300 | M Ga < 0.000570 | M Nd < 0.000570 | M Sm < 0.000570 | |
| M Au < 0.008000 | M Gd < 0.000570 | M Ni < 0.004600 | M Sn < 0.001800 | |
| O B < 0.022000 | M Ge < 0.001200 | M Os < 0.000570 | O Sr < 0.003100 | |
| M Ba < 0.001200 | M Hf < 0.000570 | n P < | M Ta < 0.000570 | |
| O Be < 0.002900 | M Hg < 0.002900 | M Pb < 0.000833 | M Tb < 0.000570 | |
| M Bi < 0.005600 | M Ho < 0.001524 | i Pd < | M Te < 0.006900 | |
| O Ca < 0.000304 | M In < 0.002500 | M Pr < 0.000570 | M Th < 0.000570 | |
| M Cd < 0.000570 | M Ir < 0.000570 | M Pt < 0.000570 | M Ti < 0.005700 | |
| M Ce < 0.000570 | O K < 0.001117 | M Rb < 0.001400 | M Tl < 0.000570 | |
| M Co < 0.000570 | M La < 0.000570 | M Re < 0.000570 | M Tm < 0.001200 | |
| M Cr < 0.003500 | O Li < 0.004200 | M Rh < 0.011000 | M U < 0.000570 | |
| M Cs < 0.005700 | M Lu < 0.000570 | M Ru < 0.000570 | O V < 0.013000 | |
| M Cu < 0.000365 | O Mg < 0.000223 | n S < | M W < 0.006900 | |
| M Dy < 0.000508 | O Mn < 0.001400 | M Sb < 0.000365 | s Y < | |
| M Er < 0.000197 | M Mo < 0.006200 | O Sc < 0.011000 | M Yb < 0.003500 | |

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 - 88.91 +3 6 Y(OH)(H₂O)_{x+2}

Chemical Compatibility -Soluble in HCl, H₂SO₄ and HNO₃. Avoid HF, H₃PO₄ and neutral to basic media.

Stable with most metals and inorganic anions forming an insoluble carbonate, oxide, oxalate, and fluoride.

Avoid mixing with elements / solutions containing moderate amounts of fluoride.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO₃ / LDPE container.

Y Containing Samples (Preparation and Solution) - Metal (Soluble in acids); Oxide (Dissolve by heating in H₂O/ HNO₃); Ores (Carbonate fusion in PtO followed by HCl dissolution); Organic Matrices (Dry ash and dissolve in 1:1 H₂O / HCl or HNO₃).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|--------------------|------------------------|-------|---|
| ICP-MS 89 amu | 0.8 ppt | N/A | <u>73Ge16O</u> , <u>178Hf+2</u> |
| ICP-OES 360.073 nm | 0.005 / 0.000036 µg/mL | 1 | Ce, Th |
| ICP-OES 371.030 nm | 0.004 / 0.00007 µg/mL | 1 | Ce |
| ICP-OES 377.433 nm | 0.005 / 0.0009 µg/mL | 1 | Ta, Th |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 25, 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

- **January 25, 2025**

- 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



Ce

1.0 DESCRIPTION: **PlasmaCAL ICP/ICPMS Standard - Cerium 1000 µg/ml**
 Catalogue Number: 140-051-580/-581/-585
 Starting Material: Cerium(III) Nitrate Hexahydrate 99.99+%
 Lot Number: **S210208003**
 Matrix: 4% HNO₃ (See Section 3 for actual matrix)
 Expiration Date (End of month): **February 2023** (or 15 months after bottle is opened, whichever comes first)

2.0 CERTIFIED VALUES AND ASSOCIATED UNCERTAINTY:
 Certified Concentration: **1003 µg/ml +/- 4 µg/ml**
982 µg/g +/- 4 µg/g
 Method of analysis: Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES)
 Traceability: NIST Standard Reference Material 3110 Lot: **090504**

Note: The uncertainty of the certified value has been calculated from applicable uncertainty contributors (u_i) including uncertainty established during characterization of the material (u_{char}), the between bottle variation (u_{bb}), short-term stability (u_{sts}) and long-term stability (u_{lts}) according to the model $u_c = \sqrt{(u_{char}^2 + u_{bb}^2 + u_{sts}^2 + u_{lts}^2)}$. This combined uncertainty has been further multiplied by a coverage factor (k) of 2 to provide a 95% confidence interval.

3.0 REFERENCE VALUES:
 Density: **1.021 g/ml @ 22.5 °C**
 Actual Matrix: **4.0% (v/v) HNO₃**
 Trace Metal Impurities as tested by ICP-MS:

ID #: 14327
 Opened: _____
 Cerium PlasmaCal Standard
Expires: 2/28/2023
 Rec'd: 9/29/2021
 Energy Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

| Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) |
|---------|---------------|---------|---------------|---------|---------------|---------|-------------|
| Ag | <0.0010 | Fe | <0.0018 | Nd | 0.0102 | Sn | <0.0010 |
| Al | 0.0148 | Ga | 0.0526 | Ni | 0.0064 | Sr | <0.0025 |
| As | <0.0010 | Gd | <0.0010 | Os | <0.0010 | Ta | <0.0010 |
| Au | <0.0010 | Ge | <0.0010 | P | <0.0132 | Tb | <0.0010 |
| B | <0.0015 | Hf | <0.0010 | Pb | <0.0010 | Te | <0.0010 |
| Ba | <0.0010 | Hg | * | Pd | <0.0010 | Th | <0.0010 |
| Be | <0.0010 | Ho | <0.0010 | Pr | 0.0235 | Ti | <0.0012 |
| Bi | <0.0010 | In | <0.0010 | Pt | <0.0010 | Tl | <0.0011 |
| Ca | 0.0375 | Ir | <0.0010 | Rb | <0.0010 | Tm | <0.0010 |
| Cd | <0.0010 | K | <0.0024 | Re | <0.0010 | U | <0.0010 |
| Ce | N/A | La | <0.10 | Rh | <0.0010 | V | <0.0010 |
| Co | <0.0010 | Li | <0.0010 | Ru | <0.0010 | W | <0.0020 |
| Cr | <0.0010 | Lu | <0.0010 | S | * | Y | <0.0010 |
| Cs | <0.0010 | Mg | <0.0010 | Sb | <0.0010 | Yb | <0.0010 |
| Cu | 0.0121 | Mn | <0.0010 | Sc | <0.0010 | Zn | <0.0010 |
| Dy | <0.0010 | Mo | <0.0010 | Se | <0.0010 | Zr | <0.0010 |
| Er | <0.0010 | Na | <0.0010 | Si | <0.10 | | |
| Eu | 0.0035 | Nb | <0.0010 | Sm | <0.0010 | | |

*: Not tested

4.0 APPROVAL AND DATE OF CERTIFICATION:
 Certification Approval: Yaling Sui, Chemist
 Certification Date: February 22, 2021

Yaling Sui

5.0 INTENDED USE / UTILISATION PRÉVUE:

- ICP Standards: For the calibration of, including but not limited to: ICP-AES, ICP-MS, FAAS, GFAA, XRF and DCP. / *Étalons ICP : Pour l'étalonnage d'instruments de mesure tels que: ICP-AES, ICP-MS, FAAS, GFAA, XRF et DCP.*
 - AA Standards: For the calibration of Flame (FAAS) and Graphite Furnace (GFAA) Atomic Absorption Spectrometers. / *Étalons AA : Pour l'étalonnage de spectromètres d'absorption atomique flamme (FAAS) et four au graphite (GFAA).*
 - Matrix Modifiers: For the optimization of analytical conditions to provide better Graphite Furnace Atomic Absorption (GFAA) instrument response and improved detection limits. / *Modificateur de matrice : Pour l'optimisation des conditions analytiques afin de fournir des meilleurs réponses instrumentales et limites de détection pour SAA four au graphite.*
 - pH Standards: For the calibrating pH meters or for other wet chemistry applications. / *Étalons pH : Pour étalonnage de pH mètres et autres applications de chimie humide.*
 - Conductivity Standards: For electrolytic conductivity measurement as a calibration standard. / *Étalons de conductivité : Comme étalon pour les mesures de conductivité électrolytiques.*
 - IC Standards: for calibration of, but not limited to IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS or other wet chemistry applications. / *Étalons IC : Pour étalonnage d'instruments tels que : IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS et autres applications de chimie humide.*
- For any inquiries, please contact **SCP SCIENCE**. / *Pour toute question, veuillez contacter SCP SCIENCE.*

6.0 INSTRUCTIONS FOR USE / INSTRUCTIONS D'UTILISATION:

Handling and Storage / Manutention et entreposage: Keep product tightly capped when not in use. The solution should be opened for a minimum amount of time necessary to dispense the amount required. Do not pipet or use directly from container. Do not return unused portions back to container. Store under normal laboratory conditions. Avoid exposure to excessive sources of heat and humidity or direct sunlight. / *Garder les contenants bien fermés lorsque non utilisés. Le contenant devrait être ouvert seulement pour le temps requis afin de prélever la quantité nécessaire. Ne pas pipetter ou utiliser directement du contenant. Ne pas retourner les portions non-utilisées dans le contenant. Conserver dans des conditions normales de laboratoire. Éviter l'exposition à des sources de chaleur et d'humidité excessives ou à l'exposition solaire directe.*

Stability / Stabilité: This Standard is guaranteed to be stable and accurate to within the specified uncertainty of measurement up to the unopened expiry date, if sealed, or up to the opened expiry date (when indicated), whichever comes first, provided the solution is kept tightly capped and stored under the indicated storage conditions. Purchasers will be notified of any significant changes resulting in re-certification or withdrawal of the product prior to the expiration date. / *La stabilité et l'exactitude de cet étalon sont garanties d'être à l'intérieur de l'incertitude de mesure, jusqu'à la date d'expiration de la bouteille non-ouverte, si scellée, ou jusqu'à la date d'expiration de la bouteille ouverte (si indiquée), en présumant que le contenant est maintenu fermé et gardé dans les conditions d'entreposage indiquées. Les acheteurs seront avisés dans le cas où il y aura des changements significatifs nécessitant une re-certification ou un rappel du produit avant la date d'expiration.*

7.0 HAZARDOUS INFORMATION / INFORMATION SUR LES RISQUES POTENTIELS:

Please refer to the associated Safety Data Sheet (SDS) for information regarding this product (available at www.SCPSCIENCE.com). / *SVP vous référer à la Fiche Signalétique applicable pour de l'information sur ce produit (Disponible à www.SCPSCIENCE.com).*

8.0 HOMOGENEITY / HOMOGÉNÉITÉ:

This solution has been blended according to an in-house procedure and its homogeneity is guaranteed to be fit for purpose when a sample size sufficient for the intended method of analysis is used. / *Cette solution a été préparée selon une procédure maison et nous assurons que sa homogénéité est approprié à l'emploi lorsqu'un échantillon suffisant pour la méthode d'analyse prévue est utilisé.*

9.0 TRACEABILITY / TRAÇABILITÉ:

This CRM (Certified Reference Material) is traceable to the NIST SRM (Standard Reference Material) indicated in section 2 through an unbroken chain of comparisons. In addition, balances used are regularly calibrated using weights which are traceable to NIST (National Institute of Standards and Technology) or NRC (National Research Council of Canada) standards. All conductivity meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable Thermometer and standards. All pH meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable thermometer and pH/MV simulator. / *Ce matériel de référence certifié est traçable au Matériel de Référence Standardisé de NIST indiqué à la section 2 par une chaîne de comparaison ininterrompue. De plus, les balances utilisées sont étalonnées régulièrement en utilisant des poids qui sont traçables au NIST (National Institute of Standards and Technology) ou au CRNC (Conseil National de Recherches Canada). Tout conductimètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et étalons traçables au NIST ou CNRC. Tout pH mètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et un simulateur pH/MV traçables au NIST ou au CNRC.*

10.0 PREPARATION / PRÉPARATION:

For the preparation of these solutions, 18 megohm/cm double deionized water, high-purity acids and glassware calibrated to ASTM Class A specifications are used. / *Une eau de 18 megohm/cm doublement déionisé, de l'acide de haute pureté, ainsi que de la verrerie étalonnée afin de satisfaire les spécifications Classe A de ASTM ont été utilisés pour la préparation de cet étalon.*

11.0 QUALITY SYSTEM CERTIFICATIONS / CERTIFICATIONS DE SYSTÈME QUALITÉ:

ISO 9001 Certification / Certification ISO 9001: This standard was produced in a facility which operates under a registered ISO 9001 Quality Management System. Please consult our web site for a copy of the most recent revision of our certificate of registration. / *Cet étalon a été fabriqué dans un laboratoire qui utilise un Système de Gestion de la Qualité enregistré à la norme ISO 9001. Veuillez consulter notre site web pour obtenir la version la plus récente de notre certificat d'enregistrement.*

ISO 17025 Accreditation / Accréditation ISO 17025: SCP SCIENCE (Corporate Headquarters) operates an ISO 17025 accredited laboratory. Please consult our web site for a copy of the most recent revision of our certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est accréditée ISO 17025. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

ISO 17034 Accreditation / Accréditation ISO 17034: SCP SCIENCE (Corporate Headquarters) is an ISO 17034 accredited Reference Material Producer. Please consult our website for a copy of our most recent certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est un Fabricant de Matériaux de Référence Accrédité ISO 17034. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

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Alte Marktoberdorfer Straße 14, 87616
Marktoberdorf
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Fax: +49 (0) 8342-89560-69

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:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

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:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum((w_i)^2 (u_{char i}^2))]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = 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

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = 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 ($\mu\text{g/mL}$)

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 | < | 0.001515 | M | Eu | < | 0.000590 | O | Na | < | 0.000778 | M | Se | < | 0.019000 | M | Zn | < | 0.000357 |
| M | Al | < | 0.024000 | M | Fe | < | 0.005262 | M | Nb | < | 0.000590 | O | Si | < | 0.007789 | M | Zr | < | 0.001200 |
| i | As | < | | M | Ga | < | 0.000590 | M | Nd | < | 0.000590 | M | Sm | < | 0.000590 | | | | |
| M | Au | < | 0.004100 | M | Gd | < | 0.000590 | O | Ni | < | 0.044207 | M | Sn | < | 0.001200 | | | | |
| M | B | < | 0.031000 | M | Ge | < | 0.003000 | M | Os | < | 0.000590 | O | Sr | < | 0.000260 | | | | |
| M | Ba | < | 0.000590 | M | Hf | < | 0.000590 | n | P | < | | M | Ta | < | 0.001200 | | | | |
| O | Be | < | 0.001300 | M | Hg | < | 0.001800 | M | Pb | < | 0.000336 | M | Tb | < | 0.000590 | | | | |
| M | Bi | < | 0.003000 | M | Ho | < | 0.000590 | M | Pd | < | 0.000590 | M | Te | < | 0.005300 | | | | |
| O | Ca | < | 0.001094 | M | In | < | 0.001200 | M | Pr | < | 0.000590 | M | Th | < | 0.000590 | | | | |
| M | Cd | < | 0.004700 | M | Ir | < | 0.001200 | M | Pt | < | 0.002400 | M | Ti | < | 0.014000 | | | | |
| M | Ce | < | 0.000590 | O | K | < | 0.000842 | M | Rb | < | 0.000590 | M | Tl | < | 0.000273 | | | | |
| s | Co | < | | M | La | < | 0.000590 | M | Re | < | 0.000590 | M | Tm | < | 0.000590 | | | | |
| M | Cr | < | 0.021000 | O | Li | < | 0.000130 | M | Rh | < | 0.000590 | M | U | < | 0.000590 | | | | |
| M | Cs | < | 0.002400 | M | Lu | < | 0.000590 | M | Ru | < | 0.007100 | O | V | < | 0.000880 | | | | |
| M | Cu | < | 0.019577 | O | Mg | < | 0.000195 | n | S | < | | M | W | < | 0.000590 | | | | |
| M | Dy | < | 0.000590 | M | Mn | < | 0.001800 | M | Sb | < | 0.003600 | M | Y | < | 0.000590 | | | | |
| M | Er | < | 0.000590 | M | Mo | < | 0.002400 | O | Sc | < | 0.001600 | M | Yb | < | 0.000590 | | | | |

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 - 58.93 +2 6 Co(H₂O)₆2+

Chemical Compatibility - Stable in HCl, HNO₃, H₂SO₄, HF, H₃PO₄. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO₃ / LDPE container.

Co Containing Samples (Preparation and Solution) - Metal (soluble in HNO₃); Oxides (Soluble in HCl); Ore (dissolve in HCl / HNO₃).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|--------------------|------------------|-------|---|
| ICP-MS 59 amu | 2 ppt | n/a | 42Ca16O1H , 40Ar18O1H , 36Ar23Na, 43Ca16O, 24Mg35Cl |
| ICP-OES 228.616 nm | 0.01/0.001 µg/mL | 1 | |
| ICP-OES 237.862 nm | 0.01/0.002 µg/mL | 1 | W, Re, Al, Ta |
| ICP-OES 238.892 nm | 0.01/0.002 µg/mL | 1 | Fe, W, Ta |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
 Catalog Number: CGLI1
 Lot Number: S2-LI701641
 Matrix: 0.1% (v/v) HNO3
 Value / Analyte(s): 1 000 µg/mL ea:
 Lithium
 Starting Material: Lithium Carbonate
 Starting Material Lot#: 1613
 Starting Material Purity: 99.9962%

ID #: 14687
 Opened:
 Lithium Single Analyte Custom Grade Solution
Expires: 2/11/2025
 Rec'd: 12/28/2021
 Energy Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1000 ± 3 µg/mL
Density: 1.005 g/mL (measured at 20 ± 4 °C)

Assay Information:

| | |
|------------------------|--|
| Assay Method #1 | 997 ± 4 µg/mL ICP Assay NIST SRM 3129a Lot Number: 100714 |
| Assay Method #2 | 1000 ± 1 µg/mL Gravimetric NIST SRM Lot Number: See Sec. 4.2 |
| Assay Method #3 | 1001 ± 3 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i) (X_i)$$

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:

$$w_i = (1/u_{char i}^2) / (\sum(1/(u_{char i}^2)))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = (\sum(w_i)^2 (u_{char i}^2))^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = 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

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = 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 ($\mu\text{g/mL}$)

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 < | 0.000500 | M Eu < | 0.000500 | O Na | 0.018534 | M Se < | 0.011000 | M Zn | 0.003494 |
| O Al | 0.000741 | O Fe | 0.004342 | M Nb < | 0.000500 | M Si | 0.111204 | M Zr < | 0.002000 |
| M As < | 0.011000 | M Ga < | 0.000500 | M Nd < | 0.000500 | M Sm < | 0.000500 | | |
| M Au < | 0.010000 | M Gd < | 0.000500 | M Ni < | 0.007000 | M Sn < | 0.001000 | | |
| O B | 0.000503 | M Ge < | 0.004500 | M Os < | 0.001000 | M Sr | 0.000243 | | |
| O Ba | 0.000381 | M Hf < | 0.000500 | O P < | 0.045000 | M Ta < | 0.000500 | | |
| O Be | 0.000046 | M Hg < | 0.000500 | M Pb < | 0.003000 | M Tb < | 0.000500 | | |
| M Bi < | 0.000500 | M Ho < | 0.000500 | M Pd < | 0.000500 | M Te < | 0.005000 | | |
| O Ca | 0.058249 | M In < | 0.000500 | M Pr < | 0.000500 | M Th < | 0.000500 | | |
| M Cd < | 0.000500 | M Ir < | 0.000500 | M Pt < | 0.000500 | M Ti < | 0.002500 | | |
| M Ce < | 0.000500 | O K | 0.029124 | M Rb < | 0.001000 | M Tl < | 0.000500 | | |
| M Co < | 0.000500 | M La < | 0.000500 | M Re < | 0.000500 | M Tm < | 0.000500 | | |
| M Cr | 0.000153 | s Li < | | M Rh < | 0.000500 | M U < | 0.000500 | | |
| M Cs < | 0.000500 | M Lu < | 0.000500 | M Ru < | 0.000500 | M V | 0.000953 | | |
| M Cu < | 0.002000 | O Mg | 0.011649 | O S | 0.031772 | M W < | 0.001000 | | |
| M Dy < | 0.000500 | O Mn | 0.000164 | M Sb < | 0.003000 | M Y < | 0.000500 | | |
| M Er < | 0.000500 | M Mo < | 0.000500 | M Sc < | 0.001500 | M Yb < | 0.000500 | | |

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 - 6.94 +1 (6) Li+(aq) large effective radius due to hydration sphere

Chemical Compatibility -Soluble in HCl, HNO₃, H₂SO₄ and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO₃ / LDPE container.

Li Containing Samples (Preparation and Solution) -Metal (Dissolves very rapidly in water); Ores (Sodium carbonate fusion in Pt0 followed by HCl dissolution-blank levels of Li in sodium carbonate critical); Organic Matrices (Sulfuric / peroxide digestion or nitric / sulfuric / perchloric acid decomposition).

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 7 amu | 10 ppt | n/a | |
| ICP-OES 323.261 nm | 1.1 / 0.05 micro;g/mL | 1 | Sb, Th, Ni |
| ICP-OES 460.286 nm | 0.9 / 0.04 µg/mL | 1 | Zr, Th |
| ICP-OES 670.784 nm | 0.002 / 0.00002 µg/mL | 1 | 2nd order radiation from R.E.s on some optical designs |

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

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 11, 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

- **February 11, 2025**

- 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



Characterization of CRM/RM by Two or More Methods

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$$w_i = (1/u_{char i})^2 / (\sum(1/(u_{char i})^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i})^2]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

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Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity 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.

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- 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 ($\mu\text{g/mL}$)

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 | 0.002106 | M | Eu | < | 0.000910 | O Na | 0.071075 | O Se | < | 0.048000 | O Zn | 0.003299 | |
| M Al | 0.003553 | M | Fe | 0.002538 | M Nb | < | 0.000460 | O Si | < | 0.032000 | O Zr | < | 0.002700 |
| M As | < | 0.001400 | M Ga | < | 0.000460 | M Nd | < | 0.000910 | M Sm | < | 0.000460 | | |
| M Au | < | 0.001400 | M Gd | < | 0.000460 | O Ni | < | 0.001600 | M Sn | < | 0.002300 | | |
| O B | 0.006853 | M | Ge | < | 0.001400 | M Os | < | 0.000460 | O Sr | 0.000279 | | | |
| O Ba | 0.000964 | M | Hf | < | 0.000460 | O P | 0.015230 | M Ta | < | 0.000460 | | | |
| O Be | < | 0.000120 | M Hg | < | 0.000460 | M Pb | < | 0.000460 | M Tb | < | 0.000460 | | |
| M Bi | < | 0.000460 | M Ho | < | 0.000460 | M Pd | < | 0.003200 | M Te | < | 0.007300 | | |
| O Ca | 0.053306 | M | In | < | 0.000460 | M Pr | < | 0.000460 | M Th | < | 0.000460 | | |
| O Cd | < | 0.000360 | M Ir | < | 0.000460 | M Pt | < | 0.001900 | O Ti | < | 0.001700 | | |
| M Ce | < | 0.002300 | M K | 0.048229 | M Rb | 0.002411 | M Tl | 0.003046 | | | | | |
| M Co | < | 0.000910 | M La | < | 0.002800 | M Re | < | 0.000460 | M Tm | < | 0.000460 | | |
| M Cr | < | 0.002300 | O Li | 0.027922 | M Rh | < | 0.000460 | M U | < | 0.000460 | | | |
| M Cs | 0.001040 | M | Lu | < | 0.000460 | M Ru | < | 0.000460 | M V | < | 0.000460 | | |
| O Cu | < | 0.003000 | s Mg | < | | O S | < | 0.190000 | M W | < | 0.000460 | | |
| M Dy | < | 0.000460 | O Mn | 0.015230 | M Sb | 0.020814 | O Y | < | 0.000720 | | | | |
| M Er | < | 0.000460 | M Mo | < | 0.000910 | O Sc | < | 0.000480 | M Yb | < | 0.000460 | | |

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 - 24.31 +2 6 Mg(H₂O)₆+2
Chemical Compatibility -Soluble in HCl, HNO₃, and H₂SO₄ avoid HF, H₃PO₄ and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicates, carbonates, hydroxides, oxides, and tungstates in neutral and slightly acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO₃ / LDPE container.

Mg Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO₃); Oxide (Readily soluble in above compatible aqueous acidic solutions); Ores (Carbonate fusion in Pt₀ followed by HCl dissolution); Organic Matrices (Sulfuric / peroxide digestion or nitric / sulfuric / perchloric acid decomposition, or dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|--------------------|------------------------|-------|---|
| ICP-MS 24 amu | 42 ppt | n/a | 7Li17O, 48Ti+2 , 48Ca+2 |
| ICP-OES 279.553 nm | 0.0002 / 0.00003 µg/mL | 1 | Th |
| ICP-OES 280.270 nm | 0.0003 / 0.00005 µg/mL | 1 | U, V |
| ICP-OES 285.213 nm | 0.002 / 0.00003 µg/mL | 1 | U, Hf, Cr, Zr |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 23, 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

- **April 23, 2025**

- 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



1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).


2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
 Catalog Number: CGTL1
 Lot Number: R2-TL694852
 Matrix: 1% (v/v) HNO₃
 Value / Analyte(s): 1 000 µg/mL ea:
 Thallium
 Starting Material: TINO3
 Starting Material Lot#: 2118
 Starting Material Purity: 99.9998%

ID #: 14693

Opened:

Thallium Single Analyte Custom Grade Solution

Expires: 8/5/2024

Rec'd: 12/28/2021

 Energy Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 5 µg/mL
Density: 1.005 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **1003 ± 4 µg/mL**
 ICP Assay NIST SRM 3158 Lot Number: 151215

Assay Method #2 **1000 ± 7 µg/mL**
 Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i) (X_i)$$

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:
 $w_i = (1/u_{char i}^2) / (\sum(1/u_{char i}^2))$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2
 $u_{char} = (\sum((w_i)^2 (u_{char i})^2))^{1/2}$ 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

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

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 < 0.000200 | M Eu < 0.000200 | O Na < 0.000256 | M Se < 0.011019 | O Zn < 0.000236 |
| O Al < 0.004184 | O Fe < 0.002824 | M Nb < 0.000200 | O Si < 0.000387 | M Zr < 0.000200 |
| M As < 0.002003 | M Ga < 0.000200 | M ⁱ Nd < 0.000200 | M Sm < 0.000200 | |
| O Au < 0.002824 | M Gd < 0.000200 | M ⁱ Ni < 0.000177 | M Sn < 0.000601 | |
| O B < 0.004184 | M Ge < 0.000801 | M ⁱ Os < 0.000198 | O Sr < 0.000313 | |
| M Ba < 0.000400 | M Hf < 0.000200 | O P < 0.010460 | M Ta < 0.000200 | |
| O Be < 0.000104 | M Hg < 0.000794 | M Pb < 0.000083 | M Tb < 0.000200 | |
| M Bi < 0.005209 | M Ho < 0.000200 | M Pd < 0.000400 | M Te < 0.005008 | |
| O Ca < 0.000250 | M In < 0.000200 | M Pr < 0.000200 | M Th < 0.000200 | |
| M Cd < 0.000135 | M Ir < 0.000198 | M Pt < 0.000801 | O Ti < 0.001255 | |
| M Ce < 0.000200 | O K < 0.000636 | M Rb < 0.000200 | s Tl < | |
| M Co < 0.000601 | M La < 0.000200 | M Re < 0.000200 | M Tm < 0.000200 | |
| M Cr < 0.000801 | O Li < 0.000177 | M Rh < 0.000200 | M U < 0.000200 | |
| M Cs < 0.003606 | M Lu < 0.000200 | M Ru < 0.000397 | M V < 0.002203 | |
| M Cu < 0.001001 | O Mg < 0.000054 | O S < 0.015690 | M W < 0.000601 | |
| M Dy < 0.000200 | M Mn < 0.000801 | M Sb < 0.000400 | M Y < 0.000200 | |
| M Er < 0.000200 | M Mo < 0.001202 | O Sc < 0.000711 | M Yb < 0.000200 | |

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 - 204.38 + 16 Ti(H₂O)₆1+

Chemical Compatibility - Soluble in HCl, HNO₃, and H₂SO₄. Stable with most metals and inorganic anions. The sulfite, thiocyanate and oxalate are moderately soluble; the phosphate and arsenite are slightly soluble and the sulfide is insoluble.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO₃ / LDPE container.

Ti Containing Samples (Preparation and Solution) -Metal (Best dissolved in HNO₃ which forms chiefly the Ti¹⁺ ion.); Oxide (The thalious oxide is readily soluble in water. The thallic oxide requires high levels of acid); Ores (Carbonate fusion in PtO followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in 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 205 amu | 2 ppt | N/A | 189Os16O |
| ICP-OES 190.864 nm | 0.04 / 0.004 µg/mL | 1 | V, Ti |
| ICP-OES 276.787 nm | 0.1 / 0.01 µg/mL | 1 | Ta, V, Fe, Cr |
| ICP-OES 351.924 nm | 0.2 / 0.02 µg/mL | 1 | Th, Ce, Zr |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 05, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 05, 2024**

- 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



Energy Laboratories Inc

Standard LOG

Standard ID: ME220112A 1000 PPB STANDARD
Standard Name: 1000 PPB Standard
Date Prepared: 1/12/2022
Date Expires: 11/18/2022
Department: ME
Vendor:
Lot Number:
Balance ID:
Comments: Made fresh daily

Type: Secondary
BY: Cindy Rohrer
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------------|----------|-------|-------|------------|
| Hydrochloric Acid E1421 | 14721 | 0.25 | mL | 1/4/2027 |
| Nitric Acid 69.0- 70.0% D0521 | 14626 | 0.5 | mL | 12/14/2026 |
| Milli-Q H2O | 391 | 48.25 | mL | 6/1/2100 |

Final Volume:
50 mL

Stock Source

ME211208 MSCAL MSCAL 2B
ME211118 MSCAL EL-MSCAL-5A
ME211229A AU 2n Au 2nd source Stock

Base Units

ug/mL
ug/mL
ug/mL

Amount Added

0.5 mL
0.5 mL
0.01 mL

Analytes

CAS

Conc: **mg/L**

Energy Laboratories Inc

Standard LOG

Standard ID: ME211208 MSCAL2B
Standard Name: MSCAL 2B
Date Prepared: 12/8/2021
Date Expires: 12/8/2022
Department: ME
Vendor: Inorganic Ventures
Lot Number: S2-MEB704403
Balance ID:
Comments: Opened 12/08/2021; Expires 12/08/2022

Type: Primary
BY: Stacy R. Hendricks
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------------------|----------|-----|-------|-----------|
| Multi Analyte Custom Grade Solution | 13793 | | mL | 12/8/2022 |

Final Volume:
mL

Stock Source

Base Units

Amount Added

Analytes

CAS

Conc: **ug/mL**

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Christiansburg, VA 24073 USA
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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).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
Catalog Number: EL-MSCAL-2B
Lot Number: S2-MEB704403
Matrix: 5% (v/v) HNO3
Value / Analyte(s):
100 µg/mL ea:
Aluminum, Arsenic,
Boron, Barium,
Beryllium, Cadmium,
Cobalt, Chromium,
Copper, Iron,
Manganese, Nickel,
Lead, Selenium,
Strontium, Thorium,
Thallium, Uranium,
Vanadium, Zinc,
40 µg/mL ea:
Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ID #: 13793

Opened: _____

Multi Analyte Custom Grade Solution

Expires: 4/21/2025

Rec'd: 4/29/2021

Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|--------------|--------------------|---------------|-------------------|
| Aluminum, Al | 100.0 ± 0.4 µg/mL | Arsenic, As | 100.0 ± 0.9 µg/mL |
| Barium, Ba | 100.0 ± 0.5 µg/mL | Beryllium, Be | 100.0 ± 0.7 µg/mL |
| Boron, B | 100.0 ± 0.7 µg/mL | Cadmium, Cd | 100.0 ± 0.5 µg/mL |
| Chromium, Cr | 100.0 ± 0.8 µg/mL | Cobalt, Co | 100.0 ± 0.6 µg/mL |
| Copper, Cu | 100.0 ± 0.5 µg/mL | Iron, Fe | 100.1 ± 0.4 µg/mL |
| Lead, Pb | 100.0 ± 0.6 µg/mL | Manganese, Mn | 100.0 ± 0.5 µg/mL |
| Nickel, Ni | 100.0 ± 0.6 µg/mL | Selenium, Se | 100.0 ± 0.7 µg/mL |
| Silver, Ag | 39.99 ± 0.18 µg/mL | Strontium, Sr | 100.0 ± 0.4 µg/mL |
| Thallium, Tl | 100.0 ± 0.6 µg/mL | Thorium, Th | 100.0 ± 0.5 µg/mL |
| Uranium, U | 100.0 ± 0.5 µg/mL | Vanadium, V | 100.0 ± 0.5 µg/mL |
| Zinc, Zn | 100.0 ± 0.5 µg/mL | | |

Density: 1.033 g/mL (measured at 20 ± 4 °C)

Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---------|-------------|--------------------|--------------|
| Ag | ICP Assay | 3151 | 160729 |
| Ag | Volhard | 999c | 999c |
| Al | ICP Assay | 3101a | 140903 |
| Al | EDTA | 928 | 928 |
| As | ICP Assay | 3103a | 100818 |
| B | ICP Assay | 3107 | 110830 |
| Ba | ICP Assay | 3104a | 140909 |
| Ba | Gravimetric | | See Sec. 4.2 |
| Be | ICP Assay | 3105a | 090514 |
| 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 |
| Mn | ICP Assay | 3132 | 050429 |
| Mn | EDTA | 928 | 928 |
| 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 |
| Sr | EDTA | 928 | 928 |
| Sr | ICP Assay | Traceable to 3153a | K2-SR650985 |
| Sr | Calculated | | See Sec. 4.2 |
| Th | EDTA | 928 | 928 |
| Th | Calculated | | See Sec. 4.2 |
| Tl | ICP Assay | 3158 | 151215 |
| U | ICP Assay | 3164 | 080521 |
| U | 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:

$$X_{CRM/RM} = \sum (w_i) (X_i)$$

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:

$$w_i = (1/u_{char i}^2) / (\sum (1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum ((w_i)^2 (u_{char i}^2))]^{1/2}$ 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

Certified Abundance:

IV's Certified Abundance

Isotope

Uranium 238U

Uranium 235U

Atom %

99.8 ± 0.1

0.24 ± 0.05

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

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

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 ($\mu\text{g/mL}$)

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

April 21, 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

- **April 21, 2025**

- 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



Energy Laboratories Inc

Standard LOG

Standard ID: ME211118 MSCAL-5A
Standard Name: EL-MSCAL-5A
Date Prepared: 11/18/2021
Date Expires: 11/18/2022
Department: ME
Vendor: Inorganic Ventures
Lot Number: P2-MEB687200
Balance ID:
Comments: Opened 11/18/2021; Expires 11/18/2022

Type: Primary
BY: Stacy R. Hendricks
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------------------|----------|-----|-------|------------|
| Multi Analyte Custom Grade Solution | 13175 | 500 | mL | 11/18/2022 |

Final Volume:
500 mL

Stock Source

Base Units

Amount Added

Analytes

CAS

Conc: **ug/mL**

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
 Catalog Number: EL-MSCAL-5A
 Lot Number: P2-MEB687200
 Matrix: 3% (v/v) HNO₃
 Value / Analyte(s):
 5 000 µg/mL ea:
 Calcium, Potassium, Magnesium,
 Sodium,
 500 µg/mL ea:
 Phosphorus, Iron,
 250 µg/mL ea:
 Lithium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|---------------|-------------------|---------------|-------------------|
| Calcium, Ca | 5 000 ± 20 µg/mL | Iron, Fe | 499.9 ± 2.1 µg/mL |
| Lithium, Li | 250.0 ± 1.1 µg/mL | Magnesium, Mg | 5 000 ± 21 µg/mL |
| Phosphorus, P | 499.8 ± 2.5 µg/mL | Potassium, K | 5 000 ± 18 µg/mL |
| Sodium, Na | 5 000 ± 18 µg/mL | | |

Density: 1.076 g/mL (measured at 20 ± 4 °C)

Assay Information:

ID #: 13175
 Opened: _____
 Multi Analyte Custom Grade Solution
Expires: 12/2/2023
 Rec'd: 10/12/2020
 Energy Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---------|-------------|-----------|--------------|
| Ca | ICP Assay | 3109a | 130213 |
| Ca | EDTA | 928 | 928 |
| Fe | ICP Assay | 3126a | 140812 |
| Fe | EDTA | 928 | 928 |
| K | ICP Assay | 3141a | 140813 |
| K | Gravimetric | | See Sec. 4.2 |
| Li | ICP Assay | 3129a | 100714 |
| Li | Gravimetric | | See Sec. 4.2 |
| Mg | ICP Assay | 3131a | 140110 |
| Mg | EDTA | 928 | 928 |
| Na | ICP Assay | 3152a | 120715 |
| Na | Gravimetric | | See Sec. 4.2 |
| P | ICP Assay | 3139a | 060717 |
| P | Acidimetric | 84L | 84L |

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:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

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:

$$w_i = (1/u_{char i})^2 / (\sum(1/(u_{char i})^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = \{\sum((w_i)^2 (u_{char i})^2)\}^{1/2}$ 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

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

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 ($\mu\text{g/mL}$)

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 outer bag.

- While stored in the sealed outer bag, transpiration of this CRM/RM is negligible. After opening the sealed outer 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 outer 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.

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, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 02, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 02, 2023**

- 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 outer 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
Manager, Quality Control



Certifying Officer:

Paul Gaines
CEO, Senior Technical Director



Energy Laboratories Inc

Standard LOG

Standard ID: ME211229A AU 2ND SOURCE
Standard Name: Au 2nd source Stock
Date Prepared: 12/29/2021
Date Expires: 12/29/2022
Department: ME
Vendor: SCP Science
Lot Number: S211129013
Balance ID:
Comments: opened 12/29/2021; expires 12/29/2022

Type: Primary
BY: Amanda E. McDani
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------|----------|-----|-------|------------|
| ICP/ICPMS Standard Gold | 14710 | 500 | mL | 12/29/2022 |

Final Volume:
500 mL

Stock Source

Base Units

Amount Added

Analytes

CAS

Conc: **ug/mL**

ID #: 14710

Opened:

ICP/ICPMS Standard Gold

Expires: 12/31/2023

Rec'd: 12/29/2021

Eneray Laboratories Inc 1120 So. 27th Street

Billings MT 59107

SCP SCIENC

Providing Innovative Solutions to Analytical

Certificate of Analysis**Au****1.0 DESCRIPTION:****PlasmaCAL ICP/ICPMS Standard - Gold 1000 µg/ml**

Catalogue Number: 140-052-790/-791/-795

Starting Material: Gold Metal 99.99%+

Lot Number: **S211129013**

Matrix: 10% HCl (See Section 3 for actual matrix)

Expiration Date (End of month): **December 2023** (or 15 months after bottle is opened, whichever comes first)**2.0 CERTIFIED VALUES AND ASSOCIATED UNCERTAINTY:**Certified Concentration: **1001 µg/ml +/- 4 µg/ml****982 µg/g +/- 4 µg/g**

Method of analysis: Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES)

Traceability: NIST Standard Reference Material 3121 Lot: **991806**

Note: The uncertainty of the certified value has been calculated from applicable uncertainty contributors (u_i) including uncertainty established during characterization of the material (u_{char}), the between bottle variation (u_{bb}), short-term stability (u_{sts}) and long-term stability (u_{lts}) according to the model $u_c = \sqrt{(u_{char}^2 + u_{bb}^2 + u_{sts}^2 + u_{lts}^2)}$. This combined uncertainty has been further multiplied by a coverage factor (k) of 2 to provide a 95% confidence interval.

3.0 REFERENCE VALUES:Density: **1.019 g/ml @ 22.4 °C**Actual Matrix: **10.0% (v/v) HCl**

Trace Metal Impurities as tested by ICP-MS:

| Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) |
|---------|---------------|---------|---------------|---------|---------------|---------|-------------|
| Ag | 0.3851 | Fe | <0.0090 | Nd | <0.0010 | Sn | <0.0010 |
| Al | 0.0062 | Ga | <0.0010 | Ni | <0.0010 | Sr | <0.0025 |
| As | <0.0010 | Gd | <0.0010 | Os | <0.0010 | Ta | <0.0010 |
| Au | N/A | Ge | <0.0010 | P | <0.0132 | Tb | <0.0010 |
| B | <0.0015 | Hf | <0.0010 | Pb | <0.0010 | Te | <0.0010 |
| Ba | <0.0010 | Hg | * | Pd | 0.0434 | Th | <0.0010 |
| Be | <0.0010 | Ho | <0.0010 | Pr | <0.0010 | Ti | <0.0012 |
| Bi | <0.0010 | In | <0.0010 | Pt | 0.0048 | Tl | <0.0011 |
| Ca | <0.0135 | Ir | <0.0010 | Rb | <0.0010 | Tm | <0.0010 |
| Cd | <0.0010 | K | 0.0362 | Re | <0.0010 | U | <0.0010 |
| Ce | <0.0010 | La | <0.0010 | Rh | <0.0010 | V | <0.0010 |
| Co | <0.0010 | Li | <0.0010 | Ru | <0.0010 | W | <0.0020 |
| Cr | <0.0010 | Lu | <0.0010 | S | * | Y | <0.0010 |
| Cs | 0.0029 | Mg | <0.0010 | Sb | <0.0010 | Yb | <0.0010 |
| Cu | 0.0023 | Mn | <0.0010 | Sc | <0.0010 | Zn | <0.0010 |
| Dy | <0.0010 | Mo | <0.0010 | Se | <0.01 | Zr | <0.0010 |
| Er | <0.0010 | Na | 0.0070 | Si | <0.1 | | |
| Eu | <0.0010 | Nb | <0.0010 | Sm | <0.0010 | | |

*: Not tested

4.0 APPROVAL AND DATE OF CERTIFICATION:

Certification Approval: Daniel Boisvert, Chemist

Certification Date: December 10, 2021

Daniel Boisvert

5.0 INTENDED USE / UTILISATION PRÉVUE:

- ICP Standards: For the calibration of, including but not limited to: ICP-AES, ICP-MS, FAAS, GFAA, XRF and DCP. / *Étalons ICP* : Pour l'étalonnage d'instruments de mesure tels que: ICP-AES, ICP-MS, FAAS, GFAA, XRF et DCP.
- AA Standards: For the calibration of Flame (FAAS) and Graphite Furnace (GFAA) Atomic Absorption Spectrometers. / *Étalons AA* : Pour l'étalonnage de spectromètres d'absorption atomique flamme (GFAA) et four au graphite (GFAA).
- Matrix Modifiers: For the optimization of analytical conditions to provide better Graphite Furnace Atomic Absorption (GFAA) instrument response and improved detection limits. / *Modificateur de matrice* : Pour l'optimisation des conditions analytiques afin de fournir des meilleures réponses instrumentales et limites de détection pour SAA four au graphite.
- pH Standards: For the calibrating pH meters or for other wet chemistry applications. / *Étalons pH* : Pour étalonnage de pH mètres et autres applications de chimie humide.
- Conductivity Standards: For electrolytic conductivity measurement as a calibration standard. / *Étalons de conductivité* : Comme étalon pour les mesures de conductivité électrolytiques.
- IC Standards: for calibration of, but not limited to IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS or other wet chemistry applications. / *Étalons IC* : Pour étalonnage d'instruments tels que : IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS et autres applications de chimie humide.
For any inquiries, please contact **SCP SCIENCE**. / *Pour toute question, veuillez contacter SCP SCIENCE.*

6.0 INSTRUCTIONS FOR USE / INSTRUCTIONS D'UTILISATION:

Handling and Storage / Manutention et entreposage: Keep product tightly capped when not in use. The solution should be opened for a minimum amount of time necessary to dispense the amount required. Do not pipet or use directly from container. Do not return unused portions back to container. Store under normal laboratory conditions. Avoid exposure to excessive sources of heat and humidity or direct sunlight. / *Garder les contenants bien fermés lorsque non utilisés. Le contenant devrait être ouvert seulement pour le temps requis afin de prélever la quantité nécessaire. Ne pas pipetter ou utiliser directement du contenant. Ne pas retourner les portions non-utilisées dans le contenant. Conserver dans des conditions normales de laboratoire. Éviter l'exposition à des sources de chaleur et d'humidité excessives ou à l'exposition solaire directe.*

Stability / Stabilité: This Standard is guaranteed to be stable and accurate to within the specified uncertainty of measurement up to the unopened expiry date, if sealed, or up to the opened expiry date (when indicated), whichever comes first, provided the solution is kept tightly capped and stored under the indicated storage conditions. Purchasers will be notified of any significant changes resulting in re-certification or withdrawal of the product prior to the expiration date. / *La stabilité et l'exactitude de cet étalon sont garanties d'être à l'intérieur de l'incertitude de mesure, jusqu'à la date d'expiration de la bouteille non-ouverte, si scellée, ou jusqu'à la date d'expiration de la bouteille ouverte (si indiquée), en présumant que le contenant est maintenu fermé et gardé dans les conditions d'entreposage indiquées. Les acheteurs seront avisés dans le cas où il y aura des changements significatifs nécessitant une re-certification ou un rappel du produit avant la date d'expiration.*

7.0 HAZARDOUS INFORMATION / INFORMATION SUR LES RISQUES POTENTIELS:

Please refer to the associated Safety Data Sheet (SDS) for information regarding this product (available at www.SCPSCIENCE.com). / *SVP vous référer à la Fiche Signalétique applicable pour de l'information sur ce produit (Disponible à www.SCPSCIENCE.com).*

8.0 HOMOGENEITY / HOMOGÉNÉITÉ:

This solution has been blended according to an in-house procedure and its homogeneity is guaranteed to be fit for purpose when a sample size sufficient for the intended method of analysis is used. / *Cette solution a été préparée selon une procédure maison et nous assurons que sa homogénéité est approprié à l'emploi lorsqu'un échantillon suffisant pour la méthode d'analyse prévue est utilisé.*

9.0 TRACEABILITY / TRAÇABILITÉ:

This CRM (Certified Reference Material) is traceable to the NIST SRM (Standard Reference Material) indicated in section 2 through an unbroken chain of comparisons. In addition, balances used are regularly calibrated using weights which are traceable to NIST (National Institute of Standards and Technology) or NRC (National Research Council of Canada) standards. All conductivity meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable Thermometer and standards. All pH meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable thermometer and pH/MV simulator. / *Ce matériel de référence certifié est traçable au Matériel de Référence Standardisé de NIST indiqué à la section 2 par une chaîne de comparaison ininterrompue. De plus, les balances utilisées sont étalonnées régulièrement en utilisant des poids qui sont traçables au NIST (National Institute of Standards and Technology) ou au CRNC (Conseil National de Recherches Canada). Tout conductimètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et étalons traçables au NIST ou CNRC. Tout pH mètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et un simulateur pH/MV traçables au NIST ou au CNRC.*

10.0 PREPARATION / PRÉPARATION:

For the preparation of these solutions, 18 meghom/cm double deionized water, high-purity acids and glassware calibrated to ASTM Class A specifications are used. / *Une eau de 18 meghom/cm doublement déionisé, de l'acide de haute pureté, ainsi que de la verrerie étalonnée afin de satisfaire les spécifications Classe A de ASTM ont été utilisés pour la préparation de cet étalon.*

11.0 QUALITY SYSTEM CERTIFICATIONS / CERTIFICATIONS DE SYSTÈME QUALITÉ:

ISO 9001 Certification / Certification ISO 9001: This standard was produced in a facility which operates under a registered ISO 9001 Quality Management System. Please consult our web site for a copy of the most recent revision of our certificate of registration. / *Cet étalon a été fabriqué dans un laboratoire qui utilise un Système de Gestion de la Qualité enregistré à la norme ISO 9001. Veuillez consulter notre site web pour obtenir la version la plus récente de notre certificat d'enregistrement.*

ISO 17025 Accreditation / Accréditation ISO 17025: SCP SCIENCE (Corporate Headquarters) operates an ISO 17025 accredited laboratory. Please consult our web site for a copy of the most recent revision of our certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est accréditée ISO 17025. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

ISO 17034 Accreditation / Accréditation ISO 17034: SCP SCIENCE (Corporate Headquarters) is an ISO 17034 accredited Reference Material Producer. Please consult our website for a copy of our most recent certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est un Fabricant de Matériaux de Référence Accrédité ISO 17034. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

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Fax: +33 (0) 1 60 92 05 67

GERMANY
Alte Marktoberdorfer Straße 14, 87616
Marktoberdorf
Phone: +49 (0) 8342-89560-61
Fax: +49 (0) 8342-89560-69

Energy Laboratories Inc

Standard LOG

Standard ID: ME220112 100 PPB STANDARD
 Standard Name: 100 ppb Standard
 Date Prepared: 1/12/2022
 Date Expires: 11/18/2022
 Department: ME
 Vendor: Inorganic Ventures
 Lot Number:
 Balance ID:
 Comments: Made Fresh Daily

Type: Secondary
 BY: Cindy Rohrer
 Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------------|----------|--------|-------|------------|
| Hydrochloric Acid E1421 | 14721 | 0.25 | mL | 1/4/2027 |
| Nitric Acid 69.0- 70.0% D0521 | 14626 | 0.5 | mL | 12/14/2026 |
| Milli-Q H2O | 391 | 48.335 | mL | 6/1/2100 |

Final Volume:
 50 mL

Stock Source

ME211221 MSCAL MSCAL 3C
 ME211118 MSCAL EL-MSCAL-5A
 ME220105 HgPrim Primary Hg Stock 2 PPM
 ME211208 MSCAL MSCAL 2B
 ME211229A AU 2n Au 2nd source Stock
 ME220110 Ce, La Ce, La Primary

Base Units

ug/mL
 ug/mL
 ug/mL
 ug/mL
 ug/mL
 ug/mL

Amount Added

0.05 mL
 0.25 mL
 0.05 mL
 0.05 mL
 0.01 mL
 0.05 mL

Analytes

CAS

Conc: **mg/L**

Energy Laboratories Inc

Standard LOG

Standard ID: ME211221 MSCAL 3C
Standard Name: MSCAL 3C
Date Prepared: 12/21/2021
Date Expires: 12/21/2022
Department: ME
Vendor: Inorganic Ventures
Lot Number: S2-MEB700780
Balance ID:
Comments: Opened 12/21/21; expires 12/21/22

Type: Primary
BY: Stacy R. Hendricks
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------------------|----------|-----|-------|------------|
| Multi Analyte Custom Grade Solution | 13473 | 250 | mL | 12/21/2022 |

Final Volume:
250 mL

Stock Source

Base Units

Amount Added

Analytes

CAS

Conc: **ug/mL**

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).


2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
 Catalog Number: EL-MSCAL-3C
 Lot Number: S2-MEB700780
 Matrix: 3% (v/v) HNO₃
 tr. HF
 Value / Analyte(s): 400 µg/mL ea:
 Silicon,
 100 µg/mL ea:
 Tin,
 Molybdenum,

1-6-2025

ID #: 13473
 Opened: _____
 Multi Analyte Custom Grade Solution
 Expires: 1/6/2025
 Rec'd: 1/15/2021
 Energy Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

Titanium,
 Antimony

3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|--------------|-------------------|----------------|-------------------|
| Antimony, Sb | 100.0 ± 0.8 µg/mL | Molybdenum, Mo | 100.0 ± 0.6 µg/mL |
| Silicon, Si | 399.9 ± 3.0 µg/mL | Tin, Sn | 100.0 ± 0.6 µg/mL |
| Titanium, Ti | 100.0 ± 0.7 µg/mL | | |

Density: 1.018 g/mL (measured at 20 ± 4 °C)

Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---------|-----------|-----------|----------|
| Mo | ICP Assay | 3134 | 130418 |
| Sb | ICP Assay | 3102a | 140911 |
| Si | ICP Assay | 3150 | 130912 |
| Sn | ICP Assay | 3161a | 140917 |
| Ti | ICP Assay | 3162a | 130925 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i})^2 / (\sum(1/u_{\text{char } i})^2)$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = (\sum(w_i)^2 (u_{\text{char } i})^2)^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) / (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = 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 ($\mu\text{g/mL}$)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800 669 6799; 540 585 3030, Fax: 540 585 3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 06, 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

- **January 06, 2025**

- 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



Energy Laboratories Inc

Standard LOG

Standard ID: ME211118 MSCAL-5A
Standard Name: EL-MSCAL-5A
Date Prepared: 11/18/2021
Date Expires: 11/18/2022
Department: ME
Vendor: Inorganic Ventures
Lot Number: P2-MEB687200
Balance ID:
Comments: Opened 11/18/2021; Expires 11/18/2022

Type: Primary
BY: Stacy R. Hendricks
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------------------|----------|-----|-------|------------|
| Multi Analyte Custom Grade Solution | 13175 | 500 | mL | 11/18/2022 |

Final Volume:
500 mL

Stock Source

Base Units

Amount Added

Analytes

CAS

Conc: **ug/mL**

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution

Catalog Number: EL-MSCAL-5A

Lot Number: P2-MEB687200

Matrix: 3% (v/v) HNO₃

Value / Analyte(s): 5 000 µg/mL ea:
 Calcium, Potassium, Magnesium,
 Sodium,

500 µg/mL ea:
 Phosphorus, Iron,

250 µg/mL ea:
 Lithium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|---------------|-------------------|---------------|-------------------|
| Calcium, Ca | 5 000 ± 20 µg/mL | Iron, Fe | 499.9 ± 2.1 µg/mL |
| Lithium, Li | 250.0 ± 1.1 µg/mL | Magnesium, Mg | 5 000 ± 21 µg/mL |
| Phosphorus, P | 499.8 ± 2.5 µg/mL | Potassium, K | 5 000 ± 18 µg/mL |
| Sodium, Na | 5 000 ± 18 µg/mL | | |

Density: 1.076 g/mL (measured at 20 ± 4 °C)

Assay Information:

ID #: 13175
 Opened: _____
 Multi Analyte Custom Grade Solution
Expires: 12/2/2023
 Rec'd: 10/12/2020
 Energy Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---------|-------------|-----------|--------------|
| Ca | ICP Assay | 3109a | 130213 |
| Ca | EDTA | 928 | 928 |
| Fe | ICP Assay | 3126a | 140812 |
| Fe | EDTA | 928 | 928 |
| K | ICP Assay | 3141a | 140813 |
| K | Gravimetric | | See Sec. 4.2 |
| Li | ICP Assay | 3129a | 100714 |
| Li | Gravimetric | | See Sec. 4.2 |
| Mg | ICP Assay | 3131a | 140110 |
| Mg | EDTA | 928 | 928 |
| Na | ICP Assay | 3152a | 120715 |
| Na | Gravimetric | | See Sec. 4.2 |
| P | ICP Assay | 3139a | 060717 |
| P | Acidimetric | 84L | 84L |

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:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

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:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = \{\sum((w_i)^2 (u_{char i}^2))\}^{1/2}$ 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

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

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 ($\mu\text{g/mL}$)

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 outer bag.

- While stored in the sealed outer bag, transpiration of this CRM/RM is negligible. After opening the sealed outer 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 outer 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.

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, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 02, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 02, 2023**

- 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 outer 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
Manager, Quality Control



Certifying Officer:

Paul Gaines
CEO, Senior Technical Director



Energy Laboratories Inc

Spike LOG

Standard ID: ME220105 HGPRIMARY
Standard Name: Primary Hg Stock 2 PPM
Date Prepared: 1/5/2022
Date Expires: 12/29/2022
Department: ME
Vendor: Inorganic Ventures
Lot Number:
Balance ID:
Type: Secondary
BY: Amanda E. McDani
Status: Open
Comments: Made with different HG stock than QCS

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------------|----------|------|-------|------------|
| Nitric Acid 69.0- 70.0% D0521 | 14626 | 0.5 | mL | 12/14/2026 |
| Hydrochloric Acid E1421 | 14721 | 0.25 | mL | 1/4/2027 |

Final Volume:
25 mL

Stock Source

ME220110HG HG Stock
ME211229A AU 2N Au 2nd source Stock

Base Units

ug/mL
ug/mL

Amount Added

0.05 mL
0.05 mL

Analytes

CAS

Conc: ug/mL

Energy Laboratories Inc

Standard LOG

Standard ID: ME220110HG
Standard Name: HG Stock
Date Prepared: 1/10/2022
Date Expires: 1/10/2023
Department: ME
Vendor: SCP Science
Lot Number: S210729017
Balance ID:
Comments:

Type: Primary
BY: Amanda E. McDani
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|----------------------------|----------|-----|-------|-----------|
| ICP/ICPMS Standard Mercury | 14711 | 125 | mL | 1/10/2023 |

Final Volume:
125 mL

Stock Source

Base Units

Amount Added

Analytes

CAS

Conc: **ug/mL**

ID #: 14711

Opened: _____

ICP/ICPMS Standard Mercury

Expires: 7/31/2023

Rec'd: 12/29/2021

Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

SCP SCIENCE

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rtificate of Analysis

Hg

1.0 DESCRIPTION:

PlasmaCAL ICP/ICPMS Standard - Mercury 1000 µg/ml
 Catalogue Number: 140-051-800/-801/-805
 Starting Material: Mercury(II) oxide 99.99+%
 Lot Number: **S210729017**
 Matrix: 10% HNO₃ (See Section 3 for actual matrix)
 Expiration Date (End of month): **July 2023** (or 15 months after bottle is opened, whichever comes first)

2.0 CERTIFIED VALUES AND ASSOCIATED UNCERTAINTY:

Certified Concentration: **999 µg/ml +/- 5 µg/ml**
952 µg/g +/- 5 µg/g
 Method of analysis: Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES)
 Traceability: NIST Standard Reference Material 3133 Lot: **160921**

Note: The uncertainty of the certified value has been calculated from applicable uncertainty contributors (u_i) including uncertainty established during characterization of the material (u_{char}), the between bottle variation (u_{bb}), short-term stability (u_{sts}) and long-term stability (u_{lts}) according to the model $u_c = \sqrt{(u_{char}^2 + u_{bb}^2 + u_{sts}^2 + u_{lts}^2)}$. This combined uncertainty has been further multiplied by a coverage factor (k) of 2 to provide a 95% confidence interval.

3.0 REFERENCE VALUES:

Density: **1.050 g/ml @ 23.6 °C**
 Actual Matrix: **10.0% (v/v) HNO₃**

Trace Metal Impurities as tested by ICP-MS:

| Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) |
|---------|---------------|---------|---------------|---------|---------------|---------|---------------|
| Ag | <0.0010 | Fe | 0.0322 | Nd | <0.0010 | Sn | <0.0010 |
| Al | 0.0042 | Ga | <0.0010 | Ni | 0.0039 | Sr | <0.0025 |
| As | <0.0010 | Gd | <0.0010 | Os | <0.0010 | Ta | <0.0010 |
| Au | <0.0010 | Ge | <0.0010 | P | <0.0132 | Tb | <0.0010 |
| B | <0.0015 | Hf | <0.0010 | Pb | <0.0010 | Te | <0.0010 |
| Ba | <0.0010 | Hg | N/A | Pd | <0.0010 | Th | <0.0010 |
| Be | <0.0010 | Ho | <0.0010 | Pr | <0.0010 | Ti | <0.0012 |
| Bi | <0.0010 | In | <0.0010 | Pt | <0.0010 | Tl | 0.0117 |
| Ca | <0.0135 | Ir | <0.0010 | Rb | <0.0010 | Tm | <0.0010 |
| Cd | <0.0010 | K | <0.0024 | Re | <0.0010 | U | <0.0010 |
| Ce | <0.0010 | La | <0.0010 | Rh | <0.0010 | V | <0.0010 |
| Co | <0.0010 | Li | <0.0010 | Ru | <0.0010 | W | <0.0020 |
| Cr | 0.0112 | Lu | <0.0010 | S | * | Y | <0.0010 |
| Cs | <0.0010 | Mg | <0.0010 | Sb | <0.0010 | Yb | <0.0010 |
| Cu | 0.0060 | Mn | <0.0010 | Sc | <0.0010 | Zn | <0.0010 |
| Dy | <0.0010 | Mo | <0.0010 | Se | <0.0010 | Zr | <0.0010 |
| Er | <0.0010 | Na | 0.0092 | Si | <0.1 | | |
| Eu | <0.0010 | Nb | <0.0010 | Sm | <0.0010 | | |

*: Not tested

4.0 APPROVAL AND DATE OF CERTIFICATION:

Certification Approval: Daniel Boisvert, Chemist
 Certification Date: August 12, 2021

5.0 INTENDED USE / UTILISATION PRÉVUE:

- ICP Standards: For the calibration of, including but not limited to: ICP-AES, ICP-MS, FAAS, GFAA, XRF and DCP. / *Étalons ICP: Pour l'étalonnage d'instruments de mesure tels que: ICP-AES, ICP-MS, FAAS, GFAA, XRF et DCP.*
 - AA Standards: For the calibration of Flame (FAAS) and Graphite Furnace (GFAA) Atomic Absorption Spectrometers. / *Étalons AA: Pour l'étalonnage de spectromètres d'absorption atomique flamme (GFAA) et four au graphite (GFAA).*
 - Matrix Modifiers: For the optimization of analytical conditions to provide better Graphite Furnace Atomic Absorption (GFAA) instrument response and improved detection limits. / *Modificateur de matrice: Pour l'optimisation des conditions analytiques afin de fournir des meilleures réponses instrumentales et limites de détection pour SAA four au graphite.*
 - pH Standards: For the calibrating pH meters or for other wet chemistry applications. / *Étalons pH: Pour étalonnage de pH mètres et autres applications de chimie humide.*
 - Conductivity Standards: For electrolytic conductivity measurement as a calibration standard. / *Étalons de conductivité: Comme étalon pour les mesures de conductivité électrolytiques.*
 - IC Standards: for calibration of, but not limited to IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS or other wet chemistry applications. / *Étalons IC: Pour étalonnage d'instruments tels que: IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS et autres applications de chimie humide.*
- For any inquiries, please contact **SCP SCIENCE**. / *Pour toute question, veuillez contacter SCP SCIENCE.*

6.0 INSTRUCTIONS FOR USE / INSTRUCTIONS D'UTILISATION:

Handling and Storage / Manutention et entreposage: Keep product tightly capped when not in use. The solution should be opened for a minimum amount of time necessary to dispense the amount required. Do not pipet or use directly from container. Do not return unused portions back to container. Store under normal laboratory conditions. Avoid exposure to excessive sources of heat and humidity or direct sunlight. / *Garder les contenants bien fermés lorsque non utilisés. Le contenant devrait être ouvert seulement pour le temps requis afin de prélever la quantité nécessaire. Ne pas pipetter ou utiliser directement du contenant. Ne pas retourner les portions non-utilisées dans le contenant. Conserver dans des conditions normales de laboratoire. Éviter l'exposition à des sources de chaleur et d'humidité excessives ou à l'exposition solaire directe.*

Stability / Stabilité: This Standard is guaranteed to be stable and accurate to within the specified uncertainty of measurement up to the unopened expiry date, if sealed, or up to the opened expiry date (when indicated), whichever comes first, provided the solution is kept tightly capped and stored under the indicated storage conditions. Purchasers will be notified of any significant changes resulting in re-certification or withdrawal of the product prior to the expiration date. / *La stabilité et l'exactitude de cet étalon sont garanties d'être à l'intérieur de l'incertitude de mesure, jusqu'à la date d'expiration de la bouteille non-ouverte, si scellée, ou jusqu'à la date d'expiration de la bouteille ouverte (si indiquée), en présumant que le contenant est maintenu fermé et gardé dans les conditions d'entreposage indiquées. Les acheteurs seront avisés dans le cas où il y aura des changements significatifs nécessitant une re-certification ou un rappel du produit avant la date d'expiration.*

7.0 HAZARDOUS INFORMATION / INFORMATION SUR LES RISQUES POTENTIELS:

Please refer to the associated Safety Data Sheet (SDS) for information regarding this product (available at www.SCPSCIENCE.com). / *SVP vous référer à la Fiche Signalétique applicable pour de l'information sur ce produit (Disponible à www.SCPSCIENCE.com).*

8.0 HOMOGENEITY / HOMOGÉNÉITÉ:

This solution has been blended according to an in-house procedure and its homogeneity is guaranteed to be fit for purpose when a sample size sufficient for the intended method of analysis is used. / *Cette solution a été préparée selon une procédure maison et nous assurons que sa homogénéité est approprié à l'emploi lorsqu'un échantillon suffisant pour la méthode d'analyse prévue est utilisé.*

9.0 TRACEABILITY / TRAÇABILITÉ:

This CRM (Certified Reference Material) is traceable to the NIST SRM (Standard Reference Material) indicated in section 2 through an unbroken chain of comparisons. In addition, balances used are regularly calibrated using weights which are traceable to NIST (National Institute of Standards and Technology) or NRC (National Research Council of Canada) standards. All conductivity meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable Thermometer and standards. All pH meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable thermometer and pH/MV simulator. / *Ce matériel de référence certifié est traçable au Matériel de Référence Standardisé de NIST indiqué à la section 2 par une chaîne de comparaison ininterrompue. De plus, les balances utilisées sont étalonnées régulièrement en utilisant des poids qui sont traçables au NIST (National Institute of Standards and Technology) ou au CRNC (Conseil National de Recherches Canada). Tout conductimètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et étalons traçables au NIST ou CNRC. Tout pH mètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et un simulateur pH/MV traçables au NIST ou au CNRC.*

10.0 PREPARATION / PRÉPARATION:

For the preparation of these solutions, 18 megohm/cm double deionized water, high-purity acids and glassware calibrated to ASTM Class A specifications are used. / *Une eau de 18 megohm/cm doublement déionisé, de l'acide de haute pureté, ainsi que de la verrerie étalonnée afin de satisfaire les spécifications Classe A de ASTM ont été utilisés pour la préparation de cet étalon.*

11.0 QUALITY SYSTEM CERTIFICATIONS / CERTIFICATIONS DE SYSTÈME QUALITÉ:

ISO 9001 Certification / Certification ISO 9001: This standard was produced in a facility which operates under a registered ISO 9001 Quality Management System. Please consult our web site for a copy of the most recent revision of our certificate of registration. / *Cet étalon a été fabriqué dans un laboratoire qui utilise un Système de Gestion de la Qualité enregistré à la norme ISO 9001. Veuillez consulter notre site web pour obtenir la version la plus récente de notre certificat d'enregistrement.*

ISO 17025 Accreditation / Accréditation ISO 17025: SCP SCIENCE (Corporate Headquarters) operates an ISO 17025 accredited laboratory. Please consult our web site for a copy of the most recent revision of our certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est accréditée ISO 17025. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

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CORPORATE :

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www.scpscience.com | sales@scpscience.com

Energy Laboratories Inc

Standard LOG

Standard ID: ME211229A AU 2ND SOURCE
Standard Name: Au 2nd source Stock
Date Prepared: 12/29/2021
Date Expires: 12/29/2022
Department: ME
Vendor: SCP Science
Lot Number: S211129013
Balance ID:
Comments: opened 12/29/2021; expires 12/29/2022

Type: Primary
BY: Amanda E. McDani
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------|----------|-----|-------|------------|
| ICP/ICPMS Standard Gold | 14710 | 500 | mL | 12/29/2022 |

Final Volume:
500 mL

Stock Source

Base Units

Amount Added

Analytes

CAS

Conc: **ug/mL**

ID #: 14710

Opened:

ICP/ICPMS Standard Gold

Expires: 12/31/2023

Rec'd: 12/29/2021

Eneray Laboratories Inc 1120 So. 27th Street

Billings MT 59107

SCP SCIENCE

Providing Innovative Solutions to Analytical

Certificate of Analysis**Au****1.0 DESCRIPTION:****PlasmaCAL ICP/ICPMS Standard - Gold 1000 µg/ml**

Catalogue Number: 140-052-790/-791/-795

Starting Material: Gold Metal 99.99+%

Lot Number: **S211129013**

Matrix: 10% HCl (See Section 3 for actual matrix)

Expiration Date (End of month): **December 2023** (or 15 months after bottle is opened, whichever comes first)**2.0 CERTIFIED VALUES AND ASSOCIATED UNCERTAINTY:**Certified Concentration: **1001 µg/ml +/- 4 µg/ml****982 µg/g +/- 4 µg/g**

Method of analysis: Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES)

Traceability: NIST Standard Reference Material 3121 Lot: **991806**

Note: The uncertainty of the certified value has been calculated from applicable uncertainty contributors (u_i) including uncertainty established during characterization of the material (u_{char}), the between bottle variation (u_{bb}), short-term stability (u_{sts}) and long-term stability (u_{lts}) according to the model $u_c = \sqrt{(u_{char}^2 + u_{bb}^2 + u_{sts}^2 + u_{lts}^2)}$. This combined uncertainty has been further multiplied by a coverage factor (k) of 2 to provide a 95% confidence interval.

3.0 REFERENCE VALUES:Density: **1.019 g/ml @ 22.4 °C**Actual Matrix: **10.0% (v/v) HCl**

Trace Metal Impurities as tested by ICP-MS:

| Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) |
|---------|---------------|---------|---------------|---------|---------------|---------|-------------|
| Ag | 0.3851 | Fe | <0.0090 | Nd | <0.0010 | Sn | <0.0010 |
| Al | 0.0062 | Ga | <0.0010 | Ni | <0.0010 | Sr | <0.0025 |
| As | <0.0010 | Gd | <0.0010 | Os | <0.0010 | Ta | <0.0010 |
| Au | N/A | Ge | <0.0010 | P | <0.0132 | Tb | <0.0010 |
| B | <0.0015 | Hf | <0.0010 | Pb | <0.0010 | Te | <0.0010 |
| Ba | <0.0010 | Hg | * | Pd | 0.0434 | Th | <0.0010 |
| Be | <0.0010 | Ho | <0.0010 | Pr | <0.0010 | Ti | <0.0012 |
| Bi | <0.0010 | In | <0.0010 | Pt | 0.0048 | Tl | <0.0011 |
| Ca | <0.0135 | Ir | <0.0010 | Rb | <0.0010 | Tm | <0.0010 |
| Cd | <0.0010 | K | 0.0362 | Re | <0.0010 | U | <0.0010 |
| Ce | <0.0010 | La | <0.0010 | Rh | <0.0010 | V | <0.0010 |
| Co | <0.0010 | Li | <0.0010 | Ru | <0.0010 | W | <0.0020 |
| Cr | <0.0010 | Lu | <0.0010 | S | * | Y | <0.0010 |
| Cs | 0.0029 | Mg | <0.0010 | Sb | <0.0010 | Yb | <0.0010 |
| Cu | 0.0023 | Mn | <0.0010 | Sc | <0.0010 | Zn | <0.0010 |
| Dy | <0.0010 | Mo | <0.0010 | Se | <0.01 | Zr | <0.0010 |
| Er | <0.0010 | Na | 0.0070 | Si | <0.1 | | |
| Eu | <0.0010 | Nb | <0.0010 | Sm | <0.0010 | | |

*: Not tested

4.0 APPROVAL AND DATE OF CERTIFICATION:

Certification Approval: Daniel Boisvert, Chemist

Certification Date: December 10, 2021

Daniel Boisvert

5.0 INTENDED USE / UTILISATION PRÉVUE:

- ICP Standards: For the calibration of, including but not limited to: ICP-AES, ICP-MS, FAAS, GFAA, XRF and DCP. / *Étalons ICP : Pour l'étalonnage d'instruments de mesure tels que: ICP-AES, ICP-MS, FAAS, GFAA, XRF et DCP.*
 - AA Standards: For the calibration of Flame (FAAS) and Graphite Furnace (GFAA) Atomic Absorption Spectrometers. / *Étalons AA : Pour l'étalonnage de spectromètres d'absorption atomique flamme (GFAA) et four au graphite (GFAA).*
 - Matrix Modifiers: For the optimization of analytical conditions to provide better Graphite Furnace Atomic Absorption (GFAA) instrument response and improved detection limits. / *Modificateur de matrice : Pour l'optimisation des conditions analytiques afin de fournir des meilleures réponses instrumentales et limites de détection pour SAA four au graphite.*
 - pH Standards: For the calibrating pH meters or for other wet chemistry applications. / *Étalons pH : Pour étalonnage de pH mètres et autres applications de chimie humide.*
 - Conductivity Standards: For electrolytic conductivity measurement as a calibration standard. / *Étalons de conductivité : Comme étalon pour les mesures de conductivité électrolytiques.*
 - IC Standards: for calibration of, but not limited to IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS or other wet chemistry applications. / *Étalons IC : Pour étalonnage d'instruments tels que : IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS et autres applications de chimie humide.*
- For any inquiries, please contact **SCP SCIENCE**. / *Pour toute question, veuillez contacter SCP SCIENCE.*

6.0 INSTRUCTIONS FOR USE / INSTRUCTIONS D'UTILISATION:

Handling and Storage / Manutention et entreposage: Keep product tightly capped when not in use. The solution should be opened for a minimum amount of time necessary to dispense the amount required. Do not pipet or use directly from container. Do not return unused portions back to container. Store under normal laboratory conditions. Avoid exposure to excessive sources of heat and humidity or direct sunlight. / *Garder les contenants bien fermés lorsque non utilisés. Le contenant devrait être ouvert seulement pour le temps requis afin de prélever la quantité nécessaire. Ne pas pipetter ou utiliser directement du contenant. Ne pas retourner les portions non-utilisées dans le contenant. Conserver dans des conditions normales de laboratoire. Éviter l'exposition à des sources de chaleur et d'humidité excessives ou à l'exposition solaire directe.*

Stability / Stabilité: This Standard is guaranteed to be stable and accurate to within the specified uncertainty of measurement up to the unopened expiry date, if sealed, or up to the opened expiry date (when indicated), whichever comes first, provided the solution is kept tightly capped and stored under the indicated storage conditions. Purchasers will be notified of any significant changes resulting in re-certification or withdrawal of the product prior to the expiration date. / *La stabilité et l'exactitude de cet étalon sont garanties d'être à l'intérieur de l'incertitude de mesure, jusqu'à la date d'expiration de la bouteille non-ouverte, si scellée, ou jusqu'à la date d'expiration de la bouteille ouverte (si indiquée), en présumant que le contenant est maintenu fermé et gardé dans les conditions d'entreposage indiquées. Les acheteurs seront avisés dans le cas où il y aura des changements significatifs nécessitant une re-certification ou un rappel du produit avant la date d'expiration.*

7.0 HAZARDOUS INFORMATION / INFORMATION SUR LES RISQUES POTENTIELS:

Please refer to the associated Safety Data Sheet (SDS) for information regarding this product (available at www.SCPSCIENCE.com). / *SVP vous référer à la Fiche Signalétique applicable pour de l'information sur ce produit (Disponible à www.SCPSCIENCE.com).*

8.0 HOMOGENEITY / HOMOGÉNÉITÉ:

This solution has been blended according to an in-house procedure and its homogeneity is guaranteed to be fit for purpose when a sample size sufficient for the intended method of analysis is used. / *Cette solution a été préparée selon une procédure maison et nous assurons que sa homogénéité est approprié à l'emploi lorsqu'un échantillon suffisant pour la méthode d'analyse prévue est utilisé.*

9.0 TRACEABILITY / TRAÇABILITÉ:

This CRM (Certified Reference Material) is traceable to the NIST SRM (Standard Reference Material) indicated in section 2 through an unbroken chain of comparisons. In addition, balances used are regularly calibrated using weights which are traceable to NIST (National Institute of Standards and Technology) or NRC (National Research Council of Canada) standards. All conductivity meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable thermometer and standards. All pH meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable thermometer and pH/MV simulator. / *Ce matériel de référence certifié est traçable au Matériel de Référence Standardisé de NIST indiqué à la section 2 par une chaîne de comparaison ininterrompue. De plus, les balances utilisées sont étalonnées régulièrement en utilisant des poids qui sont traçables au NIST (National Institute of Standards and Technology) ou au CRNC (Conseil National de Recherches Canada). Tout conductimètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et étalons traçables au NIST ou CNRC. Tout pH mètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et un simulateur pH/MV traçables au NIST ou au CNRC.*

10.0 PREPARATION / PRÉPARATION:

For the preparation of these solutions, 18 meghom/cm double deionized water, high-purity acids and glassware calibrated to ASTM Class A specifications are used. / *Une eau de 18 meghom/cm doublement déionisé, de l'acide de haute pureté, ainsi que de la verrerie étalonnée afin de satisfaire les spécifications Classe A de ASTM ont été utilisés pour la préparation de cet étalon.*

11.0 QUALITY SYSTEM CERTIFICATIONS / CERTIFICATIONS DE SYSTÈME QUALITÉ:

ISO 9001 Certification / Certification ISO 9001: This standard was produced in a facility which operates under a registered ISO 9001 Quality Management System. Please consult our web site for a copy of the most recent revision of our certificate of registration. / *Cet étalon a été fabriqué dans un laboratoire qui utilise un Système de Gestion de la Qualité enregistré à la norme ISO 9001. Veuillez consulter notre site web pour obtenir la version la plus récente de notre certificat d'enregistrement.*

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GERMANY
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Marktoberdorf
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Fax: +49 (0) 8342-89560-69

Energy Laboratories Inc

Standard LOG

Standard ID: ME211208 MSCAL2B
Standard Name: MSCAL 2B
Date Prepared: 12/8/2021
Date Expires: 12/8/2022
Department: ME
Vendor: Inorganic Ventures
Lot Number: S2-MEB704403
Balance ID:
Comments: Opened 12/08/2021; Expires 12/08/2022

Type: Primary
BY: Stacy R. Hendricks
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------------------|----------|-----|-------|-----------|
| Multi Analyte Custom Grade Solution | 13793 | | mL | 12/8/2022 |

Final Volume:
mL

Stock Source

Base Units

Amount Added

Analytes

CAS

Conc: **ug/mL**

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
Catalog Number: EL-MSCAL-2B
Lot Number: S2-MEB704403
Matrix: 5% (v/v) HNO3
Value / Analyte(s):
100 µg/mL ea:
Aluminum, Arsenic,
Boron, Barium,
Beryllium, Cadmium,
Cobalt, Chromium,
Copper, Iron,
Manganese, Nickel,
Lead, Selenium,
Strontium, Thorium,
Thallium, Uranium,
Vanadium, Zinc,
40 µg/mL ea:
Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ID #: 13793

Opened: _____

Multi Analyte Custom Grade Solution

Expires: 4/21/2025

Rec'd: 4/29/2021

Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|--------------|--------------------|---------------|-------------------|
| Aluminum, Al | 100.0 ± 0.4 µg/mL | Arsenic, As | 100.0 ± 0.9 µg/mL |
| Barium, Ba | 100.0 ± 0.5 µg/mL | Beryllium, Be | 100.0 ± 0.7 µg/mL |
| Boron, B | 100.0 ± 0.7 µg/mL | Cadmium, Cd | 100.0 ± 0.5 µg/mL |
| Chromium, Cr | 100.0 ± 0.8 µg/mL | Cobalt, Co | 100.0 ± 0.6 µg/mL |
| Copper, Cu | 100.0 ± 0.5 µg/mL | Iron, Fe | 100.1 ± 0.4 µg/mL |
| Lead, Pb | 100.0 ± 0.6 µg/mL | Manganese, Mn | 100.0 ± 0.5 µg/mL |
| Nickel, Ni | 100.0 ± 0.6 µg/mL | Selenium, Se | 100.0 ± 0.7 µg/mL |
| Silver, Ag | 39.99 ± 0.18 µg/mL | Strontium, Sr | 100.0 ± 0.4 µg/mL |
| Thallium, Tl | 100.0 ± 0.6 µg/mL | Thorium, Th | 100.0 ± 0.5 µg/mL |
| Uranium, U | 100.0 ± 0.5 µg/mL | Vanadium, V | 100.0 ± 0.5 µg/mL |
| Zinc, Zn | 100.0 ± 0.5 µg/mL | | |

Density: 1.033 g/mL (measured at 20 ± 4 °C)

Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---------|-------------|--------------------|--------------|
| Ag | ICP Assay | 3151 | 160729 |
| Ag | Volhard | 999c | 999c |
| Al | ICP Assay | 3101a | 140903 |
| Al | EDTA | 928 | 928 |
| As | ICP Assay | 3103a | 100818 |
| B | ICP Assay | 3107 | 110830 |
| Ba | ICP Assay | 3104a | 140909 |
| Ba | Gravimetric | | See Sec. 4.2 |
| Be | ICP Assay | 3105a | 090514 |
| 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 |
| Mn | ICP Assay | 3132 | 050429 |
| Mn | EDTA | 928 | 928 |
| 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 |
| Sr | EDTA | 928 | 928 |
| Sr | ICP Assay | Traceable to 3153a | K2-SR650985 |
| Sr | Calculated | | See Sec. 4.2 |
| Th | EDTA | 928 | 928 |
| Th | Calculated | | See Sec. 4.2 |
| Tl | ICP Assay | 3158 | 151215 |
| U | ICP Assay | 3164 | 080521 |
| U | 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:

$$X_{CRM/RM} = \sum (w_i) (X_i)$$

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:

$$w_i = (1/u_{char i}^2) / (\sum (1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum ((w_i)^2 (u_{char i}^2))]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope

Uranium 238U

Uranium 235U

Atom %

99.8 ± 0.1

0.24 ± 0.05

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

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = 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 ($\mu\text{g/mL}$)

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

April 21, 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

- **April 21, 2025**

- 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



Energy Laboratories Inc

Standard LOG

Standard ID: ME211229A AU 2ND SOURCE
Standard Name: Au 2nd source Stock
Date Prepared: 12/29/2021
Date Expires: 12/29/2022
Department: ME
Vendor: SCP Science
Lot Number: S211129013
Balance ID:
Comments: opened 12/29/2021; expires 12/29/2022

Type: Primary
BY: Amanda E. McDani
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------|----------|-----|-------|------------|
| ICP/ICPMS Standard Gold | 14710 | 500 | mL | 12/29/2022 |

Final Volume:
500 mL

Stock Source

Base Units

Amount Added

Analytes

CAS

Conc: **ug/mL**

ID #: 14710

Opened:

ICP/ICPMS Standard Gold

Expires: 12/31/2023

Rec'd: 12/29/2021

Eneray Laboratories Inc 1120 So. 27th Street

Billings MT 59107

SCP SCIENC

Providing Innovative Solutions to Analytical

Certificate of Analysis**Au****1.0 DESCRIPTION:****PlasmaCAL ICP/ICPMS Standard - Gold 1000 µg/ml**

Catalogue Number: 140-052-790/-791/-795

Starting Material: Gold Metal 99.99%+

Lot Number: **S211129013**

Matrix: 10% HCl (See Section 3 for actual matrix)

Expiration Date (End of month): **December 2023** (or 15 months after bottle is opened, whichever comes first)**2.0 CERTIFIED VALUES AND ASSOCIATED UNCERTAINTY:**Certified Concentration: **1001 µg/ml +/- 4 µg/ml****982 µg/g +/- 4 µg/g**

Method of analysis: Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES)

Traceability: NIST Standard Reference Material 3121 Lot: **991806**

Note: The uncertainty of the certified value has been calculated from applicable uncertainty contributors (u_i) including uncertainty established during characterization of the material (u_{char}), the between bottle variation (u_{bb}), short-term stability (u_{sts}) and long-term stability (u_{lts}) according to the model $u_c = \sqrt{(u_{char}^2 + u_{bb}^2 + u_{sts}^2 + u_{lts}^2)}$. This combined uncertainty has been further multiplied by a coverage factor (k) of 2 to provide a 95% confidence interval.

3.0 REFERENCE VALUES:Density: **1.019 g/ml @ 22.4 °C**Actual Matrix: **10.0% (v/v) HCl**

Trace Metal Impurities as tested by ICP-MS:

| Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) |
|---------|---------------|---------|---------------|---------|---------------|---------|-------------|
| Ag | 0.3851 | Fe | <0.0090 | Nd | <0.0010 | Sn | <0.0010 |
| Al | 0.0062 | Ga | <0.0010 | Ni | <0.0010 | Sr | <0.0025 |
| As | <0.0010 | Gd | <0.0010 | Os | <0.0010 | Ta | <0.0010 |
| Au | N/A | Ge | <0.0010 | P | <0.0132 | Tb | <0.0010 |
| B | <0.0015 | Hf | <0.0010 | Pb | <0.0010 | Te | <0.0010 |
| Ba | <0.0010 | Hg | * | Pd | 0.0434 | Th | <0.0010 |
| Be | <0.0010 | Ho | <0.0010 | Pr | <0.0010 | Ti | <0.0012 |
| Bi | <0.0010 | In | <0.0010 | Pt | 0.0048 | Tl | <0.0011 |
| Ca | <0.0135 | Ir | <0.0010 | Rb | <0.0010 | Tm | <0.0010 |
| Cd | <0.0010 | K | 0.0362 | Re | <0.0010 | U | <0.0010 |
| Ce | <0.0010 | La | <0.0010 | Rh | <0.0010 | V | <0.0010 |
| Co | <0.0010 | Li | <0.0010 | Ru | <0.0010 | W | <0.0020 |
| Cr | <0.0010 | Lu | <0.0010 | S | * | Y | <0.0010 |
| Cs | 0.0029 | Mg | <0.0010 | Sb | <0.0010 | Yb | <0.0010 |
| Cu | 0.0023 | Mn | <0.0010 | Sc | <0.0010 | Zn | <0.0010 |
| Dy | <0.0010 | Mo | <0.0010 | Se | <0.01 | Zr | <0.0010 |
| Er | <0.0010 | Na | 0.0070 | Si | <0.1 | | |
| Eu | <0.0010 | Nb | <0.0010 | Sm | <0.0010 | | |

*: Not tested

4.0 APPROVAL AND DATE OF CERTIFICATION:

Certification Approval: Daniel Boisvert, Chemist

Certification Date: December 10, 2021

Daniel Boisvert

5.0 INTENDED USE / UTILISATION PRÉVUE:

- ICP Standards: For the calibration of, including but not limited to: ICP-AES, ICP-MS, FAAS, GFAA, XRF and DCP. / *Étalons ICP* : Pour l'étalonnage d'instruments de mesure tels que: ICP-AES, ICP-MS, FAAS, GFAA, XRF et DCP.
 - AA Standards: For the calibration of Flame (FAAS) and Graphite Furnace (GFAA) Atomic Absorption Spectrometers. / *Étalons AA* : Pour l'étalonnage de spectromètres d'absorption atomique flamme (GFAA) et four au graphite (GFAA).
 - Matrix Modifiers: For the optimization of analytical conditions to provide better Graphite Furnace Atomic Absorption (GFAA) instrument response and improved detection limits. / *Modificateur de matrice* : Pour l'optimisation des conditions analytiques afin de fournir des meilleures réponses instrumentales et limites de détection pour SAA four au graphite.
 - pH Standards: For the calibrating pH meters or for other wet chemistry applications. / *Étalons pH* : Pour étalonnage de pH mètres et autres applications de chimie humide.
 - Conductivity Standards: For electrolytic conductivity measurement as a calibration standard. / *Étalons de conductivité* : Comme étalon pour les mesures de conductivité électrolytiques.
 - IC Standards: for calibration of, but not limited to IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS or other wet chemistry applications. / *Étalons IC* : Pour étalonnage d'instruments tels que : IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS et autres applications de chimie humide.
 For any inquiries, please contact **SCP SCIENCE**. / *Pour toute question, veuillez contacter SCP SCIENCE.*

6.0 INSTRUCTIONS FOR USE / INSTRUCTIONS D'UTILISATION:

Handling and Storage / Manutention et entreposage: Keep product tightly capped when not in use. The solution should be opened for a minimum amount of time necessary to dispense the amount required. Do not pipet or use directly from container. Do not return unused portions back to container. Store under normal laboratory conditions. Avoid exposure to excessive sources of heat and humidity or direct sunlight. / *Garder les contenants bien fermés lorsque non utilisés. Le contenant devrait être ouvert seulement pour le temps requis afin de prélever la quantité nécessaire. Ne pas pipetter ou utiliser directement du contenant. Ne pas retourner les portions non-utilisées dans le contenant. Conserver dans des conditions normales de laboratoire. Éviter l'exposition à des sources de chaleur et d'humidité excessives ou à l'exposition solaire directe.*

Stability / Stabilité: This Standard is guaranteed to be stable and accurate to within the specified uncertainty of measurement up to the unopened expiry date, if sealed, or up to the opened expiry date (when indicated), whichever comes first, provided the solution is kept tightly capped and stored under the indicated storage conditions. Purchasers will be notified of any significant changes resulting in re-certification or withdrawal of the product prior to the expiration date. / *La stabilité et l'exactitude de cet étalon sont garanties d'être à l'intérieur de l'incertitude de mesure, jusqu'à la date d'expiration de la bouteille non-ouverte, si scellée, ou jusqu'à la date d'expiration de la bouteille ouverte (si indiquée), en présumant que le contenant est maintenu fermé et gardé dans les conditions d'entreposage indiquées. Les acheteurs seront avisés dans le cas où il y aura des changements significatifs nécessitant une re-certification ou un rappel du produit avant la date d'expiration.*

7.0 HAZARDOUS INFORMATION / INFORMATION SUR LES RISQUES POTENTIELS:

Please refer to the associated Safety Data Sheet (SDS) for information regarding this product (available at www.SCPSCIENCE.com). / *SVP vous référer à la Fiche Signalétique applicable pour de l'information sur ce produit (Disponible à www.SCPSCIENCE.com).*

8.0 HOMOGENEITY / HOMOGÉNÉITÉ:

This solution has been blended according to an in-house procedure and its homogeneity is guaranteed to be fit for purpose when a sample size sufficient for the intended method of analysis is used. / *Cette solution a été préparée selon une procédure maison et nous assurons que sa homogénéité est approprié à l'emploi lorsqu'un échantillon suffisant pour la méthode d'analyse prévue est utilisé.*

9.0 TRACEABILITY / TRAÇABILITÉ:

This CRM (Certified Reference Material) is traceable to the NIST SRM (Standard Reference Material) indicated in section 2 through an unbroken chain of comparisons. In addition, balances used are regularly calibrated using weights which are traceable to NIST (National Institute of Standards and Technology) or NRC (National Research Council of Canada) standards. All conductivity meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable Thermometer and standards. All pH meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable thermometer and pH/MV simulator. / *Ce matériel de référence certifié est traçable au Matériel de Référence Standardisé de NIST indiqué à la section 2 par une chaîne de comparaison ininterrompue. De plus, les balances utilisées sont étalonnées régulièrement en utilisant des poids qui sont traçables au NIST (National Institute of Standards and Technology) ou au CRNC (Conseil National de Recherches Canada). Tout conductimètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et étalons traçables au NIST ou CNRC. Tout pH mètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et un simulateur pH/MV traçables au NIST ou au CNRC.*

10.0 PREPARATION / PRÉPARATION:

For the preparation of these solutions, 18 meghom/cm double deionized water, high-purity acids and glassware calibrated to ASTM Class A specifications are used. / *Une eau de 18 meghom/cm doublement déionisé, de l'acide de haute pureté, ainsi que de la verrerie étalonnée afin de satisfaire les spécifications Classe A de ASTM ont été utilisés pour la préparation de cet étalon.*

11.0 QUALITY SYSTEM CERTIFICATIONS / CERTIFICATIONS DE SYSTÈME QUALITÉ:

ISO 9001 Certification / Certification ISO 9001: This standard was produced in a facility which operates under a registered ISO 9001 Quality Management System. Please consult our web site for a copy of the most recent revision of our certificate of registration. / *Cet étalon a été fabriqué dans un laboratoire qui utilise un Système de Gestion de la Qualité enregistré à la norme ISO 9001. Veuillez consulter notre site web pour obtenir la version la plus récente de notre certificat d'enregistrement.*

ISO 17025 Accreditation / Accréditation ISO 17025: SCP SCIENCE (Corporate Headquarters) operates an ISO 17025 accredited laboratory. Please consult our web site for a copy of the most recent revision of our certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est accréditée ISO 17025. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

ISO 17034 Accreditation / Accréditation ISO 17034: SCP SCIENCE (Corporate Headquarters) is an ISO 17034 accredited Reference Material Producer. Please consult our website for a copy of our most recent certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est un Fabricant de Matériaux de Référence Accrédité ISO 17034. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

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Fax: +33 (0) 1 60 92 05 67

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Marktoberdorf
Phone: +49 (0) 8342-89560-61
Fax: +49 (0) 8342-89560-69

Energy Laboratories Inc

Standard LOG

Standard ID: ME220110 CE, LA PRIMARY
Standard Name: Ce, La Primary Type: Secondary
Date Prepared: 1/10/2022 BY: Amanda E. McDani
Date Expires: 1/6/2023
Department: ME Status: Open
Vendor: Inorganic Ventures
Lot Number: M2-CE657768/M2-
Balance ID:
Comments: Used to make standards and spiking solutions; No primary La available

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------------|----------|------|-------|------------|
| Nitric Acid 69.0- 70.0% D0521 | 14626 | 0.5 | mL | 12/14/2026 |
| Milli-Q H2O | 391 | 39.5 | mL | 6/1/2100 |

Final Volume:
50 mL

Stock Source

ME220106-CE Ce Primary Stock

Base Units

ug/mL

Amount Added

5 mL

Analytes

CAS

Conc: ug/mL

Energy Laboratories Inc

Standard LOG

Standard ID: ME220112 50 PPB STANDARD_CCV
 Standard Name: 50 ppb Standard/CCV
 Date Prepared: 1/12/2022
 Date Expires: 11/18/2022
 Department: ME
 Vendor: Inorganic Ventures
 Lot Number:
 Balance ID:
 Comments: Made Fresh Daily

Type: Secondary
 BY: Cindy Rohrer
 Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------------|----------|--------|-------|------------|
| Hydrochloric Acid E1421 | 14721 | 0.25 | mL | 1/4/2027 |
| Nitric Acid 69.0- 70.0% D0521 | 14626 | 0.5 | mL | 12/14/2026 |
| Milli-Q H2O | 391 | 48.335 | mL | 6/1/2100 |

Final Volume:
100 mL

Stock Source

ME211221 MSCAL MSCAL 3C
 ME211118 MSCAL EL-MSCAL-5A
 ME220105 HgPrim Primary Hg Stock 2 PPM
 ME211208 MSCAL MSCAL 2B
 ME211229A AU 2n Au 2nd source Stock
 ME220110 Ce, La Ce, La Primary

Base Units

ug/mL
 ug/mL
 ug/mL
 ug/mL
 ug/mL
 ug/mL

Amount Added

0.05 mL
 0.25 mL
 0.05 mL
 0.05 mL
 0.01 mL
 0.05 mL

Analytes

CAS

Conc: **mg/L**

Energy Laboratories Inc

Standard LOG

Standard ID: ME211221 MSCAL 3C
Standard Name: MSCAL 3C
Date Prepared: 12/21/2021
Date Expires: 12/21/2022
Department: ME
Vendor: Inorganic Ventures
Lot Number: S2-MEB700780
Balance ID:
Comments: Opened 12/21/21; expires 12/21/22

Type: Primary
BY: Stacy R. Hendricks
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------------------|----------|-----|-------|------------|
| Multi Analyte Custom Grade Solution | 13473 | 250 | mL | 12/21/2022 |

Final Volume:
250 mL

Stock Source

Base Units

Amount Added

Analytes

CAS

Conc: **ug/mL**

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).


2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
 Catalog Number: EL-MSCAL-3C
 Lot Number: S2-MEB700780
 Matrix: 3% (v/v) HNO₃
 tr. HF
 Value / Analyte(s): 400 µg/mL ea:
 Silicon,
 100 µg/mL ea:
 Tin,
 Molybdenum,

1-6-2025

ID #: 13473
 Opened: _____
 Multi Analyte Custom Grade Solution
Expires: 1/6/2025
 Rec'd: 1/15/2021
 Energy Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

Titanium,
 Antimony

3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|--------------|-------------------|----------------|-------------------|
| Antimony, Sb | 100.0 ± 0.8 µg/mL | Molybdenum, Mo | 100.0 ± 0.6 µg/mL |
| Silicon, Si | 399.9 ± 3.0 µg/mL | Tin, Sn | 100.0 ± 0.6 µg/mL |
| Titanium, Ti | 100.0 ± 0.7 µg/mL | | |

Density: 1.018 g/mL (measured at 20 ± 4 °C)

Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---------|-----------|-----------|----------|
| Mo | ICP Assay | 3134 | 130418 |
| Sb | ICP Assay | 3102a | 140911 |
| Si | ICP Assay | 3150 | 130912 |
| Sn | ICP Assay | 3161a | 140917 |
| Ti | ICP Assay | 3162a | 130925 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i})^2 / (\sum(1/u_{\text{char } i})^2)$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = (\sum(w_i)^2 (u_{\text{char } i})^2)^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) / (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = 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 ($\mu\text{g/mL}$)

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° \pm 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800 669 6799; 540 585 3030, Fax: 540 585 3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 06, 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

- **January 06, 2025**

- 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



Energy Laboratories Inc

Standard LOG

Standard ID: ME211118 MSCAL-5A
Standard Name: EL-MSCAL-5A
Date Prepared: 11/18/2021
Date Expires: 11/18/2022
Department: ME
Vendor: Inorganic Ventures
Lot Number: P2-MEB687200
Balance ID:
Comments: Opened 11/18/2021; Expires 11/18/2022

Type: Primary
BY: Stacy R. Hendricks
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------------------|----------|-----|-------|------------|
| Multi Analyte Custom Grade Solution | 13175 | 500 | mL | 11/18/2022 |

Final Volume:
500 mL

Stock Source

Base Units

Amount Added

Analytes

CAS

Conc: **ug/mL**

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution

Catalog Number: EL-MSCAL-5A

Lot Number: P2-MEB687200

Matrix: 3% (v/v) HNO₃

Value / Analyte(s): 5 000 µg/mL ea:
 Calcium, Potassium, Magnesium,
 Sodium,

500 µg/mL ea:
 Phosphorus, Iron,

250 µg/mL ea:
 Lithium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|---------------|-------------------|---------------|-------------------|
| Calcium, Ca | 5 000 ± 20 µg/mL | Iron, Fe | 499.9 ± 2.1 µg/mL |
| Lithium, Li | 250.0 ± 1.1 µg/mL | Magnesium, Mg | 5 000 ± 21 µg/mL |
| Phosphorus, P | 499.8 ± 2.5 µg/mL | Potassium, K | 5 000 ± 18 µg/mL |
| Sodium, Na | 5 000 ± 18 µg/mL | | |

Density: 1.076 g/mL (measured at 20 ± 4 °C)

Assay Information:

ID #: 13175
 Opened: _____
 Multi Analyte Custom Grade Solution
Expires: 12/2/2023
 Rec'd: 10/12/2020
 Energy Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---------|-------------|-----------|--------------|
| Ca | ICP Assay | 3109a | 130213 |
| Ca | EDTA | 928 | 928 |
| Fe | ICP Assay | 3126a | 140812 |
| Fe | EDTA | 928 | 928 |
| K | ICP Assay | 3141a | 140813 |
| K | Gravimetric | | See Sec. 4.2 |
| Li | ICP Assay | 3129a | 100714 |
| Li | Gravimetric | | See Sec. 4.2 |
| Mg | ICP Assay | 3131a | 140110 |
| Mg | EDTA | 928 | 928 |
| Na | ICP Assay | 3152a | 120715 |
| Na | Gravimetric | | See Sec. 4.2 |
| P | ICP Assay | 3139a | 060717 |
| P | Acidimetric | 84L | 84L |

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:

$$X_{CRM/RM} = \sum(w_i) (X_i)$$

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:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = \{ \sum((w_i)^2 (u_{char i}^2)) \}^{1/2}$ 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

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

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 ($\mu\text{g/mL}$)

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 outer bag.

- While stored in the sealed outer bag, transpiration of this CRM/RM is negligible. After opening the sealed outer 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 outer 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.

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, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 02, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 02, 2023**

- 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 outer 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
Manager, Quality Control



Certifying Officer:

Paul Gaines
CEO, Senior Technical Director



Energy Laboratories Inc

Spike LOG

Standard ID: ME220105 HGPRIMARY
Standard Name: Primary Hg Stock 2 PPM
Date Prepared: 1/5/2022
Date Expires: 12/29/2022
Department: ME
Vendor: Inorganic Ventures
Lot Number:
Balance ID:
Type: Secondary
BY: Amanda E. McDani
Status: Open
Comments: Made with different HG stock than QCS

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------------|----------|------|-------|------------|
| Nitric Acid 69.0- 70.0% D0521 | 14626 | 0.5 | mL | 12/14/2026 |
| Hydrochloric Acid E1421 | 14721 | 0.25 | mL | 1/4/2027 |

Final Volume:
25 mL

Stock Source

ME220110HG HG Stock
ME211229A AU 2N Au 2nd source Stock

Base Units

ug/mL
ug/mL

Amount Added

0.05 mL
0.05 mL

Analytes

CAS

Conc: ug/mL

Energy Laboratories Inc

Standard LOG

Standard ID: ME220110HG
Standard Name: HG Stock
Date Prepared: 1/10/2022
Date Expires: 1/10/2023
Department: ME
Vendor: SCP Science
Lot Number: S210729017
Balance ID:
Comments:

Type: Primary
BY: Amanda E. McDani
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|----------------------------|----------|-----|-------|-----------|
| ICP/ICPMS Standard Mercury | 14711 | 125 | mL | 1/10/2023 |

Final Volume:
125 mL

Stock Source

Base Units

Amount Added

Analytes

CAS

Conc: **ug/mL**

ID #: 14711

Opened: _____

ICP/ICPMS Standard Mercury

Expires: 7/31/2023

Rec'd: 12/29/2021

Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

SCP SCIENCE

Providing Innovative Solutions to Analytical Chemists

rtificate of Analysis

Hg

1.0 DESCRIPTION:

PlasmaCAL ICP/ICPMS Standard - Mercury 1000 µg/ml
 Catalogue Number: 140-051-800/-801/-805
 Starting Material: Mercury(II) oxide 99.99+%
 Lot Number: **S210729017**
 Matrix: 10% HNO₃ (See Section 3 for actual matrix)
 Expiration Date (End of month): **July 2023** (or 15 months after bottle is opened, whichever comes first)

2.0 CERTIFIED VALUES AND ASSOCIATED UNCERTAINTY:

Certified Concentration: **999 µg/ml +/- 5 µg/ml**
952 µg/g +/- 5 µg/g
 Method of analysis: Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES)
 Traceability: NIST Standard Reference Material 3133 Lot: **160921**

Note: The uncertainty of the certified value has been calculated from applicable uncertainty contributors (u_i) including uncertainty established during characterization of the material (u_{char}), the between bottle variation (u_{bb}), short-term stability (u_{sts}) and long-term stability (u_{lts}) according to the model $u_c = \sqrt{(u_{char}^2 + u_{bb}^2 + u_{sts}^2 + u_{lts}^2)}$. This combined uncertainty has been further multiplied by a coverage factor (k) of 2 to provide a 95% confidence interval.

3.0 REFERENCE VALUES:

Density: **1.050 g/ml @ 23.6 °C**
 Actual Matrix: **10.0% (v/v) HNO₃**

Trace Metal Impurities as tested by ICP-MS:

| Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) |
|---------|---------------|---------|---------------|---------|---------------|---------|---------------|
| Ag | <0.0010 | Fe | 0.0322 | Nd | <0.0010 | Sn | <0.0010 |
| Al | 0.0042 | Ga | <0.0010 | Ni | 0.0039 | Sr | <0.0025 |
| As | <0.0010 | Gd | <0.0010 | Os | <0.0010 | Ta | <0.0010 |
| Au | <0.0010 | Ge | <0.0010 | P | <0.0132 | Tb | <0.0010 |
| B | <0.0015 | Hf | <0.0010 | Pb | <0.0010 | Te | <0.0010 |
| Ba | <0.0010 | Hg | N/A | Pd | <0.0010 | Th | <0.0010 |
| Be | <0.0010 | Ho | <0.0010 | Pr | <0.0010 | Ti | <0.0012 |
| Bi | <0.0010 | In | <0.0010 | Pt | <0.0010 | Tl | 0.0117 |
| Ca | <0.0135 | Ir | <0.0010 | Rb | <0.0010 | Tm | <0.0010 |
| Cd | <0.0010 | K | <0.0024 | Re | <0.0010 | U | <0.0010 |
| Ce | <0.0010 | La | <0.0010 | Rh | <0.0010 | V | <0.0010 |
| Co | <0.0010 | Li | <0.0010 | Ru | <0.0010 | W | <0.0020 |
| Cr | 0.0112 | Lu | <0.0010 | S | * | Y | <0.0010 |
| Cs | <0.0010 | Mg | <0.0010 | Sb | <0.0010 | Yb | <0.0010 |
| Cu | 0.0060 | Mn | <0.0010 | Sc | <0.0010 | Zn | <0.0010 |
| Dy | <0.0010 | Mo | <0.0010 | Se | <0.0010 | Zr | <0.0010 |
| Er | <0.0010 | Na | 0.0092 | Si | <0.1 | | |
| Eu | <0.0010 | Nb | <0.0010 | Sm | <0.0010 | | |

*: Not tested

4.0 APPROVAL AND DATE OF CERTIFICATION:

Certification Approval: Daniel Boisvert, Chemist
 Certification Date: August 12, 2021



5.0 INTENDED USE / UTILISATION PRÉVUE:

- ICP Standards: For the calibration of, including but not limited to: ICP-AES, ICP-MS, FAAS, GFAA, XRF and DCP. / *Étalons ICP: Pour l'étalonnage d'instruments de mesure tels que: ICP-AES, ICP-MS, FAAS, GFAA, XRF et DCP.*
 - AA Standards: For the calibration of Flame (FAAS) and Graphite Furnace (GFAA) Atomic Absorption Spectrometers. / *Étalons AA: Pour l'étalonnage de spectromètres d'absorption atomique flamme (GFAA) et four au graphite (GFAA).*
 - Matrix Modifiers: For the optimization of analytical conditions to provide better Graphite Furnace Atomic Absorption (GFAA) instrument response and improved detection limits. / *Modificateur de matrice: Pour l'optimisation des conditions analytiques afin de fournir des meilleures réponses instrumentales et limites de détection pour SAA four au graphite.*
 - pH Standards: For the calibrating pH meters or for other wet chemistry applications. / *Étalons pH: Pour étalonnage de pH mètres et autres applications de chimie humide.*
 - Conductivity Standards: For electrolytic conductivity measurement as a calibration standard. / *Étalons de conductivité: Comme étalon pour les mesures de conductivité électrolytiques.*
 - IC Standards: for calibration of, but not limited to IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS or other wet chemistry applications. / *Étalons IC: Pour étalonnage d'instruments tels que: IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS et autres applications de chimie humide.*
- For any inquiries, please contact **SCP SCIENCE**. / *Pour toute question, veuillez contacter SCP SCIENCE.*

6.0 INSTRUCTIONS FOR USE / INSTRUCTIONS D'UTILISATION:

Handling and Storage / Manutention et entreposage: Keep product tightly capped when not in use. The solution should be opened for a minimum amount of time necessary to dispense the amount required. Do not pipet or use directly from container. Do not return unused portions back to container. Store under normal laboratory conditions. Avoid exposure to excessive sources of heat and humidity or direct sunlight. / *Garder les contenants bien fermés lorsque non utilisés. Le contenant devrait être ouvert seulement pour le temps requis afin de prélever la quantité nécessaire. Ne pas pipetter ou utiliser directement du contenant. Ne pas retourner les portions non-utilisées dans le contenant. Conserver dans des conditions normales de laboratoire. Éviter l'exposition à des sources de chaleur et d'humidité excessives ou à l'exposition solaire directe.*

Stability / Stabilité: This Standard is guaranteed to be stable and accurate to within the specified uncertainty of measurement up to the unopened expiry date, if sealed, or up to the opened expiry date (when indicated), whichever comes first, provided the solution is kept tightly capped and stored under the indicated storage conditions. Purchasers will be notified of any significant changes resulting in re-certification or withdrawal of the product prior to the expiration date. / *La stabilité et l'exactitude de cet étalon sont garanties d'être à l'intérieur de l'incertitude de mesure, jusqu'à la date d'expiration de la bouteille non-ouverte, si scellée, ou jusqu'à la date d'expiration de la bouteille ouverte (si indiquée), en présumant que le contenant est maintenu fermé et gardé dans les conditions d'entreposage indiquées. Les acheteurs seront avisés dans le cas où il y aura des changements significatifs nécessitant une re-certification ou un rappel du produit avant la date d'expiration.*

7.0 HAZARDOUS INFORMATION / INFORMATION SUR LES RISQUES POTENTIELS:

Please refer to the associated Safety Data Sheet (SDS) for information regarding this product (available at www.SCPSCIENCE.com). / *SVP vous référer à la Fiche Signalétique applicable pour de l'information sur ce produit (Disponible à www.SCPSCIENCE.com).*

8.0 HOMOGENEITY / HOMOGÉNÉITÉ:

This solution has been blended according to an in-house procedure and its homogeneity is guaranteed to be fit for purpose when a sample size sufficient for the intended method of analysis is used. / *Cette solution a été préparée selon une procédure maison et nous assurons que sa homogénéité est approprié à l'emploi lorsqu'un échantillon suffisant pour la méthode d'analyse prévue est utilisé.*

9.0 TRACEABILITY / TRAÇABILITÉ:

This CRM (Certified Reference Material) is traceable to the NIST SRM (Standard Reference Material) indicated in section 2 through an unbroken chain of comparisons. In addition, balances used are regularly calibrated using weights which are traceable to NIST (National Institute of Standards and Technology) or NRC (National Research Council of Canada) standards. All conductivity meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable thermometer and standards. All pH meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable thermometer and pH/MV simulator. / *Ce matériel de référence certifié est traçable au Matériel de Référence Standardisé de NIST indiqué à la section 2 par une chaîne de comparaison ininterrompue. De plus, les balances utilisées sont étalonnées régulièrement en utilisant des poids qui sont traçables au NIST (National Institute of Standards and Technology) ou au CRNC (Conseil National de Recherches Canada). Tout conductimètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et étalons traçables au NIST ou CNRC. Tout pH mètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et un simulateur pH/MV traçables au NIST ou au CNRC.*

10.0 PREPARATION / PRÉPARATION:

For the preparation of these solutions, 18 megohm/cm double deionized water, high-purity acids and glassware calibrated to ASTM Class A specifications are used. / *Une eau de 18 megohm/cm doublement déionisé, de l'acide de haute pureté, ainsi que de la verrerie étalonnée afin de satisfaire les spécifications Classe A de ASTM ont été utilisés pour la préparation de cet étalon.*

11.0 QUALITY SYSTEM CERTIFICATIONS / CERTIFICATIONS DE SYSTÈME QUALITÉ:

ISO 9001 Certification / Certification ISO 9001: This standard was produced in a facility which operates under a registered ISO 9001 Quality Management System. Please consult our web site for a copy of the most recent revision of our certificate of registration. / *Cet étalon a été fabriqué dans un laboratoire qui utilise un Système de Gestion de la Qualité enregistré à la norme ISO 9001. Veuillez consulter notre site web pour obtenir la version la plus récente de notre certificat d'enregistrement.*

ISO 17025 Accreditation / Accréditation ISO 17025: SCP SCIENCE (Corporate Headquarters) operates an ISO 17025 accredited laboratory. Please consult our web site for a copy of the most recent revision of our certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est accréditée ISO 17025. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

ISO 17034 Accreditation / Accréditation ISO 17034: SCP SCIENCE (Corporate Headquarters) is an ISO 17034 accredited Reference Material Producer. Please consult our website for a copy of our most recent certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est un Fabricant de Matériaux de Référence Accrédité ISO 17034. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

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CORPORATE :

Phone: +1 (514) 457-0701 | Fax: +1 (514) 457-4499

www.scpscience.com | sales@scpscience.com

Energy Laboratories Inc

Standard LOG

Standard ID: ME211229A AU 2ND SOURCE
Standard Name: Au 2nd source Stock
Date Prepared: 12/29/2021
Date Expires: 12/29/2022
Department: ME
Vendor: SCP Science
Lot Number: S211129013
Balance ID:
Comments: opened 12/29/2021; expires 12/29/2022

Type: Primary
BY: Amanda E. McDani
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------|----------|-----|-------|------------|
| ICP/ICPMS Standard Gold | 14710 | 500 | mL | 12/29/2022 |

Final Volume:
500 mL

Stock Source

Base Units

Amount Added

Analytes

CAS

Conc: **ug/mL**

ID #: 14710

Opened:

ICP/ICPMS Standard Gold

Expires: 12/31/2023

Rec'd: 12/29/2021

Eneray Laboratories Inc 1120 So. 27th Street

Billings MT 59107

SCP SCIENC

Providing Innovative Solutions to Analytical

Certificate of Analysis**Au****1.0 DESCRIPTION:****PlasmaCAL ICP/ICPMS Standard - Gold 1000 µg/ml**

Catalogue Number: 140-052-790/-791/-795

Starting Material: Gold Metal 99.99%+

Lot Number: **S211129013**

Matrix: 10% HCl (See Section 3 for actual matrix)

Expiration Date (End of month): **December 2023** (or 15 months after bottle is opened, whichever comes first)**2.0 CERTIFIED VALUES AND ASSOCIATED UNCERTAINTY:**Certified Concentration: **1001 µg/ml +/- 4 µg/ml****982 µg/g +/- 4 µg/g**

Method of analysis: Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES)

Traceability: NIST Standard Reference Material 3121 Lot: **991806**

Note: The uncertainty of the certified value has been calculated from applicable uncertainty contributors (u_i) including uncertainty established during characterization of the material (u_{char}), the between bottle variation (u_{bb}), short-term stability (u_{sts}) and long-term stability (u_{lts}) according to the model $u_c = \sqrt{(u_{char}^2 + u_{bb}^2 + u_{sts}^2 + u_{lts}^2)}$. This combined uncertainty has been further multiplied by a coverage factor (k) of 2 to provide a 95% confidence interval.

3.0 REFERENCE VALUES:Density: **1.019 g/ml @ 22.4 °C**Actual Matrix: **10.0% (v/v) HCl**

Trace Metal Impurities as tested by ICP-MS:

| Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) |
|---------|---------------|---------|---------------|---------|---------------|---------|-------------|
| Ag | 0.3851 | Fe | <0.0090 | Nd | <0.0010 | Sn | <0.0010 |
| Al | 0.0062 | Ga | <0.0010 | Ni | <0.0010 | Sr | <0.0025 |
| As | <0.0010 | Gd | <0.0010 | Os | <0.0010 | Ta | <0.0010 |
| Au | N/A | Ge | <0.0010 | P | <0.0132 | Tb | <0.0010 |
| B | <0.0015 | Hf | <0.0010 | Pb | <0.0010 | Te | <0.0010 |
| Ba | <0.0010 | Hg | * | Pd | 0.0434 | Th | <0.0010 |
| Be | <0.0010 | Ho | <0.0010 | Pr | <0.0010 | Ti | <0.0012 |
| Bi | <0.0010 | In | <0.0010 | Pt | 0.0048 | Tl | <0.0011 |
| Ca | <0.0135 | Ir | <0.0010 | Rb | <0.0010 | Tm | <0.0010 |
| Cd | <0.0010 | K | 0.0362 | Re | <0.0010 | U | <0.0010 |
| Ce | <0.0010 | La | <0.0010 | Rh | <0.0010 | V | <0.0010 |
| Co | <0.0010 | Li | <0.0010 | Ru | <0.0010 | W | <0.0020 |
| Cr | <0.0010 | Lu | <0.0010 | S | * | Y | <0.0010 |
| Cs | 0.0029 | Mg | <0.0010 | Sb | <0.0010 | Yb | <0.0010 |
| Cu | 0.0023 | Mn | <0.0010 | Sc | <0.0010 | Zn | <0.0010 |
| Dy | <0.0010 | Mo | <0.0010 | Se | <0.01 | Zr | <0.0010 |
| Er | <0.0010 | Na | 0.0070 | Si | <0.1 | | |
| Eu | <0.0010 | Nb | <0.0010 | Sm | <0.0010 | | |

*: Not tested

4.0 APPROVAL AND DATE OF CERTIFICATION:

Certification Approval: Daniel Boisvert, Chemist

Certification Date: December 10, 2021

Daniel Boisvert

5.0 INTENDED USE / UTILISATION PRÉVUE:

- ICP Standards: For the calibration of, including but not limited to: ICP-AES, ICP-MS, FAAS, GFAA, XRF and DCP. / *Étalons ICP* : Pour l'étalonnage d'instruments de mesure tels que: ICP-AES, ICP-MS, FAAS, GFAA, XRF et DCP.
 - AA Standards: For the calibration of Flame (FAAS) and Graphite Furnace (GFAA) Atomic Absorption Spectrometers. / *Étalons AA* : Pour l'étalonnage de spectromètres d'absorption atomique flamme (GFAA) et four au graphite (GFAA).
 - Matrix Modifiers: For the optimization of analytical conditions to provide better Graphite Furnace Atomic Absorption (GFAA) instrument response and improved detection limits. / *Modificateur de matrice* : Pour l'optimisation des conditions analytiques afin de fournir des meilleures réponses instrumentales et limites de détection pour SAA four au graphite.
 - pH Standards: For the calibrating pH meters or for other wet chemistry applications. / *Étalons pH* : Pour étalonnage de pH mètres et autres applications de chimie humide.
 - Conductivity Standards: For electrolytic conductivity measurement as a calibration standard. / *Étalons de conductivité* : Comme étalon pour les mesures de conductivité électrolytiques.
 - IC Standards: for calibration of, but not limited to IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS or other wet chemistry applications. / *Étalons IC* : Pour étalonnage d'instruments tels que : IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS et autres applications de chimie humide.
- For any inquiries, please contact **SCP SCIENCE**. / Pour toute question, veuillez contacter **SCP SCIENCE**.

6.0 INSTRUCTIONS FOR USE / INSTRUCTIONS D'UTILISATION:

Handling and Storage / Manutention et entreposage: Keep product tightly capped when not in use. The solution should be opened for a minimum amount of time necessary to dispense the amount required. Do not pipet or use directly from container. Do not return unused portions back to container. Store under normal laboratory conditions. Avoid exposure to excessive sources of heat and humidity or direct sunlight. / *Garder les contenants bien fermés lorsque non utilisés. Le contenant devrait être ouvert seulement pour le temps requis afin de prélever la quantité nécessaire. Ne pas pipetter ou utiliser directement du contenant. Ne pas retourner les portions non-utilisées dans le contenant. Conserver dans des conditions normales de laboratoire. Éviter l'exposition à des sources de chaleur et d'humidité excessives ou à l'exposition solaire directe.*

Stability / Stabilité: This Standard is guaranteed to be stable and accurate to within the specified uncertainty of measurement up to the unopened expiry date, if sealed, or up to the opened expiry date (when indicated), whichever comes first, provided the solution is kept tightly capped and stored under the indicated storage conditions. Purchasers will be notified of any significant changes resulting in re-certification or withdrawal of the product prior to the expiration date. / *La stabilité et l'exactitude de cet étalon sont garanties d'être à l'intérieur de l'incertitude de mesure, jusqu'à la date d'expiration de la bouteille non-ouverte, si scellée, ou jusqu'à la date d'expiration de la bouteille ouverte (si indiquée), en présumant que le contenant est maintenu fermé et gardé dans les conditions d'entreposage indiquées. Les acheteurs seront avisés dans le cas où il y aura des changements significatifs nécessitant une re-certification ou un rappel du produit avant la date d'expiration.*

7.0 HAZARDOUS INFORMATION / INFORMATION SUR LES RISQUES POTENTIELS:

Please refer to the associated Safety Data Sheet (SDS) for information regarding this product (available at www.SCPSCIENCE.com). / *SVP vous référer à la Fiche Signalétique applicable pour de l'information sur ce produit (Disponible à www.SCPSCIENCE.com).*

8.0 HOMOGENEITY / HOMOGÉNÉITÉ:

This solution has been blended according to an in-house procedure and its homogeneity is guaranteed to be fit for purpose when a sample size sufficient for the intended method of analysis is used. / *Cette solution a été préparée selon une procédure maison et nous assurons que sa homogénéité est approprié à l'emploi lorsqu'un échantillon suffisant pour la méthode d'analyse prévue est utilisé.*

9.0 TRACEABILITY / TRAÇABILITÉ:

This CRM (Certified Reference Material) is traceable to the NIST SRM (Standard Reference Material) indicated in section 2 through an unbroken chain of comparisons. In addition, balances used are regularly calibrated using weights which are traceable to NIST (National Institute of Standards and Technology) or NRC (National Research Council of Canada) standards. All conductivity meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable Thermometer and standards. All pH meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable thermometer and pH/MV simulator. / *Ce matériel de référence certifié est traçable au Matériel de Référence Standardisé de NIST indiqué à la section 2 par une chaîne de comparaison ininterrompue. De plus, les balances utilisées sont étalonnées régulièrement en utilisant des poids qui sont traçables au NIST (National Institute of Standards and Technology) ou au CRNC (Conseil National de Recherches Canada). Tout conductimètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et étalons traçables au NIST ou CNRC. Tout pH mètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et un simulateur pH/MV traçables au NIST ou au CNRC.*

10.0 PREPARATION / PRÉPARATION:

For the preparation of these solutions, 18 megohm/cm double deionized water, high-purity acids and glassware calibrated to ASTM Class A specifications are used. / *Une eau de 18 megohm/cm doublement déionisée, de l'acide de haute pureté, ainsi que de la verrerie étalonnée afin de satisfaire les spécifications Classe A de ASTM ont été utilisés pour la préparation de cet étalon.*

11.0 QUALITY SYSTEM CERTIFICATIONS / CERTIFICATIONS DE SYSTÈME QUALITÉ:

ISO 9001 Certification / Certification ISO 9001: This standard was produced in a facility which operates under a registered ISO 9001 Quality Management System. Please consult our web site for a copy of the most recent revision of our certificate of registration. / *Cet étalon a été fabriqué dans un laboratoire qui utilise un Système de Gestion de la Qualité enregistré à la norme ISO 9001. Veuillez consulter notre site web pour obtenir la version la plus récente de notre certificat d'enregistrement.*

ISO 17025 Accreditation / Accréditation ISO 17025: SCP SCIENCE (Corporate Headquarters) operates an ISO 17025 accredited laboratory. Please consult our web site for a copy of the most recent revision of our certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est accréditée ISO 17025. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

ISO 17034 Accreditation / Accréditation ISO 17034: SCP SCIENCE (Corporate Headquarters) is an ISO 17034 accredited Reference Material Producer. Please consult our website for a copy of our most recent certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est un Fabricant de Matériaux de Référence Accrédité ISO 17034. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

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GERMANY
Alte Marktoberdorfer Straße 14, 87616
Marktoberdorf
Phone: +49 (0) 8342-89560-61
Fax: +49 (0) 8342-89560-69

Energy Laboratories Inc

Standard LOG

Standard ID: ME211208 MSCAL2B
Standard Name: MSCAL 2B
Date Prepared: 12/8/2021
Date Expires: 12/8/2022
Department: ME
Vendor: Inorganic Ventures
Lot Number: S2-MEB704403
Balance ID:
Comments: Opened 12/08/2021; Expires 12/08/2022

Type: Primary
BY: Stacy R. Hendricks
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------------------|----------|-----|-------|-----------|
| Multi Analyte Custom Grade Solution | 13793 | | mL | 12/8/2022 |

Final Volume:
mL

Stock Source

Base Units

Amount Added

Analytes

CAS

Conc: **ug/mL**

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
Catalog Number: EL-MSCAL-2B
Lot Number: S2-MEB704403
Matrix: 5% (v/v) HNO3
Value / Analyte(s):
100 µg/mL ea:
Aluminum, Arsenic,
Boron, Barium,
Beryllium, Cadmium,
Cobalt, Chromium,
Copper, Iron,
Manganese, Nickel,
Lead, Selenium,
Strontium, Thorium,
Thallium, Uranium,
Vanadium, Zinc,
40 µg/mL ea:
Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ID #: 13793

Opened: _____

Multi Analyte Custom Grade Solution

Expires: 4/21/2025

Rec'd: 4/29/2021

Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|--------------|--------------------|---------------|-------------------|
| Aluminum, Al | 100.0 ± 0.4 µg/mL | Arsenic, As | 100.0 ± 0.9 µg/mL |
| Barium, Ba | 100.0 ± 0.5 µg/mL | Beryllium, Be | 100.0 ± 0.7 µg/mL |
| Boron, B | 100.0 ± 0.7 µg/mL | Cadmium, Cd | 100.0 ± 0.5 µg/mL |
| Chromium, Cr | 100.0 ± 0.8 µg/mL | Cobalt, Co | 100.0 ± 0.6 µg/mL |
| Copper, Cu | 100.0 ± 0.5 µg/mL | Iron, Fe | 100.1 ± 0.4 µg/mL |
| Lead, Pb | 100.0 ± 0.6 µg/mL | Manganese, Mn | 100.0 ± 0.5 µg/mL |
| Nickel, Ni | 100.0 ± 0.6 µg/mL | Selenium, Se | 100.0 ± 0.7 µg/mL |
| Silver, Ag | 39.99 ± 0.18 µg/mL | Strontium, Sr | 100.0 ± 0.4 µg/mL |
| Thallium, Tl | 100.0 ± 0.6 µg/mL | Thorium, Th | 100.0 ± 0.5 µg/mL |
| Uranium, U | 100.0 ± 0.5 µg/mL | Vanadium, V | 100.0 ± 0.5 µg/mL |
| Zinc, Zn | 100.0 ± 0.5 µg/mL | | |

Density: 1.033 g/mL (measured at 20 ± 4 °C)

Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---------|-------------|--------------------|--------------|
| Ag | ICP Assay | 3151 | 160729 |
| Ag | Volhard | 999c | 999c |
| Al | ICP Assay | 3101a | 140903 |
| Al | EDTA | 928 | 928 |
| As | ICP Assay | 3103a | 100818 |
| B | ICP Assay | 3107 | 110830 |
| Ba | ICP Assay | 3104a | 140909 |
| Ba | Gravimetric | | See Sec. 4.2 |
| Be | ICP Assay | 3105a | 090514 |
| 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 |
| Mn | ICP Assay | 3132 | 050429 |
| Mn | EDTA | 928 | 928 |
| 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 |
| Sr | EDTA | 928 | 928 |
| Sr | ICP Assay | Traceable to 3153a | K2-SR650985 |
| Sr | Calculated | | See Sec. 4.2 |
| Th | EDTA | 928 | 928 |
| Th | Calculated | | See Sec. 4.2 |
| Tl | ICP Assay | 3158 | 151215 |
| U | ICP Assay | 3164 | 080521 |
| U | 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:

$$X_{CRM/RM} = \sum (w_i) (X_i)$$

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:

$$w_i = (1/u_{char i}^2) / (\sum (1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u^2_{char} + u^2_{bb} + u^2_{Its} + u^2_{ts})^{1/2}$$

k = coverage factor = 2

$u_{char} = (\sum ((w_i)^2 (u_{char i}^2)))^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope

Uranium 238U

Uranium 235U

Atom %

99.8 ± 0.1

0.24 ± 0.05

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

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u^2_{char a} + u^2_{bb} + u^2_{Its} + u^2_{ts})^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = 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 ($\mu\text{g/mL}$)

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

April 21, 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

- **April 21, 2025**

- 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



Energy Laboratories Inc

Standard LOG

Standard ID: ME211229A AU 2ND SOURCE
Standard Name: Au 2nd source Stock
Date Prepared: 12/29/2021
Date Expires: 12/29/2022
Department: ME
Vendor: SCP Science
Lot Number: S211129013
Balance ID:
Comments: opened 12/29/2021; expires 12/29/2022

Type: Primary
BY: Amanda E. McDani
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------|----------|-----|-------|------------|
| ICP/ICPMS Standard Gold | 14710 | 500 | mL | 12/29/2022 |

Final Volume:
500 mL

Stock Source

Base Units

Amount Added

Analytes

CAS

Conc: **ug/mL**

ID #: 14710

Opened:

ICP/ICPMS Standard Gold

Expires: 12/31/2023

Rec'd: 12/29/2021

Eneray Laboratories Inc 1120 So. 27th Street

Billings MT 59107

SCP SCIENC

Providing Innovative Solutions to Analytical

Certificate of Analysis**Au****1.0 DESCRIPTION:****PlasmaCAL ICP/ICPMS Standard - Gold 1000 µg/ml**

Catalogue Number: 140-052-790/-791/-795

Starting Material: Gold Metal 99.99+%

Lot Number: **S211129013**

Matrix: 10% HCl (See Section 3 for actual matrix)

Expiration Date (End of month): **December 2023** (or 15 months after bottle is opened, whichever comes first)**2.0 CERTIFIED VALUES AND ASSOCIATED UNCERTAINTY:**Certified Concentration: **1001 µg/ml +/- 4 µg/ml****982 µg/g +/- 4 µg/g**

Method of analysis: Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES)

Traceability: NIST Standard Reference Material 3121 Lot: **991806**

Note: The uncertainty of the certified value has been calculated from applicable uncertainty contributors (u_i) including uncertainty established during characterization of the material (u_{char}), the between bottle variation (u_{bb}), short-term stability (u_{sts}) and long-term stability (u_{lts}) according to the model $u_c = \sqrt{(u_{char}^2 + u_{bb}^2 + u_{sts}^2 + u_{lts}^2)}$. This combined uncertainty has been further multiplied by a coverage factor (k) of 2 to provide a 95% confidence interval.

3.0 REFERENCE VALUES:Density: **1.019 g/ml @ 22.4 °C**Actual Matrix: **10.0% (v/v) HCl**

Trace Metal Impurities as tested by ICP-MS:

| Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) |
|---------|---------------|---------|---------------|---------|---------------|---------|-------------|
| Ag | 0.3851 | Fe | <0.0090 | Nd | <0.0010 | Sn | <0.0010 |
| Al | 0.0062 | Ga | <0.0010 | Ni | <0.0010 | Sr | <0.0025 |
| As | <0.0010 | Gd | <0.0010 | Os | <0.0010 | Ta | <0.0010 |
| Au | N/A | Ge | <0.0010 | P | <0.0132 | Tb | <0.0010 |
| B | <0.0015 | Hf | <0.0010 | Pb | <0.0010 | Te | <0.0010 |
| Ba | <0.0010 | Hg | * | Pd | 0.0434 | Th | <0.0010 |
| Be | <0.0010 | Ho | <0.0010 | Pr | <0.0010 | Ti | <0.0012 |
| Bi | <0.0010 | In | <0.0010 | Pt | 0.0048 | Tl | <0.0011 |
| Ca | <0.0135 | Ir | <0.0010 | Rb | <0.0010 | Tm | <0.0010 |
| Cd | <0.0010 | K | 0.0362 | Re | <0.0010 | U | <0.0010 |
| Ce | <0.0010 | La | <0.0010 | Rh | <0.0010 | V | <0.0010 |
| Co | <0.0010 | Li | <0.0010 | Ru | <0.0010 | W | <0.0020 |
| Cr | <0.0010 | Lu | <0.0010 | S | * | Y | <0.0010 |
| Cs | 0.0029 | Mg | <0.0010 | Sb | <0.0010 | Yb | <0.0010 |
| Cu | 0.0023 | Mn | <0.0010 | Sc | <0.0010 | Zn | <0.0010 |
| Dy | <0.0010 | Mo | <0.0010 | Se | <0.01 | Zr | <0.0010 |
| Er | <0.0010 | Na | 0.0070 | Si | <0.1 | | |
| Eu | <0.0010 | Nb | <0.0010 | Sm | <0.0010 | | |

*: Not tested

4.0 APPROVAL AND DATE OF CERTIFICATION:

Certification Approval: Daniel Boisvert, Chemist

Certification Date: December 10, 2021

Daniel Boisvert

5.0 INTENDED USE / UTILISATION PRÉVUE:

- ICP Standards: For the calibration of, including but not limited to: ICP-AES, ICP-MS, FAAS, GFAA, XRF and DCP. / *Étalons ICP : Pour l'étalonnage d'instruments de mesure tels que: ICP-AES, ICP-MS, FAAS, GFAA, XRF et DCP.*
 - AA Standards: For the calibration of Flame (FAAS) and Graphite Furnace (GFAA) Atomic Absorption Spectrometers. / *Étalons AA : Pour l'étalonnage de spectromètres d'absorption atomique flamme (GFAA) et four au graphite (GFAA).*
 - Matrix Modifiers: For the optimization of analytical conditions to provide better Graphite Furnace Atomic Absorption (GFAA) instrument response and improved detection limits. / *Modificateur de matrice : Pour l'optimisation des conditions analytiques afin de fournir des meilleures réponses instrumentales et limites de détection pour SAA four au graphite.*
 - pH Standards: For the calibrating pH meters or for other wet chemistry applications. / *Étalons pH : Pour étalonnage de pH mètres et autres applications de chimie humide.*
 - Conductivity Standards: For electrolytic conductivity measurement as a calibration standard. / *Étalons de conductivité : Comme étalon pour les mesures de conductivité électrolytiques.*
 - IC Standards: for calibration of, but not limited to IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS or other wet chemistry applications. / *Étalons IC : Pour étalonnage d'instruments tels que : IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS et autres applications de chimie humide.*
- For any inquiries, please contact **SCP SCIENCE**. / *Pour toute question, veuillez contacter SCP SCIENCE.*

6.0 INSTRUCTIONS FOR USE / INSTRUCTIONS D'UTILISATION:

Handling and Storage / Manutention et entreposage: Keep product tightly capped when not in use. The solution should be opened for a minimum amount of time necessary to dispense the amount required. Do not pipet or use directly from container. Do not return unused portions back to container. Store under normal laboratory conditions. Avoid exposure to excessive sources of heat and humidity or direct sunlight. / *Garder les contenants bien fermés lorsque non utilisés. Le contenant devrait être ouvert seulement pour le temps requis afin de prélever la quantité nécessaire. Ne pas pipetter ou utiliser directement du contenant. Ne pas retourner les portions non-utilisées dans le contenant. Conserver dans des conditions normales de laboratoire. Éviter l'exposition à des sources de chaleur et d'humidité excessives ou à l'exposition solaire directe.*

Stability / Stabilité: This Standard is guaranteed to be stable and accurate to within the specified uncertainty of measurement up to the unopened expiry date, if sealed, or up to the opened expiry date (when indicated), whichever comes first, provided the solution is kept tightly capped and stored under the indicated storage conditions. Purchasers will be notified of any significant changes resulting in re-certification or withdrawal of the product prior to the expiration date. / *La stabilité et l'exactitude de cet étalon sont garanties d'être à l'intérieur de l'incertitude de mesure, jusqu'à la date d'expiration de la bouteille non-ouverte, si scellée, ou jusqu'à la date d'expiration de la bouteille ouverte (si indiquée), en presumant que le contenant est maintenu fermé et gardé dans les conditions d'entreposage indiquées. Les acheteurs seront avisés dans le cas où il y aura des changements significatifs nécessitant une re-certification ou un rappel du produit avant la date d'expiration.*

7.0 HAZARDOUS INFORMATION / INFORMATION SUR LES RISQUES POTENTIELS:

Please refer to the associated Safety Data Sheet (SDS) for information regarding this product (available at www.SCPSCIENCE.com). / *SVP vous référer à la Fiche Signalétique applicable pour de l'information sur ce produit (Disponible à www.SCPSCIENCE.com).*

8.0 HOMOGENEITY / HOMOGÉNÉITÉ:

This solution has been blended according to an in-house procedure and its homogeneity is guaranteed to be fit for purpose when a sample size sufficient for the intended method of analysis is used. / *Cette solution a été préparée selon une procédure maison et nous assurons que sa homogénéité est approprié à l'emploi lorsqu'un échantillon suffisant pour la méthode d'analyse prévue est utilisé.*

9.0 TRACEABILITY / TRAÇABILITÉ:

This CRM (Certified Reference Material) is traceable to the NIST SRM (Standard Reference Material) indicated in section 2 through an unbroken chain of comparisons. In addition, balances used are regularly calibrated using weights which are traceable to NIST (National Institute of Standards and Technology) or NRC (National Research Council of Canada) standards. All conductivity meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable Thermometer and standards. All pH meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable thermometer and pH/MV simulator. / *Ce matériel de référence certifié est traçable au Matériel de Référence Standardisé de NIST indiqué à la section 2 par une chaîne de comparaison ininterrompue. De plus, les balances utilisées sont étalonnées régulièrement en utilisant des poids qui sont traçables au NIST (National Institute of Standards and Technology) ou au CRNC (Conseil National de Recherches Canada). Tout conductimètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et étalons traçables au NIST ou CNRC. Tout pH mètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et un simulateur pH/MV traçables au NIST ou au CNRC.*

10.0 PREPARATION / PRÉPARATION:

For the preparation of these solutions, 18 megohm/cm double deionized water, high-purity acids and glassware calibrated to ASTM Class A specifications are used. / *Une eau de 18 megohm/cm doublement déionisée, de l'acide de haute pureté, ainsi que de la verrerie étalonnée afin de satisfaire les spécifications Classe A de ASTM ont été utilisés pour la préparation de cet étalon.*

11.0 QUALITY SYSTEM CERTIFICATIONS / CERTIFICATIONS DE SYSTÈME QUALITÉ:

ISO 9001 Certification / Certification ISO 9001: This standard was produced in a facility which operates under a registered ISO 9001 Quality Management System. Please consult our web site for a copy of the most recent revision of our certificate of registration. / *Cet étalon a été fabriqué dans un laboratoire qui utilise un Système de Gestion de la Qualité enregistré à la norme ISO 9001. Veuillez consulter notre site web pour obtenir la version la plus récente de notre certificat d'enregistrement.*

ISO 17025 Accreditation / Accréditation ISO 17025: SCP SCIENCE (Corporate Headquarters) operates an ISO 17025 accredited laboratory. Please consult our web site for a copy of the most recent revision of our certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est accréditée ISO 17025. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

ISO 17034 Accreditation / Accréditation ISO 17034: SCP SCIENCE (Corporate Headquarters) is an ISO 17034 accredited Reference Material Producer. Please consult our website for a copy of our most recent certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est un Fabricant de Matériaux de Référence Accrédité ISO 17034. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

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Phone: +33 (0) 1 69 18 71 17
Fax: +33 (0) 1 60 92 05 67

GERMANY
Alte Marktoberdorfer Straße 14, 87616
Marktoberdorf
Phone: +49 (0) 8342-89560-61
Fax: +49 (0) 8342-89560-69

Energy Laboratories Inc

Standard LOG

Standard ID: ME220110 CE, LA PRIMARY
Standard Name: Ce, La Primary Type: Secondary
Date Prepared: 1/10/2022 BY: Amanda E. McDani
Date Expires: 1/6/2023
Department: ME Status: Open
Vendor: Inorganic Ventures
Lot Number: M2-CE657768/M2-
Balance ID:
Comments: Used to make standards and spiking solutions; No primary La available

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------------|----------|------|-------|------------|
| Nitric Acid 69.0- 70.0% D0521 | 14626 | 0.5 | mL | 12/14/2026 |
| Milli-Q H2O | 391 | 39.5 | mL | 6/1/2100 |

Final Volume:
50 mL

Stock Source

ME220106-CE Ce Primary Stock

Base Units

ug/mL

Amount Added

5 mL

Analytes

CAS

Conc: ug/mL

Energy Laboratories Inc

Standard LOG

Standard ID: ME220112 10 PPB STANDARD
Standard Name: 10 ppb Standard
Date Prepared: 1/12/2022
Date Expires: 11/18/2022
Department: ME
Vendor: Inorganic Ventures
Lot Number:
Balance ID:
Comments: Made Fresh Daily

Type: Secondary
BY: Cindy Rohrer
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------------|----------|--------|-------|------------|
| Hydrochloric Acid E1421 | 14721 | 0.25 | mL | 1/4/2027 |
| Nitric Acid 69.0- 70.0% D0521 | 14626 | 0.5 | mL | 12/14/2026 |
| Milli-Q H2O | 391 | 48.335 | mL | 6/1/2100 |

Final Volume:
50 mL

Stock Source
ME220112 100 PP 100 ppb Standard

Base Units
ug/mL

Amount Added
5 mL

Analytes

CAS

Conc: **mg/L**

Energy Laboratories Inc

Standard LOG

Standard ID: ME220112 1 PPB STANDARD
Standard Name: 1 ppb Standard
Date Prepared: 1/12/2022
Date Expires: 11/18/2022
Department: ME
Vendor: Inorganic Ventures
Lot Number:
Balance ID:
Comments: Made Fresh Daily

Type: Secondary
BY: Cindy Rohrer
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------------|----------|--------|-------|------------|
| Hydrochloric Acid E1421 | 14721 | 0.25 | mL | 1/4/2027 |
| Nitric Acid 69.0- 70.0% D0521 | 14626 | 0.5 | mL | 12/14/2026 |
| Milli-Q H2O | 391 | 48.335 | mL | 6/1/2100 |

Final Volume:
50 mL

Stock Source
ME220112 10 PPB 10 ppb Standard

Base Units
ug/mL

Amount Added
5 mL

Analytes

CAS

Conc: **mg/L**

Energy Laboratories Inc

Standard LOG

Standard ID: ME220112 0.5 PPB STANDARD
Standard Name: 0.5 ppb Standard
Date Prepared: 1/12/2022
Date Expires: 11/18/2022
Department: ME
Vendor: Inorganic Ventures
Lot Number:
Balance ID:
Comments: Made Fresh Daily

Type: Secondary
BY: Cindy Rohrer
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------------|----------|--------|-------|------------|
| Hydrochloric Acid E1421 | 14721 | 0.25 | mL | 1/4/2027 |
| Nitric Acid 69.0- 70.0% D0521 | 14626 | 0.5 | mL | 12/14/2026 |
| Milli-Q H2O | 391 | 48.335 | mL | 6/1/2100 |

Final Volume:
50 mL

Stock Source
ME220112 10 PPB 10 ppb Standard

Base Units
ug/mL

Amount Added
2.5 mL

Analytes

CAS

Conc: **mg/L**

Energy Laboratories Inc

Standard LOG

Standard ID: ME220112 0.1 PPB STANDARD
Standard Name: 0.1 ppb Standard
Date Prepared: 1/12/2022
Date Expires: 11/18/2022
Department: ME
Vendor: Inorganic Ventures
Lot Number:
Balance ID:
Comments: Made Fresh Daily

Type: Secondary
BY: Cindy Rohrer
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------------|----------|--------|-------|------------|
| Hydrochloric Acid E1421 | 14721 | 0.25 | mL | 1/4/2027 |
| Nitric Acid 69.0- 70.0% D0521 | 14626 | 0.5 | mL | 12/14/2026 |
| Milli-Q H2O | 391 | 48.335 | mL | 6/1/2100 |

Final Volume:
50 mL

Stock Source

ME220112 1 PPB 1 ppb Standard

Base Units

ug/mL

Amount Added

5 mL

Analytes

CAS

Conc: **mg/L**

Energy Laboratories Inc

Standard LOG

Standard ID: ME220112 0.05 PPB STANDARD
Standard Name: 0.5 ppb Standard
Date Prepared: 1/12/2022
Date Expires: 11/18/2022
Department: ME
Vendor: Inorganic Ventures
Lot Number:
Balance ID:
Comments: Made Fresh Daily

Type: Secondary
BY: Cindy Rohrer
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------------|----------|--------|-------|------------|
| Hydrochloric Acid E1421 | 14721 | 0.25 | mL | 1/4/2027 |
| Nitric Acid 69.0- 70.0% D0521 | 14626 | 0.5 | mL | 12/14/2026 |
| Milli-Q H2O | 391 | 48.335 | mL | 6/1/2100 |

Final Volume:
50 mL

Stock Source
ME220112 0.5 PP 0.5 ppb Standard

Base Units
ug/mL

Amount Added
5 mL

Analytes

CAS

Conc: **mg/L**

Energy Laboratories Inc

Standard LOG

Standard ID: ME220112 0.025 PPB STANDARD
Standard Name: 0.025 ppb Standard
Date Prepared: 1/12/2022
Date Expires: 11/18/2022
Department: ME
Vendor: Inorganic Ventures
Lot Number:
Balance ID:
Comments: Made Fresh Daily

Type: Secondary
BY: Cindy Rohrer
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------------|----------|--------|-------|------------|
| Hydrochloric Acid E1421 | 14721 | 0.25 | mL | 1/4/2027 |
| Nitric Acid 69.0- 70.0% D0521 | 14626 | 0.5 | mL | 12/14/2026 |
| Milli-Q H2O | 391 | 48.335 | mL | 6/1/2100 |

Final Volume:
50 mL

Stock Source
ME220112 0.5 PP 0.5 ppb Standard

Base Units
ug/mL

Amount Added
2.5 mL

Analytes

CAS

Conc: **mg/L**

Energy Laboratories Inc

Standard LOG

Standard ID: ME211206 ICV STANDARD
 Standard Name: ICV for ICPMS Standards
 Date Prepared: 12/6/2021
 Date Expires: 4/30/2022
 Department:
 Vendor:
 Lot Number:
 Balance ID:
 Comments: Made fresh daily

Type: Secondary
 BY: Stacy R. Hendricks
 Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Exp |
|---------------------------------------|----------|-----|-------|-------|
| Hydrochloric Acid Instra Analyzed 000 | 14028 | 1 | mL | 3/29/ |
| Nitric Acid Instra Analyzed 000028856 | 14572 | 2 | mL | 6/28/ |
| Milli-Q H2O | 391 | | mL | 6/1/2 |

Final Volume: 100 mL

| <u>Stock Source</u> | Base Units | Amount Added |
|---|-------------------|---------------------|
| ME210211 U Seco U 2' QCS | ug/mL | 0.05 mL |
| ME211206 Th QC Th QCS Stock | ug/mL | 0.05 mL |
| ME210901 Hg Sec Secondary Hg Stock 2 PPM | ug/mL | 0.05 mL |
| ME211124 EL-MSI EL-MSICV-2 | ug/mL | 0.05 mL |
| ME210817 ICV-1A EL-MSICV-1A | ug/mL | 0.05 mL |
| ME210903 Ce, La Ce, La Secondary solution | ug/mL | 0.05 mL |

Analvtes **CAS** Conc: **mg/L**

Energy Laboratories Inc

Spike LOG

Standard ID: ME210211 U SECOND SOURCE
Standard Name: U 2' QCS
Date Prepared: 2/11/2021
Date Expires: 4/30/2022
Department: ME
Vendor:
Lot Number:
Balance ID:
Comments:

Type: Secondary
BY: Alyssa A. Olson
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|--|----------|-------|-------|-----------|
| Nitric Acid Instra Analyzed 0000264786 | 13061 | 0.25 | mL | 5/12/2025 |
| Milli-Q H2O | 391 | 22.25 | mL | 6/1/2100 |

Final Volume:
25 mL

Stock Source

ME200624A U Stock

Base Units

ug/mL

Amount Added

2.5 mL

Analytes

CAS

Conc: ug/mL

Energy Laboratories Inc

Standard LOG

Standard ID: ME200624A
Standard Name: U Stock
Date Prepared: 6/24/2020
Date Expires: 4/30/2022
Department: ME
Vendor: SCP Science
Lot Number: S200422002
Balance ID:

Type: Primary
BY: Ron Hunt
Status: Empty/Disposed

Comments:

| Chemical / Solvent Used | BottleNo | Amt | Units | Exp |
|----------------------------|----------|-----|-------|-------|
| PlasmaCal Standard Uranium | 12767 | 500 | mL | 4/30/ |

Final Volume: 500 mL

Stock Source

Base Units

Amount Added

Analvtes

CAS

Conc: **ug/mL**

A Uranium

7440-61-1

1000

U

1.0 DESCRIPTION: **PlasmaCAL ICP/ICPMS Standard - Uranium 1000 µg/ml**
 Catalogue Number: 140-051-920/-921/-925
 Starting Material: Uranyl Nitrate 99.99%
 Lot Number: **S200422002**
 Matrix: 4% HNO₃ (See Section 3 for actual matrix)
 Expiration Date (End of month): **April 2022** (or 15 months after bottle is opened, whichever comes first)

2.0 CERTIFIED VALUES AND ASSOCIATED UNCERTAINTY:
 Certified Concentration: **1003 µg/ml +/- 4 µg/ml**
983 µg/g +/- 4 µg/g
 Method of analysis: Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES)
 Traceability: NIST Standard Reference Material 3164 Lot: **080521**

Note: The uncertainty of the certified value has been calculated from applicable uncertainty contributors (u) including uncertainty established during characterization of the material (u_{char}), the between bottle variation (u_{bb}), short-term stability (u_{sts}) and long-term stability (u_{lts}) according to the model $u_c = \sqrt{(u_{char}^2 + u_{bb}^2 + u_{sts}^2 + u_{lts}^2)}$. This combined uncertainty has been further multiplied by a coverage factor (k) of 2 to provide a 95% confidence interval.

3.0 REFERENCE VALUES:
 Density: **1.020 g/ml @ 21.7 °C**
 Actual Matrix: **4.0% (v/v) HNO₃**

ID #: 12767
 Opened: _____
 PlasmaCAL Standard Uranium
Expires: 4/30/2022
 Rec'd: 6/15/2020
 Energy Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

% abundance of stable isotopes : ²³⁸U : 99.79% ; ²³⁵U : 0.21%
 Note : The uranyl nitrate comes from a depleted source of uranium.

Trace Metal Impurities as tested by ICP-MS:

| Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) |
|---------|---------------|---------|-------------|---------|---------------|---------|---------------|
| Ag | <0.0010 | Fe | <0.0018 | Nd | <0.0010 | Sn | <0.0010 |
| Al | 0.0073 | Ga | <0.0010 | Ni | 0.0038 | Sr | <0.0025 |
| As | <0.0010 | Gd | <0.0010 | Os | * | Ta | <0.0010 |
| Au | <0.0010 | Ge | <0.0010 | P | <0.0026 | Tb | <0.0010 |
| B | <0.0015 | Hf | <0.0010 | Pb | <0.0010 | Te | <0.0031 |
| Ba | <0.0010 | Hg | * | Pd | <0.0010 | Th | 0.0020 |
| Be | <0.0010 | Ho | <0.0010 | Pr | <0.0010 | Ti | <0.0012 |
| Bi | <0.0010 | In | <0.0010 | Pt | <0.0010 | Tl | <0.0011 |
| Ca | 0.0340 | Ir | <0.0010 | Rb | <0.0010 | Tm | <0.0010 |
| Cd | <0.0010 | K | <0.0024 | Re | <0.0010 | U | N/A |
| Ce | <0.0010 | La | * | Rh | <0.0010 | V | <0.0010 |
| Co | <0.0010 | Li | <0.0010 | Ru | <0.0010 | W | <0.0020 |
| Cr | <0.0010 | Lu | <0.0010 | S | <1.0000 | Y | 0.0049 |
| Cs | <0.0010 | Mg | <0.0010 | Sb | <0.0010 | Yb | <0.0010 |
| Cu | <0.0010 | Mn | <0.0010 | Sc | <0.0010 | Zn | <0.0010 |
| Dy | <0.0010 | Mo | <0.0010 | Se | * | Zr | <0.0010 |
| Er | <0.0010 | Na | <0.0010 | Si | <1.0000 | | |
| Eu | <0.0010 | Nb | <0.0010 | Sm | <0.0010 | | |

*: Not tested

4.0 APPROVAL AND DATE OF CERTIFICATION:
 Certification Approval: Daniel Boisvert, Chemist
 Certification Date: April 28, 2020

Daniel Boisvert

5.0 INTENDED USE / UTILISATION PRÉVUE:

- ICP Standards: For the calibration of, including but not limited to: ICP-AES, ICP-MS, FAAS, GFAA, XRF and DCP. / *Étalons ICP : Pour l'étalonnage d'instruments de mesure tels que: ICP-AES, ICP-MS, FAAS, GFAA, XRF et DCP.*
 - AA Standards: For the calibration of Flame (FAAS) and Graphite Furnace (GFAA) Atomic Absorption Spectrometers. / *Étalons AA : Pour l'étalonnage de spectromètres d'absorption atomique flamme (GFAA) et four au graphite (GFAA).*
 - Matrix Modifiers: For the optimization of analytical conditions to provide better Graphite Furnace Atomic Absorption (GFAA) instrument response and improved detection limits. / *Modificateur de matrice : Pour l'optimisation des conditions analytiques afin de fournir des meilleurs réponses instrumentales et limites de détection pour SAA four au graphite.*
 - pH Standards: For the calibrating pH meters or for other wet chemistry applications. / *Étalons pH : Pour étalonnage de pH mètres et autres applications de chimie humide.*
 - Conductivity Standards: For electrolytic conductivity measurement as a calibration standard. / *Étalons de conductivité : Comme étalon pour les mesures de conductivité électrolytiques.*
 - IC Standards: for calibration of, but not limited to IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS or other wet chemistry applications. / *Étalons IC : Pour étalonnage d'instruments tels que : IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS et autres applications de chimie humide.*
- For any inquiries, please contact **SCP SCIENCE**. / *Pour toute question, veuillez contacter SCP SCIENCE.*

6.0 INSTRUCTIONS FOR USE / INSTRUCTIONS D'UTILISATION:

Handling and Storage / Manutention et entreposage: Keep product tightly capped when not in use. The solution should be opened for a minimum amount of time necessary to dispense the amount required. Do not pipet or use directly from container. Do not return unused portions back to container. Store under normal laboratory conditions. Avoid exposure to excessive sources of heat and humidity or direct sunlight. / *Garder les contenants bien fermés lorsque non utilisés. Le contenant devrait être ouvert seulement pour le temps requis afin de prélever la quantité nécessaire. Ne pas pipetter ou utiliser directement du contenant. Ne pas retourner les portions non-utilisées dans le contenant. Conserver dans des conditions normales de laboratoire. Éviter l'exposition à des sources de chaleur et d'humidité excessives ou à l'exposition solaire directe.*

Stability / Stabilité: This Standard is guaranteed to be stable and accurate to within the specified uncertainty of measurement up to the unopened expiry date, if sealed, or up to the opened expiry date (when indicated), whichever comes first, provided the solution is kept tightly capped and stored under the indicated storage conditions. Purchasers will be notified of any significant changes resulting in re-certification or withdrawal of the product prior to the expiration date. / *La stabilité et l'exactitude de cet étalon sont garanties d'être à l'intérieur de l'incertitude de mesure, jusqu'à la date d'expiration de la bouteille non-ouverte, si scellée, ou jusqu'à la date d'expiration de la bouteille ouverte (si indiquée), en presumant que le contenant est maintenu fermé et gardé dans les conditions d'entreposage indiquées. Les acheteurs seront avisés dans le cas où il y aura des changements significatifs nécessitant une re-certification ou un rappel du produit avant la date d'expiration.*

7.0 HAZARDOUS INFORMATION / INFORMATION SUR LES RISQUES POTENTIELS:

Please refer to the associated Safety Data Sheet (SDS) for information regarding this product (available at www.SCPSCIENCE.com). / *SVP vous référer à la Fiche Signalétique applicable pour de l'information sur ce produit (Disponible à www.SCPSCIENCE.com).*

8.0 HOMOGENEITY / HOMOGÉNÉITÉ:

This solution has been blended according to an in-house procedure and its homogeneity is guaranteed to be fit for purpose when a sample size sufficient for the intended method of analysis is used. / *Cette solution a été préparée selon une procédure maison et nous assurons que sa homogénéité est approprié à l'emploi lorsqu'un échantillon suffisant pour la méthode d'analyse prévue est utilisé.*

9.0 TRACEABILITY / TRAÇABILITÉ:

This CRM (Certified Reference Material) is traceable to the NIST SRM (Standard Reference Material) indicated in section 2 through an unbroken chain of comparisons. In addition, balances used are regularly calibrated using weights which are traceable to NIST (National Institute of Standards and Technology) or NRC (National Research Council of Canada) standards. All conductivity meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable Thermometer and standards. All pH meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable thermometer and pH/MV simulator. / *Ce matériel de référence certifié est traçable au Matériel de Référence Standardisé de NIST indiqué à la section 2 par une chaîne de comparaison ininterrompue. De plus, les balances utilisées sont étalonnées régulièrement en utilisant des poids qui sont traçables au NIST (National Institute of Standards and Technology) ou au CRNC (Conseil National de Recherches Canada). Tout conductimètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et étalons traçables au NIST ou CNRC. Tout pH mètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et un simulateur pH/MV traçables au NIST ou au CNRC.*

10.0 PREPARATION / PRÉPARATION:

For the preparation of these solutions, 18 megohm/cm double deionized water, high-purity acids and glassware calibrated to ASTM Class A specifications are used. / *Une eau de 18 megohm/cm doublement déionisée, de l'acide de haute pureté, ainsi que de la verrerie étalonnée afin de satisfaire les spécifications Classe A de ASTM ont été utilisés pour la préparation de cet étalon.*

11.0 QUALITY SYSTEM CERTIFICATIONS / CERTIFICATIONS DE SYSTÈME QUALITÉ:

ISO 9001 Certification / Certification ISO 9001: This standard was produced in a facility which operates under a registered ISO 9001 Quality Management System. Please consult our web site for a copy of the most recent revision of our certificate of registration. / *Cet étalon a été fabriqué dans un laboratoire qui utilise un Système de Gestion de la Qualité enregistré à la norme ISO 9001. Veuillez consulter notre site web pour obtenir la version la plus récente de notre certificat d'enregistrement.*

ISO 17025 Accreditation / Accréditation ISO 17025: SCP SCIENCE (Corporate Headquarters) operates an ISO 17025 accredited laboratory. Please consult our web site for a copy of the most recent revision of our certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est accréditée ISO 17025. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

ISO 17034 Accreditation / Accréditation ISO 17034 : SCP SCIENCE (Corporate Headquarters) is an ISO 17034 accredited Reference Material Producer. Please consult our website for a copy of our most recent certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est un Fabricant de Matériaux de Référence Accrédité ISO 17034. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

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Marktobendorf
Phone: +49 (0) 8342-89560-61
Fax: +49 (0) 8342-89560-69

Energy Laboratories Inc

Spike LOG

Standard ID: ME211206 TH QCS STOCK
Standard Name: Th QCS Stock
Date Prepared: 12/6/2021
Date Expires: 10/25/2022
Department: ME
Vendor:
Lot Number:
Balance ID:
Comments:

Type: Secondary
BY: Stacy R. Hendricks
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Exp |
|---------------------------------------|----------|-------|-------|-------|
| Nitric Acid Instra Analyzed 000028856 | 14572 | 0.25 | mL | 6/28/ |
| Milli-Q H2O | 391 | 22.25 | mL | 6/1/2 |

Final Volume: 25 mL

Stock Source
ME 211025 Th Sec Th Secondary Stock

Base Units
ug/mL

Amount Added
2.5 mL

Analvtes

CAS

Conc: **ug/mL**

Energy Laboratories Inc

Standard LOG

Standard ID: ME 211025 TH SECONDARY STOCK
Standard Name: Th Secondary Stock
Date Prepared: 10/25/2021
Date Expires: 10/25/2022
Department: ME
Vendor: Inorganic Ventures
Lot Number: S2-TH706436
Balance ID:
Comments: Opened 10/25/2021; Expires 10/25/2022

Type: Primary
BY: Stacy R. Hendricks
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|---|----------|-----|-------|------------|
| Thorium Single Analyte Custom Grade Sol | 14318 | 125 | mL | 10/25/2022 |

Final Volume:
500 mL

Stock Source

Base Units

Amount Added

Analytes

CAS

Conc: **ug/mL**

300 Technology Drive
 Christiansburg, VA 24073 USA
 inorganicventures.com

 P: 800-669-6799/540-585-3030
 F: 540-585-3012
 info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
 Catalog Number: CGTH1
 Lot Number: S2-TH706436
 Matrix: 5% (v/v) HNO₃
 Value / Analyte(s): 1 000 µg/mL ea:
 Thorium
 Starting Material: TH(NO₃)₄·4H₂O
 Starting Material Lot#: 2250
 Starting Material Purity: 99.9905%

ID #: 14318
 Opened:
 Thorium Single Analyte Custom Grade Solution
Expires: 7/4/2025
 Rec'd: 9/24/2021
 Eneray Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1001 ± 4 µg/mL
Density: 1.026 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **1001 ± 3 µg/mL**
 EDTA NIST SRM 928 Lot Number: 928

Assay Method #2 **1001 ± 6 µg/mL**
 Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

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:

$$w_i = (1/u_{char i}^2) / (\sum(1/(u_{char i}^2)))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum((w_i)^2 (u_{char i}^2))]^{1/2}$ 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

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u^2_{char a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$$

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 ($\mu\text{g/mL}$)

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 < | 0.000448 | M Eu < | 0.000224 | O Na | 0.064077 | M Se < | 0.005827 | M Zn | 0.003183 |
| O Al | 0.010962 | M Fe | 0.012392 | M Nb < | 0.003138 | i Si < | | M Zr < | 0.010310 |
| M As < | 0.038776 | M Ga < | 0.004931 | M Nd | 0.004697 | M Sm | 0.000871 | | |
| M Au < | 0.000224 | M Gd | 0.000300 | M Ni < | 0.006724 | M Sn < | 0.028242 | | |
| M B < | 0.021293 | M Ge < | 0.008965 | M Os < | 0.000224 | M Sr | 0.002582 | | |
| M Ba | 0.001317 | M Hf < | 0.000224 | i P < | | M Ta < | 0.001344 | | |
| M Be < | 0.000224 | M Hg < | 0.000448 | M Pb | 0.003287 | M Tb < | 0.001793 | | |
| M Bi < | 0.001793 | M Ho < | 0.001344 | M Pd < | 0.000448 | M Te < | 0.010086 | | |
| O Ca | 0.051969 | M In | 0.000134 | M Pr | 0.001202 | s Th < | | | |
| M Cd < | 0.001344 | M Ir < | 0.000224 | M Pt < | 0.000224 | M Ti < | 0.004258 | | |
| M Ce | 0.015420 | O K | 0.028928 | M Rb < | 0.005155 | M Tl < | 0.000224 | | |
| M Co < | 0.001344 | M La | 0.003577 | M Re < | 0.000224 | M Tm < | 0.000224 | | |
| M Cr < | 0.015465 | M Li < | 0.000448 | M Rh < | 0.000224 | M U | 0.006564 | | |
| M Cs < | 0.013896 | M Lu < | 0.000224 | M Ru < | 0.000224 | M V < | 0.001793 | | |
| M Cu | 0.001472 | O Mg | 0.027914 | i S < | | M W < | 0.000224 | | |
| M Dy | 0.000197 | M Mn | 0.001814 | M Sb < | 0.004931 | M Y | 0.000860 | | |
| M Er < | 0.002241 | M Mo < | 0.000896 | M Sc < | 0.000672 | M Yb < | 0.000224 | | |

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 - 232.04 +4 8 Th(OH) 3+ and Th(OH)22+

Chemical Compatibility -Soluble in HCl, and HNO3. Avoid H3PO4, H2SO4 and HF although solubilities may not be a problem depending upon pH and matrix (For example: ThF4 is soluble in acids). Avoid neutral to basic media. Th4+ is stable with most metals and inorganic anions forming an insoluble carbonate, oxide, fluoride, oxalate, sulfate and phosphate in neutral to slightly acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.

Th Containing Samples (Preparation and Solution) -Metal (Soluble in Aqua Regia); Oxide (The heated oxide is not soluble in acids except hot conc. H2SO4); Ores (Na2O2 fusion at 480 ± 20EC for 7 minutes, cool and treat sintered mass with 50 mL cold water and stand until disintegrated. The mass is transferred to a beaker and acidified with HCl with 25 mL excess HCl added. Any residue is collected on a Whatman No. 42 filter, dried and ignited to 1000 EC in Pt0 crucible and the ash treated with H2SO4 / HF and fumed. If residue remains, then treat it by peroxide fusion as above.)

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 232 amu | 1 ppt | N/A | |
| ICP-OES 274.716 nm | 0.08 / 0.008 µg/mL | 1 | Ti, Ta, Fe, V |
| ICP-OES 283.231 nm | 0.07 / 0.007 µg/mL | 1 | U, Mo, Ti, Fe, Cr |
| ICP-OES 283.730 nm | 0.07 / 0.007 µg/mL | 1 | U, Zr |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 04, 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

- July 04, 2025

- 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



Energy Laboratories Inc

Spike LOG

Standard ID: ME210901 HG SECOND SOURCE
Standard Name: Secondary Hg Stock 2 PPM
Date Prepared: 9/1/2021
Date Expires: 7/26/2022
Department: ME
Vendor: Inorganic Ventures
Lot Number:
Balance ID:
Comments:

Type: Secondary
BY: Alyssa A. espinoza
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Exp |
|---------------------------------------|----------|------|-------|-------|
| Nitric Acid, 69.0-70.0%,0000282671 | 14178 | 0.1 | mL | 4/11/ |
| Hydrochloric Acid Instra Analyzed 000 | 14028 | 0.05 | mL | 3/29/ |

Final Volume: 50 mL

Stock Source
ME210726 Hg Secondary Source

Base Units
ug/mL

Amount Added
0.1 mL

Analvtes

CAS

Conc: **ug/mL**

Energy Laboratories Inc

Spike LOG

Standard ID: ME210726
Standard Name: Hg Secondary Source
Date Prepared: 7/26/2021
Date Expires: 7/26/2022
Department: _____
Vendor: _____
Lot Number: _____
Balance ID: _____
Comments: _____

Type: _____
BY: Jordan A. Gjerde
Status: New

| Chemical / Solvent Used | BottleNo | Amt | Units | Exp |
|-------------------------------------|----------|-----|-------|-------|
| Mercury Single Analyte Custom Grade | 13979 | 120 | mL | 7/26/ |

Final Volume: mL

Stock Source

Base Units

Amount Added

Analvtes

CAS

Conc: ug/mL

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
 Catalog Number: CGHG1
 Lot Number: R2-HG696409
 Matrix: 5% (v/v) HNO3
 Value / Analyte(s): 1 000 µg/mL ea:
 Mercury
 Starting Material: Hg metal
 Starting Material Lot#: 1959
 Starting Material Purity: 99.9994%

ID #: 13979
 Opened:
 Mercury Single Analyte Custom Grade Solution
Expires: 9/15/2024
 Rec'd: 6/23/2021
 Energy Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1002 ± 3 µg/mL
Density: 1.026 g/mL (measured at 20 ± 4 °C)

Assay Information:

Assay Method #1 **1004 ± 8 µg/mL**
 ICP Assay NIST SRM 3133 Lot Number: 160921

Assay Method #2 **1003 ± 3 µg/mL**
 EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **1001 ± 3 µg/mL**
 Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i) (X_i)$$

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:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum((w_i)^2 (u_{char i}^2))]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = 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

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{Its}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = 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 ($\mu\text{g/mL}$)

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 | 0.001159 | M | Eu < | 0.000201 | O Na | 0.000435 | M | Se < | 0.015915 | O Zn < | 0.001510 |
| O Al | 0.000090 | O | Fe | 0.000113 | M Nb < | 0.000201 | O | Si | 0.000525 | 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 | 0.000746 | 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 | 0.002007 | 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 | 0.000096 | 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 | 0.000971 | 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 15, 2020

- 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 15, 2024**

- 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



Energy Laboratories Inc

Standard LOG

Standard ID: ME211124 EL-MSICV-2
Standard Name: EL-MSICV-2
Date Prepared: 11/24/2021
Date Expires: 11/24/2022
Department: ME
Vendor: Inorganic Ventures
Lot Number:
Balance ID:
Comments:

Type: Primary
BY: Amanda E. McDani
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Exp |
|-------------------------------------|----------|-----|-------|-------|
| Multi Analyte Custom Grade Solution | 14023 | 500 | mL | 11/24 |

Final Volume: mL

Stock Source

Base Units

Amount Added

Analvtes

CAS

Conc: **ug/mL**

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).


2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
 Catalog Number: EL-MSICV-2
 Lot Number: R2-MEB696849
 Matrix: 3% (v/v) HNO₃
 tr. HF
 Value / Analyte(s):
 1 000 µg/mL ea:
 Silicon,
 100 µg/mL ea:
 Tin, Titanium,
 Molybdenum, Antimony

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|--------------|-------------------|----------------|-------------------|
| Antimony, Sb | 100.0 ± 0.6 µg/mL | Molybdenum, Mo | 100.0 ± 0.5 µg/mL |
| Silicon, Si | 1 000 ± 7 µg/mL | Tin, Sn | 99.9 ± 0.4 µg/mL |
| Titanium, Ti | 99.9 ± 0.6 µg/mL | | |

Density: 1.019 g/mL (measured at 20 ± 4 °C)

Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---------|------------|-----------|--------------|
| Mo | ICP Assay | 3134 | 130418 |
| Sb | ICP Assay | 3102a | 140911 |
| Si | ICP Assay | 3150 | 130912 |
| Sn | ICP Assay | 3161a | 070330 |
| Sn | Calculated | | See Sec. 4.2 |
| Ti | ICP Assay | 3162a | 130925 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

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:
 $w_i = (1/u_{char i}^2) / (\sum(1/u_{char i}^2))$

CRM/RM Expanded Uncertainty (\pm) = $U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$
 k = coverage factor = 2
 $u_{char} = [\sum(w_i)^2 (u_{char i}^2)]^{1/2}$ 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 (\pm) = $U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$
 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 ($\mu\text{g/mL}$)

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.

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, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 14, 2020

- 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 14, 2024**

- 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



Energy Laboratories Inc

Standard LOG

Standard ID: ME210817 ICV-1A
Standard Name: EL-MSICV-1A
Date Prepared: 8/17/2021
Date Expires: 8/17/2022
Department: ME
Vendor: Inorganic Ventures
Lot Number: R2-MEB688457
Balance ID:
Comments: Opened 8/17/2021; Expires 8/17/2022

Type: Primary
BY: Alyssa A. espinoza
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Exp |
|-------------------------------------|----------|-----|-------|-------|
| Multi Analyte Custom Grade Solution | 13475 | 500 | mL | 8/17/ |

Final Volume: 500 mL

Stock Source

Base Units

Amount Added

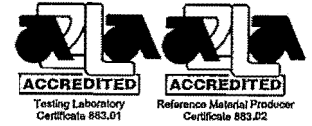
Analvtes

CAS

Conc: **ug/mL**

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).


2.0 PRODUCT DESCRIPTION

| | | | |
|---------------------|-------------------------------------|-------------|------------|
| Product Code: | Multi Analyte Custom Grade Solution | | |
| Catalog Number: | EL-MSICV-1A | | |
| Lot Number: | R2-MEB688457 | | |
| Matrix: | 5% (v/v) HNO ₃ | | |
| Value / Analyte(s): | 5 000 µg/mL ea: | Calcium, | Potassium, |
| | | Sodium, | Magnesium, |
| | 1 000 µg/mL ea: | Phosphorus, | |
| | 500 µg/mL ea: | Manganese, | Iron, |
| | 100 µg/mL ea: | Arsenic, | Boron, |
| | | Cobalt, | Chromium, |
| | | Lithium, | Nickel, |
| | | Selenium, | Strontium, |
| | | Vanadium, | Zinc, |
| | 50 µg/mL ea: | Silver, | Cadmium, |
| | | | Beryllium |

ID #: 13475

Opened: _____

Multi Analyte Custom Grade Solution

Expires: 1/10/2024

Rec'd: 1/15/2021

 Energy Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|---------------|-------------------|---------------|--------------------|
| Aluminum, Al | 500.3 ± 1.8 µg/mL | Arsenic, As | 100.0 ± 0.8 µg/mL |
| Barium, Ba | 99.9 ± 0.4 µg/mL | Beryllium, Be | 49.96 ± 0.33 µg/mL |
| Boron, B | 100.0 ± 0.6 µg/mL | Cadmium, Cd | 50.10 ± 0.22 µg/mL |
| Calcium, Ca | 5 001 ± 20 µg/mL | Chromium, Cr | 100.0 ± 0.6 µg/mL |
| Cobalt, Co | 100.0 ± 0.5 µg/mL | Copper, Cu | 100.1 ± 0.4 µg/mL |
| Iron, Fe | 499.7 ± 2.1 µg/mL | Lead, Pb | 100.1 ± 0.4 µg/mL |
| Lithium, Li | 100.0 ± 0.4 µg/mL | Magnesium, Mg | 5 000 ± 21 µg/mL |
| Manganese, Mn | 499.8 ± 1.9 µg/mL | Nickel, Ni | 100.1 ± 0.4 µg/mL |
| Phosphorus, P | 1 000 ± 5 µg/mL | Potassium, K | 5 000 ± 18 µg/mL |
| Selenium, Se | 100.1 ± 0.8 µg/mL | Silver, Ag | 50.02 ± 0.22 µg/mL |
| Sodium, Na | 5 000 ± 18 µg/mL | Strontium, Sr | 100.1 ± 0.4 µg/mL |
| Thallium, Tl | 100.0 ± 0.7 µg/mL | Vanadium, V | 99.9 ± 0.5 µg/mL |
| Zinc, Zn | 100.0 ± 0.4 µg/mL | | |

Density: 1.098 g/mL (measured at 20 ± 4 °C)

Assay Information:

1.098 g/mL
 20 ± 4 °C

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---------|-------------|-------------------|--------------|
| Ag | ICP Assay | 3151 | 160729 |
| Ag | Volhard | 999c | 999c |
| Al | ICP Assay | 3101a | 140903 |
| Al | EDTA | 928 | 928 |
| As | ICP Assay | 3103a | 100818 |
| B | ICP Assay | 3107 | 110830 |
| 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 | EDTA | 928 | 928 |
| Co | ICP Assay | traceable to 3113 | M2-CO661665 |
| Cr | ICP Assay | 3112a | 170630 |
| Cu | ICP Assay | 3114 | 121207 |
| Cu | EDTA | 928 | 928 |
| Fe | ICP Assay | 3126a | 140812 |
| Fe | EDTA | 928 | 928 |
| K | ICP Assay | 3141a | 140813 |
| K | Gravimetric | | See Sec. 4.2 |
| Li | ICP Assay | 3129a | 100714 |
| Li | Gravimetric | | See Sec. 4.2 |
| Mg | ICP Assay | 3131a | 140110 |
| Mg | EDTA | 928 | 928 |
| Mn | ICP Assay | 3132 | 050429 |
| Mn | EDTA | 928 | 928 |
| Na | ICP Assay | 3152a | 120715 |
| Na | Gravimetric | | See Sec. 4.2 |
| Ni | ICP Assay | 3136 | 120619 |
| Ni | EDTA | 928 | 928 |
| P | ICP Assay | 3139a | 060717 |
| P | Acidimetric | 84L | 84L |
| Pb | ICP Assay | 3128 | 101026 |
| Pb | EDTA | 928 | 928 |
| Se | ICP Assay | 3149 | 100901 |
| Sr | EDTA | 928 | 928 |
| Sr | ICP Assay | 3153a | 990906 |
| Tl | ICP Assay | 3158 | 993012 |
| 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, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum(w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i}^2) / (\sum(1/(u_{\text{char } i}^2)))$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = (\sum(w_i)^2 (u_{\text{char } i}^2))^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_n) (u_{\text{char } n})$$

X_n = mean of Assay Method A with

$u_{\text{char } n}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } n}^2 + u_{\text{bb}}^2 + u_{\text{its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } n}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{its} = 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 ($\mu\text{g/mL}$)

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 outer bag.

- While stored in the sealed outer bag, transpiration of this CRM/RM is negligible. After opening the sealed outer 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 outer 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.

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, EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 10, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 10, 2024**

- 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 outer 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
Manager, Quality Control



Certifying Officer:

Paul Gaines
CEO, Senior Technical Director



Energy Laboratories Inc

Standard LOG

Standard ID: ME210903 CE, LA SECONDARY
Standard Name: Ce, La Secondary solution
Date Prepared: 9/3/2021
Date Expires: 5/25/2022
Department: ME
Vendor:
Lot Number:
Balance ID:
Comments: Second Source Stock Solution

Type: Secondary
BY: Parker A. Pearsall
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Exp |
|---------------------------------------|----------|------|-------|-------|
| Nitric Acid Instra Analyzed 000020579 | 10902 | 0.5 | mL | 7/1/2 |
| Milli-Q H2O | 391 | 39.5 | mL | 6/1/2 |

Final Volume: 50 mL

Stock Source

ME210903 La Sec La Secondary Stock
ME210525 Ce 2nd Ce Secondary Stock

Base Units

ug/mL
ug/mL

Amount Added

5 mL
5 mL

Analvtes

CAS

Conc: ug/mL

Energy Laboratories Inc

Standard LOG

Standard ID: ME210903 LA SECOND SOURCE
Standard Name: La Secondary Stock
Date Prepared: 9/3/2021
Date Expires: 9/3/2022
Department: ME
Vendor: SCP Science
Lot Number: S201029004
Balance ID:
Comments: Opened 9/3/2021; Expires 9/3/2022

Type: Primary
BY: Alyssa A. espinoza
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|------------------------------|----------|-----|-------|----------|
| Lanthanum PlasmaCal Standard | 14019 | 125 | mL | 9/3/2022 |

Final Volume:
mL

Stock Source

Base Units

Amount Added

Analytes

CAS

Conc: **ug/mL**

La

1.0 DESCRIPTION:

PlasmaCAL ICP/ICPMS Standard - Lanthanum 1000 µg/ml
 Catalogue Number: 140-051-570/-571/-575
 Starting Material: Lanthanum(III) Oxide 99.99+%
 Lot Number: **S201029004**
 Matrix: 4% HNO₃ (See Section 3 for actual matrix)
 Expiration Date (End of month): **November 2022** (or 15 months after bottle is opened, whichever comes first)

2.0 CERTIFIED VALUES AND ASSOCIATED UNCERTAINTY:

Certified Concentration: **1005 µg/ml +/- 4 µg/ml**
985 µg/g +/- 4 µg/g
 Method of analysis: Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES)
 Traceability: NIST Standard Reference Material 3127a Lot: **151030**

Note: The uncertainty of the certified value has been calculated from applicable uncertainty contributors (u_i) including uncertainty established during characterization of the material (u_{char}), the between bottle variation (u_{bb}), short-term stability (u_{sts}) and long-term stability (u_{lts}) according to the model $u_c = \sqrt{(u_{char}^2 + u_{bb}^2 + u_{sts}^2 + u_{lts}^2)}$. This combined uncertainty has been further multiplied by a coverage factor (k) of 2 to provide a 95% confidence interval.

ID #: 14019

Opened: _____
 Lanthanum PlasmaCal Standard
Expires: 11/30/2022
 Rec'd: 7/6/2021
 Energv Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

3.0 REFERENCE VALUES:

Density: **1.020 g/ml @ 23.4 °C**
 Actual Matrix: **4.0% (v/v) HNO₃**

Trace Metal Impurities as tested by ICP-AES:

| Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) |
|---------|---------------|---------|-------------|---------|-------------|---------|-------------|
| Ag | <0.0049 | Fe | <0.0102 | Nd | <0.1595 | Sn | <0.0307 |
| Al | <0.0280 | Ga | <0.0260 | Ni | <0.0139 | Sr | <0.0004 |
| As | <0.0525 | Gd | <0.0685 | Os | * | Ta | <0.0635 |
| Au | <0.0085 | Ge | <0.0548 | P | <0.0104 | Tb | <0.0146 |
| B | <0.2535 | Hf | <0.0339 | Pb | <0.2460 | Te | <0.4025 |
| Ba | <0.0025 | Hg | * | Pd | <0.1410 | Th | <0.0471 |
| Be | <0.0022 | Ho | <0.0065 | Pr | <0.0274 | Ti | <0.0013 |
| Bi | <0.0780 | In | <0.0105 | Pt | <0.0533 | Tl | <0.5600 |
| Ca | 0.0164 | Ir | <0.0243 | Rb | * | Tm | <0.0105 |
| Cd | <0.0048 | K | <0.0128 | Re | <0.0076 | U | <0.2490 |
| Ce | <0.0393 | La | N/A | Rh | <0.0163 | V | <0.0049 |
| Co | <0.0224 | Li | <0.0006 | Ru | <0.0304 | W | <0.0443 |
| Cr | <0.0063 | Lu | <0.0021 | S | <0.0515 | Y | <0.0033 |
| Cs | * | Mg | <0.0045 | Sb | <0.0197 | Yb | <0.0057 |
| Cu | <0.0040 | Mn | <0.0018 | Sc | <0.0055 | Zn | <0.0045 |
| Dy | <0.0043 | Mo | <0.0229 | Se | <0.0249 | Zr | <0.0061 |
| Er | <0.0070 | Na | <0.0038 | Si | <0.0455 | | |
| Eu | <0.0086 | Nb | <0.0112 | Sm | <0.1105 | | |

*: Not tested

4.0 APPROVAL AND DATE OF CERTIFICATION:

Certification Approval: Daniel Boisvert, Chemist
 Certification Date: November 04, 2020

Daniel Boisvert

5.0 INTENDED USE / UTILISATION PRÉVUE:

- ICP Standards: For the calibration of, including but not limited to: ICP-AES, ICP-MS, FAAS, GFAA, XRF and DCP. / *Étalons ICP : Pour l'étalonnage d'instruments de mesure tels que: ICP-AES, ICP-MS, FAAS, GFAA, XRF et DCP.*
 - AA Standards: For the calibration of Flame (FAAS) and Graphite Furnace (GFAA) Atomic Absorption Spectrometers. / *Étalons AA : Pour l'étalonnage de spectromètres d'absorption atomique flamme (FAAS) et four au graphite (GFAA).*
 - Matrix Modifiers: For the optimization of analytical conditions to provide better Graphite Furnace Atomic Absorption (GFAA) instrument response and improved detection limits. / *Modificateur de matrice : Pour l'optimisation des conditions analytiques afin de fournir des meilleures réponses instrumentales et limites de détection pour SAA four au graphite.*
 - pH Standards: For the calibrating pH meters or for other wet chemistry applications. / *Étalons pH : Pour étalonnage de pH mètres et autres applications de chimie humide.*
 - Conductivity Standards: For electrolytic conductivity measurement as a calibration standard. / *Étalons de conductivité : Comme étalon pour les mesures de conductivité électrolytiques.*
 - IC Standards: for calibration of, but not limited to IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS or other wet chemistry applications. / *Étalons IC : Pour étalonnage d'instruments tels que : IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS et autres applications de chimie humide.*
- For any inquiries, please contact **SCP SCIENCE**. / *Pour toute question, veuillez contacter SCP SCIENCE.*

6.0 INSTRUCTIONS FOR USE / INSTRUCTIONS D'UTILISATION:

Handling and Storage / Manutention et entreposage: Keep product tightly capped when not in use. The solution should be opened for a minimum amount of time necessary to dispense the amount required. Do not pipet or use directly from container. Do not return unused portions back to container. Store under normal laboratory conditions. Avoid exposure to excessive sources of heat and humidity or direct sunlight. / *Garder les contenants bien fermés lorsque non utilisés. Le contenant devrait être ouvert seulement pour le temps requis afin de prélever la quantité nécessaire. Ne pas pipetter ou utiliser directement du contenant. Ne pas retourner les portions non-utilisées dans le contenant. Conserver dans des conditions normales de laboratoire. Éviter l'exposition à des sources de chaleur et d'humidité excessives ou à l'exposition solaire directe.*

Stability / Stabilité: This Standard is guaranteed to be stable and accurate to within the specified uncertainty of measurement up to the unopened expiry date, if sealed, or up to the opened expiry date (when indicated), whichever comes first, provided the solution is kept tightly capped and stored under the indicated storage conditions. Purchasers will be notified of any significant changes resulting in re-certification or withdrawal of the product prior to the expiration date. / *La stabilité et l'exactitude de cet étalon sont garanties d'être à l'intérieur de l'incertitude de mesure, jusqu'à la date d'expiration de la bouteille non-ouverte, si scellée, ou jusqu'à la date d'expiration de la bouteille ouverte (si indiquée), en présupmant que le contenant est maintenu fermé et gardé dans les conditions d'entreposage indiquées. Les acheteurs seront avisés dans le cas où il y aura des changements significatifs nécessitant une re-certification ou un rappel du produit avant la date d'expiration.*

7.0 HAZARDOUS INFORMATION / INFORMATION SUR LES RISQUES POTENTIELS:

Please refer to the associated Safety Data Sheet (SDS) for information regarding this product (available at www.SCPSCIENCE.com). / *SVP vous référer à la Fiche Signalétique applicable pour de l'information sur ce produit (Disponible à www.SCPSCIENCE.com).*

8.0 HOMOGENEITY / HOMOGÉNÉITÉ:

This solution has been blended according to an in-house procedure and its homogeneity is guaranteed to be fit for purpose when a sample size sufficient for the intended method of analysis is used. / *Cette solution a été préparée selon une procédure maison et nous assurons que sa homogénéité est approprié à l'emploi lorsqu'un échantillon suffisant pour la méthode d'analyse prévue est utilisé.*

9.0 TRACEABILITY / TRAÇABILITÉ:

This CRM (Certified Reference Material) is traceable to the NIST SRM (Standard Reference Material) indicated in section 2 through an unbroken chain of comparisons. In addition, balances used are regularly calibrated using weights which are traceable to NIST (National Institute of Standards and Technology) or NRC (National Research Council of Canada) standards. All conductivity meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable Thermometer and standards. All pH meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable thermometer and pH/MV simulator. / *Ce matériel de référence certifié est traçable au Matériel de Référence Standardisé de NIST indiqué à la section 2 par une chaîne de comparaison ininterrompue. De plus, les balances utilisées sont étalonnées régulièrement en utilisant des poids qui sont traçables au NIST (National Institute of Standards and Technology) ou au CRNC (Conseil National de Recherches Canada). Tout conductimètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et étalons traçables au NIST ou au CNRC. Tout pH mètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et un simulateur pH/MV traçables au NIST ou au CNRC.*

10.0 PREPARATION / PRÉPARATION:

For the preparation of these solutions, 18 megohm/cm double deionized water, high-purity acids and glassware calibrated to ASTM Class A specifications are used. / *Une eau de 18 megohm/cm doublement déionisé, de l'acide de haute pureté, ainsi que de la verrerie étalonnée afin de satisfaire les spécifications Classe A de ASTM ont été utilisés pour la préparation de cet étalon.*

11.0 QUALITY SYSTEM CERTIFICATIONS / CERTIFICATIONS DE SYSTÈME QUALITÉ:

ISO 9001 Certification / Certification ISO 9001: This standard was produced in a facility which operates under a registered ISO 9001 Quality Management System. Please consult our web site for a copy of the most recent revision of our certificate of registration. / *Cet étalon a été fabriqué dans un laboratoire qui utilise un Système de Gestion de la Qualité enregistré à la norme ISO 9001. Veuillez consulter notre site web pour obtenir la version la plus récente de notre certificat d'enregistrement.*

ISO 17025 Accreditation / Accréditation ISO 17025: SCP SCIENCE (Corporate Headquarters) operates an ISO 17025 accredited laboratory. Please consult our web site for a copy of the most recent revision of our certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est accréditée ISO 17025. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

ISO 17034 Accreditation / Accréditation ISO 17034 : SCP SCIENCE (Corporate Headquarters) is an ISO 17034 accredited Reference Material Producer. Please consult our website for a copy of our most recent certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est un Fabricant de Matériaux de Référence Accrédité ISO 17034. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

CORPORATE HEADQUARTERS
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H9X 4B6 Canada
Phone: +1 (800) 361-6820
Fax: +1 (800) 253-5549

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3rd Party Distribution Center
348 Route 11, Champlain,
N.Y. 12919-4816
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GERMANY
Alte Marktoberdorfer Straße 14, 87616
Marktoberdorf
Phone: +49 (0) 8342-89560-61
Fax: +49 (0) 8342-89560-69

Energy Laboratories Inc

Standard LOG

Standard ID: ME210525 CE 2ND SOURCE
Standard Name: Ce Secondary Stock
Date Prepared: 5/25/2021
Date Expires: 5/25/2022
Department: ME
Vendor: SCP Science
Lot Number: S210208003
Balance ID:
Comments: opened 5/25/2021, expires 5/25/2022

Type: Primary
BY: Stacy R. Hendricks
Status: Empty/Disposed

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|---------------------------|----------|-----|-------|-----------|
| ICP/ICPMS Standard Cerium | 13642 | 125 | mL | 5/25/2022 |

Final Volume:
125 mL

Stock Source

Base Units

Amount Added

Analytes

CAS

Conc: **ug/mL**

Ce

1.0 DESCRIPTION: *PlasmaCAL ICP/ICPMS Standard - Cerium 1000 µg/ml*
 Catalogue Number: 140-051-580/-581/-585
 Starting Material: Cerium(III) Nitrate Hexahydrate 99.99+%
 Lot Number: **S210208003**
 Matrix: 4% HNO₃ (See Section 3 for actual matrix)
 Expiration Date (End of month): **February 2023** (or 15 months after bottle is opened, whichever comes first)

2.0 CERTIFIED VALUES AND ASSOCIATED UNCERTAINTY:
 Certified Concentration: **1003 µg/ml +/- 4 µg/ml**
982 µg/g +/- 4 µg/g
 Method of analysis: Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES)
 Traceability: NIST Standard Reference Material 3110 Lot: **090504**

Note: The uncertainty of the certified value has been calculated from applicable uncertainty contributors (u_i) including uncertainty established during characterization of the material (u_{char}), the between bottle variation (u_{bb}), short-term stability (u_{sts}) and long-term stability (u_{lts}) according to the model $u_c = \sqrt{(u_{char}^2 + u_{bb}^2 + u_{sts}^2 + u_{lts}^2)}$. This combined uncertainty has been further multiplied by a coverage factor (k) of 2 to provide a 95% confidence interval.

3.0 REFERENCE VALUES:
 Density: **1.021 g/ml @ 22.5 °C**
 Actual Matrix: **4.0% (v/v) HNO₃**

Trace Metal Impurities as tested by ICP-MS:

ID #: 13642
 Opened: _____
 ICP/ICPMS Standard Cerium
Expires: 2/28/2023
 Rec'd: 3/16/2021
 Enerq Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

| Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) |
|---------|---------------|---------|---------------|---------|---------------|---------|-------------|
| Ag | <0.0010 | Fe | <0.0018 | Nd | 0.0102 | Sn | <0.0010 |
| Al | 0.0148 | Ga | 0.0526 | Ni | 0.0064 | Sr | <0.0025 |
| As | <0.0010 | Gd | <0.0010 | Os | <0.0010 | Ta | <0.0010 |
| Au | <0.0010 | Ge | <0.0010 | P | <0.0132 | Tb | <0.0010 |
| B | <0.0015 | Hf | <0.0010 | Pb | <0.0010 | Te | <0.0010 |
| Ba | <0.0010 | Hg | * | Pd | <0.0010 | Th | <0.0010 |
| Be | <0.0010 | Ho | <0.0010 | Pr | 0.0235 | Ti | <0.0012 |
| Bi | <0.0010 | In | <0.0010 | Pt | <0.0010 | Tl | <0.0011 |
| Ca | 0.0375 | Ir | <0.0010 | Rb | <0.0010 | Tm | <0.0010 |
| Cd | <0.0010 | K | <0.0024 | Re | <0.0010 | U | <0.0010 |
| Ce | N/A | La | <0.10 | Rh | <0.0010 | V | <0.0010 |
| Co | <0.0010 | Li | <0.0010 | Ru | <0.0010 | W | <0.0020 |
| Cr | <0.0010 | Lu | <0.0010 | S | * | Y | <0.0010 |
| Cs | <0.0010 | Mg | <0.0010 | Sb | <0.0010 | Yb | <0.0010 |
| Cu | 0.0121 | Mn | <0.0010 | Sc | <0.0010 | Zn | <0.0010 |
| Dy | <0.0010 | Mo | <0.0010 | Se | <0.0010 | Zr | <0.0010 |
| Er | <0.0010 | Na | <0.0010 | Si | <0.10 | | |
| Eu | 0.0035 | Nb | <0.0010 | Sm | <0.0010 | | |

*: Not tested

4.0 APPROVAL AND DATE OF CERTIFICATION:
 Certification Approval: Yaling Sui, Chemist
 Certification Date: February 22, 2021

Yaling Sui

5.0 INTENDED USE / UTILISATION PRÉVUE:

- ICP Standards: For the calibration of, including but not limited to: ICP-AES, ICP-MS, FAAS, GFAA, XRF and DCP. / *Étalons ICP : Pour l'étalonnage d'instruments de mesure tels que: ICP-AES, ICP-MS, FAAS, GFAA, XRF et DCP.*
 - AA Standards: For the calibration of Flame (FAAS) and Graphite Furnace (GFAA) Atomic Absorption Spectrometers. / *Étalons AA : Pour l'étalonnage de spectromètres d'absorption atomique flamme (GFAA) et four au graphite (GFAA).*
 - Matrix Modifiers: For the optimization of analytical conditions to provide better Graphite Furnace Atomic Absorption (GFAA) instrument response and improved detection limits. / *Modificateur de matrice : Pour l'optimisation des conditions analytiques afin de fournir des meilleures réponses instrumentales et limites de détection pour SAA four au graphite.*
 - pH Standards: For the calibrating pH meters or for other wet chemistry applications. / *Étalons pH : Pour étalonnage de pH mètres et autres applications de chimie humide.*
 - Conductivity Standards: For electrolytic conductivity measurement as a calibration standard. / *Étalons de conductivité : Comme étalon pour les mesures de conductivité électrolytiques.*
 - IC Standards: for calibration of, but not limited to IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS or other wet chemistry applications. / *Étalons IC : Pour étalonnage d'instruments tels que : IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS et autres applications de chimie humide.*
- For any inquiries, please contact SCP SCIENCE. / *Pour toute question, veuillez contacter SCP SCIENCE.*

6.0 INSTRUCTIONS FOR USE / INSTRUCTIONS D'UTILISATION:

Handling and Storage / Manutention et entreposage: Keep product tightly capped when not in use. The solution should be opened for a minimum amount of time necessary to dispense the amount required. Do not pipet or use directly from container. Do not return unused portions back to container. Store under normal laboratory conditions. Avoid exposure to excessive sources of heat and humidity or direct sunlight. / *Garder les contenants bien fermés lorsque non utilisés. Le contenant devrait être ouvert seulement pour le temps requis afin de prélever la quantité nécessaire. Ne pas pipetter ou utiliser directement du contenant. Ne pas retourner les portions non-utilisées dans le contenant. Conserver dans des conditions normales de laboratoire. Éviter l'exposition à des sources de chaleur et d'humidité excessives ou à l'exposition solaire directe.*

Stability / Stabilité: This Standard is guaranteed to be stable and accurate to within the specified uncertainty of measurement up to the unopened expiry date, if sealed, or up to the opened expiry date (when indicated), whichever comes first, provided the solution is kept tightly capped and stored under the indicated storage conditions. Purchasers will be notified of any significant changes resulting in re-certification or withdrawal of the product prior to the expiration date. / *La stabilité et l'exactitude de cet étalon sont garanties d'être à l'intérieur de l'incertitude de mesure, jusqu'à la date d'expiration de la bouteille non-ouverte, si scellée, ou jusqu'à la date d'expiration de la bouteille ouverte (si indiquée), en présumant que le contenant est maintenu fermé et gardé dans les conditions d'entreposage indiquées. Les acheteurs seront avisés dans le cas où il y aura des changements significatifs nécessitant une re-certification ou un rappel du produit avant la date d'expiration.*

7.0 HAZARDOUS INFORMATION / INFORMATION SUR LES RISQUES POTENTIELS:

Please refer to the associated Safety Data Sheet (SDS) for information regarding this product (available at www.SCPSCIENCE.com). / *SVP vous référer à la Fiche Signalétique applicable pour de l'information sur ce produit (Disponible à www.SCPSCIENCE.com).*

8.0 HOMOGENEITY / HOMOGÉNÉITÉ:

This solution has been blended according to an in-house procedure and its homogeneity is guaranteed to be fit for purpose when a sample size sufficient for the intended method of analysis is used. / *Cette solution a été préparée selon une procédure maison et nous assurons que sa homogénéité est approprié à l'emploi lorsqu'un échantillon suffisant pour la méthode d'analyse prévue est utilisé.*

9.0 TRACEABILITY / TRAÇABILITÉ:

This CRM (Certified Reference Material) is traceable to the NIST SRM (Standard Reference Material) indicated in section 2 through an unbroken chain of comparisons. In addition, balances used are regularly calibrated using weights which are traceable to NIST (National Institute of Standards and Technology) or NRC (National Research Council of Canada) standards. All conductivity meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable Thermometer and standards. All pH meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable thermometer and pH/MV simulator. / *Ce matériel de référence certifié est traçable au Matériel de Référence Standardisé de NIST indiqué à la section 2 par une chaîne de comparaison ininterrompue. De plus, les balances utilisées sont étalonnées régulièrement en utilisant des poids qui sont traçables au NIST (National Institute of Standards and Technology) ou au CRNC (Conseil National de Recherches Canada). Tout conductimètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et étalons traçables au NIST ou CNRC. Tout pH mètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et un simulateur pH/MV traçables au NIST ou au CNRC.*

10.0 PREPARATION / PRÉPARATION:

For the preparation of these solutions, 18 meghom/cm double deionized water, high-purity acids and glassware calibrated to ASTM Class A specifications are used. / *Une eau de 18 meghom/cm doublement déionisée, de l'acide de haute pureté, ainsi que de la verrerie étalonnée afin de satisfaire les spécifications Classe A de ASTM ont été utilisés pour la préparation de cet étalon.*

11.0 QUALITY SYSTEM CERTIFICATIONS / CERTIFICATIONS DE SYSTÈME QUALITÉ:

ISO 9001 Certification / Certification ISO 9001: This standard was produced in a facility which operates under a registered ISO 9001 Quality Management System. Please consult our web site for a copy of the most recent revision of our certificate of registration. / *Cet étalon a été fabriqué dans un laboratoire qui utilise un Système de Gestion de la Qualité enregistré à la norme ISO 9001. Veuillez consulter notre site web pour obtenir la version la plus récente de notre certificat d'enregistrement.*

ISO 17025 Accreditation / Accréditation ISO 17025: SCP SCIENCE (Corporate Headquarters) operates an ISO 17025 accredited laboratory. Please consult our web site for a copy of the most recent revision of our certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est accréditée ISO 17025. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

ISO 17034 Accreditation / Accréditation ISO 17034: SCP SCIENCE (Corporate Headquarters) is an ISO 17034 accredited Reference Material Producer. Please consult our website for a copy of our most recent certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est un Fabricant de Matériaux de Référence Accrédité ISO 17034. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

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GERMANY
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Marktoberdorf
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Fax: +49 (0) 8342-89560-69

Energy Laboratories Inc

Standard LOG

Standard ID: ME210901 ICSAB
 Standard Name: ICSAB
 Date Prepared: 9/1/2021
 Date Expires: 9/1/2022
 Department: ME
 Vendor:
 Lot Number:
 Balance ID:

Type: Secondary
 BY: Cindy Rohrer
 Status: Open

Comments: Made fresh every Monday, Wednesday, and Friday

| Chemical / Solvent Used | BottleNo | Amt | Units | Exp |
|---------------------------------------|----------|-------|-------|-------|
| Nitric Acid, 69.0-70.0%,0000282671 | 14178 | 1 | mL | 4/11/ |
| Milli-Q H2O | 391 | 46.45 | mL | 6/1/2 |
| Hydrochloric Acid Instra Analyzed 000 | 14028 | 0.5 | mL | 3/29/ |

Final Volume: 50 mL

Stock Source

ME210901 6020IC 6020ICS-8A
 ME 210901 6020IC 6020ICS-9B

Base Units

ug/mL
 ug/mL

Amount Added

2 mL
 0.05 mL

Analvtes

CAS

Conc: **mg/L**

Energy Laboratories Inc

Standard LOG

Standard ID: ME 210901 6020ICS-9B
Standard Name: 6020ICS-9B
Date Prepared: 9/1/2021
Date Expires: 9/1/2022
Department: ME
Vendor: Inorganic Ventures
Lot Number: P2-MEB678862
Balance ID:
Comments: Opened 9/1/2021; Expires 9/1/2022

Type: Primary
BY: Alyssa A. espinoza
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------------------|----------|-----|-------|----------|
| Multi Analyte Custom Grade Solution | 13478 | 125 | mL | 9/1/2022 |

Final Volume:
125 mL

Stock Source

Base Units

Amount Added

Analytes

CAS

Conc: **mg/L**

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).


2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
 Catalog Number: 6020ICS-9B
 Lot Number: P2-MEB678862
 Matrix: 3% (v/v) HNO₃
 Value / Analyte(s):
 20 µg/mL ea:
 Cobalt, Chromium,
 Manganese, Nickel, Copper,
 10 µg/mL ea: Vanadium,
 Zinc, Arsenic, Cadmium,
 Selenium,
 5 µg/mL ea:
 Silver

ID #: 13478
 Opened: _____
 Multi Analyte Custom Grade Solution
 Expires: 5/17/2023
 Rec'd: 1/15/2021
 Energy Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|--------------|---------------------|---------------|--------------------|
| Arsenic, As | 10.01 ± 0.05 µg/mL | Cadmium, Cd | 10.01 ± 0.04 µg/mL |
| Chromium, Cr | 20.02 ± 0.12 µg/mL | Cobalt, Co | 20.01 ± 0.10 µg/mL |
| Copper, Cu | 20.02 ± 0.08 µg/mL | Manganese, Mn | 20.02 ± 0.09 µg/mL |
| Nickel, Ni | 20.02 ± 0.09 µg/mL | Selenium, Se | 10.01 ± 0.06 µg/mL |
| Silver, Ag | 5.005 ± 0.022 µg/mL | Vanadium, V | 20.02 ± 0.08 µg/mL |
| Zinc, Zn | 10.01 ± 0.04 µg/mL | | |

Density: 1.015 g/mL (measured at 20 ± 4 °C)

Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---------|------------|-------------------|--------------|
| Ag | ICP Assay | 3151 | 160729 |
| Ag | Volhard | 999c | 999c |
| As | ICP Assay | 3103a | 100818 |
| As | Calculated | | See Sec. 4.2 |
| Cd | ICP Assay | 3108 | 130116 |
| Cd | EDTA | 928 | 928 |
| Co | EDTA | 928 | 928 |
| Co | ICP Assay | traceable to 3113 | M2-CO661665 |
| Cr | ICP Assay | 3112a | 170630 |
| Cu | ICP Assay | 3114 | 121207 |
| Cu | EDTA | 928 | 928 |
| Mn | EDTA | 928 | 928 |
| Mn | ICP Assay | Traceable to 3132 | N2-MN665236 |
| Mn | Calculated | | See Sec. 4.2 |
| Ni | ICP Assay | 3136 | 120619 |
| Ni | EDTA | 928 | 928 |
| Se | ICP Assay | 3149 | 100901 |
| Se | Calculated | | See Sec. 4.2 |
| V | EDTA | 928 | 928 |
| V | ICP Assay | 3165 | 992706 |
| 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:

$$X_{CRM/RM} = \sum(w_i) (X_i)$$

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:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i}^2)]^{1/2}$ 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

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

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

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

May 17, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 17, 2023**

- 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

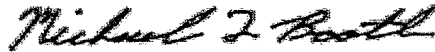
- Sealed TCT Bag Open Date: _____

- 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
Supervisor, Quality Control



Certifying Officer:

Paul Gaines
CEO, Senior Technical Director



Energy Laboratories Inc

Standard LOG

Standard ID: ME220112 SS1
Standard Name: SS1 ICPMS Spiking Solution
Date Prepared: 1/12/2022
Date Expires: 12/8/2022
Department: ME
Vendor: Inorganic Ventures
Lot Number:
Balance ID:
Comments:

Type: Secondary
BY: Stacy R. Hendricks
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|---|----------|------|-------|------------|
| Nitric Acid, 69.0-70.0%,0000277202 | 13781 | 0.8 | mL | 1/14/2026 |
| Hydrochloric Acid, 36.5-38.0% 000027567 | 13784 | 2 | mL | 12/15/2025 |
| Milli-Q H2O | 391 | 28.8 | mL | 6/1/2100 |

Final Volume:
40 mL

Stock Source

ME220105 HgPrim Primary Hg Stock 2 PPM
ME211208 MSCAL MSCAL 2B
ME211221 MSCAL MSCAL 3C
ME220110 Ce, La Ce, La Primary

Base Units

ug/mL
ug/mL
ug/mL
ug/mL

Amount Added

2 mL
2 mL
2 mL
2 mL

Analytes

CAS

Conc: **mg/L**

Energy Laboratories Inc

Spike LOG

Standard ID: ME220105 HGPRIMARY
Standard Name: Primary Hg Stock 2 PPM
Date Prepared: 1/5/2022
Date Expires: 12/29/2022
Department: ME
Vendor: Inorganic Ventures
Lot Number:
Balance ID:
Type: Secondary
BY: Amanda E. McDani
Status: Open
Comments: Made with different HG stock than QCS

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------------|----------|------|-------|------------|
| Nitric Acid 69.0- 70.0% D0521 | 14626 | 0.5 | mL | 12/14/2026 |
| Hydrochloric Acid E1421 | 14721 | 0.25 | mL | 1/4/2027 |

Final Volume:
25 mL

Stock Source

ME220110HG HG Stock
ME211229A AU 2N Au 2nd source Stock

Base Units

ug/mL
ug/mL

Amount Added

0.05 mL
0.05 mL

Analytes

CAS

Conc: ug/mL

Energy Laboratories Inc

Standard LOG

Standard ID: ME220110HG
Standard Name: HG Stock
Date Prepared: 1/10/2022
Date Expires: 1/10/2023
Department: ME
Vendor: SCP Science
Lot Number: S210729017
Balance ID:

Type: Primary
BY: Amanda E. McDani
Status: Open

Comments:

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|----------------------------|----------|-----|-------|-----------|
| ICP/ICPMS Standard Mercury | 14711 | 125 | mL | 1/10/2023 |

Final Volume:
125 mL

Stock Source

Base Units

Amount Added

Analytes

CAS

Conc: **ug/mL**

ID #: 14711

Opened: _____

ICP/ICPMS Standard Mercury

Expires: 7/31/2023

Rec'd: 12/29/2021

Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107**SCP SCIENCE**

Providing Innovative Solutions to Analytical Chemists

rtificate of Analysis**Hg****1.0 DESCRIPTION:**

PlasmaCAL ICP/ICPMS Standard - Mercury 1000 µg/ml
 Catalogue Number: 140-051-800/-801/-805
 Starting Material: Mercury(II) oxide 99.99+%
 Lot Number: **S210729017**
 Matrix: 10% HNO₃ (See Section 3 for actual matrix)
 Expiration Date (End of month): **July 2023** (or 15 months after bottle is opened, whichever comes first)

2.0 CERTIFIED VALUES AND ASSOCIATED UNCERTAINTY:

Certified Concentration: **999 µg/ml +/- 5 µg/ml**
952 µg/g +/- 5 µg/g
 Method of analysis: Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES)
 Traceability: NIST Standard Reference Material 3133 Lot: **160921**

Note: The uncertainty of the certified value has been calculated from applicable uncertainty contributors (u_i) including uncertainty established during characterization of the material (u_{char}), the between bottle variation (u_{bb}), short-term stability (u_{sts}) and long-term stability (u_{lts}) according to the model $u_c = \sqrt{(u_{char}^2 + u_{bb}^2 + u_{sts}^2 + u_{lts}^2)}$. This combined uncertainty has been further multiplied by a coverage factor (k) of 2 to provide a 95% confidence interval.

3.0 REFERENCE VALUES:

Density: **1.050 g/ml @ 23.6 °C**
 Actual Matrix: **10.0% (v/v) HNO₃**

Trace Metal Impurities as tested by ICP-MS:

| Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) |
|---------|---------------|---------|---------------|---------|---------------|---------|---------------|
| Ag | <0.0010 | Fe | 0.0322 | Nd | <0.0010 | Sn | <0.0010 |
| Al | 0.0042 | Ga | <0.0010 | Ni | 0.0039 | Sr | <0.0025 |
| As | <0.0010 | Gd | <0.0010 | Os | <0.0010 | Ta | <0.0010 |
| Au | <0.0010 | Ge | <0.0010 | P | <0.0132 | Tb | <0.0010 |
| B | <0.0015 | Hf | <0.0010 | Pb | <0.0010 | Te | <0.0010 |
| Ba | <0.0010 | Hg | N/A | Pd | <0.0010 | Th | <0.0010 |
| Be | <0.0010 | Ho | <0.0010 | Pr | <0.0010 | Ti | <0.0012 |
| Bi | <0.0010 | In | <0.0010 | Pt | <0.0010 | Tl | 0.0117 |
| Ca | <0.0135 | Ir | <0.0010 | Rb | <0.0010 | Tm | <0.0010 |
| Cd | <0.0010 | K | <0.0024 | Re | <0.0010 | U | <0.0010 |
| Ce | <0.0010 | La | <0.0010 | Rh | <0.0010 | V | <0.0010 |
| Co | <0.0010 | Li | <0.0010 | Ru | <0.0010 | W | <0.0020 |
| Cr | 0.0112 | Lu | <0.0010 | S | * | Y | <0.0010 |
| Cs | <0.0010 | Mg | <0.0010 | Sb | <0.0010 | Yb | <0.0010 |
| Cu | 0.0060 | Mn | <0.0010 | Sc | <0.0010 | Zn | <0.0010 |
| Dy | <0.0010 | Mo | <0.0010 | Se | <0.0010 | Zr | <0.0010 |
| Er | <0.0010 | Na | 0.0092 | Si | <0.1 | | |
| Eu | <0.0010 | Nb | <0.0010 | Sm | <0.0010 | | |

*: Not tested

4.0 APPROVAL AND DATE OF CERTIFICATION:

Certification Approval: Daniel Boisvert, Chemist
 Certification Date: August 12, 2021

Daniel Boisvert

5.0 INTENDED USE / UTILISATION PRÉVUE:

- ICP Standards: For the calibration of, including but not limited to: ICP-AES, ICP-MS, FAAS, GFAA, XRF and DCP. / *Étalons ICP*: Pour l'étalonnage d'instruments de mesure tels que: ICP-AES, ICP-MS, FAAS, GFAA, XRF et DCP.
 - AA Standards: For the calibration of Flame (FAAS) and Graphite Furnace (GFAA) Atomic Absorption Spectrometers. / *Étalons AA*: Pour l'étalonnage de spectromètres d'absorption atomique flamme (GFAA) et four au graphite (GFAA).
 - Matrix Modifiers: For the optimization of analytical conditions to provide better Graphite Furnace Atomic Absorption (GFAA) instrument response and improved detection limits. / *Modificateur de matrice*: Pour l'optimisation des conditions analytiques afin de fournir des meilleures réponses instrumentales et limites de détection pour SAA four au graphite.
 - pH Standards: For the calibrating pH meters or for other wet chemistry applications. / *Étalons pH*: Pour étalonnage de pH mètres et autres applications de chimie humide.
 - Conductivity Standards: For electrolytic conductivity measurement as a calibration standard. / *Étalons de conductivité*: Comme étalon pour les mesures de conductivité électrolytiques.
 - IC Standards: for calibration of, but not limited to IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS or other wet chemistry applications. / *Étalons IC*: Pour étalonnage d'instruments tels que: IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS et autres applications de chimie humide.
- For any inquiries, please contact **SCP SCIENCE**. / *Pour toute question, veuillez contacter SCP SCIENCE.*

6.0 INSTRUCTIONS FOR USE / INSTRUCTIONS D'UTILISATION:

Handling and Storage / Manutention et entreposage: Keep product tightly capped when not in use. The solution should be opened for a minimum amount of time necessary to dispense the amount required. Do not pipet or use directly from container. Do not return unused portions back to container. Store under normal laboratory conditions. Avoid exposure to excessive sources of heat and humidity or direct sunlight. / *Garder les contenants bien fermés lorsque non utilisés. Le contenant devrait être ouvert seulement pour le temps requis afin de prélever la quantité nécessaire. Ne pas pipetter ou utiliser directement du contenant. Ne pas retourner les portions non-utilisées dans le contenant. Conserver dans des conditions normales de laboratoire. Éviter l'exposition à des sources de chaleur et d'humidité excessives ou à l'exposition solaire directe.*

Stability / Stabilité: This Standard is guaranteed to be stable and accurate to within the specified uncertainty of measurement up to the unopened expiry date, if sealed, or up to the opened expiry date (when indicated), whichever comes first, provided the solution is kept tightly capped and stored under the indicated storage conditions. Purchasers will be notified of any significant changes resulting in re-certification or withdrawal of the product prior to the expiration date. / *La stabilité et l'exactitude de cet étalon sont garanties d'être à l'intérieur de l'incertitude de mesure, jusqu'à la date d'expiration de la bouteille non-ouverte, si scellée, ou jusqu'à la date d'expiration de la bouteille ouverte (si indiquée), en présumant que le contenant est maintenu fermé et gardé dans les conditions d'entreposage indiquées. Les acheteurs seront avisés dans le cas où il y aura des changements significatifs nécessitant une re-certification ou un rappel du produit avant la date d'expiration.*

7.0 HAZARDOUS INFORMATION / INFORMATION SUR LES RISQUES POTENTIELS:

Please refer to the associated Safety Data Sheet (SDS) for information regarding this product (available at www.SCPSCIENCE.com). / *SVP vous référer à la Fiche Signalétique applicable pour de l'information sur ce produit (Disponible à www.SCPSCIENCE.com).*

8.0 HOMOGENEITY / HOMOGÉNÉITÉ:

This solution has been blended according to an in-house procedure and its homogeneity is guaranteed to be fit for purpose when a sample size sufficient for the intended method of analysis is used. / *Cette solution a été préparée selon une procédure maison et nous assurons que sa homogénéité est approprié à l'emploi lorsqu'un échantillon suffisant pour la méthode d'analyse prévue est utilisé.*

9.0 TRACEABILITY / TRAÇABILITÉ:

This CRM (Certified Reference Material) is traceable to the NIST SRM (Standard Reference Material) indicated in section 2 through an unbroken chain of comparisons. In addition, balances used are regularly calibrated using weights which are traceable to NIST (National Institute of Standards and Technology) or NRC (National Research Council of Canada) standards. All conductivity meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable Thermometer and standards. All pH meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable thermometer and pH/MV simulator. / *Ce matériel de référence certifié est traçable au Matériel de Référence Standardisé de NIST indiqué à la section 2 par une chaîne de comparaison ininterrompue. De plus, les balances utilisées sont étalonnées régulièrement en utilisant des poids qui sont traçables au NIST (National Institute of Standards and Technology) ou au CRNC (Conseil National de Recherches Canada). Tout conductimètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et étalons traçables au NIST ou CNRC. Tout pH mètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et un simulateur pH/MV traçables au NIST ou au CNRC.*

10.0 PREPARATION / PRÉPARATION:

For the preparation of these solutions, 18 megohm/cm double deionized water, high-purity acids and glassware calibrated to ASTM Class A specifications are used. / *Une eau de 18 megohm/cm doublement déionisé, de l'acide de haute pureté, ainsi que de la verrerie étalonnée afin de satisfaire les spécifications Classe A de ASTM ont été utilisés pour la préparation de cet étalon.*

11.0 QUALITY SYSTEM CERTIFICATIONS / CERTIFICATIONS DE SYSTÈME QUALITÉ:

ISO 9001 Certification / Certification ISO 9001: This standard was produced in a facility which operates under a registered ISO 9001 Quality Management System. Please consult our web site for a copy of the most recent revision of our certificate of registration. / *Cet étalon a été fabriqué dans un laboratoire qui utilise un Système de Gestion de la Qualité enregistré à la norme ISO 9001. Veuillez consulter notre site web pour obtenir la version la plus récente de notre certificat d'enregistrement.*

ISO 17025 Accreditation / Accréditation ISO 17025: SCP SCIENCE (Corporate Headquarters) operates an ISO 17025 accredited laboratory. Please consult our web site for a copy of the most recent revision of our certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est accréditée ISO 17025. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

ISO 17034 Accreditation / Accréditation ISO 17034: SCP SCIENCE (Corporate Headquarters) is an ISO 17034 accredited Reference Material Producer. Please consult our website for a copy of our most recent certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est un Fabricant de Matériaux de Référence Accrédité ISO 17034. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

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91140, Villebon-sur-Yvette
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Fax: +33 (0) 1 60 92 05 67

GERMANY
Alte Marktberdorfer Straße 14, 87616
Marktberdorf
Phone: +49 (0) 8342-89560-61
Fax: +49 (0) 8342-89560-69

Energy Laboratories Inc

Standard LOG

Standard ID: ME211229A AU 2ND SOURCE
Standard Name: Au 2nd source Stock
Date Prepared: 12/29/2021
Date Expires: 12/29/2022
Department: ME
Vendor: SCP Science
Lot Number: S211129013
Balance ID:
Comments: opened 12/29/2021; expires 12/29/2022

Type: Primary
BY: Amanda E. McDani
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------|----------|-----|-------|------------|
| ICP/ICPMS Standard Gold | 14710 | 500 | mL | 12/29/2022 |

Final Volume:
500 mL

Stock Source

Base Units

Amount Added

Analytes

CAS

Conc: **ug/mL**

ID #: 14710

Opened:

ICP/ICPMS Standard Gold

Expires: 12/31/2023

Rec'd: 12/29/2021

Eneray Laboratories Inc 1120 So. 27th Street

Billings MT 59107

SCP SCIENCE

Providing Innovative Solutions to Analytical

Certificate of Analysis**Au****1.0 DESCRIPTION:****PlasmaCAL ICP/ICPMS Standard - Gold 1000 µg/ml**

Catalogue Number: 140-052-790/-791/-795

Starting Material: Gold Metal 99.99%+

Lot Number: **S211129013**

Matrix: 10% HCl (See Section 3 for actual matrix)

Expiration Date (End of month): **December 2023** (or 15 months after bottle is opened, whichever comes first)**2.0 CERTIFIED VALUES AND ASSOCIATED UNCERTAINTY:**Certified Concentration: **1001 µg/ml +/- 4 µg/ml****982 µg/g +/- 4 µg/g**

Method of analysis: Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES)

Traceability: NIST Standard Reference Material 3121 Lot: **991806**

Note: The uncertainty of the certified value has been calculated from applicable uncertainty contributors (u_i) including uncertainty established during characterization of the material (u_{char}), the between bottle variation (u_{bb}), short-term stability (u_{sts}) and long-term stability (u_{lts}) according to the model $u_c = \sqrt{(u_{char}^2 + u_{bb}^2 + u_{sts}^2 + u_{lts}^2)}$. This combined uncertainty has been further multiplied by a coverage factor (k) of 2 to provide a 95% confidence interval.

3.0 REFERENCE VALUES:Density: **1.019 g/ml @ 22.4 °C**Actual Matrix: **10.0% (v/v) HCl**

Trace Metal Impurities as tested by ICP-MS:

| Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) |
|---------|---------------|---------|---------------|---------|---------------|---------|-------------|
| Ag | 0.3851 | Fe | <0.0090 | Nd | <0.0010 | Sn | <0.0010 |
| Al | 0.0062 | Ga | <0.0010 | Ni | <0.0010 | Sr | <0.0025 |
| As | <0.0010 | Gd | <0.0010 | Os | <0.0010 | Ta | <0.0010 |
| Au | N/A | Ge | <0.0010 | P | <0.0132 | Tb | <0.0010 |
| B | <0.0015 | Hf | <0.0010 | Pb | <0.0010 | Te | <0.0010 |
| Ba | <0.0010 | Hg | * | Pd | 0.0434 | Th | <0.0010 |
| Be | <0.0010 | Ho | <0.0010 | Pr | <0.0010 | Ti | <0.0012 |
| Bi | <0.0010 | In | <0.0010 | Pt | 0.0048 | Tl | <0.0011 |
| Ca | <0.0135 | Ir | <0.0010 | Rb | <0.0010 | Tm | <0.0010 |
| Cd | <0.0010 | K | 0.0362 | Re | <0.0010 | U | <0.0010 |
| Ce | <0.0010 | La | <0.0010 | Rh | <0.0010 | V | <0.0010 |
| Co | <0.0010 | Li | <0.0010 | Ru | <0.0010 | W | <0.0020 |
| Cr | <0.0010 | Lu | <0.0010 | S | * | Y | <0.0010 |
| Cs | 0.0029 | Mg | <0.0010 | Sb | <0.0010 | Yb | <0.0010 |
| Cu | 0.0023 | Mn | <0.0010 | Sc | <0.0010 | Zn | <0.0010 |
| Dy | <0.0010 | Mo | <0.0010 | Se | <0.01 | Zr | <0.0010 |
| Er | <0.0010 | Na | 0.0070 | Si | <0.1 | | |
| Eu | <0.0010 | Nb | <0.0010 | Sm | <0.0010 | | |

*: Not tested

4.0 APPROVAL AND DATE OF CERTIFICATION:

Certification Approval: Daniel Boisvert, Chemist

Certification Date: December 10, 2021

Daniel Boisvert

5.0 INTENDED USE / UTILISATION PRÉVUE:

- ICP Standards: For the calibration of, including but not limited to: ICP-AES, ICP-MS, FAAS, GFAA, XRF and DCP. / *Étalons ICP* : Pour l'étalonnage d'instruments de mesure tels que: ICP-AES, ICP-MS, FAAS, GFAA, XRF et DCP.
- AA Standards: For the calibration of Flame (FAAS) and Graphite Furnace (GFAA) Atomic Absorption Spectrometers. / *Étalons AA* : Pour l'étalonnage de spectromètres d'absorption atomique flamme (GFAA) et four au graphite (GFAA).
- Matrix Modifiers: For the optimization of analytical conditions to provide better Graphite Furnace Atomic Absorption (GFAA) instrument response and improved detection limits. / *Modificateur de matrice* : Pour l'optimisation des conditions analytiques afin de fournir des meilleures réponses instrumentales et limites de détection pour SAA four au graphite.
- pH Standards: For the calibrating pH meters or for other wet chemistry applications. / *Étalons pH* : Pour étalonnage de pH mètres et autres applications de chimie humide.
- Conductivity Standards: For electrolytic conductivity measurement as a calibration standard. / *Étalons de conductivité* : Comme étalon pour les mesures de conductivité électrolytiques.
- IC Standards: for calibration of, but not limited to IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS or other wet chemistry applications. / *Étalons IC* : Pour étalonnage d'instruments tels que : IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS et autres applications de chimie humide.
For any inquiries, please contact **SCP SCIENCE**. / *Pour toute question, veuillez contacter SCP SCIENCE.*

6.0 INSTRUCTIONS FOR USE / INSTRUCTIONS D'UTILISATION:

Handling and Storage / Manutention et entreposage: Keep product tightly capped when not in use. The solution should be opened for a minimum amount of time necessary to dispense the amount required. Do not pipet or use directly from container. Do not return unused portions back to container. Store under normal laboratory conditions. Avoid exposure to excessive sources of heat and humidity or direct sunlight. / *Garder les contenants bien fermés lorsque non utilisés. Le contenant devrait être ouvert seulement pour le temps requis afin de prélever la quantité nécessaire. Ne pas pipetter ou utiliser directement du contenant. Ne pas retourner les portions non-utilisées dans le contenant. Conserver dans des conditions normales de laboratoire. Éviter l'exposition à des sources de chaleur et d'humidité excessives ou à l'exposition solaire directe.*

Stability / Stabilité: This Standard is guaranteed to be stable and accurate to within the specified uncertainty of measurement up to the unopened expiry date, if sealed, or up to the opened expiry date (when indicated), whichever comes first, provided the solution is kept tightly capped and stored under the indicated storage conditions. Purchasers will be notified of any significant changes resulting in re-certification or withdrawal of the product prior to the expiration date. / *La stabilité et l'exactitude de cet étalon sont garanties d'être à l'intérieur de l'incertitude de mesure, jusqu'à la date d'expiration de la bouteille non-ouverte, si scellée, ou jusqu'à la date d'expiration de la bouteille ouverte (si indiquée), en présumant que le contenant est maintenu fermé et gardé dans les conditions d'entreposage indiquées. Les acheteurs seront avisés dans le cas où il y aura des changements significatifs nécessitant une re-certification ou un rappel du produit avant la date d'expiration.*

7.0 HAZARDOUS INFORMATION / INFORMATION SUR LES RISQUES POTENTIELS:

Please refer to the associated Safety Data Sheet (SDS) for information regarding this product (available at www.SCPSCIENCE.com). / *SVP vous référer à la Fiche Signalétique applicable pour de l'information sur ce produit (Disponible à www.SCPSCIENCE.com).*

8.0 HOMOGENEITY / HOMOGÉNÉITÉ:

This solution has been blended according to an in-house procedure and its homogeneity is guaranteed to be fit for purpose when a sample size sufficient for the intended method of analysis is used. / *Cette solution a été préparée selon une procédure maison et nous assurons que sa homogénéité est approprié à l'emploi lorsqu'un échantillon suffisant pour la méthode d'analyse prévue est utilisé.*

9.0 TRACEABILITY / TRAÇABILITÉ:

This CRM (Certified Reference Material) is traceable to the NIST SRM (Standard Reference Material) indicated in section 2 through an unbroken chain of comparisons. In addition, balances used are regularly calibrated using weights which are traceable to NIST (National Institute of Standards and Technology) or NRC (National Research Council of Canada) standards. All conductivity meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable thermometer and standards. All pH meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable thermometer and pH/MV simulator. / *Ce matériel de référence certifié est traçable au Matériel de Référence Standardisé de NIST indiqué à la section 2 par une chaîne de comparaison ininterrompue. De plus, les balances utilisées sont étalonnées régulièrement en utilisant des poids qui sont traçables au NIST (National Institute of Standards and Technology) ou au CRNC (Conseil National de Recherches Canada). Tout conductimètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et étalons traçables au NIST ou CNRC. Tout pH mètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et un simulateur pH/MV traçables au NIST ou au CNRC.*

10.0 PREPARATION / PRÉPARATION:

For the preparation of these solutions, 18 megohm/cm double deionized water, high-purity acids and glassware calibrated to ASTM Class A specifications are used. / *Une eau de 18 megohm/cm doublement déionisé, de l'acide de haute pureté, ainsi que de la verrerie étalonnée afin de satisfaire les spécifications Classe A de ASTM ont été utilisés pour la préparation de cet étalon.*

11.0 QUALITY SYSTEM CERTIFICATIONS / CERTIFICATIONS DE SYSTÈME QUALITÉ:

ISO 9001 Certification / Certification ISO 9001: This standard was produced in a facility which operates under a registered ISO 9001 Quality Management System. Please consult our web site for a copy of the most recent revision of our certificate of registration. / *Cet étalon a été fabriqué dans un laboratoire qui utilise un Système de Gestion de la Qualité enregistré à la norme ISO 9001. Veuillez consulter notre site web pour obtenir la version la plus récente de notre certificat d'enregistrement.*

ISO 17025 Accreditation / Accréditation ISO 17025: SCP SCIENCE (Corporate Headquarters) operates an ISO 17025 accredited laboratory. Please consult our web site for a copy of the most recent revision of our certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est accréditée ISO 17025. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

ISO 17034 Accreditation / Accréditation ISO 17034: SCP SCIENCE (Corporate Headquarters) is an ISO 17034 accredited Reference Material Producer. Please consult our website for a copy of our most recent certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est un Fabricant de Matériaux de Référence Accrédité ISO 17034. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

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Fax: +33 (0) 1 60 92 05 67

GERMANY
Alte Marktoberdorfer Straße 14, 87616
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Phone: +49 (0) 8342-89560-61
Fax: +49 (0) 8342-89560-69

Energy Laboratories Inc

Standard LOG

Standard ID: ME211208 MSCAL2B
Standard Name: MSCAL 2B
Date Prepared: 12/8/2021
Date Expires: 12/8/2022
Department: ME
Vendor: Inorganic Ventures
Lot Number: S2-MEB704403
Balance ID:
Comments: Opened 12/08/2021; Expires 12/08/2022

Type: Primary
BY: Stacy R. Hendricks
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------------------|----------|-----|-------|-----------|
| Multi Analyte Custom Grade Solution | 13793 | | mL | 12/8/2022 |

Final Volume:
mL

Stock Source

Base Units

Amount Added

Analytes

CAS

Conc: **ug/mL**

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
Catalog Number: EL-MSCAL-2B
Lot Number: S2-MEB704403
Matrix: 5% (v/v) HNO3
Value / Analyte(s):
100 µg/mL ea:
Aluminum, Arsenic,
Boron, Barium,
Beryllium, Cadmium,
Cobalt, Chromium,
Copper, Iron,
Manganese, Nickel,
Lead, Selenium,
Strontium, Thorium,
Thallium, Uranium,
Vanadium, Zinc,
40 µg/mL ea:
Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ID #: 13793

Opened: _____

Multi Analyte Custom Grade Solution

Expires: 4/21/2025

Rec'd: 4/29/2021

Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|--------------|--------------------|---------------|-------------------|
| Aluminum, Al | 100.0 ± 0.4 µg/mL | Arsenic, As | 100.0 ± 0.9 µg/mL |
| Barium, Ba | 100.0 ± 0.5 µg/mL | Beryllium, Be | 100.0 ± 0.7 µg/mL |
| Boron, B | 100.0 ± 0.7 µg/mL | Cadmium, Cd | 100.0 ± 0.5 µg/mL |
| Chromium, Cr | 100.0 ± 0.8 µg/mL | Cobalt, Co | 100.0 ± 0.6 µg/mL |
| Copper, Cu | 100.0 ± 0.5 µg/mL | Iron, Fe | 100.1 ± 0.4 µg/mL |
| Lead, Pb | 100.0 ± 0.6 µg/mL | Manganese, Mn | 100.0 ± 0.5 µg/mL |
| Nickel, Ni | 100.0 ± 0.6 µg/mL | Selenium, Se | 100.0 ± 0.7 µg/mL |
| Silver, Ag | 39.99 ± 0.18 µg/mL | Strontium, Sr | 100.0 ± 0.4 µg/mL |
| Thallium, Tl | 100.0 ± 0.6 µg/mL | Thorium, Th | 100.0 ± 0.5 µg/mL |
| Uranium, U | 100.0 ± 0.5 µg/mL | Vanadium, V | 100.0 ± 0.5 µg/mL |
| Zinc, Zn | 100.0 ± 0.5 µg/mL | | |

Density: 1.033 g/mL (measured at 20 ± 4 °C)

Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---------|-------------|--------------------|--------------|
| Ag | ICP Assay | 3151 | 160729 |
| Ag | Volhard | 999c | 999c |
| Al | ICP Assay | 3101a | 140903 |
| Al | EDTA | 928 | 928 |
| As | ICP Assay | 3103a | 100818 |
| B | ICP Assay | 3107 | 110830 |
| Ba | ICP Assay | 3104a | 140909 |
| Ba | Gravimetric | | See Sec. 4.2 |
| Be | ICP Assay | 3105a | 090514 |
| 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 |
| Mn | ICP Assay | 3132 | 050429 |
| Mn | EDTA | 928 | 928 |
| 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 |
| Sr | EDTA | 928 | 928 |
| Sr | ICP Assay | Traceable to 3153a | K2-SR650985 |
| Sr | Calculated | | See Sec. 4.2 |
| Th | EDTA | 928 | 928 |
| Th | Calculated | | See Sec. 4.2 |
| Tl | ICP Assay | 3158 | 151215 |
| U | ICP Assay | 3164 | 080521 |
| U | 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:

$$X_{CRM/RM} = \sum (w_i) (X_i)$$

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:

$$w_i = (1/u_{char i}^2) / (\sum (1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u^2_{char} + u^2_{bb} + u^2_{Its} + u^2_{ts})^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum ((w_i)^2 (u_{char i})^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope

Uranium 238U

Uranium 235U

Atom %

99.8 ± 0.1

0.24 ± 0.05

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

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u^2_{char a} + u^2_{bb} + u^2_{Its} + u^2_{ts})^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = 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 ($\mu\text{g/mL}$)

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

April 21, 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

- **April 21, 2025**

- 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



Energy Laboratories Inc

Standard LOG

Standard ID: ME211221 MSCAL 3C
Standard Name: MSCAL 3C
Date Prepared: 12/21/2021
Date Expires: 12/21/2022
Department: ME
Vendor: Inorganic Ventures
Lot Number: S2-MEB700780
Balance ID:
Comments: Opened 12/21/21; expires 12/21/22

Type: Primary
BY: Stacy R. Hendricks
Status: Open

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------------------|----------|-----|-------|------------|
| Multi Analyte Custom Grade Solution | 13473 | 250 | mL | 12/21/2022 |

Final Volume:
250 mL

Stock Source

Base Units

Amount Added

Analytes

CAS

Conc: **ug/mL**

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).


2.0 PRODUCT DESCRIPTION

Product Code: Multi Analyte Custom Grade Solution
 Catalog Number: EL-MSCAL-3C
 Lot Number: S2-MEB700780
 Matrix: 3% (v/v) HNO₃
 tr. HF
 Value / Analyte(s): 400 µg/mL ea:
 Silicon,
 100 µg/mL ea:
 Tin,
 Molybdenum,

1-6-2025

ID #: 13473
 Opened: _____
 Multi Analyte Custom Grade Solution
Expires: 1/6/2025
 Rec'd: 1/15/2021
 Energy Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

Titanium,
 Antimony

3.0 CERTIFIED VALUES AND UNCERTAINTIES

| ANALYTE | CERTIFIED VALUE | ANALYTE | CERTIFIED VALUE |
|--------------|-------------------|----------------|-------------------|
| Antimony, Sb | 100.0 ± 0.8 µg/mL | Molybdenum, Mo | 100.0 ± 0.6 µg/mL |
| Silicon, Si | 399.9 ± 3.0 µg/mL | Tin, Sn | 100.0 ± 0.6 µg/mL |
| Titanium, Ti | 100.0 ± 0.7 µg/mL | | |

Density: 1.018 g/mL (measured at 20 ± 4 °C)

Assay Information:

| ANALYTE | METHOD | NIST SRM# | SRM LOT# |
|---------|-----------|-----------|----------|
| Mo | ICP Assay | 3134 | 130418 |
| Sb | ICP Assay | 3102a | 140911 |
| Si | ICP Assay | 3150 | 130912 |
| Sn | ICP Assay | 3161a | 140917 |
| Ti | ICP Assay | 3162a | 130925 |

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{\text{CRM/RM}}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{\text{CRM/RM}} = \sum(w_i)(X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{\text{char } i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$$w_i = (1/u_{\text{char } i})^2 / (\sum(1/u_{\text{char } i})^2)$$

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char}}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char}} = (\sum(w_i)^2 (u_{\text{char } i})^2)^{1/2}$ where $u_{\text{char } i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{\text{CRM/RM}}$, where one method of characterization is used is the mean of individual results:

$$X_{\text{CRM/RM}} = (X_a) / (u_{\text{char } a})$$

X_a = mean of Assay Method A with

$u_{\text{char } a}$ = the standard uncertainty of characterization Method A

$$\text{CRM/RM Expanded Uncertainty } (\pm) = U_{\text{CRM/RM}} = k (u_{\text{char } a}^2 + u_{\text{bb}}^2 + u_{\text{Its}}^2 + u_{\text{ts}}^2)^{1/2}$$

k = coverage factor = 2

$u_{\text{char } a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{Its} = 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 ($\mu\text{g/mL}$)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800 669 6799; 540 585 3030, Fax: 540 585 3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 06, 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

- **January 06, 2025**

- 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



Energy Laboratories Inc

Standard LOG

Standard ID: ME220110 CE, LA PRIMARY
Standard Name: Ce, La Primary Type: Secondary
Date Prepared: 1/10/2022 BY: Amanda E. McDani
Date Expires: 1/6/2023
Department: ME Status: Open
Vendor: Inorganic Ventures
Lot Number: M2-CE657768/M2-
Balance ID:
Comments: Used to make standards and spiking solutions; No primary La available

| Chemical / Solvent Used | BottleNo | Amt | Units | Expires |
|-------------------------------|----------|------|-------|------------|
| Nitric Acid 69.0- 70.0% D0521 | 14626 | 0.5 | mL | 12/14/2026 |
| Milli-Q H2O | 391 | 39.5 | mL | 6/1/2100 |

Final Volume:
50 mL

Stock Source

ME220106-CE Ce Primary Stock

Base Units

ug/mL

Amount Added

5 mL

Analytes

CAS

Conc: ug/mL

Energy Laboratories Inc

Spike LOG

Standard ID: ME220112 7900 INTERNAL STANDARD

Standard Name: Internal Standards 2 mg/L

Type: Secondary

Date Prepared: 1/12/2022

BY: Cindy Rohrer

Date Expires: 2/8/2022

Department: ME

Status: Open

Vendor:

Lot Number:

Balance ID:

Comments:

| Chemical / Solvent Used | BottleNo | Amt | Units | Exp |
|---------------------------------------|----------|-----|-------|---------|
| Hydrochloric Acid E1421 | 14721 | 10 | mL | 1/4/22 |
| Nitric Acid 69.0- 70.0% D0521 | 14626 | 20 | mL | 12/14 |
| Germanium Single Analyte Custom Gr | 13636 | 2 | mL | 12/31 |
| Holmium Single Analyte Custom Grad | 13443 | 2 | mL | 2/12/22 |
| Lutetium Single Analyte Atomic Absorp | 13444 | 2 | mL | 3/1/22 |
| Terbium Single Analyte Atomic Absorp | 13445 | 2 | mL | 2/12/22 |
| Indium Single Analyte Custom Grade | 13654 | 2 | mL | 5/29/22 |
| PlasmaCal Standard Bismuth | 14230 | 2 | mL | 3/31/22 |
| ICP/ICPMS Standard Scandium | 13641 | 2 | mL | 8/31/22 |
| ICP/ICPMS Standard Gold | 14710 | 0.2 | mL | 12/29 |

Final Volume: 1000 mL

Stock Source

Base Units

Amount Added

Analtes

CAS

Conc: **mg/L**

Ge

1.0 DESCRIPTION: **PlasmaCAL ICP/ICPMS Standard - Germanium 1000 µg/ml**
 Catalogue Number: 140-050-320/-321/-325
 Starting Material: Ammonium Hexafluorogermanate(IV) 99.99+%
 Lot Number: **S201204009**
 Matrix: H₂O / tr. F⁻

Expiration Date (End of month): **December 2022** (or 15 months after bottle is opened, whichever comes first)

2.0 CERTIFIED VALUES AND ASSOCIATED UNCERTAINTY:

Certified Concentration: **1002 µg/ml +/- 3 µg/ml**
1002 µg/g +/- 3 µg/g

Method of analysis: Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES)

Traceability: NIST Standard Reference Material 3120a Lot: **151115**

Note: The uncertainty of the certified value has been calculated from applicable uncertainty contributors (u_i) including uncertainty established during characterization of the material (u_{char}), the between bottle variation (u_{bb}), short-term stability (u_{sts}) and long-term stability (u_{lts}) according to the model $u_c = \sqrt{(u_{char}^2 + u_{bb}^2 + u_{sts}^2 + u_{lts}^2)}$. This combined uncertainty has been further multiplied by coverage factor (k) of 2 to provide a 95% confidence interval.

ID #: 13639

Opened: _____

ICP/ICPMS Standard Germanium

Expires: 12/31/2022

Rec'd: 3/16/2021

Energiv Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

3.0 REFERENCE VALUES:

Density: **1.000 g/ml @ 22.7 °C**

Trace Metal Impurities as tested by ICP-MS:

| Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) |
|---------|---------------|---------|-------------|---------|-------------|---------|-------------|
| Ag | <0.0010 | Fe | <0.0018 | Nd | <0.0010 | Sn | <0.0010 |
| Al | <0.0010 | Ga | <0.0010 | Ni | <0.0010 | Sr | <0.0025 |
| As | 0.0097 | Gd | <0.0010 | Os | <0.0010 | Ta | <0.0010 |
| Au | <0.0010 | Ge | N/A | P | <0.0026 | Tb | <0.0010 |
| B | <0.0015 | Hf | <0.0010 | Pb | <0.0010 | Te | <0.0010 |
| Ba | <0.0010 | Hg | * | Pd | <0.0010 | Th | <0.0010 |
| Be | <0.0010 | Ho | <0.0010 | Pr | <0.0010 | Ti | <0.0012 |
| Bi | <0.0010 | In | <0.0010 | Pt | <0.0010 | Tl | <0.0011 |
| Ca | <0.0135 | Ir | <0.0010 | Rb | <0.0010 | Tm | <0.0010 |
| Cd | <0.0010 | K | <0.0024 | Re | <0.0010 | U | <0.0010 |
| Ce | <0.0010 | La | <0.0010 | Rh | <0.0010 | V | <0.0010 |
| Co | <0.0010 | Li | <0.0010 | Ru | <0.0010 | W | <0.0020 |
| Cr | <0.0010 | Lu | <0.0010 | S | * | Y | <0.0010 |
| Cs | <0.0010 | Mg | <0.0010 | Sb | <0.0010 | Yb | <0.0010 |
| Cu | <0.0010 | Mn | <0.0010 | Sc | <0.0010 | Zn | <0.0010 |
| Dy | <0.0010 | Mo | <0.0010 | Se | <0.0010 | Zr | <0.0010 |
| Er | <0.0010 | Na | <0.0025 | Si | * | | |
| Eu | <0.0010 | Nb | <0.0010 | Sm | <0.0010 | | |

*: Not tested

4.0 APPROVAL AND DATE OF CERTIFICATION:

Certification Approval: Daniel Boisvert, Chemist
 Certification Date: December 16, 2020

Daniel Boisvert

5.0 INTENDED USE / UTILISATION PRÉVUE:

- ICP Standards: For the calibration of, including but not limited to: ICP-AES, ICP-MS, FAAS, GFAA, XRF and DCP. / *Étalons ICP : Pour l'étalonnage d'instruments de mesure tels que: ICP-AES, ICP-MS, FAAS, GFAA, XRF et DCP.*
 - AA Standards: For the calibration of Flame (FAAS) and Graphite Furnace (GFAA) Atomic Absorption Spectrometers. / *Étalons AA : Pour l'étalonnage de spectromètres d'absorption atomique flamme (GFAA) et four au graphite (GFAA).*
 - Matrix Modifiers: For the optimization of analytical conditions to provide better Graphite Furnace Atomic Absorption (GFAA) instrument response and improved detection limits. / *Modificateur de matrice : Pour l'optimisation des conditions analytiques afin de fournir des meilleures réponses instrumentales et limites de détection pour SAA four au graphite.*
 - pH Standards: For the calibrating pH meters or for other wet chemistry applications. / *Étalons pH : Pour étalonnage de pH mètres et autres applications de chimie humide.*
 - Conductivity Standards: For electrolytic conductivity measurement as a calibration standard. / *Étalons de conductivité : Comme étalon pour les mesures de conductivité électrolytiques.*
 - IC Standards: for calibration of, but not limited to IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS or other wet chemistry applications. / *Étalons IC : Pour étalonnage d'instruments tels que : IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS et autres applications de chimie humide.*
- For any inquiries, please contact **SCP SCIENCE**. / *Pour toute question, veuillez contacter SCP SCIENCE.*

6.0 INSTRUCTIONS FOR USE / INSTRUCTIONS D'UTILISATION:

Handling and Storage / Manutention et entreposage: Keep product tightly capped when not in use. The solution should be opened for a minimum amount of time necessary to dispense the amount required. Do not pipet or use directly from container. Do not return unused portions back to container. Store under normal laboratory conditions. Avoid exposure to excessive sources of heat and humidity or direct sunlight. / *Garder les contenants bien fermés lorsque non utilisés. Le contenant devrait être ouvert seulement pour le temps requis afin de prélever la quantité nécessaire. Ne pas pipetter ou utiliser directement du contenant. Ne pas retourner les portions non-utilisées dans le contenant. Conserver dans des conditions normales de laboratoire. Éviter l'exposition à des sources de chaleur et d'humidité excessives ou à l'exposition solaire directe.*

Stability / Stabilité: This Standard is guaranteed to be stable and accurate to within the specified uncertainty of measurement up to the unopened expiry date, if sealed, or up to the opened expiry date (when indicated), whichever comes first, provided the solution is kept tightly capped and stored under the indicated storage conditions. Purchasers will be notified of any significant changes resulting in re-certification or withdrawal of the product prior to the expiration date. / *La stabilité et l'exactitude de cet étalon sont garanties d'être à l'intérieur de l'incertitude de mesure, jusqu'à la date d'expiration de la bouteille non-ouverte, si scellée, ou jusqu'à la date d'expiration de la bouteille ouverte (si indiquée), en présumant que le contenant est maintenu fermé et gardé dans les conditions d'entreposage indiquées. Les acheteurs seront avisés dans le cas où il y aura des changements significatifs nécessitant une re-certification ou un rappel du produit avant la date d'expiration.*

7.0 HAZARDOUS INFORMATION / INFORMATION SUR LES RISQUES POTENTIELS:

Please refer to the associated Safety Data Sheet (SDS) for information regarding this product (available at www.SCPSCIENCE.com). / *SVP vous référer à la Fiche Signalétique applicable pour de l'information sur ce produit (Disponible à www.SCPSCIENCE.com).*

8.0 HOMOGENEITY / HOMOGÉNÉITÉ:

This solution has been blended according to an in-house procedure and its homogeneity is guaranteed to be fit for purpose when a sample size sufficient for the intended method of analysis is used. / *Cette solution a été préparée selon une procédure maison et nous assurons que sa homogénéité est appropriée à l'emploi lorsqu'un échantillon suffisant pour la méthode d'analyse prévue est utilisé.*

9.0 TRACEABILITY / TRAÇABILITÉ:

This CRM (Certified Reference Material) is traceable to the NIST SRM (Standard Reference Material) indicated in section 2 through an unbroken chain of comparisons. In addition, balances used are regularly calibrated using weights which are traceable to NIST (National Institute of Standards and Technology) or NRC (National Research Council of Canada) standards. All conductivity meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable Thermometer and standards. All pH meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable thermometer and pH/MV simulator. / *Ce matériel de référence certifié est traçable au Matériel de Référence Standardisé de NIST indiqué à la section 2 par une chaîne de comparaison ininterrompue. De plus, les balances utilisées sont étalonnées régulièrement en utilisant des poids qui sont traçables au NIST (National Institute of Standards and Technology) ou au CRNC (Conseil National de Recherches Canada). Tout conductimètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et étalons traçables au NIST ou CNRC. Tout pH mètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et un simulateur pH/MV traçables au NIST ou au CNRC.*

10.0 PREPARATION / PRÉPARATION:

For the preparation of these solutions, 18 meghom/cm double deionized water, high-purity acids and glassware calibrated to ASTM Class A specifications are used. / *Une eau de 18 meghom/cm doublement déionisé, de l'acide de haute pureté, ainsi que de la verrerie étalonnée afin de satisfaire les spécifications Classe A de ASTM ont été utilisés pour la préparation de cet étalon.*

11.0 QUALITY SYSTEM CERTIFICATIONS / CERTIFICATIONS DE SYSTÈME QUALITÉ:

ISO 9001 Certification / Certification ISO 9001: This standard was produced in a facility which operates under a registered ISO 9001 Quality Management System. Please consult our web site for a copy of the most recent revision of our certificate of registration. / *Cet étalon a été fabriqué dans un laboratoire qui utilise un Système de Gestion de la Qualité enregistré à la norme ISO 9001. Veuillez consulter notre site web pour obtenir la version la plus récente de notre certificat d'enregistrement.*

ISO 17025 Accreditation / Accréditation ISO 17025: SCP SCIENCE (Corporate Headquarters) operates an ISO 17025 accredited laboratory. Please consult our web site for a copy of the most recent revision of our certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est accréditée ISO 17025. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

ISO 17034 Accreditation / Accréditation ISO 17034 : SCP SCIENCE (Corporate Headquarters) is an ISO 17034 accredited Reference Material Producer. Please consult our website for a copy of our most recent certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est un Fabricant de Matériaux de Référence Accrédité ISO 17034. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

CORPORATE HEADQUARTERS
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Baie D'Urfé (Montréal), Quebec,
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Phone: +1 (800) 361-6820
Fax: +1 (800) 253-5549

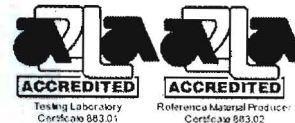
USA
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Alte Marktobderdorfer Straße 14, 87616
Marktobderdorf
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Fax: +49 (0) 8342-89560-69

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Custom Grade Solution
 Catalog Number: CGHO1
 Lot Number: R2-HO691014
 Matrix: 5% (v/v) HNO3
 Value / Analyte(s): 1 000 µg/mL ea:
 Holmium
 Starting Material: Holmium Oxide
 Starting Material Lot#: 1890
 Starting Material Purity: 99.9947%

ID #: 13443
 Opened: _____
 Holmium Single Analyte Custom Grade Solution
Expires: 4/1/2024
 Rec'd: 1/7/2021
 Energy Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 999 ± 3 µg/mL
Density: 1.026 g/mL (measured at 20 ± 4 °C)

Assay Information:

| | |
|------------------------|---|
| Assay Method #1 | 996 ± 6 µg/mL ICP Assay NIST SRM 3123a Lot Number: 090408 |
| Assay Method #2 | 998 ± 3 µg/mL EDTA NIST SRM 928 Lot Number: 928 |
| Assay Method #3 | 1000 ± 3 µg/mL Calculated NIST SRM Lot Number: See Sec. 4.2 |

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum(w_i)(X_i)$$

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:

$$w_i = (1/u_{char i}^2) / (\sum(1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum(w_i)^2 (u_{char i}^2)]^{1/2}$ 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

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

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 < | 0.010000 | M Eu | 0.000377 | M Na < | 0.036000 | M Se < | 0.004400 | M Zn < | 0.071000 |
| M Al < | 0.020000 | M Fe | 0.002965 | M Nb < | 0.001200 | i Si < | | M Zr < | 0.000400 |
| M As < | 0.011000 | M Ga < | 0.001600 | M Nd | 0.000183 | M Sm | 0.000700 | | |
| M Au < | 0.006400 | M Gd | 0.000404 | M Ni < | 0.004800 | M Sn < | 0.002400 | | |
| M B < | 0.091000 | M Ge < | 0.004000 | M Os < | 0.000400 | M Sr < | 0.002400 | | |
| M Ba < | 0.002400 | M Hf < | 0.003200 | i P < | | i Ta < | | | |
| M Be < | 0.003200 | M Hg < | 0.005600 | M Pb < | 0.057000 | M Tb | 0.000431 | | |
| M Bi < | 0.005600 | s Ho < | | M Pd < | 0.004400 | M Te < | 0.008000 | | |
| M Ca < | 0.028000 | M In < | 0.001600 | M Pr | 0.000204 | M Th < | 0.001200 | | |
| M Cd < | 0.000800 | M Ir < | 0.001600 | M Pt < | 0.000400 | M Ti < | 0.000800 | | |
| M Ce < | 0.004800 | O K | 0.002965 | M Rb < | 0.002400 | M Tl < | 0.001600 | | |
| M Co < | 0.001600 | M La | 0.000350 | M Re < | 0.000400 | M Tm | 0.000323 | | |
| M Cr < | 0.005600 | O Li < | 0.001200 | M Rh < | 0.001600 | M U < | 0.000400 | | |
| M Cs | 0.000485 | M Lu | 0.037737 | M Ru < | 0.000400 | M V < | 0.029000 | | |
| M Cu < | 0.005600 | O Mg < | 0.003300 | n S < | | M W < | 0.011000 | | |
| M Dy | 0.009434 | M Mn < | 0.001200 | M Sb < | 0.002000 | M Y | 0.003504 | | |
| M Er | 0.001671 | M Mo < | 0.011000 | M Sc < | 0.001200 | M Yb | 0.006199 | | |

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 - 164.93 +3 6 to 9 or 10 for some compounds $\text{Ho}(\text{OH})_x(\text{H}_2\text{O})_{y+3-x}$

Chemical Compatibility - Soluble in HCl, H₂SO₄ and HNO₃. Avoid HF, H₃PO₄ and neutral to basic media. Stable with most metals and inorganic anions forming an insoluble carbonate, oxide, oxalate, and fluoride. Avoid mixing with elements / solutions containing moderate amounts of fluoride.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO₃ / LDPE container.

Ho Containing Samples (Preparation and Solution) - Meta I (Soluble in acids); Oxide (Dissolved by heating in H₂O / HNO₃); Ores (Carbonate fusion in PtO followed by HCl dissolution); Organic Matrices (Dry ash and dissolve in 1:1 H₂O / HCl or HNO₃).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|--------------------|----------------------|-------|---|
| ICP-MS 165 amu | 1 ppt | n/a | 149 Sm 16O |
| ICP-OES 339.898 nm | 0.02 / 0.002 µg/mL | 1 | Ce, Re |
| ICP-OES 345.600 nm | 0.006 / 0.0001 µg/mL | 1 | U, Ti |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 01, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 01, 2024**

- 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

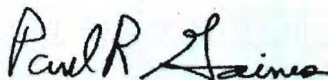
Certificate Approved By:

Michael Booth
Manager, Quality Control



Certifying Officer:

Paul Gaines
CEO, Senior Technical Director



1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Atomic Absorption Solution
Catalog Number: AALU1
Lot Number: R2-LU689867RAA
Matrix: 2% (v/v) HNO₃
Value / Analyte(s): 1 000 µg/mL ea:
Lutetium

ID #: 13444

Opened: _____

Lutetium Single Analyte Custom Grade Solution

Expires: 3/1/2024

Rec'd: 1/7/2021

Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107**3.0 CERTIFIED VALUES AND UNCERTAINTIES**

Certified Value: 1000 ± 10 µg/mL
Density: 1.011 g/mL (measured at 20 ± 4 °C)

4.0 TRACEABILITY TO NIST

The concentration of this solution standard has been verified by Inductively Coupled Plasma Spectroscopy (ICP) and is traceable to NIST SRM 3130a.

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

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 174.97 +3 6 to 9 or 10 for some compounds $\text{Lu}(\text{OH})_x(\text{H}_2\text{O})_{y+3-x}$

Chemical Compatibility -Soluble in HCl, H₂SO₄ and HNO₃. Avoid HF, H₃PO₄ and neutral to basic media. Stable with most metals and inorganic anions forming an insoluble carbonate, oxide, oxalate, and fluoride. Avoid mixing with elements / solutions containing moderate amounts of fluoride.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO₃ / LDPE container.

Lu Containing Samples (Preparation and Solution) -Metal (Soluble in acids); Oxide (Dissolved by heating in H₂O/ HNO₃); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Dry ash and dissolve in 1:1 H₂O / HCl or HNO₃).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|--------------------|----------------------|-------|---|
| ICP-MS 175 amu | 1 ppt | n/a | 159 Tb16O |
| ICP-OES 261.542 nm | 0.001 / 0.0003 µg/mL | 1 | Th, Mo, V, W |
| ICP-OES 291.139 nm | 0.006 / 0.0006 µg/mL | 1 | Cr, 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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 01, 2020

- 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 01, 2024**

- 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

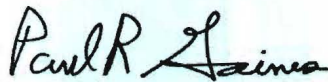
Certificate Approved By:

Michael Booth
Manager, Quality Control



Certifying Officer:

Paul Gaines
CEO, Senior Technical Director



1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Atomic Absorption Solution
Catalog Number: AATB1
Lot Number: R2-TB695079AA
Matrix: 5% (v/v) HNO₃
Value / Analyte(s): 1 000 µg/mL ea:
Terbium

ID #: 13445
Opened:
Terbium Single Analyte Atomic Absorption So
Expires: 8/19/2024
Rec'd: 1/7/2021
Enerav Laboratories Inc 1120 So. 27th Street
Billings MT 59107

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1000 ± 10 µg/mL
Density: 1.026 g/mL (measured at 20 ± 4 °C)

4.0 TRACEABILITY TO NIST

The concentration of this solution standard has been verified by Inductively Coupled Plasma Spectroscopy (ICP) and is traceable to NIST SRM 3157a.

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

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 158.93 +3 6 to 9 or 10 for some compounds $Tb(OH)_x(H_2O)_y+3-x$

Chemical Compatibility - Soluble in HCl, H₂SO₄ and HNO₃. Avoid HF, H₃PO₄ and neutral to basic media. Stable with most metals and inorganic anions forming an insoluble carbonate, oxide, oxalate, and fluoride. Avoid mixing with elements / solutions containing moderate amounts of fluoride.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2 - 5% HNO₃ / LDPE container.

Tb Containing Samples (Preparation and Solution) - Metal (Soluble in acids); Oxide (Dissolve by heating in H₂O / HNO₃); Ores (Carbonate fusion in PtO followed by HCl dissolution); Organic Matrices (dry ash and dissolve in 1:1 H₂O / HCl or HNO₃).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| <u>Technique/Line</u> | <u>Estimated D.L.</u> | <u>Order</u> | <u>Interferences (underlined indicates severe)</u> |
|-----------------------|-----------------------|--------------|--|
| ICP-MS 159 amu | 1 ppt | N/A | |
| ICP-OES 350.917 nm | 0.02 / 0.002 µg/mL | 1 | V, Th, Ce, Zr |
| ICP-OES 367.635 nm | 0.06 / 0.006 µg/mL | 1 | Ta, Ce, Co, 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

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 19, 2020

- The certification is valid within the measurement uncertainty specified provided the CRMWRM 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 CRMWRM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 19, 2024**

- The date after which this CRMWRM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRMWRM can be supported by long term stability studies conducted on properly stored and handled CRMWRMs. 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 CRMWRM 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 CRMWRM 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



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:

$$X_{CRM/RM} = \sum(w_i) (X_i)$$

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:
 $w_i = (1/u_{char i})^2 / (\sum(1/(u_{char j})^2))$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$$

k = coverage factor = 2
 $u_{char} = (\sum(w_i)^2 (u_{char i})^2)^{1/2}$ 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

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u^2_{char a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$$

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 SRMRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMRM 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 < 0.000670 | M Eu < 0.000670 | O Na < 0.000371 | M Se < 0.007300 | M Zn < 0.035000 |
| O Al < 0.016000 | O Fe < 0.000106 | M Nb < 0.000670 | O Si < 0.001486 | M Zr < 0.000670 |
| M As < 0.005400 | M Ga < 0.000670 | M Nd < 0.000670 | M Sm < 0.000670 | |
| M Au < 0.000670 | M Gd < 0.000670 | O Ni < 0.015000 | M Sn < 0.001400 | |
| O B < 0.000265 | M Ge < 0.003400 | M Os < 0.002000 | O Sr < 0.000240 | |
| O Ba < 0.001200 | M Hf < 0.000670 | n P < | M Ta < 0.000670 | |
| M Be < 0.000670 | M Hg < 0.002000 | M Pb < 0.000177 | M Tb < 0.000670 | |
| M Bi < 0.001400 | M Ho < 0.000670 | M Pd < 0.000670 | M Te < 0.014000 | |
| O Ca < 0.000548 | s In < | M Pr < 0.000670 | M Th < 0.000670 | |
| M Cd < 0.000670 | M Ir < 0.000670 | M Pt < 0.000670 | O Tl < 0.002100 | |
| M Ce < 0.000670 | O K < 0.000247 | M Rb < 0.000670 | M Tl < 0.000670 | |
| M Co < 0.001400 | M La < 0.000670 | M Re < 0.000670 | M Tm < 0.000670 | |
| O Cr < 0.002900 | O Li < 0.000120 | M Rh < 0.000670 | M U < 0.000670 | |
| M Cs < 0.001400 | M Lu < 0.000670 | M Ru < 0.000670 | M V < 0.000670 | |
| O Cu < 0.002400 | O Mg < 0.000026 | n S < | M W < 0.000670 | |
| M Dy < 0.000670 | O Mn < 0.000720 | M Sb < 0.002700 | M Y < 0.000670 | |
| M Er < 0.000670 | M Mo < 0.001400 | O Sc < 0.000600 | M Yb < 0.000670 | |

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 - 114.82 +3 6 In(H₂O)₆+3

Chemical Compatibility -Soluble in HCl, HNO₃, and H₂SO₄. Avoid neutral and basic media. Stable with most metals and inorganic anions. The oxalate, sulfide, carbonate, hydroxide and phosphate are insoluble in water.

Stability - 2-100 ppb levels stable for months in 1% HNO₃ / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO₃ / LDPE container.

In Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO₃); Oxide (Soluble in mineral acids); Ores (Carbonate fusion in PtO followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

| Technique/Line | Estimated D.L. | Order | Interferences (underlined indicates severe) |
|--------------------|--------------------|-------|---|
| ICP-MS 115 amu | 1 ppt | n/a | 115Sn, 99Ru16O |
| ICP-OES 158.583 nm | 0.05 / 0.002 µg/mL | 1 | |
| ICP-OES 230.606 nm | 0.1 / 0.03 µg/mL | 1 | Ni, Os |
| ICP-OES 325.609 nm | 0.2 / 0.05 µg/mL | 1 | Mn, Mo, Th |

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 29, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 29, 2024**

- 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
Manager, Quality Control



Certifying Officer:

Paul Gaines
CEO, Senior Technical Director



Bi

1.0 DESCRIPTION: *PlasmaCAL ICP/ICPMS Standard - Bismuth 1000 µg/ml*
 Catalogue Number: 140-051-830/-831/-835
 Starting Material: Bismuth Metal 99.99+%
 Lot Number: **S210302013**
 Matrix: 4% HNO₃ (See Section 3 for actual matrix)
 Expiration Date (End of month): **March 2023** (or 15 months after bottle is opened, whichever comes first)

2.0 CERTIFIED VALUES AND ASSOCIATED UNCERTAINTY:
 Certified Concentration: **1002 µg/ml +/- 4 µg/ml**
982 µg/g +/- 4 µg/g
 Method of analysis: Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES)
 Traceability: NIST Standard Reference Material 3106 Lot: **180815**

Note: The uncertainty of the certified value has been calculated from applicable uncertainty contributors (u_i) including uncertainty established during characterization of the material (u_{char}), the between bottle variation (u_{bb}), short-term stability (u_{sts}) and long-term stability (u_{lts}) according to the model $u_c = \sqrt{(u_{char}^2 + u_{bb}^2 + u_{sts}^2 + u_{lts}^2)}$. This combined uncertainty has been further multiplied by a coverage factor (k) of 2 to provide a 95% confidence interval.

3.0 REFERENCE VALUES:
 Density: **1.020 g/ml @ 23.4 °C**
 Actual Matrix: **4.0% (v/v) HNO₃**

ID #: 14230
 Opened: _____
 PlasmaCal Standard Bismuth
Expires: 3/31/2023
 Rec'd: 9/1/2021
 Enerav Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

Trace Metal Impurities as tested by ICP-MS:

| Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) |
|---------|---------------|---------|-------------|---------|-------------|---------|-------------|
| Ag | <0.0010 | Fe | <0.0090 | Nd | <0.0010 | Sn | <0.0010 |
| Al | 0.0042 | Ga | <0.0010 | Ni | <0.0010 | Sr | <0.0025 |
| As | <0.0010 | Gd | <0.0010 | Os | <0.0010 | Ta | <0.0010 |
| Au | <0.0010 | Ge | <0.0010 | P | <0.0026 | Tb | <0.0010 |
| B | <0.0015 | Hf | <0.0010 | Pb | <0.0010 | Te | <0.0010 |
| Ba | <0.0010 | Hg | * | Pd | <0.0010 | Th | <0.0010 |
| Be | <0.0010 | Ho | <0.0010 | Pr | <0.0010 | Ti | <0.0012 |
| Bi | N/A | In | <0.0010 | Pt | <0.0010 | Tl | <0.0055 |
| Ca | <0.0135 | Ir | <0.0010 | Rb | <0.0010 | Tm | <0.0010 |
| Cd | <0.0010 | K | <0.0120 | Re | <0.0010 | U | <0.0010 |
| Ce | <0.0010 | La | <0.0010 | Rh | <0.0010 | V | <0.0010 |
| Co | <0.0010 | Li | <0.0010 | Ru | <0.0010 | W | <0.0020 |
| Cr | <0.0010 | Lu | <0.0010 | S | * | Y | <0.0010 |
| Cs | <0.0010 | Mg | <0.0010 | Sb | <0.0010 | Yb | <0.0010 |
| Cu | <0.0010 | Mn | <0.0010 | Sc | <0.0010 | Zn | <0.0010 |
| Dy | <0.0010 | Mo | <0.0010 | Se | <0.0010 | Zr | <0.0010 |
| Er | <0.0010 | Na | <0.0010 | Si | <0.1 | | |
| Eu | <0.0010 | Nb | <0.0010 | Sm | <0.0010 | | |

*: Not tested

4.0 APPROVAL AND DATE OF CERTIFICATION:
 Certification Approval: Daniel Boisvert, Chemist
 Certification Date: March 04, 2021

Daniel Boisvert

5.0 INTENDED USE / UTILISATION PRÉVUE:

- ICP Standards: For the calibration of, including but not limited to: ICP-AES, ICP-MS, FAAS, GFAA, XRF and DCP. / *Étalons ICP : Pour l'étalonnage d'instruments de mesure tels que: ICP-AES, ICP-MS, FAAS, GFAA, XRF et DCP.*
 - AA Standards: For the calibration of Flame (FAAS) and Graphite Furnace (GFAA) Atomic Absorption Spectrometers. / *Étalons AA : Pour l'étalonnage de spectromètres d'absorption atomique flamme (FAAS) et four au graphite (GFAA).*
 - Matrix Modifiers: For the optimization of analytical conditions to provide better Graphite Furnace Atomic Absorption (GFAA) instrument response and improved detection limits. / *Modificateur de matrice : Pour l'optimisation des conditions analytiques afin de fournir des meilleures réponses instrumentales et limites de détection pour SAA four au graphite.*
 - pH Standards: For the calibrating pH meters or for other wet chemistry applications. / *Étalons pH : Pour étalonnage de pH mètres et autres applications de chimie humide.*
 - Conductivity Standards: For electrolytic conductivity measurement as a calibration standard. / *Étalons de conductivité : Comme étalon pour les mesures de conductivité électrolytiques.*
 - IC Standards: for calibration of, but not limited to IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS or other wet chemistry applications. / *Étalons IC : Pour étalonnage d'instruments tels que : IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS et autres applications de chimie humide.*
- For any inquiries, please contact **SCP SCIENCE**. / *Pour toute question, veuillez contacter SCP SCIENCE.*

6.0 INSTRUCTIONS FOR USE / INSTRUCTIONS D'UTILISATION:

Handling and Storage / Manutention et entreposage: Keep product tightly capped when not in use. The solution should be opened for a minimum amount of time necessary to dispense the amount required. Do not pipet or use directly from container. Do not return unused portions back to container. Store under normal laboratory conditions. Avoid exposure to excessive sources of heat and humidity or direct sunlight. / *Garder les contenants bien fermés lorsque non utilisés. Le contenant devrait être ouvert seulement pour le temps requis afin de prélever la quantité nécessaire. Ne pas pipetter ou utiliser directement du contenant. Ne pas retourner les portions non-utilisées dans le contenant. Conserver dans des conditions normales de laboratoire. Éviter l'exposition à des sources de chaleur et d'humidité excessives ou à l'exposition solaire directe.*

Stability / Stabilité: This Standard is guaranteed to be stable and accurate to within the specified uncertainty of measurement up to the unopened expiry date, if sealed, or up to the opened expiry date (when indicated), whichever comes first, provided the solution is kept tightly capped and stored under the indicated storage conditions. Purchasers will be notified of any significant changes resulting in re-certification or withdrawal of the product prior to the expiration date. / *La stabilité et l'exactitude de cet étalon sont garanties d'être à l'intérieur de l'incertitude de mesure, jusqu'à la date d'expiration de la bouteille non-ouverte, si scellée, ou jusqu'à la date d'expiration de la bouteille ouverte (si indiquée), en présupposant que le contenant est maintenu fermé et gardé dans les conditions d'entreposage indiquées. Les acheteurs seront avisés dans le cas où il y aura des changements significatifs nécessitant une re-certification ou un rappel du produit avant la date d'expiration.*

7.0 HAZARDOUS INFORMATION / INFORMATION SUR LES RISQUES POTENTIELS:

Please refer to the associated Safety Data Sheet (SDS) for information regarding this product (available at www.SCPSCIENCE.com). / *SVP vous référer à la Fiche Signalétique applicable pour de l'information sur ce produit (Disponible à www.SCPSCIENCE.com).*

8.0 HOMOGENEITY / HOMOGÉNÉITÉ:

This solution has been blended according to an in-house procedure and its homogeneity is guaranteed to be fit for purpose when a sample size sufficient for the intended method of analysis is used. / *Cette solution a été préparée selon une procédure maison et nous assurons que sa homogénéité est approprié à l'emploi lorsqu'un échantillon suffisant pour la méthode d'analyse prévue est utilisé.*

9.0 TRACEABILITY / TRAÇABILITÉ:

This CRM (Certified Reference Material) is traceable to the NIST SRM (Standard Reference Material) indicated in section 2 through an unbroken chain of comparisons. In addition, balances used are regularly calibrated using weights which are traceable to NIST (National Institute of Standards and Technology) or NRC (National Research Council of Canada) standards. All conductivity meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable Thermometer and standards. All pH meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable thermometer and pH/MV simulator. / *Ce matériel de référence certifié est traçable au Matériel de Référence Standardisé de NIST indiqué à la section 2 par une chaîne de comparaison ininterrompue. De plus, les balances utilisées sont étalonnées régulièrement en utilisant des poids qui sont traçables au NIST (National Institute of Standards and Technology) ou au CRNC (Conseil National de Recherches Canada). Tout conductimètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et étalons traçables au NIST ou CNRC. Tout pH mètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et un simulateur pH/MV traçables au NIST ou au CNRC.*

10.0 PREPARATION / PRÉPARATION:

For the preparation of these solutions, 18 megohm/cm double deionized water, high-purity acids and glassware calibrated to ASTM Class A specifications are used. / *Une eau de 18 megohm/cm doublement déionisé, de l'acide de haute pureté, ainsi que de la verrerie étalonnée afin de satisfaire les spécifications Classe A de ASTM ont été utilisés pour la préparation de cet étalon.*

11.0 QUALITY SYSTEM CERTIFICATIONS / CERTIFICATIONS DE SYSTÈME QUALITÉ:

ISO 9001 Certification / Certification ISO 9001: This standard was produced in a facility which operates under a registered ISO 9001 Quality Management System. Please consult our web site for a copy of the most recent revision of our certificate of registration. / *Cet étalon a été fabriqué dans un laboratoire qui utilise un Système de Gestion de la Qualité enregistré à la norme ISO 9001. Veuillez consulter notre site web pour obtenir la version la plus récente de notre certificat d'enregistrement.*

ISO 17025 Accreditation / Accréditation ISO 17025: SCP SCIENCE (Corporate Headquarters) operates an ISO 17025 accredited laboratory. Please consult our web site for a copy of the most recent revision of our certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est accréditée ISO 17025. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

ISO 17034 Accreditation / Accréditation ISO 17034: SCP SCIENCE (Corporate Headquarters) is an ISO 17034 accredited Reference Material Producer. Please consult our website for a copy of our most recent certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est un Fabricant de Matériaux de Référence Accrédité ISO 17034. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

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H9X 4B6 Canada
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Fax: +1 (800) 253-5549

USA
3rd Party Distribution Center
348 Route 11, Champlain,
N.Y. 12919-4816
Phone: +1 (800) 361-6820
Fax: +1 (800) 253-5549

FRANCE
12 Ave. de Québec, Bat. IRIS
91140, Villebon-sur-Yvette
Phone: +33 (0) 1 69 18 71 17
Fax: +33 (0) 1 60 92 05 67

GERMANY
Alte Marktoberdorfer Straße 14, 87616
Marktoberdorf
Phone: +49 (0) 8342-89560-61
Fax: +49 (0) 8342-89560-69

Sc

1.0 DESCRIPTION: **PlasmaCAL ICP/ICPMS Standard - Scandium 1000 µg/ml**
 Catalogue Number: 140-051-210/-211/-215
 Starting Material: Scandium(III) Oxide 99.99+%
 Lot Number: **S200813011**
 Matrix: 4% HNO₃ (See Section 3 for actual matrix)
 Expiration Date (End of month): **August 2022** (or 15 months after bottle is opened, whichever comes first)

2.0 CERTIFIED VALUES AND ASSOCIATED UNCERTAINTY:
 Certified Concentration: **999 µg/ml +/- 5 µg/ml**
978 µg/g +/- 5 µg/g
 Method of analysis: Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES)
 Traceability: NIST Standard Reference Material 3148a Lot: **100701**

Note: The uncertainty of the certified value has been calculated from applicable uncertainty contributors (u_i) including uncertainty established during characterization of the material (u_{char}), the between bottle variation (u_{bb}), short-term stability (u_{sts}) and long-term stability (u_{lts}) according to the model $u_c = \sqrt{(u_{char}^2 + u_{bb}^2 + u_{sts}^2 + u_{lts}^2)}$. This combined uncertainty has been further multiplied by a coverage factor (k) of 2 to provide a 95% confidence interval.

3.0 REFERENCE VALUES:
 Density: **1.022 g/ml @ 22.5 °C**
 Actual Matrix: **4.0% (v/v) HNO₃**

ID #: 13641

Opened: _____

ICP/ICPMS Standard Scandium

Expires: 8/31/2022

Rec'd: 3/16/2021

Energv Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

Trace Metal Impurities as tested by ICP-AES:

| Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) |
|---------|---------------|---------|-------------|---------|-------------|---------|---------------|
| Ag | <0.0244 | Fe | <0.0102 | Nd | <0.0319 | Sn | <0.1535 |
| Al | <0.0280 | Ga | <0.0260 | Ni | <0.0139 | Sr | <0.0004 |
| As | <0.0105 | Gd | <0.0137 | Os | * | Ta | <0.0635 |
| Au | <0.0085 | Ge | <0.0548 | P | <0.0104 | Tb | <0.0146 |
| B | <0.0507 | Hf | <0.0339 | Pb | <0.0492 | Te | <0.4025 |
| Ba | <0.0005 | Hg | * | Pd | <0.0282 | Th | <0.0471 |
| Be | <0.0022 | Ho | <0.0065 | Pr | <0.1370 | Ti | <0.0013 |
| Bi | <0.0156 | In | <0.0105 | Pt | <0.2665 | Tl | <0.5600 |
| Ca | 0.0742 | Ir | <0.0243 | Rb | * | Tm | <0.0105 |
| Cd | <0.0048 | K | <0.0128 | Re | <0.0076 | U | <0.2490 |
| Ce | <0.0393 | La | <0.0173 | Rh | <0.0163 | V | <0.0049 |
| Co | <0.0224 | Li | <0.0028 | Ru | <0.0304 | W | <0.0443 |
| Cr | <0.0063 | Lu | <0.0021 | S | <0.0515 | Y | <0.0033 |
| Cs | * | Mg | <0.0009 | Sb | <0.0197 | Yb | <0.0057 |
| Cu | <0.0200 | Mn | <0.0089 | Sc | N/A | Zn | <0.0045 |
| Dy | <0.0214 | Mo | <0.0229 | Se | <0.1245 | Zr | 0.1015 |
| Er | <0.0349 | Na | <0.0191 | Si | <0.0091 | | |
| Eu | <0.0017 | Nb | <0.0112 | Sm | <0.1105 | | |

*: Not tested

4.0 APPROVAL AND DATE OF CERTIFICATION:
 Certification Approval: Daniel Boisvert, Chemist
 Certification Date: August 20, 2020

Daniel Boisvert

5.0 INTENDED USE / UTILISATION PRÉVUE:

- ICP Standards: For the calibration of, including but not limited to: ICP-AES, ICP-MS, FAAS, GFAA, XRF and DCP. / *Étalons ICP : Pour l'étalonnage d'instruments de mesure tels que: ICP-AES, ICP-MS, FAAS, GFAA, XRF et DCP.*
 - AA Standards: For the calibration of Flame (FAAS) and Graphite Furnace (GFAA) Atomic Absorption Spectrometers. / *Étalons AA : Pour l'étalonnage de spectromètres d'absorption atomique flamme (FAAS) et four au graphite (GFAA).*
 - Matrix Modifiers: For the optimization of analytical conditions to provide better Graphite Furnace Atomic Absorption (GFAA) instrument response and improved detection limits. / *Modificateur de matrice : Pour l'optimisation des conditions analytiques afin de fournir des meilleures réponses instrumentales et limites de détection pour SAA four au graphite.*
 - pH Standards: For the calibrating pH meters or for other wet chemistry applications. / *Étalons pH : Pour étalonnage de pH mètres et autres applications de chimie humide.*
 - Conductivity Standards: For electrolytic conductivity measurement as a calibration standard. / *Étalons de conductivité : Comme étalon pour les mesures de conductivité électrolytiques.*
 - IC Standards: for calibration of, but not limited to IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS or other wet chemistry applications. / *Étalons IC : Pour étalonnage d'instruments tels que : IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS et autres applications de chimie humide.*
- For any inquiries, please contact **SCP SCIENCE**. / *Pour toute question, veuillez contacter SCP SCIENCE.*

6.0 INSTRUCTIONS FOR USE / INSTRUCTIONS D'UTILISATION:

Handling and Storage / Manutention et entreposage: Keep product tightly capped when not in use. The solution should be opened for a minimum amount of time necessary to dispense the amount required. Do not pipet or use directly from container. Do not return unused portions back to container. Store under normal laboratory conditions. Avoid exposure to excessive sources of heat and humidity or direct sunlight. / *Garder les contenants bien fermés lorsque non utilisés. Le contenant devrait être ouvert seulement pour le temps requis afin de prélever la quantité nécessaire. Ne pas pipetter ou utiliser directement du contenant. Ne pas retourner les portions non-utilisées dans le contenant. Conserver dans des conditions normales de laboratoire. Éviter l'exposition à des sources de chaleur et d'humidité excessives ou à l'exposition solaire directe.*

Stability / Stabilité: This Standard is guaranteed to be stable and accurate to within the specified uncertainty of measurement up to the unopened expiry date, if sealed, or up to the opened expiry date (when indicated), whichever comes first, provided the solution is kept tightly capped and stored under the indicated storage conditions. Purchasers will be notified of any significant changes resulting in re-certification or withdrawal of the product prior to the expiration date. / *La stabilité et l'exactitude de cet étalon sont garanties d'être à l'intérieur de l'incertitude de mesure, jusqu'à la date d'expiration de la bouteille non-ouverte, si scellée, ou jusqu'à la date d'expiration de la bouteille ouverte (si indiquée), en présumant que le contenant est maintenu fermé et gardé dans les conditions d'entreposage indiquées. Les acheteurs seront avisés dans le cas où il y aura des changements significatifs nécessitant une re-certification ou un rappel du produit avant la date d'expiration.*

7.0 HAZARDOUS INFORMATION / INFORMATION SUR LES RISQUES POTENTIELS:

Please refer to the associated Safety Data Sheet (SDS) for information regarding this product (available at www.SCPSCIENCE.com). / *SVP vous référer à la Fiche Signalétique applicable pour de l'information sur ce produit (Disponible à www.SCPSCIENCE.com).*

8.0 HOMOGENEITY / HOMOGÉNÉITÉ:

This solution has been blended according to an in-house procedure and its homogeneity is guaranteed to be fit for purpose when a sample size sufficient for the intended method of analysis is used. / *Cette solution a été préparée selon une procédure maison et nous assurons que sa homogénéité est approprié à l'emploi lorsqu'un échantillon suffisant pour la méthode d'analyse prévue est utilisé.*

9.0 TRACEABILITY / TRAÇABILITÉ:

This CRM (Certified Reference Material) is traceable to the NIST SRM (Standard Reference Material) indicated in section 2 through an unbroken chain of comparisons. In addition, balances used are regularly calibrated using weights which are traceable to NIST (National Institute of Standards and Technology) or NRC (National Research Council of Canada) standards. All conductivity meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable Thermometer and standards. All pH meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable thermometer and pH/MV simulator. / *Ce matériel de référence certifié est traçable au Matériel de Référence Standardisé de NIST indiqué à la section 2 par une chaîne de comparaison ininterrompue. De plus, les balances utilisées sont étalonnées régulièrement en utilisant des poids qui sont traçables au NIST (National Institute of Standards and Technology) ou au CRNC (Conseil National de Recherches Canada). Tout conductimètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et étalons traçables au NIST ou CNRC. Tout pH mètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et un simulateur pH/MV traçables au NIST ou au CNRC.*

10.0 PREPARATION / PRÉPARATION:

For the preparation of these solutions, 18 meghom/cm double deionized water, high-purity acids and glassware calibrated to ASTM Class A specifications are used. / *Une eau de 18 meghom/cm doublement déionisé, de l'acide de haute pureté, ainsi que de la verrerie étalonnée afin de satisfaire les spécifications Classe A de ASTM ont été utilisés pour la préparation de cet étalon.*

11.0 QUALITY SYSTEM CERTIFICATIONS / CERTIFICATIONS DE SYSTÈME QUALITÉ:

ISO 9001 Certification / Certification ISO 9001: This standard was produced in a facility which operates under a registered ISO 9001 Quality Management System. Please consult our web site for a copy of the most recent revision of our certificate of registration. / *Cet étalon a été fabriqué dans un laboratoire qui utilise un Système de Gestion de la Qualité enregistré à la norme ISO 9001. Veuillez consulter notre site web pour obtenir la version la plus récente de notre certificat d'enregistrement.*

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ISO 17034 Accreditation / Accréditation ISO 17034: SCP SCIENCE (Corporate Headquarters) is an ISO 17034 accredited Reference Material Producer. Please consult our website for a copy of our most recent certificate and scope of accreditation. / *SCP SCIENCE (Siège social) est un Fabricant de Matériaux de Référence Accrédité ISO 17034. Veuillez consulter notre site web afin d'obtenir la plus récente version de notre certificat d'accréditation ainsi que la portée de notre accréditation.*

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ID #: 14710

Opened:

ICP/ICPMS Standard Gold

Expires: 12/31/2023

Rec'd: 12/29/2021

Eneray Laboratories Inc 1120 So. 27th Street

Billings MT 59107

SCP SCIENCE

Providing Innovative Solutions to Analytical

Certificate of Analysis**Au****1.0 DESCRIPTION:****PlasmaCAL ICP/ICPMS Standard - Gold 1000 µg/ml**

Catalogue Number: 140-052-790/-791/-795

Starting Material: Gold Metal 99.99%+

Lot Number: **S211129013**

Matrix: 10% HCl (See Section 3 for actual matrix)

Expiration Date (End of month): **December 2023** (or 15 months after bottle is opened, whichever comes first)**2.0 CERTIFIED VALUES AND ASSOCIATED UNCERTAINTY:**Certified Concentration: **1001 µg/ml +/- 4 µg/ml****982 µg/g +/- 4 µg/g**

Method of analysis: Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES)

Traceability: NIST Standard Reference Material 3121 Lot: **991806**

Note: The uncertainty of the certified value has been calculated from applicable uncertainty contributors (u_i) including uncertainty established during characterization of the material (u_{char}), the between bottle variation (u_{bb}), short-term stability (u_{sts}) and long-term stability (u_{lts}) according to the model $u_c = \sqrt{(u_{char}^2 + u_{bb}^2 + u_{sts}^2 + u_{lts}^2)}$. This combined uncertainty has been further multiplied by a coverage factor (k) of 2 to provide a 95% confidence interval.

3.0 REFERENCE VALUES:Density: **1.019 g/ml @ 22.4 °C**Actual Matrix: **10.0% (v/v) HCl**

Trace Metal Impurities as tested by ICP-MS:

| Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) | Element | Conc. (ppm) |
|---------|---------------|---------|---------------|---------|---------------|---------|-------------|
| Ag | 0.3851 | Fe | <0.0090 | Nd | <0.0010 | Sn | <0.0010 |
| Al | 0.0062 | Ga | <0.0010 | Ni | <0.0010 | Sr | <0.0025 |
| As | <0.0010 | Gd | <0.0010 | Os | <0.0010 | Ta | <0.0010 |
| Au | N/A | Ge | <0.0010 | P | <0.0132 | Tb | <0.0010 |
| B | <0.0015 | Hf | <0.0010 | Pb | <0.0010 | Te | <0.0010 |
| Ba | <0.0010 | Hg | * | Pd | 0.0434 | Th | <0.0010 |
| Be | <0.0010 | Ho | <0.0010 | Pr | <0.0010 | Ti | <0.0012 |
| Bi | <0.0010 | In | <0.0010 | Pt | 0.0048 | Tl | <0.0011 |
| Ca | <0.0135 | Ir | <0.0010 | Rb | <0.0010 | Tm | <0.0010 |
| Cd | <0.0010 | K | 0.0362 | Re | <0.0010 | U | <0.0010 |
| Ce | <0.0010 | La | <0.0010 | Rh | <0.0010 | V | <0.0010 |
| Co | <0.0010 | Li | <0.0010 | Ru | <0.0010 | W | <0.0020 |
| Cr | <0.0010 | Lu | <0.0010 | S | * | Y | <0.0010 |
| Cs | 0.0029 | Mg | <0.0010 | Sb | <0.0010 | Yb | <0.0010 |
| Cu | 0.0023 | Mn | <0.0010 | Sc | <0.0010 | Zn | <0.0010 |
| Dy | <0.0010 | Mo | <0.0010 | Se | <0.01 | Zr | <0.0010 |
| Er | <0.0010 | Na | 0.0070 | Si | <0.1 | | |
| Eu | <0.0010 | Nb | <0.0010 | Sm | <0.0010 | | |

*: Not tested

4.0 APPROVAL AND DATE OF CERTIFICATION:

Certification Approval: Daniel Boisvert, Chemist

Certification Date: December 10, 2021

Daniel Boisvert

5.0 INTENDED USE / UTILISATION PRÉVUE:

- ICP Standards: For the calibration of, including but not limited to: ICP-AES, ICP-MS, FAAS, GFAA, XRF and DCP. / *Étalons ICP* : Pour l'étalonnage d'instruments de mesure tels que: ICP-AES, ICP-MS, FAAS, GFAA, XRF et DCP.
 - AA Standards: For the calibration of Flame (FAAS) and Graphite Furnace (GFAA) Atomic Absorption Spectrometers. / *Étalons AA* : Pour l'étalonnage de spectromètres d'absorption atomique flamme (GFAA) et four au graphite (GFAA).
 - Matrix Modifiers: For the optimization of analytical conditions to provide better Graphite Furnace Atomic Absorption (GFAA) instrument response and improved detection limits. / *Modificateur de matrice* : Pour l'optimisation des conditions analytiques afin de fournir des meilleures réponses instrumentales et limites de détection pour SAA four au graphite.
 - pH Standards: For the calibrating pH meters or for other wet chemistry applications. / *Étalons pH* : Pour étalonnage de pH mètres et autres applications de chimie humide.
 - Conductivity Standards: For electrolytic conductivity measurement as a calibration standard. / *Étalons de conductivité* : Comme étalon pour les mesures de conductivité électrolytiques.
 - IC Standards: for calibration of, but not limited to IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS or other wet chemistry applications. / *Étalons IC* : Pour étalonnage d'instruments tels que : IC, HPLC, TLC, ISE, IR, NMR, MS, UV/VIS et autres applications de chimie humide.
 For any inquiries, please contact **SCP SCIENCE**. / *Pour toute question, veuillez contacter SCP SCIENCE.*

6.0 INSTRUCTIONS FOR USE / INSTRUCTIONS D'UTILISATION:

Handling and Storage / Manutention et entreposage: Keep product tightly capped when not in use. The solution should be opened for a minimum amount of time necessary to dispense the amount required. Do not pipet or use directly from container. Do not return unused portions back to container. Store under normal laboratory conditions. Avoid exposure to excessive sources of heat and humidity or direct sunlight. / *Garder les contenants bien fermés lorsque non utilisés. Le contenant devrait être ouvert seulement pour le temps requis afin de prélever la quantité nécessaire. Ne pas pipetter ou utiliser directement du contenant. Ne pas retourner les portions non-utilisées dans le contenant. Conserver dans des conditions normales de laboratoire. Éviter l'exposition à des sources de chaleur et d'humidité excessives ou à l'exposition solaire directe.*

Stability / Stabilité: This Standard is guaranteed to be stable and accurate to within the specified uncertainty of measurement up to the unopened expiry date, if sealed, or up to the opened expiry date (when indicated), whichever comes first, provided the solution is kept tightly capped and stored under the indicated storage conditions. Purchasers will be notified of any significant changes resulting in re-certification or withdrawal of the product prior to the expiration date. / *La stabilité et l'exactitude de cet étalon sont garanties d'être à l'intérieur de l'incertitude de mesure, jusqu'à la date d'expiration de la bouteille non-ouverte, si scellée, ou jusqu'à la date d'expiration de la bouteille ouverte (si indiquée), en présumant que le contenant est maintenu fermé et gardé dans les conditions d'entreposage indiquées. Les acheteurs seront avisés dans le cas où il y aura des changements significatifs nécessitant une re-certification ou un rappel du produit avant la date d'expiration.*

7.0 HAZARDOUS INFORMATION / INFORMATION SUR LES RISQUES POTENTIELS:

Please refer to the associated Safety Data Sheet (SDS) for information regarding this product (available at www.SCPSCIENCE.com). / *SVP vous référer à la Fiche Signalétique applicable pour de l'information sur ce produit (Disponible à www.SCPSCIENCE.com).*

8.0 HOMOGENEITY / HOMOGÉNÉITÉ:

This solution has been blended according to an in-house procedure and its homogeneity is guaranteed to be fit for purpose when a sample size sufficient for the intended method of analysis is used. / *Cette solution a été préparée selon une procédure maison et nous assurons que sa homogénéité est approprié à l'emploi lorsqu'un échantillon suffisant pour la méthode d'analyse prévue est utilisé.*

9.0 TRACEABILITY / TRAÇABILITÉ:

This CRM (Certified Reference Material) is traceable to the NIST SRM (Standard Reference Material) indicated in section 2 through an unbroken chain of comparisons. In addition, balances used are regularly calibrated using weights which are traceable to NIST (National Institute of Standards and Technology) or NRC (National Research Council of Canada) standards. All conductivity meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable Thermometer and standards. All pH meters used to analyze this standard have been regularly calibrated using a NIST or NRC traceable thermometer and pH/MV simulator. / *Ce matériel de référence certifié est traçable au Matériel de Référence Standardisé de NIST indiqué à la section 2 par une chaîne de comparaison ininterrompue. De plus, les balances utilisées sont étalonnées régulièrement en utilisant des poids qui sont traçables au NIST (National Institute of Standards and Technology) ou au CRNC (Conseil National de Recherches Canada). Tout conductimètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et étalons traçables au NIST ou CNRC. Tout pH mètre utilisé afin d'analyser cet étalon a été sujet à un étalonnage périodique utilisant des thermomètres et un simulateur pH/MV traçables au NIST ou au CNRC.*

10.0 PREPARATION / PRÉPARATION:

For the preparation of these solutions, 18 megohm/cm double deionized water, high-purity acids and glassware calibrated to ASTM Class A specifications are used. / *Une eau de 18 megohm/cm doublement déionisée, de l'acide de haute pureté, ainsi que de la verrerie étalonnée afin de satisfaire les spécifications Classe A de ASTM ont été utilisés pour la préparation de cet étalon.*

11.0 QUALITY SYSTEM CERTIFICATIONS / CERTIFICATIONS DE SYSTÈME QUALITÉ:

ISO 9001 Certification / Certification ISO 9001: This standard was produced in a facility which operates under a registered ISO 9001 Quality Management System. Please consult our web site for a copy of the most recent revision of our certificate of registration. / *Cet étalon a été fabriqué dans un laboratoire qui utilise un Système de Gestion de la Qualité enregistré à la norme ISO 9001. Veuillez consulter notre site web pour obtenir la version la plus récente de notre certificat d'enregistrement.*

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